

**DEVELOPMENT OF REGIONAL IMPACT  
(DRI #4334)**

**TRAFFIC STUDY  
FOR  
STREAM DATA CENTER DEVELOPMENT  
  
DOUGLAS COUNTY, GEORGIA**



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## EXECUTIVE SUMMARY

Traffic impacts were evaluated for the proposed 1,343,700 sf Data Center development that will be located at the end of Jason Industrial Parkway, north of SR 8/US 78 (Veterans Memorial Highway) in Douglas County, Georgia. The development will consist of 9 two-story buildings of 149,300 sf each for a total of 1,343,700 sf.

The development proposes access at the following locations:

- Site Driveway 1: Full access driveway on N. Baggett Road, for cars only
- Site Driveway 2: Full access driveway on Jason Industrial Parkway, for both cars and trucks

Existing and future operations during the AM peak hour (7:00 AM – 9:00 AM) and PM peak hour (4:00 PM – 6:00 PM) before and after completion of the project were analyzed at the following intersections:

1. SR 8/US 78 (Veterans Memorial Highway) @ SR 5 (Bill Arp Road)
2. SR 8/US 78 (Veterans Memorial Highway) @ N. Baggett Road (eastern end)
3. SR 8/US 78 (Veterans Memorial Highway) @ N. Baggett Road / S. Baggett Road
4. SR 8/US 78 (Veterans Memorial Highway) @ Strawn Road
5. SR 8/US 78 (Veterans Memorial Highway) @ Post Road / Mann Road
6. SR 8/US 78 (Veterans Memorial Highway) @ John West Road
7. Post Road @ I-20 Westbound Ramps
8. Post Road @ I-20 Eastbound Ramps
9. N. Baggett Road @ Proposed Site Driveway 1
10. Jason Industrial Parkway @ Proposed Site Driveway 2

## Traffic Operations Summary

Table E1 below provides a summary of traffic operations for the “No-Build” and “Build” conditions for the year 2035 with and without system improvements. As per GRTA requirements, all approaches that do not meet the level-of-service (LOS) standard (considered failing) are highlighted in Table E1. Table E1 also includes the project’s total added trip and the respective percentage of overall total “Build” condition approach traffic volume for all failing LOS approaches.

**TABLE E1 — FUTURE INTERSECTION OPERATIONS AT FAILING APPROACHES**

| Intersection |                                                        | No-Build Condition: LOS (Delay) |          |                       |                       | Build Condition: LOS (Delay) |          |                            |                       |                                                          |                       |                                                                  |                       |
|--------------|--------------------------------------------------------|---------------------------------|----------|-----------------------|-----------------------|------------------------------|----------|----------------------------|-----------------------|----------------------------------------------------------|-----------------------|------------------------------------------------------------------|-----------------------|
|              |                                                        | NO IMPROVEMENTS                 |          | SYSTEM IMPROVEMENTS   |                       | NO IMPROVEMENTS              |          | SYSTEM / SITE IMPROVEMENTS |                       | SITE VOLUMES AT FAILING APPROACH BUILD WITH IMPROVEMENTS |                       | PERCENT SITE TRIPS OF TOTAL APPROACH TRIPS AT FAILING APPROACHES |                       |
|              |                                                        | AM Peak                         | PM Peak  | AM Peak               | PM Peak               | AM Peak                      | PM Peak  | AM Peak                    | PM Peak               | AM Peak                                                  | PM Peak               | AM Peak                                                          | PM Peak               |
| 3            | <b><u>SR 8 @ N. Baggett Road / S. Baggett Road</u></b> |                                 |          |                       |                       |                              |          |                            |                       |                                                          |                       |                                                                  |                       |
|              | -Eastbound Left                                        | A (9.5)                         | A (9.5)  | N/A                   | N/A                   | A (9.8)                      | A (9.6)  | A (9.8)                    | A (9.6)               | -                                                        | -                     | -                                                                | -                     |
|              | -Westbound Left                                        | A (8.5)                         | A (8.4)  |                       |                       | A (8.5)                      | A (8.5)  | A (8.5)                    | A (8.5)               | -                                                        | -                     | -                                                                | -                     |
|              | -Northbound Approach                                   | C (22.6)                        | C (22.9) |                       |                       | D (25.1)                     | C (24.8) | C (24.8)                   | C (24.5)              | -                                                        | -                     | -                                                                | -                     |
|              | -Southbound Approach                                   | D (33.7)                        | D (32.9) |                       |                       | E (49.6)                     | F (50.6) | E (48.0)                   | E (49.5)              | 27                                                       | 35                    | 79%                                                              | 83%                   |
| 6            | <b><u>SR 8 @ John West Road</u></b>                    |                                 |          | <b><u>A (7.5)</u></b> | <b><u>A (8.6)</u></b> |                              |          | <b><u>A (7.6)</u></b>      | <b><u>A (8.8)</u></b> |                                                          |                       |                                                                  |                       |
|              | -Eastbound Left                                        | -                               | -        | A (7.6)               | A (8.2)               | -                            | -        | A (7.6)                    | A (8.4)               | No Failing Approaches                                    | No Failing Approaches | No Failing Approaches                                            | No Failing Approaches |
|              | -Westbound Left                                        | A (9.2)                         | A (8.7)  | A (4.4)               | A (6.8)               | A (9.4)                      | A (8.8)  | A (4.3)                    | A (6.7)               |                                                          |                       |                                                                  |                       |
|              | -Northbound Approach                                   | C (24.6)                        | F (62.6) | B (15.4)              | B (14.1)              | D (28.7)                     | F (81.3) | B (16.6)                   | B (15.1)              |                                                          |                       |                                                                  |                       |

The results of future “No-Build 2035” traffic operations show that all the study intersections will operate at a level of service “D” or better in both the AM and PM peak hours except the unsignalized intersection of SR 8 (Veterans Memorial Highway) at John West Road where the northbound (John West Road) approach will operate at LOS “F” in the PM peak hour.

The results of future “Build 2035” traffic operations show that the stop-controlled northbound approach of John West Road at Veterans Memorial will continue to operate at LOS “F”, as in “No-Build 2035” conditions in the PM peak hour.

Further, the northbound and southbound stop-controlled approaches of S. Baggett Road and N. Baggett Road at Veterans Memorial Highway will also operate at LOS “E” in AM and PM peak hour after the addition of site generated traffic and the annual growth in traffic by 2035. The projected 2035 low traffic volumes do not warrant installation of a traffic signal at the study intersection and no geometric improvements seem to aid improve the modest delays expected to be experienced in 2035. It is not uncommon for stop-controlled side-streets on arterial roadways to experience delays during peak hours as delays are caused by side-street wait times to turn left onto the main line.

The 95<sup>th</sup> percentile queue lengths analysis in both Synchro and SimTraffic show that the southbound queue on N. Baggett Road at SR 8 (Veterans Memorial Highway) and the northbound queue on N. Baggett Road at Site Driveway 1 will be less than three car lengths in both the AM and PM peak hours in future conditions and will not back up till the existing railroad line.

## **Recommendations for System Improvements**

### **SR 8 (Veterans Memorial Highway) at John West Road**

A preliminary analysis of traffic of traffic volumes indicates that the projected left-turn volumes on John West Road in “No-build” conditions in 2035 may warrant installation of a traffic signal at its intersection with SR 8/US78 (Veterans Memorial Highway). We recommend that a detailed signal warrant analysis be completed in 2035, and a traffic signal be installed at that time, if warranted and approved by GDOT.

## **Recommendation for Site Access Configuration**

The following access configuration is recommended for the proposed site driveway intersections:

- **Site Driveway 1: Full access driveway on N. Baggett Road, for cars only**
  - One entering and one exiting lanes.
  - Stop-sign controlled on the driveway approach with N. Baggett Road remaining free flow.
  - Provide adequate sight distance per AASHTO standards.
- **Site Driveway 2: Full access driveway on Jason Industrial Parkway, for both cars and trucks**
  - One entering and one exiting lanes.
  - Stop-sign controlled on the driveway approach with Jason Industrial Parkway remaining free flow.
  - Provide larger radius return for trucks.

## **Recommendations for Site Improvements**

- **SR 8 (Veterans Memorial Hwy) @ N. Baggett Road / S. Baggett Road**
  - Construct a westbound right-turn lane on Veterans Memorial Highway
  - Verify adequate sight distance per AASHTO standards is available.

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# INTRODUCTION

The purpose of this study is to determine the traffic impact from the proposed Data Center development that will be located at the end of Jason Industrial Parkway, north of SR 8/US 78 (Veterans Memorial Highway) in Douglas County, Georgia. The traffic analysis evaluates the current operations and the future conditions with the traffic generated by the development. The development will consist of 9 two-story buildings of 149,300 sf each for a total of 1,343,700 sf.



The development proposes access at the following locations:

- Site Driveway 1: Full access driveway on N. Baggett Road, for cars only
- Site Driveway 2: Full access driveway on Jason Industrial Parkway, for both cars and trucks

Traffic operations for the AM and PM peak hours were analyzed at the intersections of:

1. SR 8/US 78 (Veterans Memorial Highway) @ SR 5 (Bill Arp Road)
2. SR 8/US 78 (Veterans Memorial Highway) @ N. Baggett Road (east end)
3. SR 8/US 78 (Veterans Memorial Highway) @ N. Baggett Road / S. Baggett Road
4. SR 8/US 78 (Veterans Memorial Highway) @ Strawn Road
5. SR 8/US 78 (Veterans Memorial Highway) @ Post Road / Mann Road
6. SR 8/US 78 (Veterans Memorial Highway) @ John West Road
7. Post Road @ I-20 Westbound Ramps
8. Post Road @ I-20 Eastbound Ramps

9. N. Baggett Road @ Proposed Site Driveway 1
10. Jason Industrial Parkway @ Proposed Site Driveway 2

Recommendations to improve traffic operations, if any, have been identified as appropriate and are discussed in detail in the following sections of the report.

## STUDY NETWORK DETERMINATION

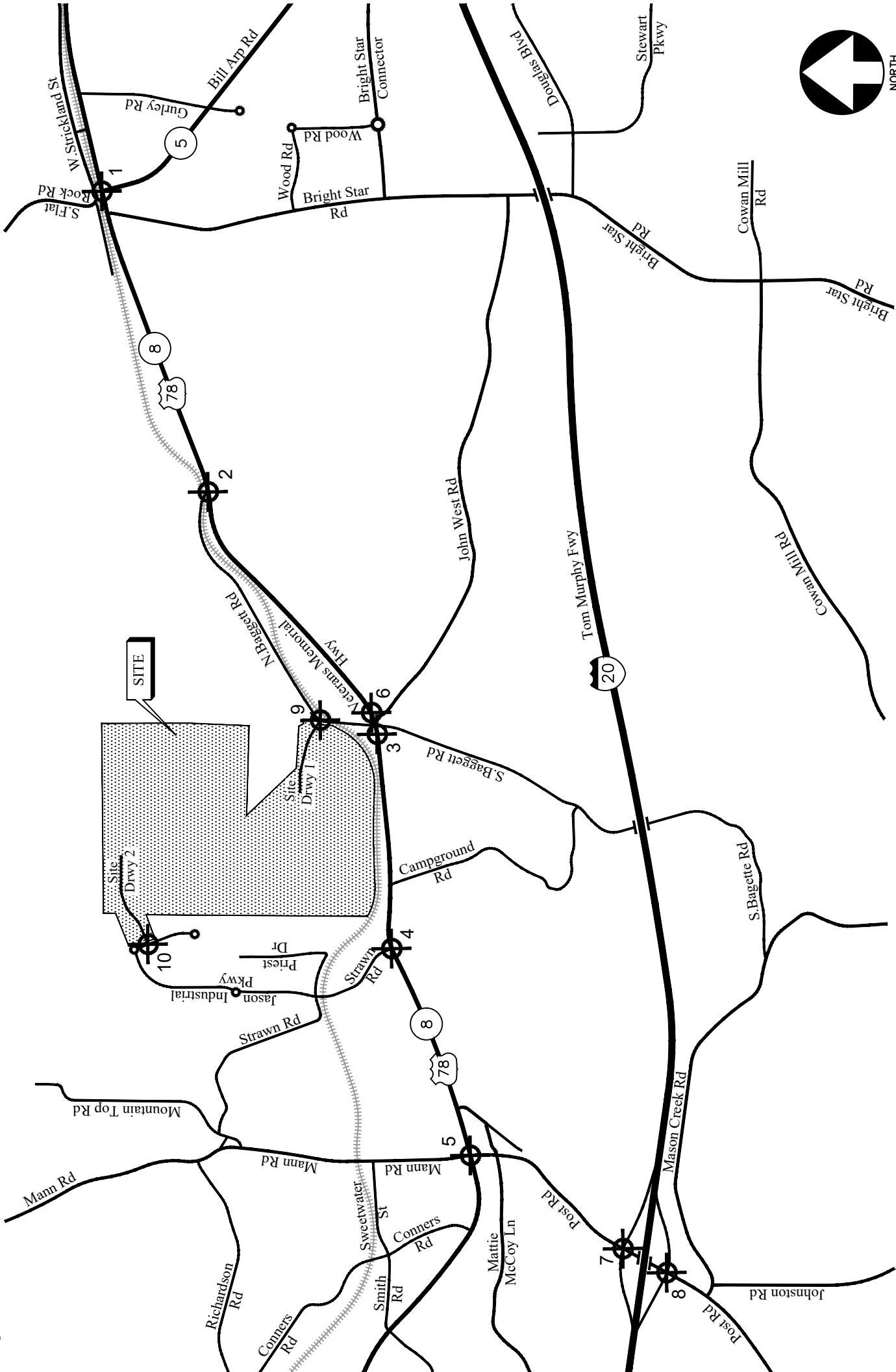
The study network was determined by evaluating the amount of traffic that the proposed development will add to each roadway segment in the area. According to GRTA requirements, a roadway segment carries a “significant” amount of traffic if the project contributes 7% or more trips to the two-way daily service volumes of the roadway at the appropriate level of service standard. Upon agreement with GRTA a level of service standard of “D” was used for determining the study area network.

The traffic generated by the proposed project was then assigned to the area roadways using the trip distribution to determine the site-generated traffic on each roadway segment. The boundaries of the study network extend to the most distant intersections where at least 7% of the service volumes on the segment are attributed to project traffic. Although only one intersection of SR 8/US 78 (Veterans Memorial Parkway) at Stran Road (Jason Industrial Parkway) was qualified to be studied, but as requested by Douglasville County, the following study intersections are evaluated in discussions with GRTA, ARC, GDOT and Douglas County:

1. SR 8/US 78 (Veterans Memorial Highway) @ SR 5 (Bill Arp Road)
2. SR 8/US 78 (Veterans Memorial Highway) @ N. Baggett Road (east end)
3. SR 8/US 78 (Veterans Memorial Highway) @ N. Baggett Road / S. Baggett Road
4. SR 8/US 78 (Veterans Memorial Highway) @ Strawn Road
5. SR 8/US 78 (Veterans Memorial Highway) @ Post Road / Mann Road
6. SR 8/US 78 (Veterans Memorial Highway) @ John West Road
7. Post Road @ I-20 Westbound Ramps
8. Post Road @ I-20 Eastbound Ramps
9. N. Baggett Road @ Proposed Site Driveway 1
10. Jason Industrial Parkway @ Proposed Site Driveway 2

The location of the development and the surrounding study network is shown in Figure 1. Other intersections within this corridor, such as unsignalized side streets, right-in/right-out driveways or private driveways have not been included in the study network.

# Study Intersection



LOCATION MAP AND STUDY INTERSECTIONS

FIGURE 1

# EXISTING ROADWAY FACILITIES

The following is a brief description of each of the roadway facilities located in proximity to the site:

## ***SR 8/US 78 (Veterans Memorial Highway)***

SR 8/US 78 (Veterans Memorial Highway) is an east-west, two-lane, undivided roadway with a posted speed limit of 45 mph in the vicinity of the site. Between Hamrick Road and Anderson Power Services Driveway, SR 8 is a three-lane roadway with two lanes in the eastbound direction. To the east of Anderson Power Services Driveway till Bright Star Road, SR 8 is a four-lane roadway. GDOT traffic counts (Station ID 097-0056) indicate that the daily traffic volume on SR 8/US 78 (Veterans Memorial Highway) in 2023 was 9,760 vehicles west of Baggett Road. GDOT classifies SR 8/US 78 (Veterans Memorial Highway) as an Urban Minor Arterial roadway.

## ***SR 5 (Bill Arp Road)***

SR 5 (Bill Arp Road) is a north-south, two-lane, undivided roadway with a posted speed limit of 45 mph in the vicinity of the site. GDOT traffic counts (Station ID 097-0016) indicate that the daily traffic volume on SR 5 (Bill Arp Road) in 2023 was 11,500 vehicles southeast of Gurley Road. GDOT classifies SR 5 (Bill Arp Road) as an Urban Minor Arterial roadway.

## ***N. Baggett Road***

N. Baggett Road is a two-lane, undivided roadway with a posted speed limit of 35 mph.

## ***S. Baggett Road***

S. Baggett Road is a north-south, two-lane, undivided roadway with a posted speed limit of 35 mph in the vicinity of the site. GDOT traffic counts (Station ID 097-8160) indicate that the daily traffic volume on S. Baggett Road in 2023 was 180 vehicles south of SR 8/US 78 (Veterans Memorial Highway). GDOT classifies S. Baggett Road as an Urban Local roadway.

## ***John West Road***

John West Road is a north-south, two-lane, undivided roadway with a posted speed limit of 35 mph in the vicinity of the site.

## ***Strawn Road***

Strawn Road is a north-south, two-lane, undivided roadway with an assumed speed limit of 25 mph.

## ***Jason Industrial Parkway***

Jason Industrial Parkway is a north-south, two-lane, undivided roadway with an assumed speed limit of 25 mph.

### ***Post Road***

Post Road is a north-south, two-lane, undivided roadway with a posted speed limit of 45 mph in the vicinity of the site. GDOT traffic counts (Station ID's 097-0141 & 097-0143) indicate that the daily traffic volume on Post Road in 2023 was 10,300 vehicles south of I-20 and 9,790 vehicles north of I-20. GDOT classifies Post Road as an Urban Minor Arterial roadway.

### ***Mann Road***

Mann Road is a north-south, two-lane, undivided roadway with a posted speed limit of 35 mph in the vicinity of the site.

### ***I-20 (Interstate 20)***

I-20 (Interstate 20) is an east-west, six-lane, median-divided roadway with a posted speed limit of 70 mph in the vicinity of the site. GDOT traffic counts (Station ID's 097-0107 & 097-0112) indicate that the daily traffic volume on I-20 in 2023 was 83,200 vehicles west of Post Road and 88,400 vehicles east of Post Road.

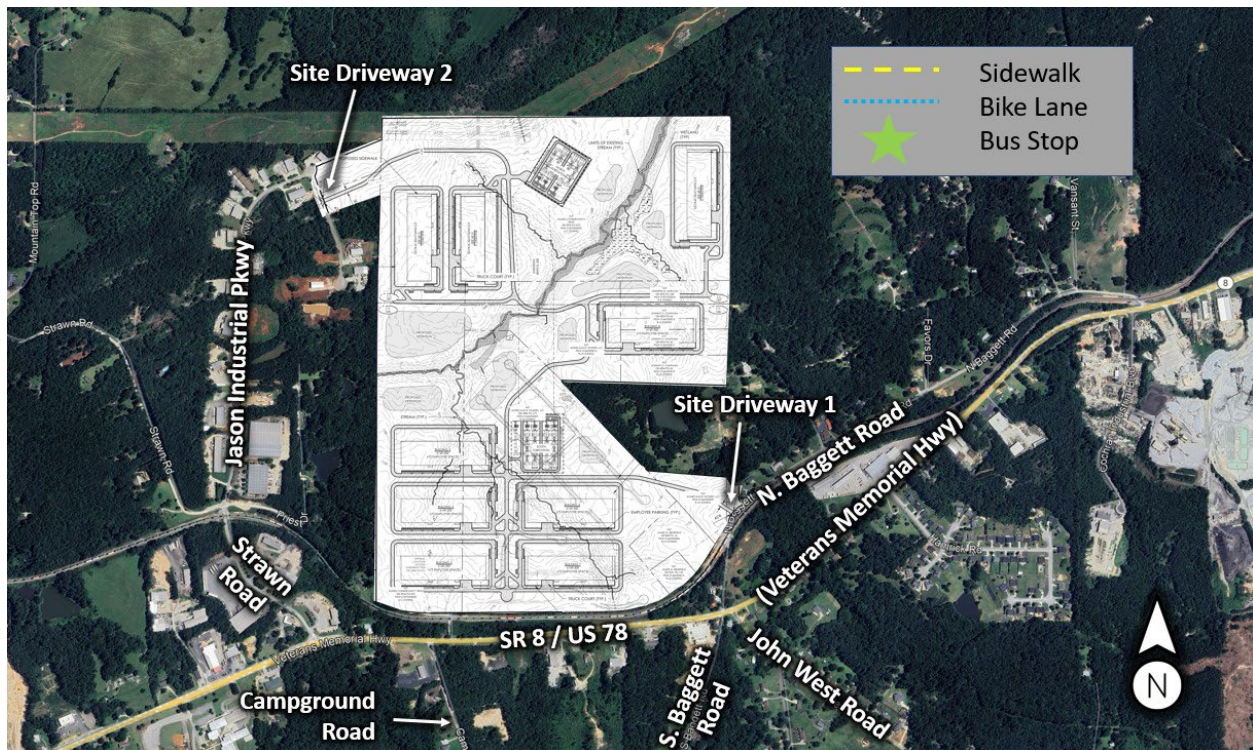
## Existing Bicycle and Pedestrian Facilities

- Sidewalks and crosswalks are not present on any road within 0.25 miles of the development
- Bike paths are not present in the study network
- There is no public transit service near the site.

## Alternative Modes of Access

- No existing transit routes were found in the study network.
- No high-capacity transit stations were found in the vicinity of the proposed development.

### Existing Alternative Transportation Map



# STUDY METHODOLOGY

In this study, the methodology used for evaluating traffic operations at each of the subject intersections is based on the criteria set forth in the Transportation Research Board's Highway Capacity Manual, 6<sup>th</sup> edition (HCM 6). Synchro software, which utilizes the HCM methodology, was used for the analysis. The following is a description of the methodology employed for the analysis of unsignalized and signalized intersections.

## Unsignalized Intersections

For unsignalized intersections controlled by a stop sign on minor streets, the level-of-service (LOS) for motor vehicles with controlled movements is determined by the computed control delay according to the thresholds stated in Table 1 below. LOS is determined for each minor street movement (or shared movement), as well as major street left turns. LOS is not defined for the intersection as a whole or for major street approaches. The LOS of any controlled movement which experiences a volume to capacity ratio greater than 1 is designed as "F" regardless of the control delay.

Control delay for unsignalized intersections includes initial deceleration delay, queue move-up time, stopped delay and final acceleration delay. Several factors affect the control delay for unsignalized intersections, such as the availability and distribution of gaps in the conflicting traffic stream, critical gaps and follow-up time for a vehicle in the queue.

Level-of-service is assigned a letter designation from "A" through "F". Level-of-service "A" indicates excellent operations with little delay to motorists, while level-of-service "F" exists when there are insufficient gaps of acceptable size to allow vehicles on the side street to cross the main road without experiencing long delays.

| TABLE 1 — LEVEL-OF-SERVICE CRITERIA FOR UNSIGNALIZED INTERSECTIONS |                                  |           |
|--------------------------------------------------------------------|----------------------------------|-----------|
| Control Delay (sec/vehicle)                                        | LOS by Volume-to-Capacity Ratio* |           |
|                                                                    | v/c ≤ 1.0                        | v/c > 1.0 |
| ≤ 10                                                               | A                                | F         |
| > 10 and ≤ 15                                                      | B                                | F         |
| > 15 and ≤ 25                                                      | C                                | F         |
| > 25 and ≤ 35                                                      | D                                | F         |
| > 35 and ≤ 50                                                      | E                                | F         |
| > 50                                                               | F                                | F         |

\*The LOS criteria apply to each lane on a given approach and to each approach on the minor street. LOS is not calculated for major-street approaches or for the intersection.

Source: Highway Capacity Manual, 6<sup>th</sup> edition, Exhibit 20-2 *LOS Criteria: Motorized Vehicle Mode*

## Signalized Intersections

According to HCM procedures, LOS can be calculated for the entire intersection, each intersection approach, and each lane group. HCM uses control delay alone to characterize LOS for the entire intersection or an approach. Control delay per vehicle is composed of initial deceleration delay, queue move-up time, stopped delay and final acceleration delay. Both control delay and volume-to-capacity ratio are used to characterize LOS for a lane group. A volume-to-capacity ratio greater than 1.0 for a lane group indicates failure from capacity perspective. Therefore, such a lane group is assigned LOS F regardless of the amount of control delay.

Table 2 below summarizes the LOS criteria from HCM for motorized vehicles at signalized intersections.

| TABLE 2 — LEVEL-OF-SERVICE CRITERIA FOR SIGNALIZED INTERSECTIONS |                                                 |           |
|------------------------------------------------------------------|-------------------------------------------------|-----------|
| Control Delay (sec/vehicle)*                                     | LOS for Lane Group by Volume-to-Capacity Ratio* |           |
|                                                                  | v/c ≤ 1.0                                       | v/c > 1.0 |
| ≤ 10                                                             | A                                               | F         |
| > 10 and ≤ 20                                                    | B                                               | F         |
| > 20 and ≤ 35                                                    | C                                               | F         |
| > 35 and ≤ 55                                                    | D                                               | F         |
| > 55 and ≤ 80                                                    | E                                               | F         |
| > 80                                                             | F                                               | F         |

\*For approach-based and intersection wide assessments, LOS is defined solely by control delay

Source: Highway Capacity Manual, 6<sup>th</sup> edition, Exhibit 19-8 *LOS Criteria: Motorized Vehicle Mode*

LOS A is typically assigned when the volume-to-capacity (v/c) ratio is low and either progression is exceptionally favorable, or the cycle length is very short. LOS B is typically assigned when the v/c ratio is low and either progression is highly favorable, or the cycle length is short. However, more vehicles are stopped than with LOS A. LOS C is typically assigned when progression is favorable, or the cycle length is moderate. Individual cycle failures (one or more queued vehicles are not able to depart because of insufficient capacity during the cycle) may begin to appear at this level. Many vehicles still pass through the intersection without stopping, but the number of vehicles stopping is significant. LOS D is typically assigned when the v/c ratio is high and either progression is ineffective, or the cycle length is long. There are many vehicle-stops and individual cycle failures are noticeable. LOS E is typically assigned when the v/c ratio is high, progression is very poor, the cycle length is long, and individual cycle failures are frequent. LOS F is typically assigned when the v/c ratio is very high, progression is very poor, the cycle length is long, and most cycles fail to clear the queue.

# EXISTING 2025 TRAFFIC ANALYSIS

## Existing Traffic Volumes

Existing traffic counts were obtained at the following study intersections:

1. SR 8/US 78 (Veterans Memorial Highway) @ SR 5 (Bill Arp Road)
2. SR 8/US 78 (Veterans Memorial Highway) @ N. Baggett Road (east end)
3. SR 8/US 78 (Veterans Memorial Highway) @ N. Baggett Road / S. Baggett Road
4. SR 8/US 78 (Veterans Memorial Highway) @ Strawn Road
5. SR 8/US 78 (Veterans Memorial Highway) @ Post Road / Mann Road
6. SR 8/US 78 (Veterans Memorial Highway) @ John West Road
7. Post Road @ I-20 Westbound Ramps
8. Post Road @ I-20 Eastbound Ramps

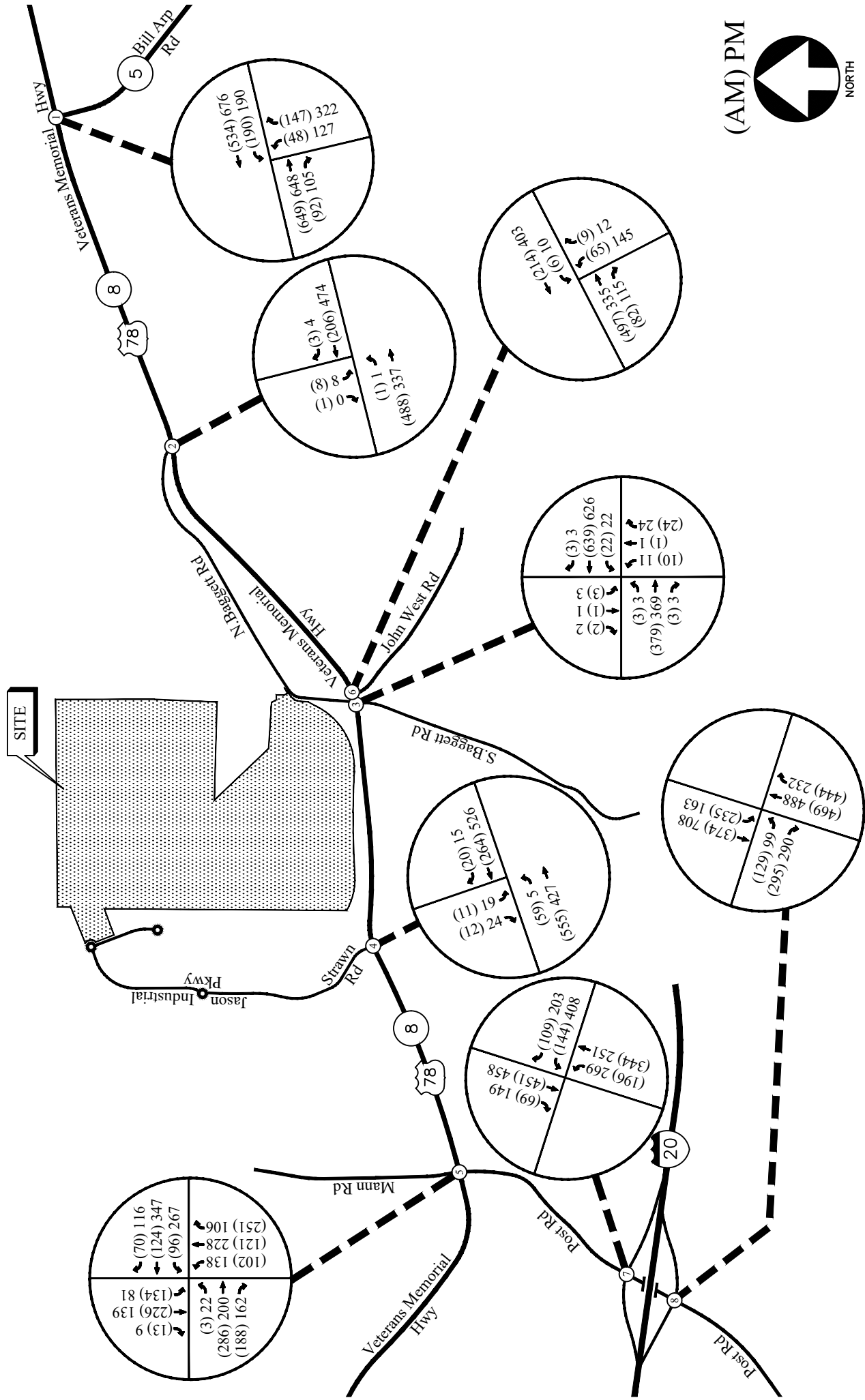
Turning movement counts were collected on Wednesday, February 05, 2025, at the following intersections:

- (1) SR 8/US 78 (Veterans Memorial Highway) @ SR 5 (Bill Arp Road)
- (4) SR 8/US 78 (Veterans Memorial Highway) @ Strawn Road
- (6) SR 8/US 78 (Veterans Memorial Highway) @ John West Road
- (8) Post Road @ I-20 Eastbound Ramps

At the below intersections, the turning movement counts were collected on Thursday, February 06, 2025:

- (2) SR 8/US 78 (Veterans Memorial Highway) @ N. Baggett Road (east end)
- (3) SR 8/US 78 (Veterans Memorial Highway) @ N. Baggett Road / S. Baggett Road
- (5) SR 8/US 78 (Veterans Memorial Highway) @ Post Road / Mann Road
- (7) Post Road @ I-20 Westbound Ramps

All turning movement counts were recorded during the AM and PM peak hours between 7:00 AM to 9:00 AM and 4:00 PM to 6:00 PM, respectively. Truck data was included separately in the counts and included in the analysis. The four consecutive 15-minute interval volumes that produced the highest volume at the intersections were then determined. These volumes make up the peak hour traffic volumes for the intersections counted and are shown in Figure 2. The existing traffic control and lane geometry for the intersections are shown in Figure 3.

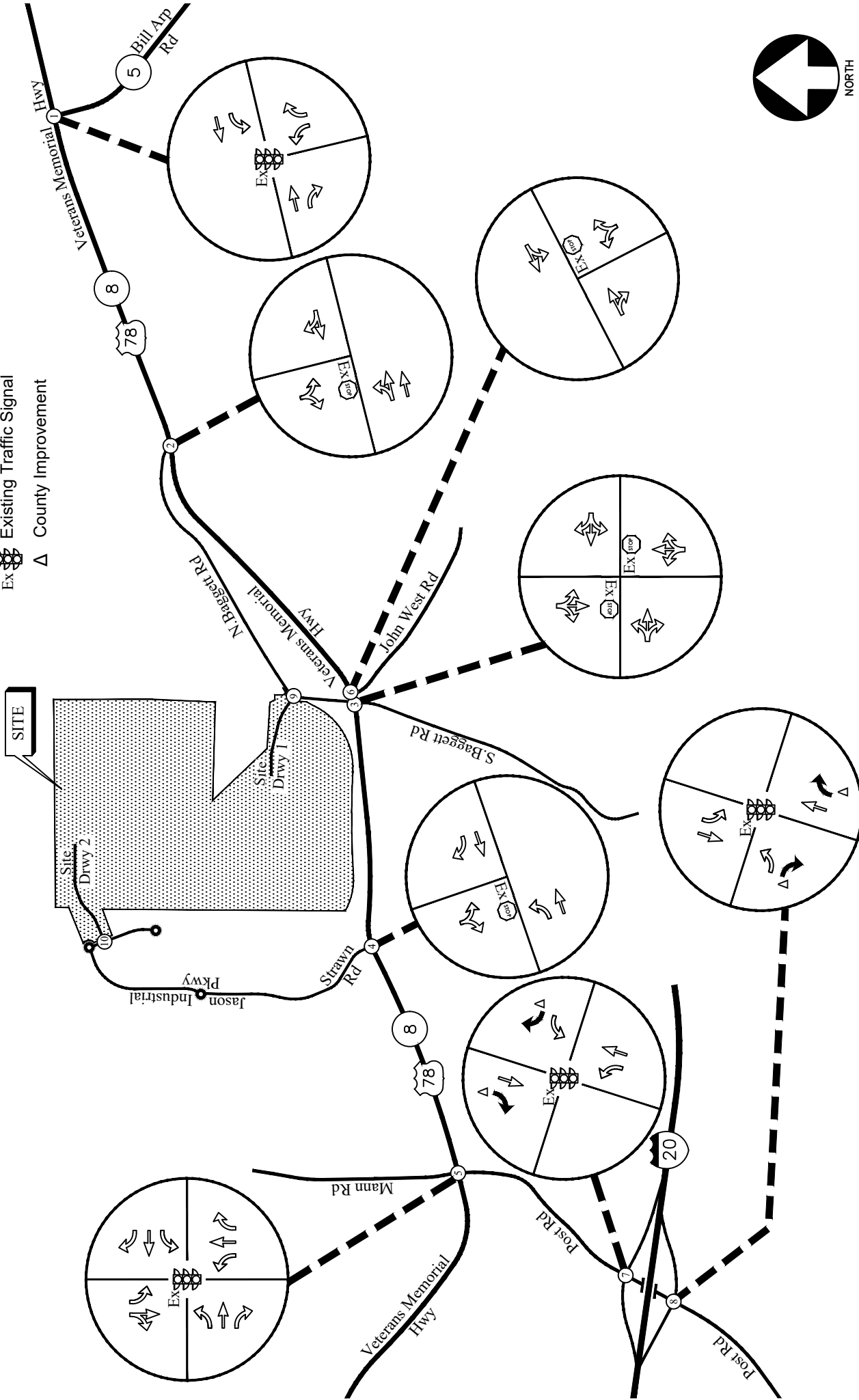


EXISTING WEEKDAY PEAK-HOUR VOLUMES

FIGURE 2

# LEGEND

- Ex  Existing Signed Approach
- Ex  Existing Lane Geometry
- Ex  Existing Traffic Signal
- Δ  County Improvement



EXISTING TRAFFIC CONTROL AND LANE GEOMETRY

FIGURE 3

A&R Engineering Inc.

## Existing Traffic Operations

Existing 2025 traffic operations were analyzed at the study intersections in accordance with the HCM methodology. The results of the analyses are shown in Table 3A.

| TABLE 3A — EXISTING INTERSECTION OPERATIONS (2025) |                                                   |                                                  |                                            |                                            |                          |
|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------|
| Intersection                                       |                                                   | Traffic Control                                  | AM Peak                                    | PM Peak                                    | LOS Standard             |
| 1                                                  | <b><u>SR 8/US 78 (Veterans Memorial Hwy)</u></b>  | Signalized                                       | <b><u>A (8.4)</u></b>                      | <b><u>B (11.4)</u></b>                     | <b><u>D/D</u></b>        |
|                                                    | <b><u>@ SR 5 (Bill Arp Road)</u></b>              |                                                  | B (11.3)                                   | B (13.5)                                   | D/D                      |
|                                                    | -Eastbound Approach                               |                                                  | A (4.4)                                    | A (6.5)                                    | D/D                      |
|                                                    | -Westbound Approach                               |                                                  | C (30.6)                                   | C (33.9)                                   | D/D                      |
| 2                                                  | <b><u>SR 8/US 78 (Veterans Memorial Hwy)</u></b>  | Stop<br>Controlled on<br>SB Approach             | A (7.7)<br>B (12.5)                        | A (8.3)<br>B (14.5)                        | D/D<br>D/D               |
|                                                    | <b><u>@ N. Baggett Road (east end)</u></b>        |                                                  |                                            |                                            |                          |
|                                                    | -Eastbound Left                                   |                                                  |                                            |                                            |                          |
|                                                    | -Southbound Approach                              |                                                  |                                            |                                            |                          |
| 3                                                  | <b><u>SR 8/US 78 (Veterans Memorial Hwy)</u></b>  | Stop<br>Controlled on<br>NB and SB<br>Approaches | A (9.0)<br>A (8.2)<br>C (17.2)<br>C (23.2) | A (9.0)<br>A (8.2)<br>C (17.4)<br>C (22.9) | D/D<br>D/D<br>D/D<br>D/D |
|                                                    | <b><u>@ N. Baggett Road / S. Baggett Road</u></b> |                                                  |                                            |                                            |                          |
|                                                    | -Eastbound Left                                   |                                                  |                                            |                                            |                          |
|                                                    | -Westbound Left                                   |                                                  |                                            |                                            |                          |
| 4                                                  | <b><u>SR 8/US 78 (Veterans Memorial Hwy)</u></b>  | Stop<br>Controlled on<br>SB Approach             | A (8.0)<br>B (12.6)                        | A (8.7)<br>B (12.7)                        | D/D<br>D/D               |
|                                                    | <b><u>@ Strawn Road</u></b>                       |                                                  |                                            |                                            |                          |
|                                                    | -Eastbound Left                                   |                                                  |                                            |                                            |                          |
|                                                    | -Southbound Approach                              |                                                  |                                            |                                            |                          |
| 5                                                  | <b><u>SR 8/US 78 (Veterans Memorial Hwy)</u></b>  | Signalized                                       | <b><u>C (32.5)</u></b>                     | <b><u>C (29.2)</u></b>                     | <b><u>D/D</u></b>        |
|                                                    | <b><u>@ Post Road / Mann Road</u></b>             |                                                  | B (14.3)                                   | B (16.4)                                   | D/D                      |
|                                                    | -Eastbound Approach                               |                                                  | B (10.4)                                   | B (12.7)                                   | D/D                      |
|                                                    | -Westbound Approach                               |                                                  | D (47.3)                                   | D (52.0)                                   | D/D                      |
| 6                                                  | <b><u>SR 8/US 78 (Veterans Memorial Hwy)</u></b>  | Stop<br>Controlled on<br>NB Approach             | A (8.8)<br>C (18.4)                        | A (8.4)<br>D (28.4)                        | D/D<br>D/D               |
|                                                    | <b><u>@ John West Road</u></b>                    |                                                  |                                            |                                            |                          |
|                                                    | -Westbound Left                                   |                                                  |                                            |                                            |                          |
|                                                    | -Northbound Approach                              |                                                  |                                            |                                            |                          |
| 7                                                  | <b><u>Post Road @ I-20 Westbound Ramps</u></b>    | Signalized                                       | <b><u>B (11.9)</u></b>                     | <b><u>C (24.7)</u></b>                     | <b><u>D/D</u></b>        |
|                                                    | -Westbound Approach                               |                                                  | D (51.7)                                   | D (51.3)                                   | D/D                      |
|                                                    | -Northbound Approach                              |                                                  | A (4.4)                                    | B (10.8)                                   | D/D                      |
|                                                    | -Southbound Approach                              |                                                  | A (8.7)                                    | B (18.6)                                   | D/D                      |
| 8                                                  | <b><u>Post Road @ I-20 Eastbound Ramps</u></b>    | Signalized                                       | <b><u>A (9.9)</u></b>                      | <b><u>A (6.6)</u></b>                      | <b><u>D/D</u></b>        |
|                                                    | -Eastbound Approach                               |                                                  | D (52.6)                                   | D (54.9)                                   | D/D                      |
|                                                    | -Northbound Approach                              |                                                  | A (8.9)                                    | A (6.4)                                    | D/D                      |
|                                                    | -Southbound Approach                              |                                                  | A (2.4)                                    | A (1.3)                                    | D/D                      |

The results of existing traffic operations analysis indicate that all the signalized study intersections are operating at an overall level of service “D” or better in both the AM and PM peak hours. The stop-controlled approaches at all the unsignalized intersections are operating at a level of service “D” or better.

A queue length analysis was performed for the southbound queues at the intersection of SR 8/US 78 (Veterans Memorial Highway) at N. Baggett Road/S. Baggett Road. The results of the analyses are shown in Table 3B.

| TABLE 3B — EXISTING INTERSECTION 95 <sup>TH</sup> PERCENTILE QUEUES |                                                                                                |                   |               |               |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------|---------------|---------------|
| Intersection                                                        |                                                                                                | Available Storage | AM Peak: feet | PM Peak: feet |
| 1                                                                   | SR 8/US 78 (Veterans Memorial Hwy) @ N. Baggett Road / S. Baggett Road<br>-Southbound Approach | (590')            | 3'            | 3'            |

The 95<sup>th</sup> percentile queue length analysis shows that the queue on N. Baggett Road is insignificant at its intersection with SR 8/US 78 (Veterans Memorial Highway) and S. Baggett Road.

## PROJECT DESCRIPTION

The proposed Data Center development will be located at the end of Jason Industrial Parkway, north of SR 8/US 78 (Veterans Memorial Highway) in Douglas County, Georgia. The proposed development will consist of 9 two-story buildings of 149,300 sf each for a total of 1,343,700 sf.



The development proposes access at the following locations:

- Site Driveway 1: Full access driveway on N. Baggett Road, for cars only
- Site Driveway 2: Full access driveway on Jason Industrial Parkway, for both cars and trucks

### Site Plan

A site plan is shown in Figure 4. A digital copy of the site plan is also provided with this report.



## Planned Bicycle and Pedestrian Facilities

Pedestrian sidewalks are proposed throughout the internal roadway network inside the development.

## Potential Pedestrian and Bicycle Destinations

Following pedestrian and bicycle destinations are within 0.25 miles.

- Exon Gas (Within 0.25-mile proximity)
- Church of Deliverance (Within 0.25-mile proximity)
- Herc Rentals (Within 0.25-mile proximity)

## Parks, Greenspace and Trails

- A preliminary vision of a proposed system of trails shows a proposed trail along Veterans Memorial Highway. A future County-wide Bikeways and Trails Plan will provide additional detail and direction on this trail system.
- Aeromodelers Park on Cedar Mountain Road, north of the proposed site is surrounded by large privately-owned parcels, so expansion or additional paths are not anticipated at this time.

## Planned Transit Facilities

There is no existing or planned public transit service near the proposed development.

## Consistency with Adopted Comprehensive Plan

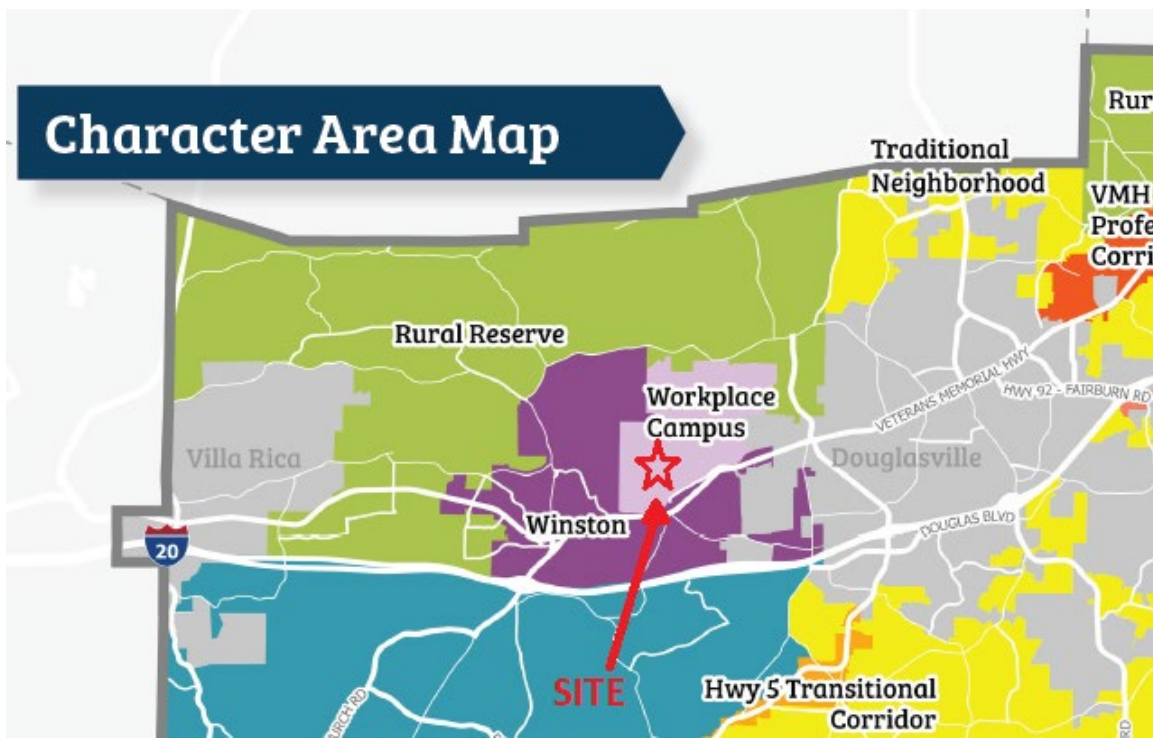
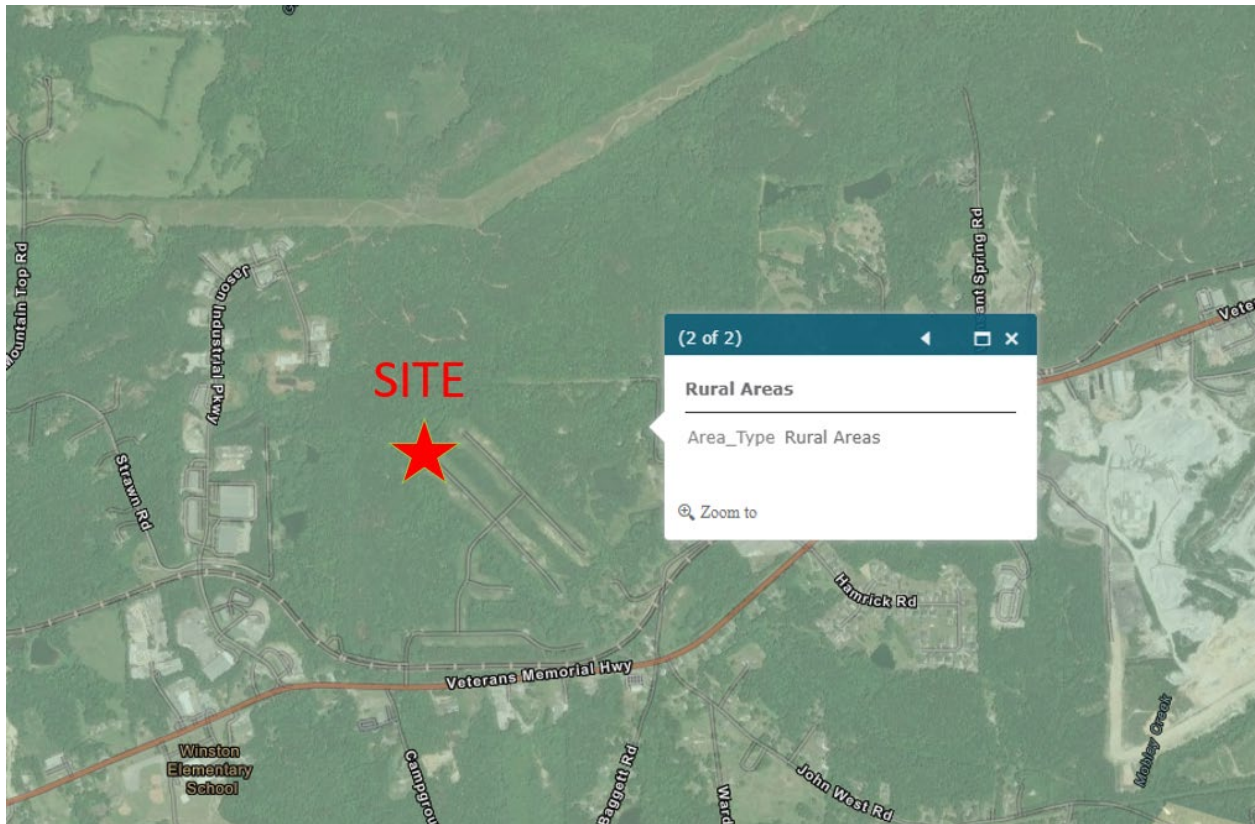
The proposed Data Center development will consist of 9 two-story buildings of 149,300 sf each for a total of 1,343,700 sf and two sub-stations. The property is approximately 274 acres of which 150.3 acres is already zoned Light Industrial, and rezoning is being requested for the rest 123.7 acres. The site is currently zoned as R-A (Residential-Agricultural) and R-LD (Residential-Low Density) and requesting for a rezoning to LI (Light Industrial).

## Land Use and Zoning

| Future Land Use Code | <u>Workplace Center</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | <ul style="list-style-type: none"><li>• Workplace Centers identify suitable locations for current and future intensive commercial, office and technology development along major highway corridors</li><li>• The expectation for businesses located in Workplace Centers is that they are considered to be major employment generators; integrated office parks and similar developments are encouraged</li><li>• Development within Workplace Centers should respond to their designated Character Area and other Master Plans or Small Area Studies that area applicable</li><li>• Landscaping and aesthetics of these areas should be a priority</li><li>• Typically, these areas have access to both public water and sewer and good access to major transportation networks including Interstate 20 and one or more state routes</li></ul> |

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           | <ul style="list-style-type: none"> <li>• Planning for appropriate transportation access and expansion and improving bike/ped and transit connections along these Corridors is a priority</li> </ul> <p><u>Policies and Implementation Strategies:</u></p> <ul style="list-style-type: none"> <li>• <i>Workplace centers should be designed as a coordinated whole and integrated into surrounding character of the center. Office and industrial parks are encouraged.</i></li> <li>• <i>Buildings should be designed to conform to architectural standards and oriented in close proximity to each other to facilitate walking instead of driving.</i></li> <li>• <i>The design of a building that occupies a pad or portion of a building within a planned project or shopping center should share similar design characteristics and design vocabulary. Precise replication is not desirable, instead utilizing similar colors, materials, and textures as well as repeating patterns, rhythms, and proportions found within the architecture of other buildings in the center can be utilized to achieve unity.</i></li> <li>• <i>A transition from low buildings at the site perimeter to larger and taller structures on the interior of the site is encouraged.</i></li> <li>• <i>Use lighting to draw attention to window displays, signs, and store information and buildings architectural details.</i></li> <li>• <i>Signage should be consistent in scale with other signs within the corridor/center, and that complement a building's</i></li> <li>• <i>architecture.</i></li> <li>• <i>Where parking structures have a strong relationship to the street or other pedestrian areas, the lower level of the structure should be activated with pedestrian-related improvements, storefronts, or alternative uses and enhanced landscape treatment to soften the structure. Other sides of parking structures should also be landscaped with increasing intensity the more visible the parking structure is from surrounding uses.</i></li> <li>• <i>Workplace centers should include pedestrian spaces scaled with respect to the size and demands of the particular use. The space should incorporate landscaping, shaded areas, and seating opportunities for customers and employees.</i></li> <li>• <i>Shared parking or providing parking with adjoining development between owners or developers of adjoining properties, is encouraged.</i></li> </ul> |
| <p><b>Land Use Vision and Goals of Douglas County</b></p> | <p>Douglas County's mission is to efficiently deliver superior public service that enriches the quality of life within a thriving, safe, healthy community. This mission is rooted in its core values of integrity, transparency, efficiency, inclusivity, and quality.</p> <p><u>Community Goals</u></p> <ul style="list-style-type: none"> <li>• Public Safety</li> <li>• Infrastructure</li> <li>• Economic Development</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

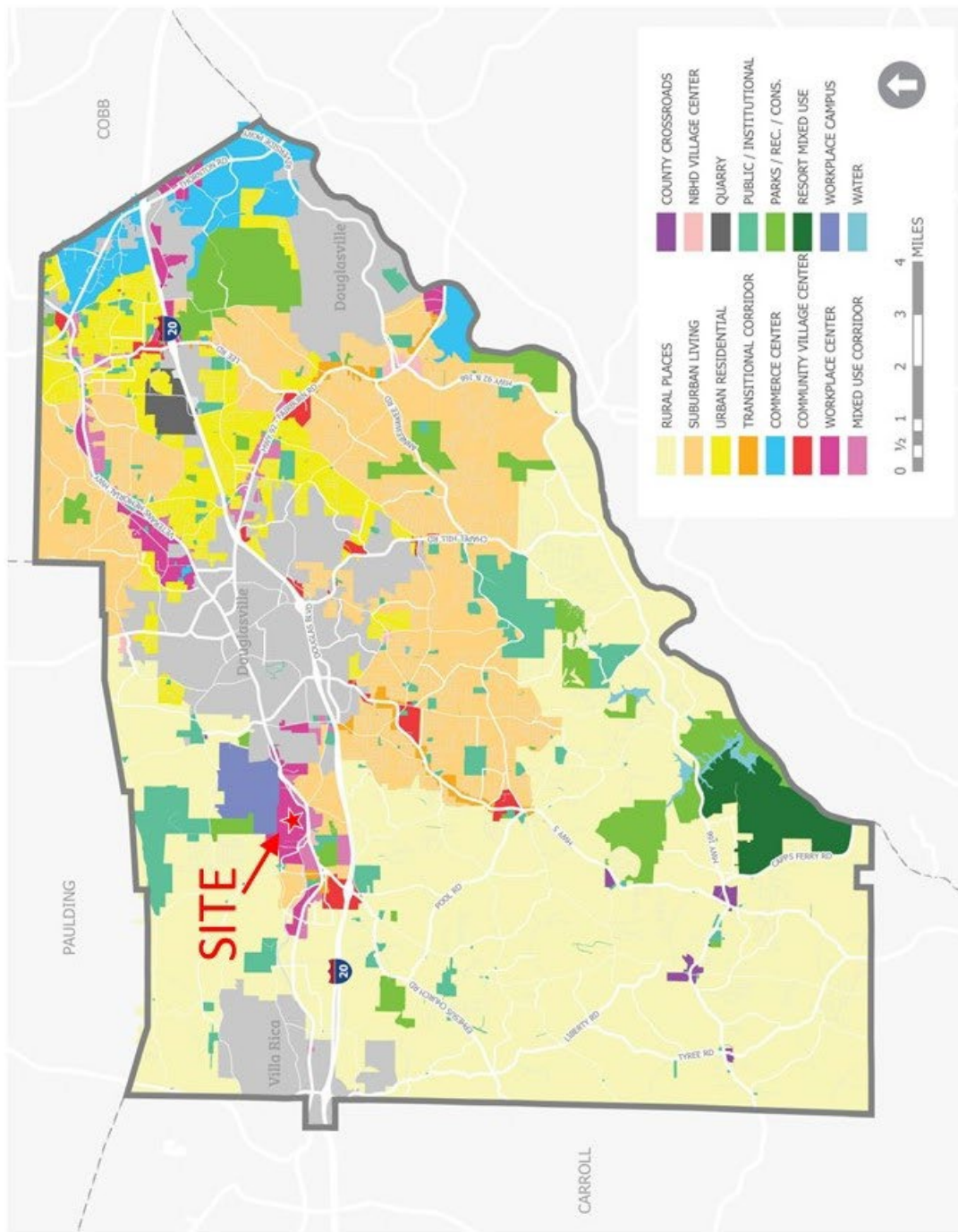
|                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                              | <ul style="list-style-type: none"> <li>• Public Health</li> <li>• Recreation</li> <li>• Transform Douglas</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Character Area</b>                                        | <p><b><u>Workplace Campus</u></b></p> <p>Vision: A high-tech jobs center in a campus-like development, such as data centers</p> <ul style="list-style-type: none"> <li>• Workplace Campus is reserved as a suitable location for intensive office and technology development that is a part of a master planned development</li> <li>• Workplace campus is a major employment generator and targeted toward business-oriented uses</li> <li>• Development of the Workplace Campus shall occur in accordance with a master plan for access to roads, railroads, water, sewer, broadband and other utilities</li> <li>• Uses that will generate increased traffic from heavy trucks, noise, odors or other nuisances are discouraged</li> <li>• Preservation of environmentally sensitive areas as a part of an integrated overall master plan is encouraged</li> <li>• Cohesive architectural standards, extensive landscaping requirements, and substantial buffers against adjacent residential uses are required for development of the Workplace Campus</li> </ul> |
| <b>Relation to Existing Land Use Plans</b>                   | The proposed development is consistent with the goals listed above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Chattahoochee River/Metropolitan River Protection Act</b> | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



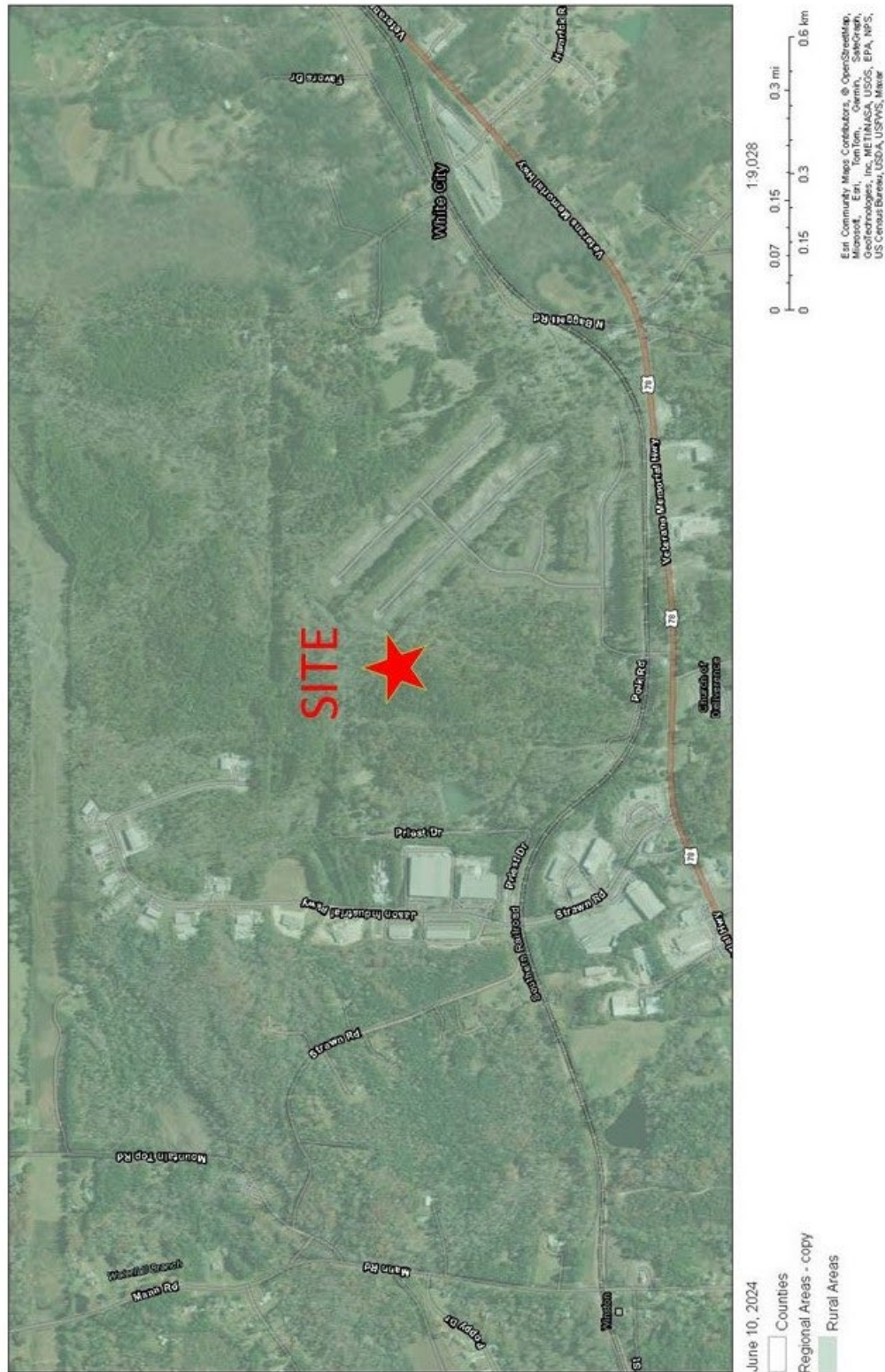


# Douglas County Future Land Use Map

Adopted  
September 19, 2023



## 2021 ARC Unified Growth Policy Map



## Project Phasing

This project has been evaluated for the complete build-out of the development in 2035.

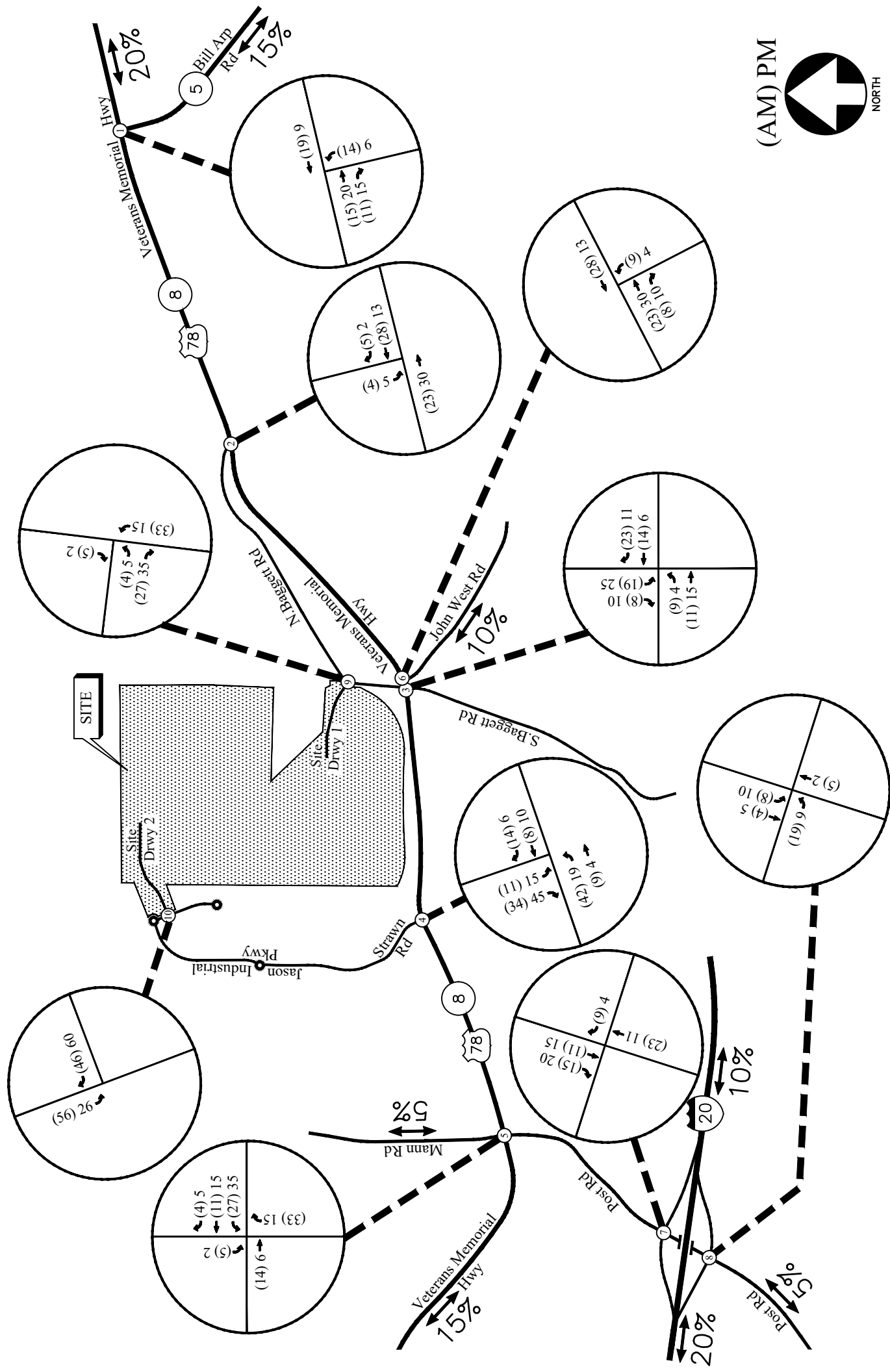
## Trip Generation

Trip generation estimates for the project were based on the rates and equations published in the 11<sup>th</sup> edition of the Institute of Transportation Engineers (ITE) Trip Generation report. This reference contains traffic volume count data collected at similar facilities nationwide. The trip generation was based on the following ITE *Land Use: 160 – Data Center*. The calculated total trip generation for the proposed development is shown in Table 4.

| TABLE 4 – TRIP GENERATION |              |              |      |       |              |      |       |         |
|---------------------------|--------------|--------------|------|-------|--------------|------|-------|---------|
| Land Use                  | Size         | AM Peak Hour |      |       | PM Peak Hour |      |       | 24 Hour |
|                           |              | Enter        | Exit | Total | Enter        | Exit | Total | Two-way |
| ITE 160 – Data Center     | 1,343,700 sf | 93           | 76   | 169   | 43           | 99   | 142   | 1,330   |

## Trip Distribution

The trip distribution describes how traffic arrives and departs from the site. An overall trip distribution was developed for the site based on the nature of the development and the locations of major roadways and highways that will serve the development and a review of the existing travel patterns in the area. The site-generated peak hour traffic volumes, shown in Table 4, were assigned to the study area intersections based on this distribution. The outer-leg distribution and AM and PM peak hour new traffic generated by the site are shown in Figure 5.



TRIP DISTRIBUTION AND SITE-GENERATED WEEKDAY PEAK HOUR VOLUMES

FIGURE 5

A&R Engineering Inc.

## **FUTURE 2035 TRAFFIC ANALYSIS**

The future 2035 traffic operations are analyzed for the “Build” and “No-Build” conditions. This provides a basis of reference for determining both the contribution of the site to overall traffic conditions and the additional improvements needed to provide sufficient site access and capacity for passing traffic.

Improvements that are identified as “System Improvements” address deficiencies that are found within the existing road network prior to any impacts from the proposed development’s added traffic. Improvements that are identified as “Site Mitigation Improvements” address further impacts that are a result of the proposed development’s added traffic. Note that survey and construction drawings would be needed to verify the feasibility and extent of additional right-of-way required for any recommended improvements.

### **Future “No-Build” Conditions**

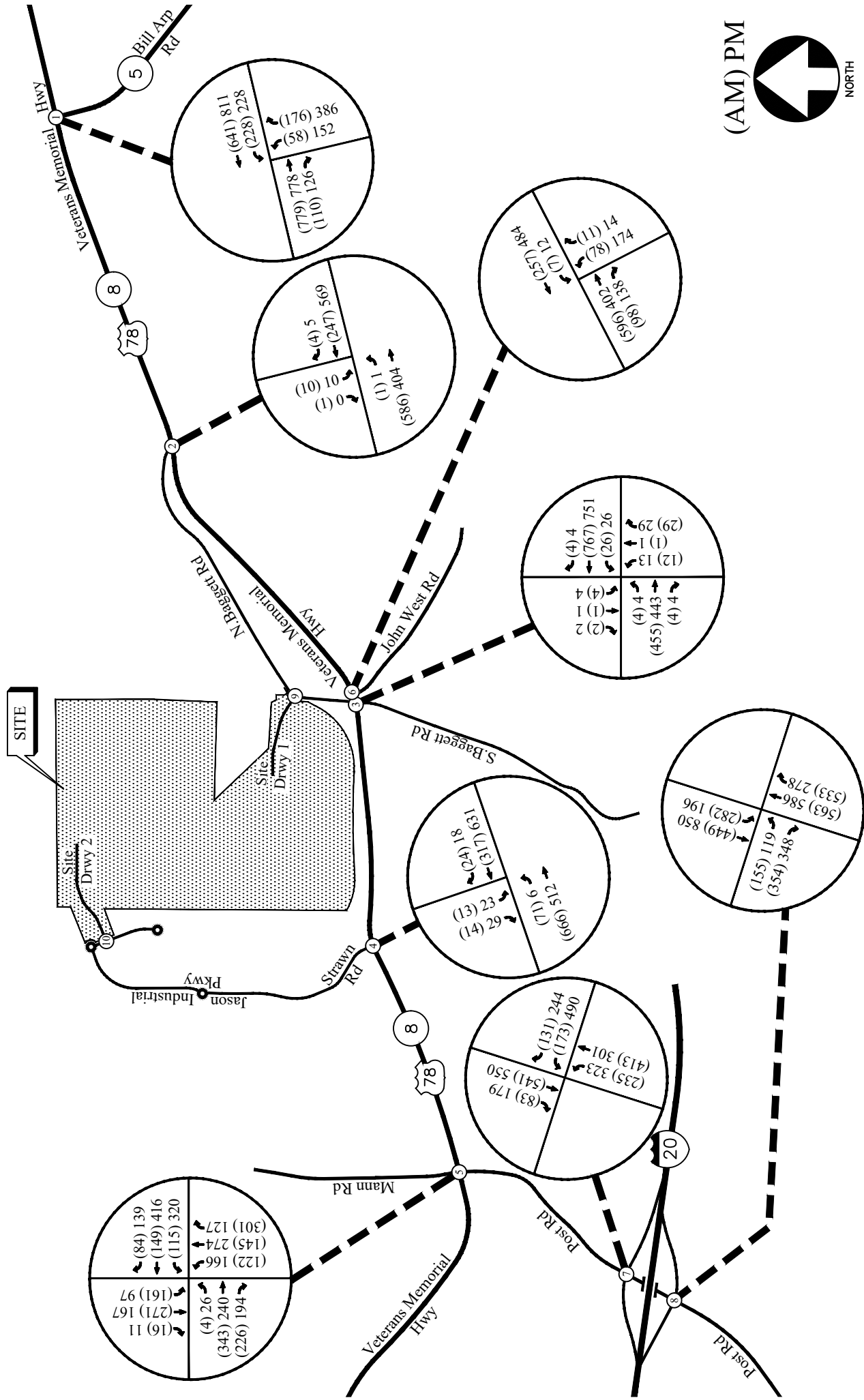
The “No-Build” (or background) conditions provide an assessment of how traffic will operate in the study horizon year without the study site being developed as proposed, with projected increases in through traffic volumes due to normal annual growth. The Future “No-Build” volumes consist of the existing traffic volumes (Figure 2) plus increases for annual growth of traffic.

### **Annual Traffic Growth**

To evaluate future traffic operations in this area, a projection of normal traffic growth was applied to the existing volumes. The Georgia Department of Transportation recorded average daily traffic volumes at several locations in the vicinity of the site. Reviewing the growth over the last five years (2018-2019 & 2021-2023) revealed a traffic volume increase of approximately 2% in the area. This growth factor was applied to the existing traffic volumes to estimate the future year traffic volumes prior to the addition of site-generated traffic. The resulting Future “No-Build” volumes on the roadway are shown in Figure 6.

### **Future “Build” Conditions**

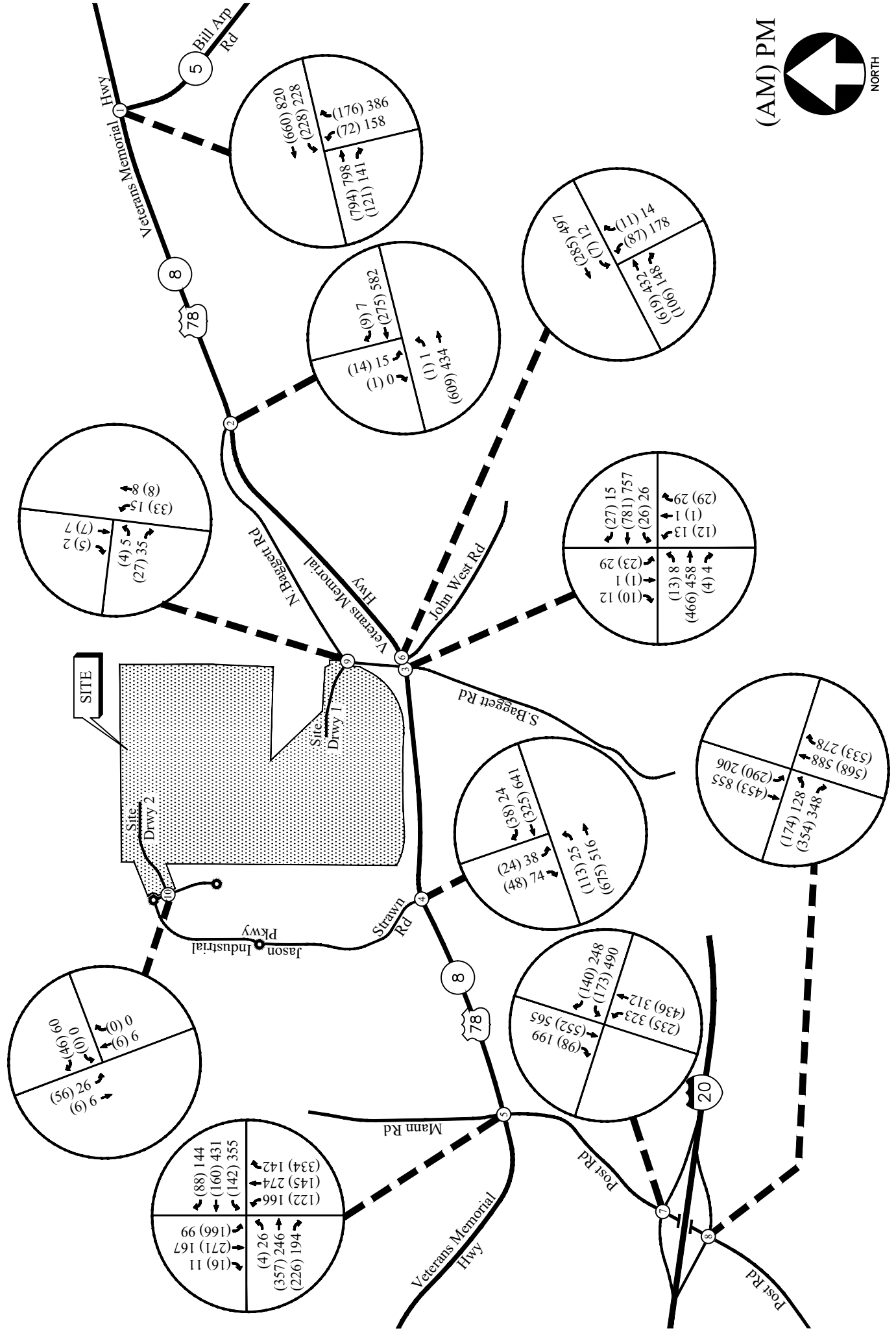
The “Build” or development conditions include the estimated background traffic from the “No-Build” conditions plus the traffic from the proposed development. To evaluate future traffic operations in this area, the additional traffic volumes from the site (Figure 5) were added to base traffic volumes (Figure 6) to calculate the future traffic volumes after the construction of the development. These total future “Build” traffic volumes are shown in Figure 7.



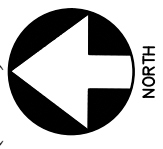
FUTURE (NO-BUILD) WEEKDAY PEAK HOUR VOLUMES

FIGURE 6

A&R Engineering Inc.



(AM) PM



FUTURE (BUILD) WEEKDAY PEAK HOUR VOLUMES

FIGURE 7

A&R Engineering Inc.

## Planned and Programmed Improvements in Study Area

The following improvements have been identified in the Regional Transportation Plan (Plan 2040), GDOT GeoPi, and/or the local comprehensive transportation plan. These improvements are within the vicinity of the proposed development.

**TABLE 5 — PLANNED AND PROGRAMMED IMPROVEMENTS**

| Item # | Project Name                      | From / To Points                                                                                                                                                                                                                      | Sponsor        | GDOT PI # | ARC ID # | Design FY | ROW / UTL FY | CST FY |
|--------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|----------|-----------|--------------|--------|
| 1      | Safety Improvements               | Post Road from I-20 to SR 8/VMH Included in current SPLOST                                                                                                                                                                            | Douglas County | CTP-20    |          | N/A       | N/A          | N/A    |
| 2      | Sidewalk Improvements             | Aspirational projects CTP-81/82 – Planned sidewalk infrastructure updates along US 78 and Post Road and identify ways of integrating streetscape elements that will be unique to Winston (i.e. landscaping, signage, and wayfinding). | Douglas County | CTP-81/82 |          | N/A       | N/A          | N/A    |
| 3      | Post Road @ I-20 Interchange Imp. | Signalizing Post Road @ I-20 EB Ramp & adding right-turn lanes at both ramps.                                                                                                                                                         | Douglas County | -         | -        | Built     | Built        | Built  |

Douglas County Comprehensive Plan states the following short-term project and aspirational project in the study area.

**Short-term (2022-2026):** safety improvements for truck movement on Post Road and an intersection improvement at US 78/Baggett Road (both are current County SPLOST projects)

**Aspirational:** sidewalk improvements on US 78 and Post Road, expansion of Connect Douglas fixed-route transit service along US 78 from Douglasville to Villa Rica

Coordinate with GDOT on planned sidewalk infrastructure updates along US 78 and Post Road (Aspirational projects CTP-81/82) and identify ways of integrating streetscape elements that will be unique to Winston (i.e. landscaping, signage, and wayfinding).

# TRANSPORTATION

**Table 18: Douglas County CTP Tier One Project List**

| Project # | Road Name                   | Improvement Limits                                          | Project Description                                                                  | Status                                                                                                      |
|-----------|-----------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| CTP-14    | Lee Road                    | from SR 92/Fairburn Road to E. County Line Road             | Widening                                                                             | RTP DO-220A - Currently Under Construction                                                                  |
| CTP-15    | Lee Road                    | from E. County Line Road to I-20                            | Widening                                                                             | RTP DO-220A - Currently Under Construction                                                                  |
| CTP-18    | Maxham Road                 | at Thornton Road                                            | Access management/pedestrian improvements/redesign Maxham/Thornton Road intersection | RTP DO-220A - Currently Under Construction                                                                  |
| CTP-20    | Post Road                   | from I-20 to SR 8/VMH                                       | Safety Improvements                                                                  | Included in current SPLOST                                                                                  |
| CTP-22    | Riverside Pkwy              | at Rock House Road                                          | Traffic signal                                                                       | Completed with SPLOST funding                                                                               |
| CTP-36-1  | SR 6/Thornton Road          | from I-20 to SR 6 Spur                                      | Truck Friendly Lanes                                                                 | RTP DO-299 - No Local Funding                                                                               |
| CTP-44    | SR 92/Fairburn Road         | at Riverside Parkway                                        | Intersection Improvements                                                            | Completed with SPLOST funding                                                                               |
| CTP-48    | Stewart Mill Road           | at Reynolds Road                                            | Intersection Improvements                                                            | Included in current SPLOST                                                                                  |
| CTP-49    | Sweetwater Church Road      | at Dorris Road                                              | Intersection Improvements                                                            | Completed with SPLOST funding                                                                               |
| CTP-50    | Chapel Hill Road            | from Central Church Road to Dorset Shoals Road              | Widening                                                                             | Included in current SPLOST                                                                                  |
| CTP-51    | SR 5/Bill Arp Road          | at Concourse Pkwy                                           | Intersection Improvements                                                            | Included in current SPLOST                                                                                  |
| CTP-52    | SR 8/VMH                    | at John West Road/S. Baggett Road                           | Intersection Improvements                                                            | Included in current SPLOST                                                                                  |
| CTP-53    | SR 166/Duncan Memorial Hwy  | at Post Road                                                | Intersection Improvements                                                            | Included in current SPLOST                                                                                  |
| CTP-54    | SR 166/Duncan Memorial Hwy  | at Chapel Hill Road                                         | Intersection Improvements                                                            | Included in current SPLOST                                                                                  |
| CTP-64    | SR 5/Bill Arp Road          | at Banks Mills Road/Pool Road                               | Roundabout                                                                           | State Funded - Safety Improvement (PI#: 0009836, ROW authorization is expected to be complete by Nov. 2023) |
| CTP-73    | Chapel Hill Road            | at Anneewakee Road                                          | Add WBR Turn Lane and Second SBL Turn Lane                                           |                                                                                                             |
| CTP-63    | CHC Regional Greenway Trail | from Boundary of Waters Park to Sweetwater Creek State Park | Trail                                                                                | RTP DO-298 - (2023-2024)                                                                                    |

Douglas County Comprehensive Plan | 121

- Since there are no programmed projects in the study area till the final build-out in 2035.
- Winston Master Plan Planned Transportation Projects – Winston’s transportation goals over the next 30 years will be regular maintenance and upkeep of existing infrastructure and focusing on key growth strategies that will not negatively impact roadway functions. No new roadways are recommended for the area. A few suggested roadways will only be considered in conjunction with new development in the Workplace Campus areas after carefully reviewing to suit new development needs. Douglas County should coordinate closely with the County Transportation Department and GDOT on following planned transportation projects in Winston:
  - Short Term safety improvements at Post Road from I-20 to US 78 (CTP-20)
  - Planned sidewalk updates along us 78 AND Post Road (CTP – 81/82).

## Post Road @ I-20 Interchange Improvement Project:



Douglas County has just completed the project at Post Road at I-20 ramps with following improvements and we have taken those improvements in our analysis:

- Signalizing Post Road at I-20 eastbound ramp
- Adding right turn lanes at both ramps

## Auxiliary Lane Analysis

Included below are analyses for left turn and deceleration lanes for the site driveway on N. Baggett Road per GDOT standards. The analyses below are based off the trip distribution included in the "Trip Distribution" section. According to the estimated trip generation, the 24-hour two-way volume entering and exiting the site is 1,330 vehicles. The AADT on N. Baggett Road is less than 6,000 vehicles based on collected traffic counts.

Since Site Driveway 2 is at the end of Jason Industrial Parkway, no turn lane analysis was completed for Site Driveway 2.

### Left Turn Lane Analysis

For two lane roadways with AADT's less than 6,000 vehicles and a posted speed limit of 35 mph, the daily site generated traffic left-turn movements threshold to warrant a left-turn lane is 300 left-turning vehicles a day. The projected left-turn volumes per day for Site Driveway 1 is included in Table 6.

| TABLE 6 — GDOT REQUIREMENTS FOR LEFT TURN LANES |                                         |                                                                                                 |                                       |                                         |                  |
|-------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|------------------|
| Intersection                                    | Left turn traffic<br>(% total entering) | Left-turn Volume<br>(vehicles/day)                                                              | Roadway<br>Speed/ #<br>lanes /<br>ADT | GDOT<br>Threshold<br>(vehicles/<br>day) | Warrants<br>met? |
| N. Baggett Road @<br>Site Driveway 1            | 35%<br>(Northbound)                     | <b>233</b><br>$(\text{Total Trips}) \div 2 \times 0.35 =$<br>$(1,330) \div 2 \times 0.35 = 233$ | 35 mph /<br>2-Lane /<br>< 6,000       | 300                                     | No               |

A left turn lane is not warranted at Site Driveway 1 on N. Baggett Road as per GDOT standards.

### Deceleration Turn Lane Analysis

For two lane roadways with AADT's less than 6,000 vehicles and a posted speed limit of 35 mph, the daily site generated traffic right-turn movements threshold to warrant a deceleration lane is 200 right turning vehicles a day. The projected right-turn volumes per day for Site Driveway 1 is included in Table 7.

| TABLE 7 — GDOT REQUIREMENTS FOR DECELERATION LANES |                                          |                                                                                               |                                    |                                     |                  |
|----------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|------------------|
| Intersection                                       | Right-turn traffic<br>(% total entering) | Right-turn Volume<br>(vehicles/day)                                                           | Roadway<br>Speed/ #<br>lanes / ADT | GDOT<br>Threshold<br>(vehicles/day) | Warrants<br>met? |
| N. Baggett Road @<br>Site Driveway 1               | 5%<br>(Southbound)                       | <b>33</b><br>$(\text{Total Trips}) \div 2 \times 0.05 =$<br>$(1,330) \div 2 \times 0.05 = 33$ | 35 mph /<br>2-Lane /<br>< 6,000    | 200                                 | No               |

A deceleration lane is not warranted at Site Driveway 1 on N. Baggett Road per GDOT standards.

## Future Traffic Operations

The future “No-Build” and “Build” traffic operations were analyzed using the volumes in Figures 6 and 7, respectively. The results of the future traffic operations analysis are shown in Tables 8A and 8B.

**TABLE 8A — FUTURE INTERSECTION OPERATIONS (2035)**

|    | Intersection                                                                                                                                                         | LOS (Delay)                                                            |                                                                        |                                                                        |                                                                        |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|
|    |                                                                                                                                                                      | NO-BUILD                                                               |                                                                        | BUILD                                                                  |                                                                        |
|    |                                                                                                                                                                      | AM Peak                                                                | PM Peak                                                                | AM Peak                                                                | PM Peak                                                                |
| 1  | <b><u>SR 8 (Veterans Memorial Hwy) @ SR 5 (Bill Arp Road)</u></b><br>-Eastbound Approach<br>-Westbound Approach<br>-Northbound Approach                              | <b><u>A (9.7)</u></b><br>B (12.1)<br>A (5.5)<br>D (39.0)               | <b><u>B (15.3)</u></b><br>B (17.5)<br>A (9.7)<br>D (42.4)              | <b><u>B (10.4)</u></b><br>B (12.5)<br>A (5.8)<br>D (43.6)              | <b><u>B (16.3)</u></b><br>B (18.2)<br>B (10.5)<br>D (44.4)             |
| 2  | <b><u>SR 8 (Veterans Memorial Hwy) @ N. Baggett Road (east end)</u></b><br>-Eastbound Left<br>-Southbound Approach                                                   | A (7.8)<br>B (13.8)                                                    | A (8.6)<br>C (16.6)                                                    | A (7.9)<br>B (14.7)                                                    | A (8.7)<br>C (17.4)                                                    |
| 3  | <b><u>SR 8 (Veterans Memorial Hwy) @ N. Baggett Road / S. Baggett Road</u></b><br>-Eastbound Left<br>-Westbound Left<br>-Northbound Approach<br>-Southbound Approach | A (9.5)<br>A (8.5)<br>C (22.6)<br>D (33.7)                             | A (9.5)<br>A (8.4)<br>C (22.9)<br>D (32.9)                             | A (9.8)<br>A (8.5)<br>C (24.8)<br>E (48.0)                             | A (9.6)<br>A (8.5)<br>C (24.5)<br>E (49.5)                             |
| 4  | <b><u>SR 8 (Veterans Memorial Hwy) @ Strawn Road</u></b><br>-Eastbound Left<br>-Southbound Approach                                                                  | A (8.2)<br>C (15.7)                                                    | A (9.1)<br>C (16.3)                                                    | A (8.3)<br>C (15.2)                                                    | A (9.3)<br>C (16.4)                                                    |
| 5  | <b><u>SR 8 (Veterans Memorial Hwy) @ Post Road/Mann Road</u></b><br>-Eastbound Approach<br>-Westbound Approach<br>-Northbound Approach<br>-Southbound Approach       | <b><u>C (32.9)</u></b><br>B (18.0)<br>B (12.6)<br>D (44.1)<br>D (50.3) | <b><u>C (31.0)</u></b><br>C (21.5)<br>B (16.1)<br>D (53.0)<br>D (45.6) | <b><u>C (32.9)</u></b><br>B (18.8)<br>B (12.8)<br>D (44.2)<br>D (51.5) | <b><u>C (31.1)</u></b><br>C (23.0)<br>B (16.6)<br>D (53.5)<br>D (45.4) |
| 6  | <b><u>SR 8 (Veterans Memorial Hwy) @ John West Road</u></b><br>-Westbound Left<br>-Northbound Approach                                                               | A (9.2)<br>C (24.6)                                                    | A (8.7)<br>F (62.6)                                                    | A (9.4)<br>D (28.7)                                                    | A (8.8)<br>F (81.3)                                                    |
| 7  | <b><u>Post Road @ I-20 Westbound Ramps</u></b><br>-Westbound Approach<br>-Northbound Approach<br>-Southbound Approach                                                | <b><u>B (14.5)</u></b><br>D (53.5)<br>A (6.0)<br>B (12.1)              | <b><u>C (32.6)</u></b><br>D (54.5)<br>B (17.9)<br>C (29.8)             | <b><u>B (14.5)</u></b><br>D (53.5)<br>A (6.1)<br>B (12.3)              | <b><u>C (33.0)</u></b><br>D (54.5)<br>B (18.5)<br>C (30.5)             |
| 8  | <b><u>Post Road @ I-20 Eastbound Ramps</u></b><br>-Eastbound Approach<br>-Northbound Approach<br>-Southbound Approach                                                | <b><u>B (11.5)</u></b><br>D (51.6)<br>B (11.5)<br>A (3.0)              | <b><u>A (7.5)</u></b><br>D (53.6)<br>A (8.7)<br>A (1.6)                | <b><u>B (12.6)</u></b><br>D (51.6)<br>B (12.7)<br>A (3.3)              | <b><u>A (7.8)</u></b><br>D (53.0)<br>A (9.2)<br>A (1.6)                |
| 9  | <b><u>N. Baggett Road @ Site Driveway 1</u></b><br>-Eastbound Approach<br>-Northbound Left                                                                           | -<br>-                                                                 | -<br>-                                                                 | A (8.5)<br>A (7.3)                                                     | A (8.5)<br>A (7.2)                                                     |
| 10 | <b><u>Jason Industrial Parkway @ Site Driveway 2</u></b><br>-Westbound Approach<br>-Southbound Left                                                                  | -<br>-                                                                 | -<br>-                                                                 | A (8.5)<br>A (7.3)                                                     | A (8.6)<br>A (7.3)                                                     |

| TABLE 8B — FUTURE INTERSECTION 95 <sup>TH</sup> PERCENTILE QUEUES (2035) |                                                                                                 |                   |                      |         |         |         |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------|----------------------|---------|---------|---------|
| Intersection                                                             |                                                                                                 | Available Storage | Queue Length in feet |         |         |         |
|                                                                          |                                                                                                 |                   | NO-BUILD             |         | BUILD   |         |
|                                                                          |                                                                                                 |                   | AM Peak              | PM Peak | AM Peak | PM Peak |
| Synchro Queues                                                           |                                                                                                 |                   |                      |         |         |         |
| 3                                                                        | <u>SR 8 (Veterans Memorial Hwy) @ N. Baggett Road / S. Baggett Road</u><br>-Southbound Approach | (590')            | 5'                   | 5'      | 30'     | 40'     |
| 9                                                                        | <u>N. Baggett Road @ Site Driveway 1</u><br>-Northbound Approach                                | (125')            | -                    | -       | 3'      | 0       |
| SimTraffic Queues                                                        |                                                                                                 |                   |                      |         |         |         |
| 3                                                                        | <u>SR 8 (Veterans Memorial Hwy) @ N. Baggett Road / S. Baggett Road</u><br>-Southbound Approach | (590')            | 13'                  | 13'     | 68'     | 45'     |
| 9                                                                        | <u>N. Baggett Road @ Site Driveway 1</u><br>-Northbound Approach                                | (125')            | -                    | -       | 0       | 0       |

The results of future “No-Build 2035” traffic operations show that all the study intersections will operate at a level of service “D” or better in both the AM and PM peak hours except the unsignalized intersection of SR 8 (Veterans Memorial Highway) at John West Road where the northbound (John West Road) approach will operate at LOS “F” in the PM peak hour.

The results of future “Build 2035” traffic operations show that the stop-controlled northbound approach of John West Road at Veterans Memorial will continue to operate at LOS “F”, as in “No-Build 2035” conditions in the PM peak hour.

Further, the northbound and southbound stop-controlled approaches of S. Baggett Road and N. Baggett Road at Veterans Memorial Highway will also operate at LOS “E” in AM and PM peak hour after the addition of site generated traffic and the annual growth in traffic by 2035. The projected 2035 low traffic volumes do not warrant installation of a traffic signal at the study intersection and no geometric improvements seem to aid improve the modest delays expected to be experienced in 2035. It is not uncommon for stop-controlled side-streets on arterial roadways to experience delays during peak hours as delays are caused by side-street wait times to turn left onto the main line.

The 95<sup>th</sup> percentile queue lengths analysis in both Synchro and SimTraffic show that the southbound queue on N. Baggett Road at SR 8 (Veterans Memorial Highway) and the northbound queue on N. Baggett Road at Site Driveway 1 will be less than three car lengths in both the AM and PM peak hours in future conditions and will not back up till the existing railroad line.

## Recommendations for System Improvements

### SR 8 (Veterans Memorial Highway) at John West Road

A preliminary analysis of traffic volumes indicates that the projected left-turn volumes on John West Road in “No-Build” conditions in 2035 may warrant installation of a traffic signal at its intersection with SR 8/US 78 (Veterans Memorial Highway). We recommend that a detailed signal warrant analysis be completed in 2035, and a traffic signal be installed at that time, if warranted and approved by GDOT. Results of the traffic operations at the intersection after recommendation for system improvement of installing a traffic signal is implemented are given below in Table 9.

| TABLE 9 — FUTURE IMPROVED OPERATIONS (2035) WITH TRAFFIC SIGNAL |                                                      |                |                |                |                |
|-----------------------------------------------------------------|------------------------------------------------------|----------------|----------------|----------------|----------------|
| Intersection                                                    |                                                      | LOS (Delay)    |                |                |                |
|                                                                 |                                                      | NO-BUILD       |                | BUILD          |                |
|                                                                 |                                                      | AM Peak        | PM Peak        | AM Peak        | PM Peak        |
| 6                                                               | <u>SR 8 (Veterans Memorial Hwy) @ John West Road</u> | <b>A (7.5)</b> | <b>A (8.6)</b> | <b>A (7.6)</b> | <b>A (8.8)</b> |
|                                                                 | -Eastbound Left                                      | A (7.6)        | A (8.2)        | A (7.6)        | A (8.4)        |
|                                                                 | -Westbound Left                                      | A (4.4)        | A (6.8)        | A (4.3)        | A (6.7)        |
|                                                                 | -Northbound Approach                                 | B (15.4)       | B (14.1)       | B (16.6)       | B (15.1)       |

If a traffic signal is installed once warranted and approved, the intersection will operate at satisfactory level-of-service “A” in both AM and PM peak hours.

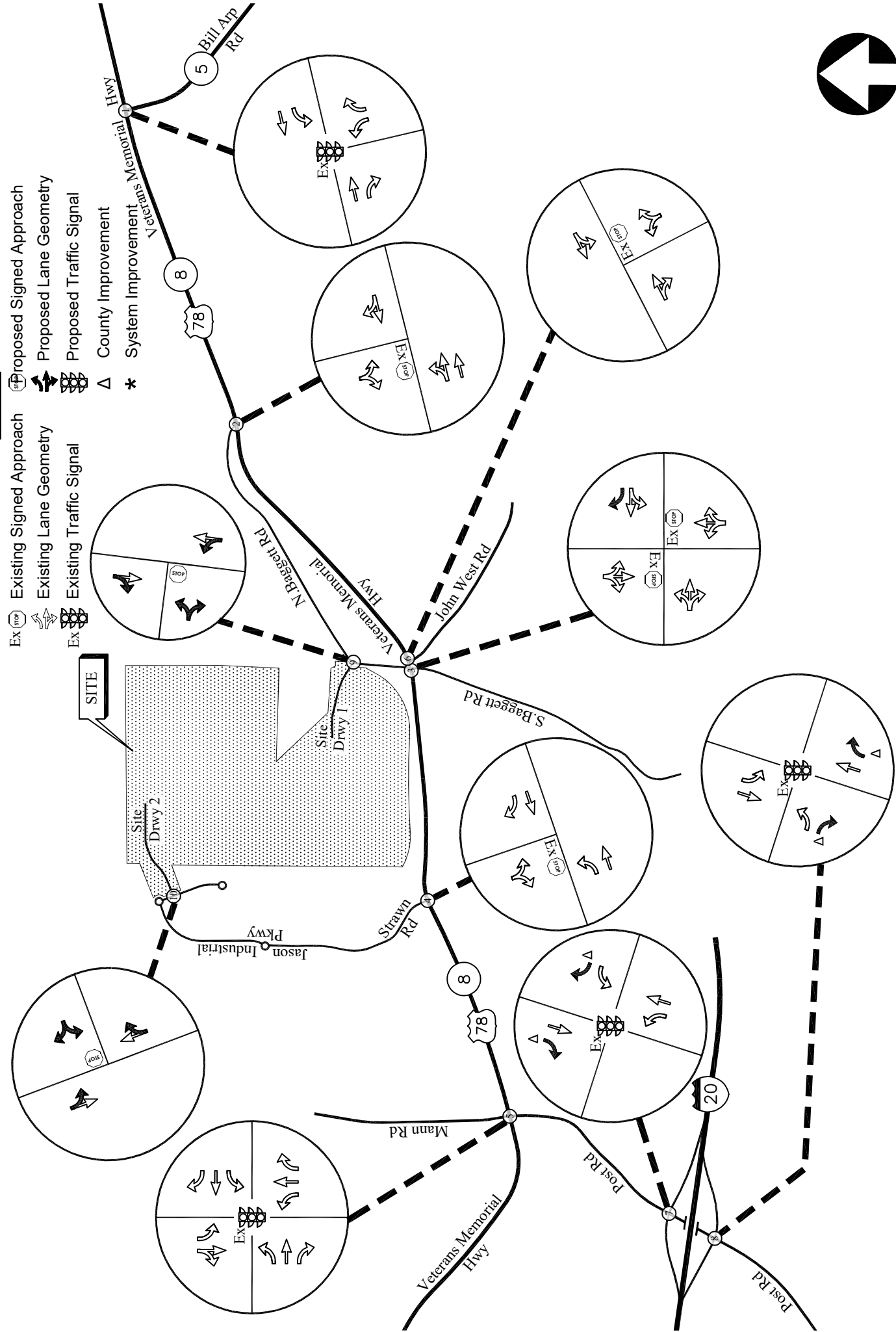
## Recommendations for Site Improvements

- SR 8 (Veterans Memorial Hwy) @ N. Baggett Road / S. Baggett Road
  - Construct a westbound right-turn lane on Veterans Memorial Highway
  - Verify adequate sight distance per AASHTO standards is available.

Recommendations for future traffic control and lane geometry are shown in Figure 8.

LEGEND

- Ex (stop) Existing Signed Approach
- Existing Lane Geometry
- Existing Traffic Signal
- Proposed Signed Approach
- Proposed Lane Geometry
- Proposed Traffic Signal
- County Improvement
- System Improvement



FUTURE TRAFFIC CONTROL AND LANE GEOMETRY

FIGURE 8

A&R Engineering Inc.

## CONCLUSIONS AND RECOMMENDATIONS

Traffic impacts were evaluated for the proposed 1,343,700 sf Stream Data Center development that will be located at the end of Jason Industrial Parkway, north of SR 8/US 78 (Veterans Memorial Highway) in Douglas County, Georgia.

The development proposes access at the following locations:

- Site Driveway 1: Full access driveway on N. Baggett Road, for cars only
- Site Driveway 2: Full access driveway on Jason Industrial Parkway, for both cars and trucks

Existing and future operations during the AM peak hour (7:00 AM – 9:00 AM) and PM peak hour (4:00 PM – 6:00 PM) before and after completion of the project were analyzed at the following intersections:

1. SR 8/US 78 (Veterans Memorial Highway) @ SR 5 (Bill Arp Road)
2. SR 8/US 78 (Veterans Memorial Highway) @ N. Baggett Road (east end)
3. SR 8/US 78 (Veterans Memorial Highway) @ N. Baggett Road / S. Baggett Road
4. SR 8/US 78 (Veterans Memorial Highway) @ Strawn Road
5. SR 8/US 78 (Veterans Memorial Highway) @ Post Road / Mann Road
6. SR 8/US 78 (Veterans Memorial Highway) @ John West Road
7. Post Road @ I-20 Westbound Ramps
8. Post Road @ I-20 Eastbound Ramps
9. N. Baggett Road @ Proposed Site Driveway 1
10. Jason Industrial Parkway @ Proposed Site Driveway 2

The analysis included the evaluation of Future operations for “No-Build” and “Build” conditions, both of which account for increases in annual growth of through traffic.

The results of future “No-Build 2035” traffic operations show that all the study intersections will operate at a level of service “D” or better in both the AM and PM peak hours except the unsignalized intersection of SR 8 (Veterans Memorial Highway) at John West Road where the northbound (John West Road) approach will operate at LOS “F” in the PM peak hour.

The results of future “Build 2035” traffic operations show that the stop-controlled northbound approach of John West Road at Veterans Memorial will continue to operate at LOS “F”, as in “No-Build 2035” conditions in the PM peak hour.

Further, the northbound and southbound stop-controlled approaches of S. Baggett Road and N. Baggett Road at Veterans Memorial Highway will also operate at LOS “E” in AM and PM peak hour after the addition of site generated traffic and the annual growth in traffic by 2035. The projected 2035 low traffic volumes do not warrant installation of a traffic signal at the study intersection and no geometric improvements seem to aid improve the modest delays expected to be experienced in 2035. It is not uncommon for stop-controlled side-streets on arterial roadways to experience delays during peak hours as delays are caused by side-street wait times to turn left onto the main line.

The 95<sup>th</sup> percentile queue lengths analysis in both Synchro and SimTraffic show that the southbound queue on N. Baggett Road at SR 8 (Veterans Memorial Highway) and the northbound queue on N. Baggett Road at Site Driveway 1 will be less than three car lengths in both the AM and PM peak hours in future conditions and will not back up till the existing railroad line.

## **Recommendations for System Improvements**

### **SR 8 (Veterans Memorial Highway) at John West Road**

A preliminary analysis of traffic of traffic volumes indicates that the projected left-turn volumes on John West Road in “No-build” conditions in 2035 may warrant installation of a traffic signal at its intersection with SR 8/US78 (Veterans Memorial Highway). We recommend that a detailed signal warrant analysis be completed in 2035, and a traffic signal be installed at that time, if warranted and approved by GDOT.

## **Recommendations for Site Improvements**

- **SR 8 (Veterans Memorial Hwy) @ N. Baggett Road / S. Baggett Road**
  - Construct a westbound right-turn lane on Veterans Memorial Highway
  - Verify adequate sight distance per AASHTO standards is available.

## **Recommendation for Site Access Configuration**

The following access configuration is recommended for the proposed site driveway intersections:

- **Site Driveway 1: Full access driveway on N. Baggett Road, for cars only**
  - One entering and one exiting lanes.
  - Stop-sign controlled on the driveway approach with N. Baggett Road remaining free flow.
  - Provide adequate sight distance per AASHTO standards.
- **Site Driveway 2: Full access driveway on Jason Industrial Parkway, for both cars and trucks**
  - One entering and one exiting lanes.
  - Stop-sign controlled on the driveway approach with Jason Industrial Parkway remaining free flow.
  - Provide larger radius return for trucks.

## Appendix

|                                                                 |  |
|-----------------------------------------------------------------|--|
| Existing Intersection Traffic Counts .....                      |  |
| GRTA Letter of Understanding.....                               |  |
| Linear Regression of Daily Traffic.....                         |  |
| Fact Sheets for Planned and Programmed Improvements.....        |  |
| Existing Intersection Analysis.....                             |  |
| Future “No-Build” Intersection Analysis .....                   |  |
| Future “No-Build” Intersection Analysis with Improvements ..... |  |
| Future “Build” Intersections Analysis .....                     |  |
| Future “Build” Intersections Analysis with Improvements.....    |  |
| Traffic Volume Worksheets .....                                 |  |

## **Existing Intersection Traffic Counts**

# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
SR 8 - US 78 (Veterans Memorial Hwy) @  
S. Baggett & N. Baggett Road  
7-9am | 4-6pm

File Name : 20250037  
Site Code : 20250037  
Start Date : 02-06-2025  
Page No : 1

## Groups Printed- Cars & Buses - Trucks

|                | S. Baggett Road<br>Northbound |      |       |            | N. Baggett Road<br>Southbound |      |       |            | SR 8 - US 78 (Veterans<br>Memorial Hwy)<br>Eastbound |      |       |            | SR 8 - US 78 (Veterans<br>Memorial Hwy)<br>Westbound |      |       |            |            |
|----------------|-------------------------------|------|-------|------------|-------------------------------|------|-------|------------|------------------------------------------------------|------|-------|------------|------------------------------------------------------|------|-------|------------|------------|
| Start Time     | Left                          | Thru | Right | App. Total | Left                          | Thru | Right | App. Total | Left                                                 | Thru | Right | App. Total | Left                                                 | Thru | Right | App. Total | Int. Total |
| 07:00 AM       | 2                             | 0    | 4     | 6          | 0                             | 0    | 1     | 1          | 1                                                    | 95   | 2     | 98         | 6                                                    | 121  | 0     | 127        | 232        |
| 07:15 AM       | 2                             | 0    | 4     | 6          | 2                             | 0    | 1     | 3          | 0                                                    | 78   | 1     | 79         | 6                                                    | 137  | 1     | 144        | 232        |
| 07:30 AM       | 2                             | 0    | 17    | 19         | 2                             | 0    | 1     | 3          | 2                                                    | 99   | 3     | 104        | 4                                                    | 114  | 0     | 118        | 244        |
| 07:45 AM       | 1                             | 1    | 3     | 5          | 2                             | 0    | 1     | 3          | 1                                                    | 94   | 1     | 96         | 5                                                    | 148  | 1     | 154        | 258        |
| Total          | 7                             | 1    | 28    | 36         | 6                             | 0    | 4     | 10         | 4                                                    | 366  | 7     | 377        | 21                                                   | 520  | 2     | 543        | 966        |
| 08:00 AM       | 5                             | 0    | 7     | 12         | 0                             | 1    | 1     | 2          | 1                                                    | 80   | 1     | 82         | 7                                                    | 145  | 0     | 152        | 248        |
| 08:15 AM       | 3                             | 0    | 7     | 10         | 1                             | 0    | 0     | 1          | 0                                                    | 112  | 0     | 112        | 5                                                    | 171  | 1     | 177        | 300        |
| 08:30 AM       | 1                             | 0    | 7     | 8          | 0                             | 0    | 0     | 0          | 1                                                    | 93   | 1     | 95         | 5                                                    | 175  | 1     | 181        | 284        |
| 08:45 AM       | 2                             | 0    | 3     | 5          | 0                             | 0    | 0     | 0          | 1                                                    | 84   | 0     | 85         | 3                                                    | 144  | 1     | 148        | 238        |
| Total          | 11                            | 0    | 24    | 35         | 1                             | 1    | 1     | 3          | 3                                                    | 369  | 2     | 374        | 20                                                   | 635  | 3     | 658        | 1070       |
| *** BREAK ***  |                               |      |       |            |                               |      |       |            |                                                      |      |       |            |                                                      |      |       |            |            |
| 04:00 PM       | 2                             | 0    | 4     | 6          | 0                             | 0    | 1     | 1          | 0                                                    | 97   | 2     | 99         | 6                                                    | 120  | 0     | 126        | 232        |
| 04:15 PM       | 2                             | 0    | 3     | 5          | 2                             | 0    | 1     | 3          | 0                                                    | 79   | 1     | 80         | 6                                                    | 133  | 1     | 140        | 228        |
| 04:30 PM       | 2                             | 0    | 17    | 19         | 2                             | 0    | 1     | 3          | 3                                                    | 99   | 3     | 105        | 4                                                    | 111  | 0     | 115        | 242        |
| 04:45 PM       | 2                             | 1    | 3     | 6          | 2                             | 0    | 1     | 3          | 1                                                    | 91   | 1     | 93         | 5                                                    | 145  | 1     | 151        | 253        |
| Total          | 8                             | 1    | 27    | 36         | 6                             | 0    | 4     | 10         | 4                                                    | 366  | 7     | 377        | 21                                                   | 509  | 2     | 532        | 955        |
| 05:00 PM       | 5                             | 0    | 7     | 12         | 0                             | 1    | 1     | 2          | 1                                                    | 79   | 1     | 81         | 7                                                    | 144  | 0     | 151        | 246        |
| 05:15 PM       | 3                             | 0    | 7     | 10         | 1                             | 0    | 0     | 1          | 0                                                    | 112  | 0     | 112        | 5                                                    | 167  | 1     | 173        | 296        |
| 05:30 PM       | 1                             | 0    | 7     | 8          | 0                             | 0    | 0     | 0          | 1                                                    | 87   | 1     | 89         | 5                                                    | 170  | 1     | 176        | 273        |
| 05:45 PM       | 2                             | 0    | 3     | 5          | 0                             | 0    | 0     | 0          | 1                                                    | 83   | 0     | 84         | 5                                                    | 140  | 0     | 145        | 234        |
| Total          | 11                            | 0    | 24    | 35         | 1                             | 1    | 1     | 3          | 3                                                    | 361  | 2     | 366        | 22                                                   | 621  | 2     | 645        | 1049       |
| Grand Total    | 37                            | 2    | 103   | 142        | 14                            | 2    | 10    | 26         | 14                                                   | 1462 | 18    | 1494       | 84                                                   | 2285 | 9     | 2378       | 4040       |
| Apprch %       | 26.1                          | 1.4  | 72.5  |            | 53.8                          | 7.7  | 38.5  |            | 0.9                                                  | 97.9 | 1.2   |            | 3.5                                                  | 96.1 | 0.4   |            |            |
| Total %        | 0.9                           | 0    | 2.5   | 3.5        | 0.3                           | 0    | 0.2   | 0.6        | 0.3                                                  | 36.2 | 0.4   | 37         | 2.1                                                  | 56.6 | 0.2   | 58.9       |            |
| Cars & Buses   | 37                            | 2    | 102   | 141        | 14                            | 2    | 10    | 26         | 14                                                   | 1383 | 18    | 1415       | 84                                                   | 2239 | 8     | 2331       | 3913       |
| % Cars & Buses | 100                           | 100  | 99    | 99.3       | 100                           | 100  | 100   | 100        | 100                                                  | 94.6 | 100   | 94.7       | 100                                                  | 98   | 88.9  | 98         | 96.9       |
| Trucks         | 0                             | 0    | 1     | 1          | 0                             | 0    | 0     | 0          | 0                                                    | 79   | 0     | 79         | 0                                                    | 46   | 1     | 47         | 127        |
| % Trucks       | 0                             | 0    | 1     | 0.7        | 0                             | 0    | 0     | 0          | 0                                                    | 5.4  | 0     | 5.3        | 0                                                    | 2    | 11.1  | 2          | 3.1        |

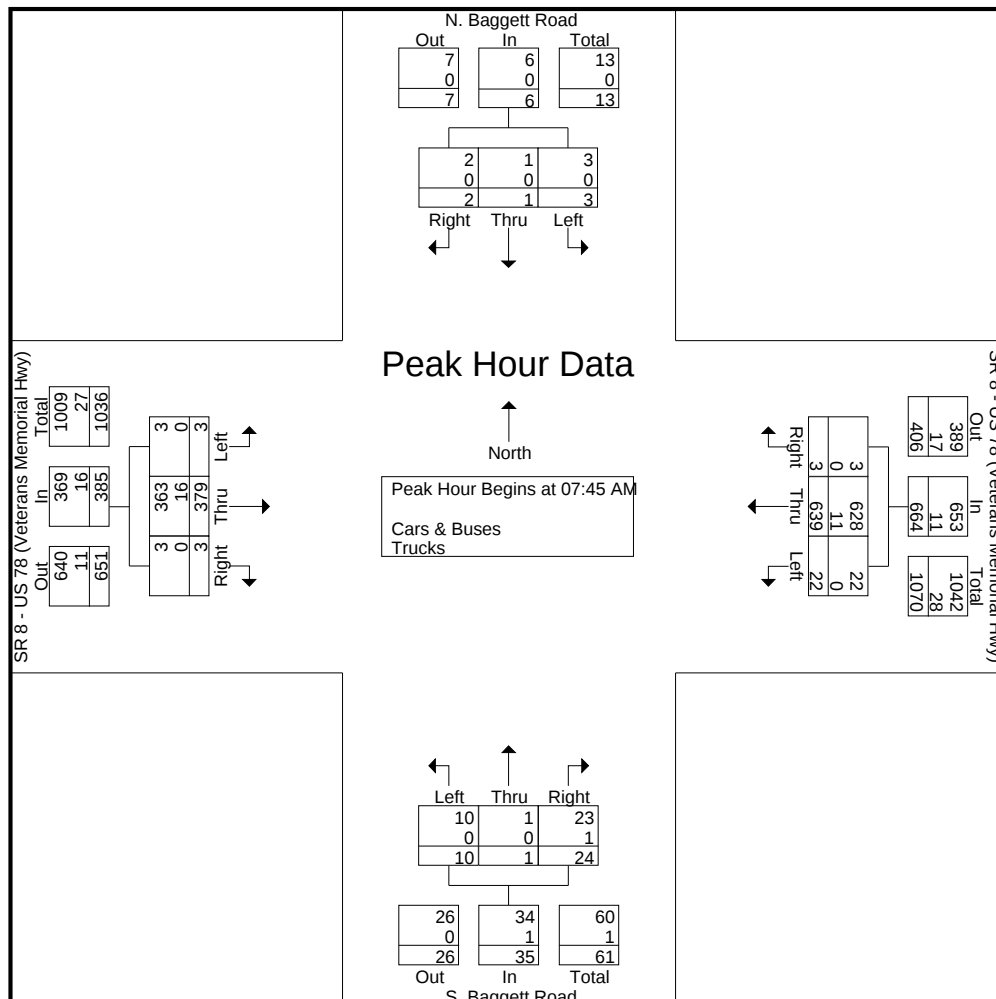
# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
SR 8 - US 78 (Veterans Memorial Hwy) @  
S. Baggett & N. Baggett Road  
7-9am | 4-6pm

File Name : 20250037  
Site Code : 20250037  
Start Date : 02-06-2025  
Page No : 2

|                                                            | S. Baggett Road Northbound |      |       |            | N. Baggett Road Southbound |      |       |            | SR 8 - US 78 (Veterans Memorial Hwy) Eastbound |      |       |            | SR 8 - US 78 (Veterans Memorial Hwy) Westbound |      |       |            |            |
|------------------------------------------------------------|----------------------------|------|-------|------------|----------------------------|------|-------|------------|------------------------------------------------|------|-------|------------|------------------------------------------------|------|-------|------------|------------|
| Start Time                                                 | Left                       | Thru | Right | App. Total | Left                       | Thru | Right | App. Total | Left                                           | Thru | Right | App. Total | Left                                           | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 |                            |      |       |            |                            |      |       |            |                                                |      |       |            |                                                |      |       |            |            |
| Peak Hour for Entire Intersection Begins at 07:45 AM       |                            |      |       |            |                            |      |       |            |                                                |      |       |            |                                                |      |       |            |            |
| 07:45 AM                                                   | 1                          | 1    | 3     | 5          | 2                          | 0    | 1     | 3          | 1                                              | 94   | 1     | 96         | 5                                              | 148  | 1     | 154        | 258        |
| 08:00 AM                                                   | 5                          | 0    | 7     | 12         | 0                          | 1    | 1     | 2          | 1                                              | 80   | 1     | 82         | 7                                              | 145  | 0     | 152        | 248        |
| 08:15 AM                                                   | 3                          | 0    | 7     | 10         | 1                          | 0    | 0     | 1          | 0                                              | 112  | 0     | 112        | 5                                              | 171  | 1     | 177        | 300        |
| 08:30 AM                                                   | 1                          | 0    | 7     | 8          | 0                          | 0    | 0     | 0          | 1                                              | 93   | 1     | 95         | 5                                              | 175  | 1     | 181        | 284        |
| Total Volume                                               | 10                         | 1    | 24    | 35         | 3                          | 1    | 2     | 6          | 3                                              | 379  | 3     | 385        | 22                                             | 639  | 3     | 664        | 1090       |
| % App. Total                                               | 28.6                       | 2.9  | 68.6  |            | 50                         | 16.7 | 33.3  |            | 0.8                                            | 98.4 | 0.8   |            | 3.3                                            | 96.2 | 0.5   |            |            |
| PHF                                                        | .500                       | .250 | .857  | .729       | .375                       | .250 | .500  | .500       | .750                                           | .846 | .750  | .859       | .786                                           | .913 | .750  | .917       | .908       |
| Cars & Buses                                               | 10                         | 1    | 23    | 34         | 3                          | 1    | 2     | 6          | 3                                              | 363  | 3     | 369        | 22                                             | 628  | 3     | 653        | 1062       |
| % Cars & Buses                                             | 100                        | 100  | 95.8  | 97.1       | 100                        | 100  | 100   | 100        | 100                                            | 95.8 | 100   | 95.8       | 100                                            | 98.3 | 100   | 98.3       | 97.4       |
| Trucks                                                     | 0                          | 0    | 1     | 1          | 0                          | 0    | 0     | 0          | 0                                              | 16   | 0     | 16         | 0                                              | 11   | 0     | 11         | 28         |
| % Trucks                                                   | 0                          | 0    | 4.2   | 2.9        | 0                          | 0    | 0     | 0          | 0                                              | 4.2  | 0     | 4.2        | 0                                              | 1.7  | 0     | 1.7        | 2.6        |



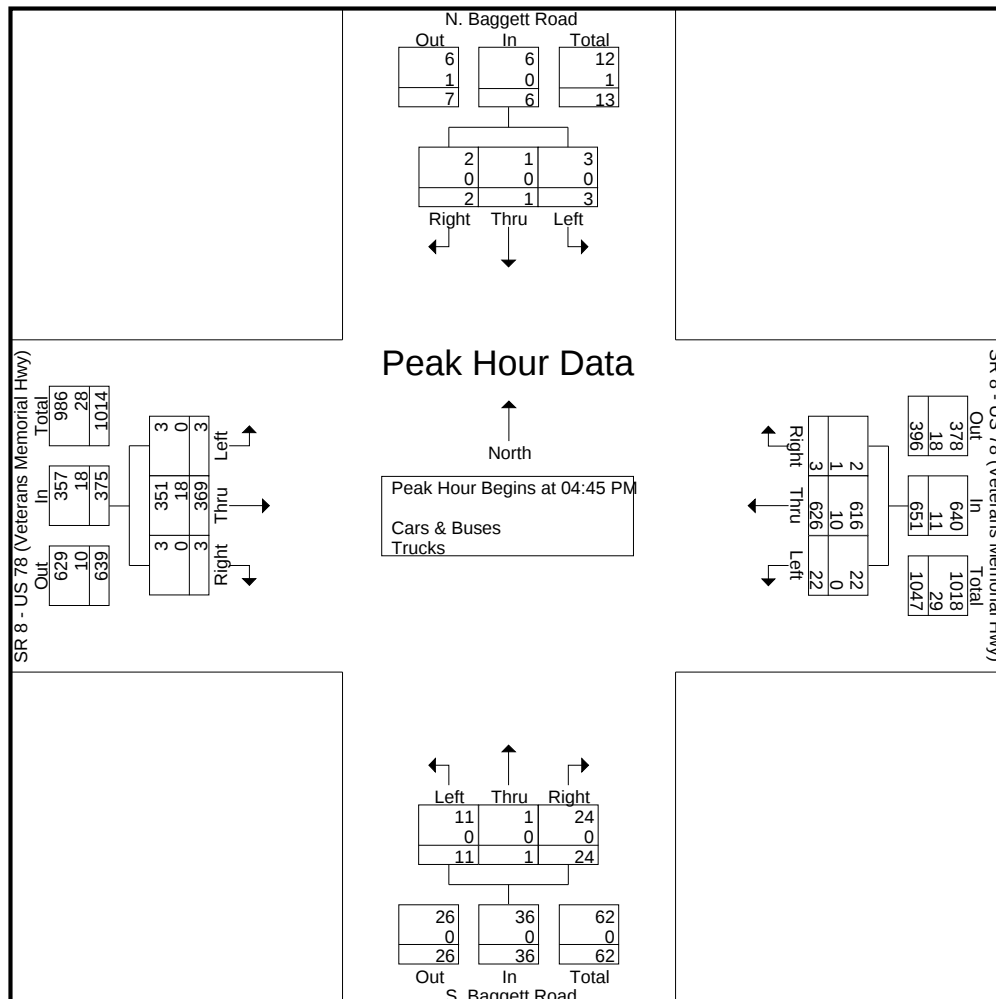
# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
SR 8 - US 78 (Veterans Memorial Hwy) @  
S. Baggett & N. Baggett Road  
7-9am | 4-6pm

File Name : 20250037  
Site Code : 20250037  
Start Date : 02-06-2025  
Page No : 3

|                                                            | S. Baggett Road Northbound |      |       |            | N. Baggett Road Southbound |      |       |            | SR 8 - US 78 (Veterans Memorial Hwy) Eastbound |      |       |            | SR 8 - US 78 (Veterans Memorial Hwy) Westbound |      |       |            |            |
|------------------------------------------------------------|----------------------------|------|-------|------------|----------------------------|------|-------|------------|------------------------------------------------|------|-------|------------|------------------------------------------------|------|-------|------------|------------|
| Start Time                                                 | Left                       | Thru | Right | App. Total | Left                       | Thru | Right | App. Total | Left                                           | Thru | Right | App. Total | Left                                           | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 |                            |      |       |            |                            |      |       |            |                                                |      |       |            |                                                |      |       |            |            |
| Peak Hour for Entire Intersection Begins at 04:45 PM       |                            |      |       |            |                            |      |       |            |                                                |      |       |            |                                                |      |       |            |            |
| 04:45 PM                                                   | 2                          | 1    | 3     | 6          | 2                          | 0    | 1     | 3          | 1                                              | 91   | 1     | 93         | 5                                              | 145  | 1     | 151        | 253        |
| 05:00 PM                                                   | 5                          | 0    | 7     | 12         | 0                          | 1    | 1     | 2          | 1                                              | 79   | 1     | 81         | 7                                              | 144  | 0     | 151        | 246        |
| 05:15 PM                                                   | 3                          | 0    | 7     | 10         | 1                          | 0    | 0     | 1          | 0                                              | 112  | 0     | 112        | 5                                              | 167  | 1     | 173        | 296        |
| 05:30 PM                                                   | 1                          | 0    | 7     | 8          | 0                          | 0    | 0     | 0          | 1                                              | 87   | 1     | 89         | 5                                              | 170  | 1     | 176        | 273        |
| Total Volume                                               | 11                         | 1    | 24    | 36         | 3                          | 1    | 2     | 6          | 3                                              | 369  | 3     | 375        | 22                                             | 626  | 3     | 651        | 1068       |
| % App. Total                                               | 30.6                       | 2.8  | 66.7  |            | 50                         | 16.7 | 33.3  |            | 0.8                                            | 98.4 | 0.8   |            | 3.4                                            | 96.2 | 0.5   |            |            |
| PHF                                                        | .550                       | .250 | .857  | .750       | .375                       | .250 | .500  | .500       | .750                                           | .824 | .750  | .837       | .786                                           | .921 | .750  | .925       | .902       |
| Cars & Buses                                               | 11                         | 1    | 24    | 36         | 3                          | 1    | 2     | 6          | 3                                              | 351  | 3     | 357        | 22                                             | 616  | 2     | 640        | 1039       |
| % Cars & Buses                                             | 100                        | 100  | 100   | 100        | 100                        | 100  | 100   | 100        | 100                                            | 95.1 | 100   | 95.2       | 100                                            | 98.4 | 66.7  | 98.3       | 97.3       |
| Trucks                                                     | 0                          | 0    | 0     | 0          | 0                          | 0    | 0     | 0          | 0                                              | 18   | 0     | 18         | 0                                              | 10   | 1     | 11         | 29         |
| % Trucks                                                   | 0                          | 0    | 0     | 0          | 0                          | 0    | 0     | 0          | 0                                              | 4.9  | 0     | 4.8        | 0                                              | 1.6  | 33.3  | 1.7        | 2.7        |



# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
SR 8 - US 78 (Veterans Memorial Hwy) @  
N. Baggett Road (Eastern intersection)  
7-9 am | 4-6 pm

File Name : 20250036  
Site Code : 20250036  
Start Date : 02-06-2025  
Page No : 1

## Groups Printed- Cars & Buses - Trucks

| Start Time     | Northbound |      |       |            | N. Baggett Road (Eastern intersection)<br>Southbound |      |       |            | SR 8 - US 78 (Veterans Memorial Hwy)<br>Eastbound |      |       |            | SR 8 - US 78 (Veterans Memorial Hwy)<br>Westbound |      |       |            | Int. Total |
|----------------|------------|------|-------|------------|------------------------------------------------------|------|-------|------------|---------------------------------------------------|------|-------|------------|---------------------------------------------------|------|-------|------------|------------|
|                | Left       | Thru | Right | App. Total | Left                                                 | Thru | Right | App. Total | Left                                              | Thru | Right | App. Total | Left                                              | Thru | Right | App. Total |            |
| 07:00 AM       | 0          | 0    | 0     | 0          | 3                                                    | 0    | 0     | 3          | 0                                                 | 92   | 0     | 92         | 0                                                 | 50   | 0     | 50         | 145        |
| 07:15 AM       | 0          | 0    | 0     | 0          | 4                                                    | 0    | 0     | 4          | 0                                                 | 118  | 0     | 118        | 0                                                 | 65   | 2     | 67         | 189        |
| 07:30 AM       | 0          | 0    | 0     | 0          | 2                                                    | 0    | 1     | 3          | 1                                                 | 117  | 0     | 118        | 0                                                 | 38   | 1     | 39         | 160        |
| 07:45 AM       | 0          | 0    | 0     | 0          | 2                                                    | 0    | 0     | 2          | 0                                                 | 147  | 0     | 147        | 0                                                 | 48   | 0     | 48         | 197        |
| Total          | 0          | 0    | 0     | 0          | 11                                                   | 0    | 1     | 12         | 1                                                 | 474  | 0     | 475        | 0                                                 | 201  | 3     | 204        | 691        |
| 08:00 AM       | 0          | 0    | 0     | 0          | 0                                                    | 0    | 0     | 0          | 0                                                 | 106  | 0     | 106        | 0                                                 | 55   | 0     | 55         | 161        |
| 08:15 AM       | 0          | 0    | 0     | 0          | 1                                                    | 0    | 0     | 1          | 1                                                 | 81   | 0     | 82         | 0                                                 | 52   | 1     | 53         | 136        |
| 08:30 AM       | 0          | 0    | 0     | 0          | 2                                                    | 0    | 0     | 2          | 0                                                 | 97   | 0     | 97         | 0                                                 | 43   | 2     | 45         | 144        |
| 08:45 AM       | 0          | 0    | 0     | 0          | 0                                                    | 0    | 0     | 0          | 0                                                 | 87   | 0     | 87         | 0                                                 | 39   | 3     | 42         | 129        |
| Total          | 0          | 0    | 0     | 0          | 3                                                    | 0    | 0     | 3          | 1                                                 | 371  | 0     | 372        | 0                                                 | 189  | 6     | 195        | 570        |
| *** BREAK ***  |            |      |       |            |                                                      |      |       |            |                                                   |      |       |            |                                                   |      |       |            |            |
| 04:00 PM       | 0          | 0    | 0     | 0          | 0                                                    | 0    | 0     | 0          | 0                                                 | 96   | 0     | 96         | 0                                                 | 112  | 2     | 114        | 210        |
| 04:15 PM       | 0          | 0    | 0     | 0          | 3                                                    | 0    | 1     | 4          | 0                                                 | 86   | 0     | 86         | 0                                                 | 102  | 9     | 111        | 201        |
| 04:30 PM       | 0          | 0    | 0     | 0          | 2                                                    | 0    | 0     | 2          | 1                                                 | 99   | 0     | 100        | 0                                                 | 100  | 2     | 102        | 204        |
| 04:45 PM       | 0          | 0    | 0     | 0          | 3                                                    | 0    | 0     | 3          | 0                                                 | 70   | 0     | 70         | 0                                                 | 127  | 2     | 129        | 202        |
| Total          | 0          | 0    | 0     | 0          | 8                                                    | 0    | 1     | 9          | 1                                                 | 351  | 0     | 352        | 0                                                 | 441  | 15    | 456        | 817        |
| 05:00 PM       | 0          | 0    | 0     | 0          | 2                                                    | 0    | 0     | 2          | 0                                                 | 75   | 0     | 75         | 0                                                 | 129  | 0     | 129        | 206        |
| 05:15 PM       | 0          | 0    | 0     | 0          | 1                                                    | 0    | 0     | 1          | 0                                                 | 93   | 0     | 93         | 0                                                 | 118  | 0     | 118        | 212        |
| 05:30 PM       | 0          | 0    | 0     | 0          | 2                                                    | 0    | 0     | 2          | 0                                                 | 73   | 0     | 73         | 0                                                 | 125  | 1     | 126        | 201        |
| 05:45 PM       | 0          | 0    | 0     | 0          | 1                                                    | 0    | 0     | 1          | 0                                                 | 58   | 0     | 58         | 0                                                 | 114  | 3     | 117        | 176        |
| Total          | 0          | 0    | 0     | 0          | 6                                                    | 0    | 0     | 6          | 0                                                 | 299  | 0     | 299        | 0                                                 | 486  | 4     | 490        | 795        |
| Grand Total    | 0          | 0    | 0     | 0          | 28                                                   | 0    | 2     | 30         | 3                                                 | 1495 | 0     | 1498       | 0                                                 | 1317 | 28    | 1345       | 2873       |
| Apprch %       | 0          | 0    | 0     |            | 93.3                                                 | 0    | 6.7   |            | 0.2                                               | 99.8 | 0     |            | 0                                                 | 97.9 | 2.1   |            |            |
| Total %        | 0          | 0    | 0     | 0          | 1                                                    | 0    | 0.1   | 1          | 0.1                                               | 52   | 0     | 52.1       | 0                                                 | 45.8 | 1     | 46.8       |            |
| Cars & Buses   | 0          | 0    | 0     | 0          | 24                                                   | 0    | 2     | 26         | 3                                                 | 1368 | 0     | 1371       | 0                                                 | 1213 | 27    | 1240       | 2637       |
| % Cars & Buses | 0          | 0    | 0     | 0          | 85.7                                                 | 0    | 100   | 86.7       | 100                                               | 91.5 | 0     | 91.5       | 0                                                 | 92.1 | 96.4  | 92.2       | 91.8       |
| Trucks         | 0          | 0    | 0     | 0          | 4                                                    | 0    | 0     | 4          | 0                                                 | 127  | 0     | 127        | 0                                                 | 104  | 1     | 105        | 236        |
| % Trucks       | 0          | 0    | 0     | 0          | 14.3                                                 | 0    | 0     | 13.3       | 0                                                 | 8.5  | 0     | 8.5        | 0                                                 | 7.9  | 3.6   | 7.8        | 8.2        |

# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data

SR 8 - US 78 (Veterans Memorial Hwy) @

N. Baggett Road (Eastern intersection)

7-9 am | 4-6 pm

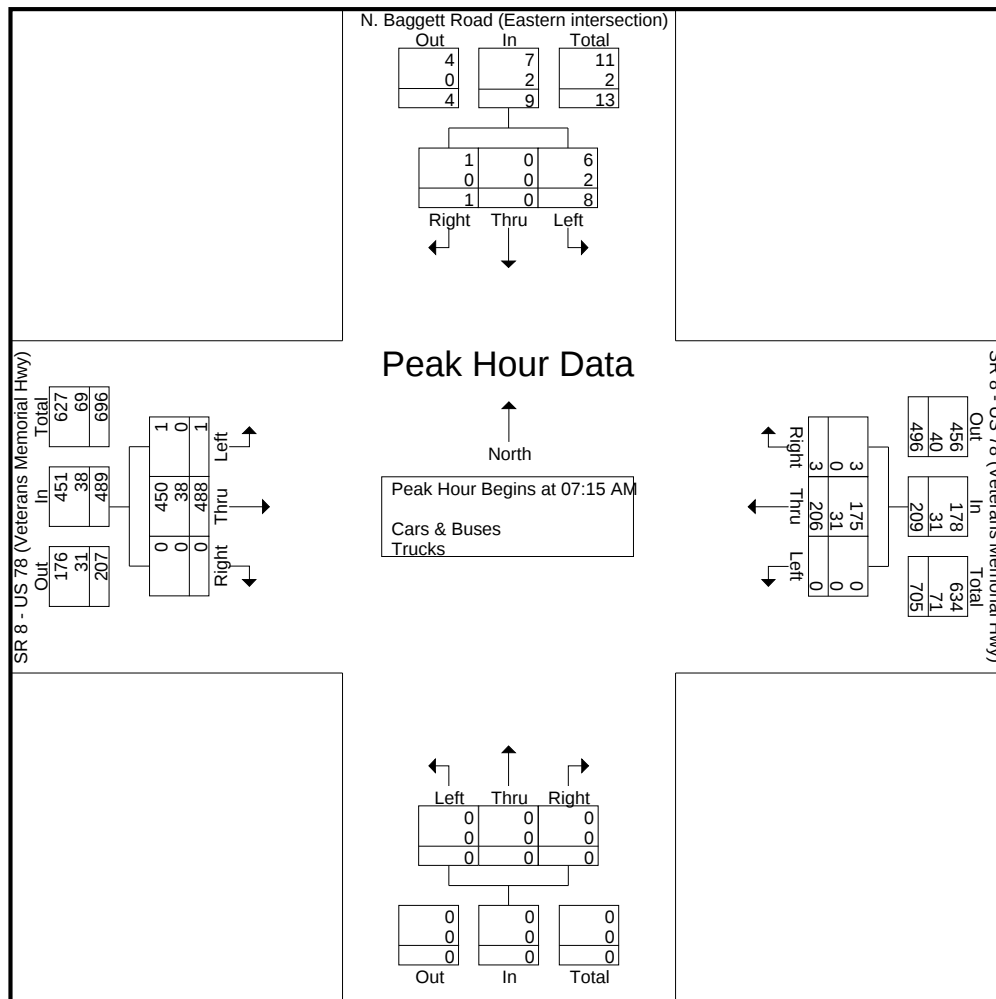
File Name : 20250036

Site Code : 20250036

Start Date : 02-06-2025

Page No : 2

|                                                            | Northbound |      |       |            | N. Baggett Road (Eastern intersection)<br>Southbound |      |       |            | SR 8 - US 78 (Veterans Memorial Hwy)<br>Eastbound |      |       |            | SR 8 - US 78 (Veterans Memorial Hwy)<br>Westbound |      |       |            |            |
|------------------------------------------------------------|------------|------|-------|------------|------------------------------------------------------|------|-------|------------|---------------------------------------------------|------|-------|------------|---------------------------------------------------|------|-------|------------|------------|
| Start Time                                                 | Left       | Thru | Right | App. Total | Left                                                 | Thru | Right | App. Total | Left                                              | Thru | Right | App. Total | Left                                              | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 |            |      |       |            |                                                      |      |       |            |                                                   |      |       |            |                                                   |      |       |            |            |
| Peak Hour for Entire Intersection Begins at 07:15 AM       |            |      |       |            |                                                      |      |       |            |                                                   |      |       |            |                                                   |      |       |            |            |
| 07:15 AM                                                   | 0          | 0    | 0     | 0          | 4                                                    | 0    | 0     | 4          | 0                                                 | 118  | 0     | 118        | 0                                                 | 65   | 2     | 67         | 189        |
| 07:30 AM                                                   | 0          | 0    | 0     | 0          | 2                                                    | 0    | 1     | 3          | 1                                                 | 117  | 0     | 118        | 0                                                 | 38   | 1     | 39         | 160        |
| 07:45 AM                                                   | 0          | 0    | 0     | 0          | 2                                                    | 0    | 0     | 2          | 0                                                 | 147  | 0     | 147        | 0                                                 | 48   | 0     | 48         | 197        |
| 08:00 AM                                                   | 0          | 0    | 0     | 0          | 0                                                    | 0    | 0     | 0          | 0                                                 | 106  | 0     | 106        | 0                                                 | 55   | 0     | 55         | 161        |
| Total Volume                                               | 0          | 0    | 0     | 0          | 8                                                    | 0    | 1     | 9          | 1                                                 | 488  | 0     | 489        | 0                                                 | 206  | 3     | 209        | 707        |
| % App. Total                                               | 0          | 0    | 0     | 0          | 88.9                                                 | 0    | 11.1  |            | 0.2                                               | 99.8 | 0     |            | 0                                                 | 98.6 | 1.4   |            |            |
| PHF                                                        | .000       | .000 | .000  | .000       | .500                                                 | .000 | .250  | .563       | .250                                              | .830 | .000  | .832       | .000                                              | .792 | .375  | .780       | .897       |
| Cars & Buses                                               | 0          | 0    | 0     | 0          | 6                                                    | 0    | 1     | 7          | 1                                                 | 450  | 0     | 451        | 0                                                 | 175  | 3     | 178        | 636        |
| % Cars & Buses                                             | 0          | 0    | 0     | 0          | 75.0                                                 | 0    | 100   | 77.8       | 100                                               | 92.2 | 0     | 92.2       | 0                                                 | 85.0 | 100   | 85.2       | 90.0       |
| Trucks                                                     | 0          | 0    | 0     | 0          | 2                                                    | 0    | 0     | 2          | 0                                                 | 38   | 0     | 38         | 0                                                 | 31   | 0     | 31         | 71         |
| % Trucks                                                   | 0          | 0    | 0     | 0          | 25.0                                                 | 0    | 0     | 22.2       | 0                                                 | 7.8  | 0     | 7.8        | 0                                                 | 15.0 | 0     | 14.8       | 10.0       |



# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data

SR 8 - US 78 (Veterans Memorial Hwy) @

N. Baggett Road (Eastern intersection)

7-9 am | 4-6 pm

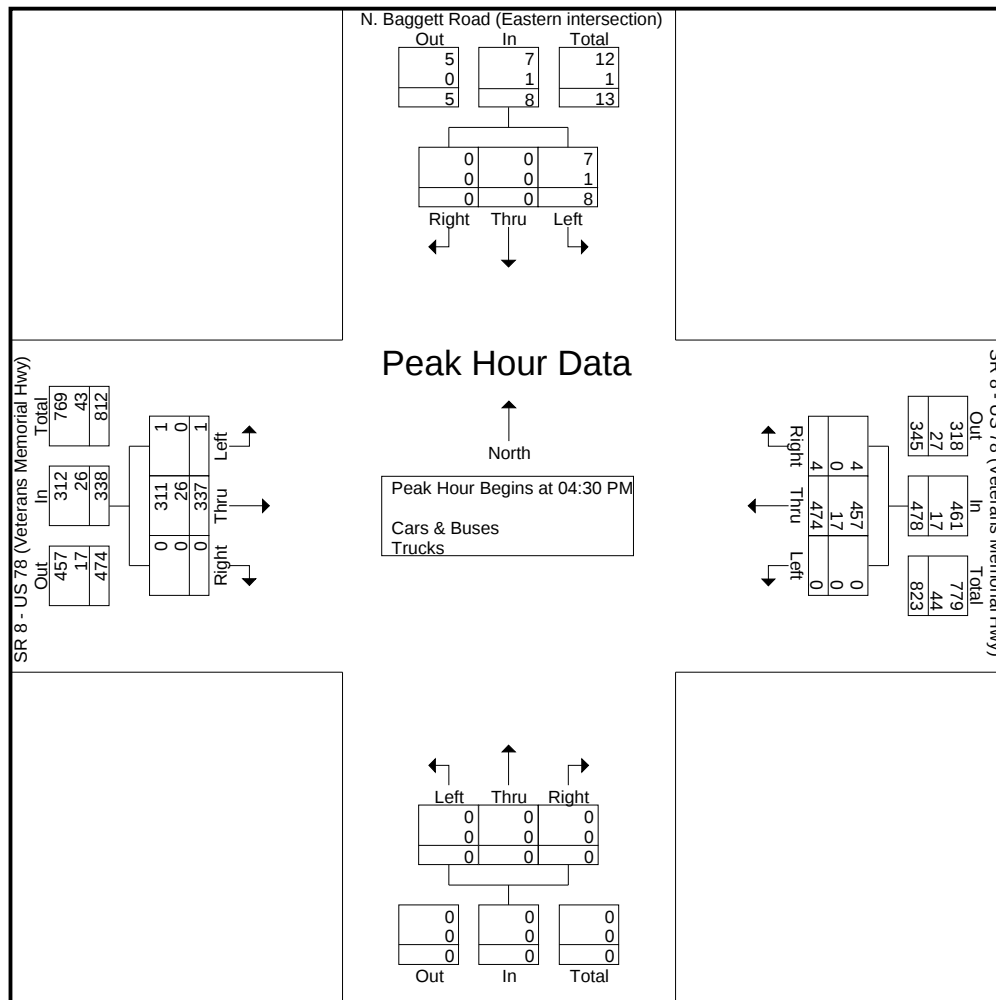
File Name : 20250036

Site Code : 20250036

Start Date : 02-06-2025

Page No : 3

|                                                            | Northbound |      |       |            | N. Baggett Road (Eastern intersection)<br>Southbound |      |       |            | SR 8 - US 78 (Veterans Memorial Hwy)<br>Eastbound |      |       |            | SR 8 - US 78 (Veterans Memorial Hwy)<br>Westbound |      |       |            |            |
|------------------------------------------------------------|------------|------|-------|------------|------------------------------------------------------|------|-------|------------|---------------------------------------------------|------|-------|------------|---------------------------------------------------|------|-------|------------|------------|
| Start Time                                                 | Left       | Thru | Right | App. Total | Left                                                 | Thru | Right | App. Total | Left                                              | Thru | Right | App. Total | Left                                              | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 |            |      |       |            |                                                      |      |       |            |                                                   |      |       |            |                                                   |      |       |            |            |
| Peak Hour for Entire Intersection Begins at 04:30 PM       |            |      |       |            |                                                      |      |       |            |                                                   |      |       |            |                                                   |      |       |            |            |
| 04:30 PM                                                   | 0          | 0    | 0     | 0          | 2                                                    | 0    | 0     | 2          | 1                                                 | 99   | 0     | 100        | 0                                                 | 100  | 2     | 102        | 204        |
| 04:45 PM                                                   | 0          | 0    | 0     | 0          | 3                                                    | 0    | 0     | 3          | 0                                                 | 70   | 0     | 70         | 0                                                 | 127  | 2     | 129        | 202        |
| 05:00 PM                                                   | 0          | 0    | 0     | 0          | 2                                                    | 0    | 0     | 2          | 0                                                 | 75   | 0     | 75         | 0                                                 | 129  | 0     | 129        | 206        |
| 05:15 PM                                                   | 0          | 0    | 0     | 0          | 1                                                    | 0    | 0     | 1          | 0                                                 | 93   | 0     | 93         | 0                                                 | 118  | 0     | 118        | 212        |
| Total Volume                                               | 0          | 0    | 0     | 0          | 8                                                    | 0    | 0     | 8          | 1                                                 | 337  | 0     | 338        | 0                                                 | 474  | 4     | 478        | 824        |
| % App. Total                                               | 0          | 0    | 0     |            | 100                                                  | 0    | 0     |            | 0.3                                               | 99.7 | 0     |            | 0                                                 | 99.2 | 0.8   |            |            |
| PHF                                                        | .000       | .000 | .000  | .000       | .667                                                 | .000 | .000  | .667       | .250                                              | .851 | .000  | .845       | .000                                              | .919 | .500  | .926       | .972       |
| Cars & Buses                                               | 0          | 0    | 0     | 0          | 7                                                    | 0    | 0     | 7          | 1                                                 | 311  | 0     | 312        | 0                                                 | 457  | 4     | 461        | 780        |
| % Cars & Buses                                             | 0          | 0    | 0     | 0          | 87.5                                                 | 0    | 0     | 87.5       | 100                                               | 92.3 | 0     | 92.3       | 0                                                 | 96.4 | 100   | 96.4       | 94.7       |
| Trucks                                                     | 0          | 0    | 0     | 0          | 1                                                    | 0    | 0     | 1          | 0                                                 | 26   | 0     | 26         | 0                                                 | 17   | 0     | 17         | 44         |
| % Trucks                                                   | 0          | 0    | 0     | 0          | 12.5                                                 | 0    | 0     | 12.5       | 0                                                 | 7.7  | 0     | 7.7        | 0                                                 | 3.6  | 0     | 3.6        | 5.3        |



# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
Post Road @ I-20 WB Ramps  
7-9am | 4-6pm

File Name : 20250035  
Site Code : 20250035  
Start Date : 02-06-2025  
Page No : 1

## Groups Printed- Cars & Buses - Trucks

| Start Time     | Post Road Northbound |      |       |            | Post Road Southbound |      |       |            | I-20 WB Ramps Eastbound |      |       |            | I-20 WB Ramps Westbound |      |       |            | Int. Total |
|----------------|----------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|-------------------------|------|-------|------------|------------|
|                | Left                 | Thru | Right | App. Total | Left                 | Thru | Right | App. Total | Left                    | Thru | Right | App. Total | Left                    | Thru | Right | App. Total |            |
| 07:00 AM       | 38                   | 76   | 0     | 114        | 0                    | 96   | 24    | 120        | 0                       | 0    | 0     | 0          | 28                      | 0    | 18    | 46         | 280        |
| 07:15 AM       | 44                   | 64   | 0     | 108        | 0                    | 113  | 18    | 131        | 0                       | 0    | 0     | 0          | 41                      | 0    | 33    | 74         | 313        |
| 07:30 AM       | 43                   | 78   | 0     | 121        | 0                    | 102  | 17    | 119        | 0                       | 0    | 0     | 0          | 30                      | 1    | 18    | 49         | 289        |
| 07:45 AM       | 67                   | 99   | 0     | 166        | 0                    | 132  | 20    | 152        | 0                       | 0    | 0     | 0          | 34                      | 0    | 35    | 69         | 387        |
| Total          | 192                  | 317  | 0     | 509        | 0                    | 443  | 79    | 522        | 0                       | 0    | 0     | 0          | 133                     | 1    | 104   | 238        | 1269       |
| 08:00 AM       | 42                   | 103  | 0     | 145        | 0                    | 104  | 14    | 118        | 0                       | 0    | 0     | 0          | 38                      | 0    | 23    | 61         | 324        |
| 08:15 AM       | 45                   | 80   | 0     | 125        | 0                    | 74   | 16    | 90         | 0                       | 0    | 0     | 0          | 36                      | 0    | 32    | 68         | 283        |
| 08:30 AM       | 37                   | 55   | 0     | 92         | 0                    | 95   | 14    | 109        | 0                       | 0    | 0     | 0          | 36                      | 2    | 26    | 64         | 265        |
| 08:45 AM       | 53                   | 72   | 0     | 125        | 0                    | 98   | 18    | 116        | 0                       | 0    | 0     | 0          | 41                      | 2    | 19    | 62         | 303        |
| Total          | 177                  | 310  | 0     | 487        | 0                    | 371  | 62    | 433        | 0                       | 0    | 0     | 0          | 151                     | 4    | 100   | 255        | 1175       |
| *** BREAK ***  |                      |      |       |            |                      |      |       |            |                         |      |       |            |                         |      |       |            |            |
| 04:00 PM       | 56                   | 78   | 0     | 134        | 0                    | 75   | 32    | 107        | 0                       | 0    | 0     | 0          | 90                      | 2    | 60    | 152        | 393        |
| 04:15 PM       | 58                   | 88   | 0     | 146        | 0                    | 91   | 25    | 116        | 0                       | 0    | 0     | 0          | 85                      | 1    | 41    | 127        | 389        |
| 04:30 PM       | 60                   | 58   | 0     | 118        | 0                    | 73   | 18    | 91         | 0                       | 0    | 0     | 0          | 111                     | 0    | 51    | 162        | 371        |
| 04:45 PM       | 66                   | 53   | 0     | 119        | 0                    | 117  | 51    | 168        | 0                       | 0    | 0     | 0          | 90                      | 1    | 42    | 133        | 420        |
| Total          | 240                  | 277  | 0     | 517        | 0                    | 356  | 126   | 482        | 0                       | 0    | 0     | 0          | 376                     | 4    | 194   | 574        | 1573       |
| 05:00 PM       | 66                   | 61   | 0     | 127        | 0                    | 123  | 40    | 163        | 0                       | 0    | 0     | 0          | 100                     | 0    | 51    | 151        | 441        |
| 05:15 PM       | 76                   | 71   | 0     | 147        | 0                    | 120  | 22    | 142        | 0                       | 0    | 0     | 0          | 98                      | 2    | 57    | 157        | 446        |
| 05:30 PM       | 61                   | 66   | 0     | 127        | 0                    | 98   | 36    | 134        | 0                       | 0    | 0     | 0          | 115                     | 2    | 53    | 170        | 431        |
| 05:45 PM       | 51                   | 61   | 0     | 112        | 0                    | 83   | 18    | 101        | 0                       | 0    | 0     | 0          | 98                      | 0    | 60    | 158        | 371        |
| Total          | 254                  | 259  | 0     | 513        | 0                    | 424  | 116   | 540        | 0                       | 0    | 0     | 0          | 411                     | 4    | 221   | 636        | 1689       |
| Grand Total    | 863                  | 1163 | 0     | 2026       | 0                    | 1594 | 383   | 1977       | 0                       | 0    | 0     | 0          | 1071                    | 13   | 619   | 1703       | 5706       |
| Apprch %       | 42.6                 | 57.4 | 0     |            | 0                    | 80.6 | 19.4  |            | 0                       | 0    | 0     |            | 62.9                    | 0.8  | 36.3  |            |            |
| Total %        | 15.1                 | 20.4 | 0     | 35.5       | 0                    | 27.9 | 6.7   | 34.6       | 0                       | 0    | 0     | 0          | 18.8                    | 0.2  | 10.8  | 29.8       |            |
| Cars & Buses   | 856                  | 1134 | 0     | 1990       | 0                    | 1565 | 372   | 1937       | 0                       | 0    | 0     | 0          | 1060                    | 10   | 611   | 1681       | 5608       |
| % Cars & Buses | 99.2                 | 97.5 | 0     | 98.2       | 0                    | 98.2 | 97.1  | 98         | 0                       | 0    | 0     | 0          | 99                      | 76.9 | 98.7  | 98.7       | 98.3       |
| Trucks         | 7                    | 29   | 0     | 36         | 0                    | 29   | 11    | 40         | 0                       | 0    | 0     | 0          | 11                      | 3    | 8     | 22         | 98         |
| % Trucks       | 0.8                  | 2.5  | 0     | 1.8        | 0                    | 1.8  | 2.9   | 2          | 0                       | 0    | 0     | 0          | 1                       | 23.1 | 1.3   | 1.3        | 1.7        |

# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
Post Road @ I-20 WB Ramps  
7-9am | 4-6pm

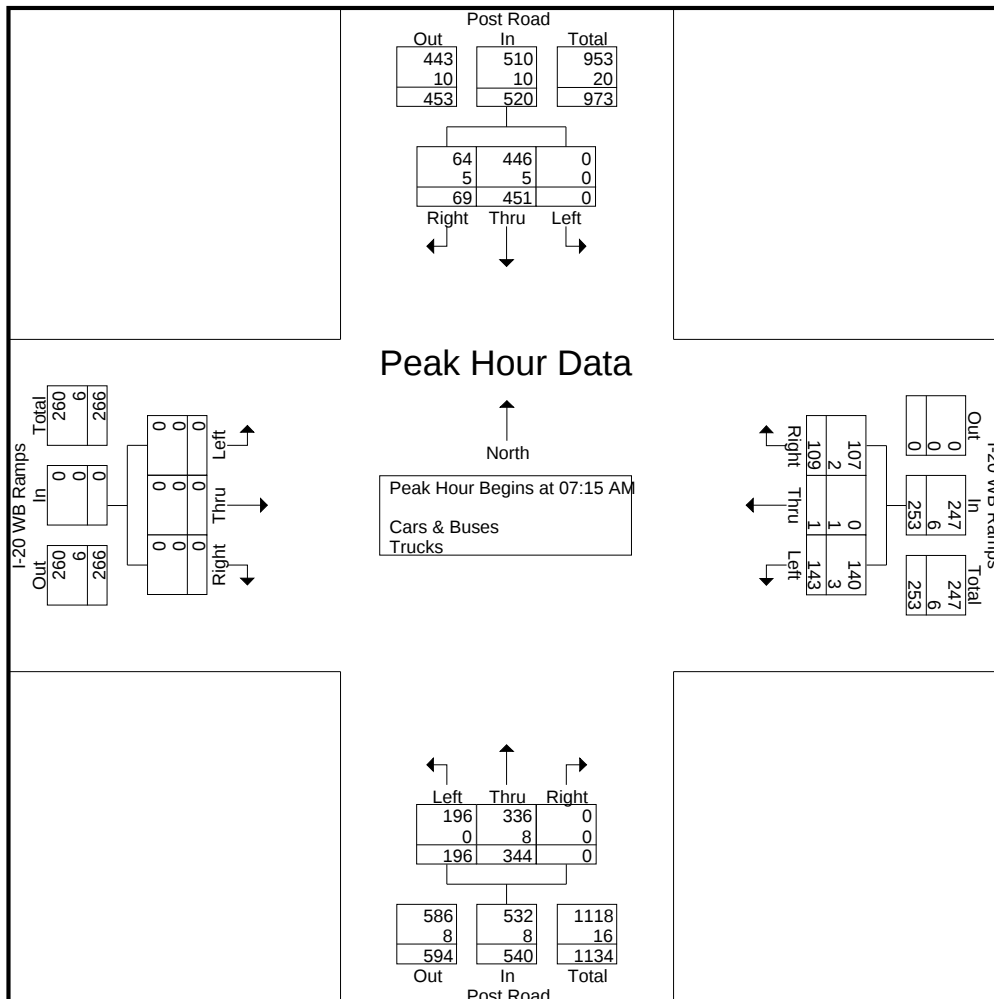
File Name : 20250035  
Site Code : 20250035  
Start Date : 02-06-2025  
Page No : 2

|            | Post Road Northbound |      |       |            | Post Road Southbound |      |       |            | I-20 WB Ramps Eastbound |      |       |            | I-20 WB Ramps Westbound |      |       |            |            |
|------------|----------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|-------------------------|------|-------|------------|------------|
| Start Time | Left                 | Thru | Right | App. Total | Left                 | Thru | Right | App. Total | Left                    | Thru | Right | App. Total | Left                    | Thru | Right | App. Total | Int. Total |

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 07:15 AM

|                |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 07:15 AM       | 44   | 64   | 0    | 108  | 0    | 113  | 18   | 131  | 0    | 0    | 0    | 0    | 41   | 0    | 33   | 74   | 313  |
| 07:30 AM       | 43   | 78   | 0    | 121  | 0    | 102  | 17   | 119  | 0    | 0    | 0    | 0    | 30   | 1    | 18   | 49   | 289  |
| 07:45 AM       | 67   | 99   | 0    | 166  | 0    | 132  | 20   | 152  | 0    | 0    | 0    | 0    | 34   | 0    | 35   | 69   | 387  |
| 08:00 AM       | 42   | 103  | 0    | 145  | 0    | 104  | 14   | 118  | 0    | 0    | 0    | 0    | 38   | 0    | 23   | 61   | 324  |
| Total Volume   | 196  | 344  | 0    | 540  | 0    | 451  | 69   | 520  | 0    | 0    | 0    | 0    | 143  | 1    | 109  | 253  | 1313 |
| % App. Total   | 36.3 | 63.7 | 0    |      | 0    | 86.7 | 13.3 |      | 0    | 0    | 0    | 0    | 56.5 | 0.4  | 43.1 |      |      |
| PHF            | .731 | .835 | .000 | .813 | .000 | .854 | .863 | .855 | .000 | .000 | .000 | .000 | .872 | .250 | .779 | .855 | .848 |
| Cars & Buses   | 196  | 336  | 0    | 532  | 0    | 446  | 64   | 510  | 0    | 0    | 0    | 0    | 140  | 0    | 107  | 247  | 1289 |
| % Cars & Buses | 100  | 97.7 | 0    | 98.5 | 0    | 98.9 | 92.8 | 98.1 | 0    | 0    | 0    | 0    | 97.9 | 0    | 98.2 | 97.6 | 98.2 |
| Trucks         | 0    | 8    | 0    | 8    | 0    | 5    | 5    | 10   | 0    | 0    | 0    | 0    | 3    | 1    | 2    | 6    | 24   |
| % Trucks       | 0    | 2.3  | 0    | 1.5  | 0    | 1.1  | 7.2  | 1.9  | 0    | 0    | 0    | 0    | 2.1  | 100  | 1.8  | 2.4  | 1.8  |



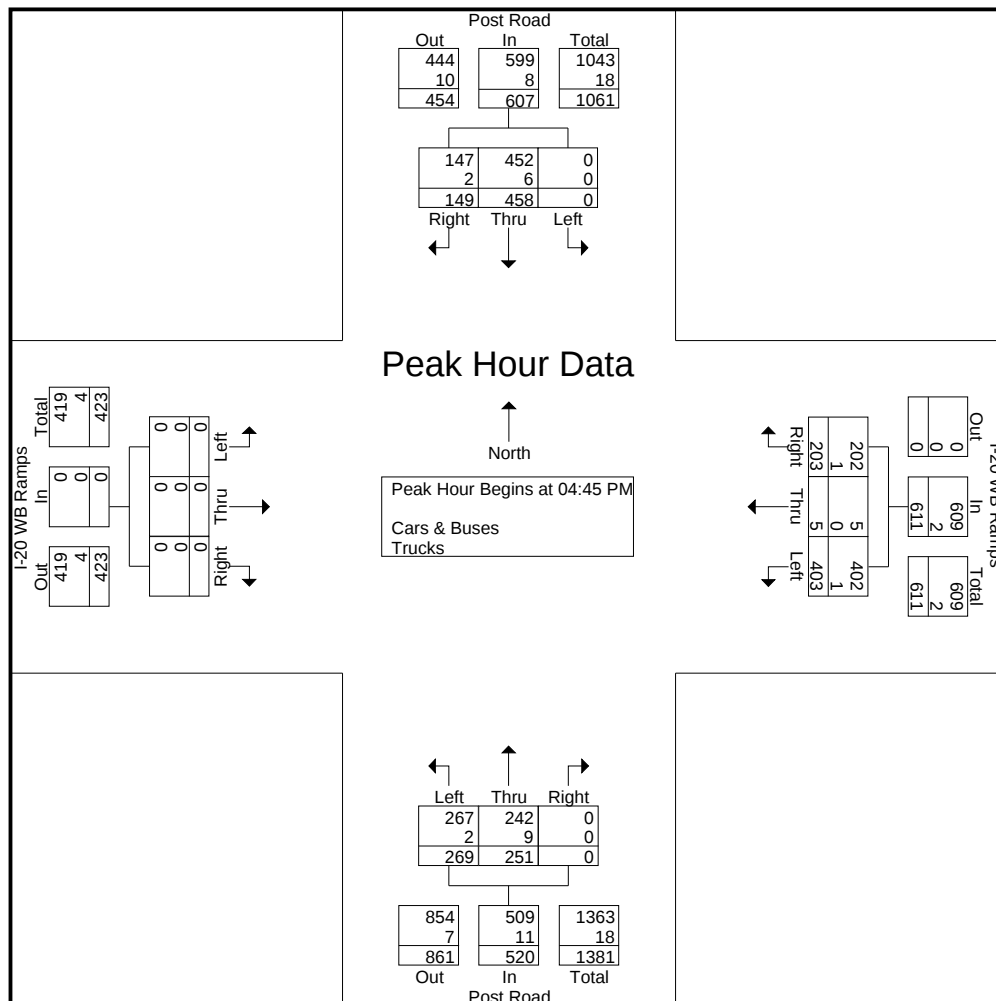
# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
Post Road @ I-20 WB Ramps  
7-9am | 4-6pm

File Name : 20250035  
Site Code : 20250035  
Start Date : 02-06-2025  
Page No : 3

|                                                            | Post Road Northbound |      |       |            | Post Road Southbound |      |       |            | I-20 WB Ramps Eastbound |      |       |            | I-20 WB Ramps Westbound |      |       |            |            |
|------------------------------------------------------------|----------------------|------|-------|------------|----------------------|------|-------|------------|-------------------------|------|-------|------------|-------------------------|------|-------|------------|------------|
| Start Time                                                 | Left                 | Thru | Right | App. Total | Left                 | Thru | Right | App. Total | Left                    | Thru | Right | App. Total | Left                    | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 |                      |      |       |            |                      |      |       |            |                         |      |       |            |                         |      |       |            |            |
| Peak Hour for Entire Intersection Begins at 04:45 PM       |                      |      |       |            |                      |      |       |            |                         |      |       |            |                         |      |       |            |            |
| 04:45 PM                                                   | 66                   | 53   | 0     | 119        | 0                    | 117  | 51    | 168        | 0                       | 0    | 0     | 0          | 90                      | 1    | 42    | 133        | 420        |
| 05:00 PM                                                   | 66                   | 61   | 0     | 127        | 0                    | 123  | 40    | 163        | 0                       | 0    | 0     | 0          | 100                     | 0    | 51    | 151        | 441        |
| 05:15 PM                                                   | 76                   | 71   | 0     | 147        | 0                    | 120  | 22    | 142        | 0                       | 0    | 0     | 0          | 98                      | 2    | 57    | 157        | 446        |
| 05:30 PM                                                   | 61                   | 66   | 0     | 127        | 0                    | 98   | 36    | 134        | 0                       | 0    | 0     | 0          | 115                     | 2    | 53    | 170        | 431        |
| Total Volume                                               | 269                  | 251  | 0     | 520        | 0                    | 458  | 149   | 607        | 0                       | 0    | 0     | 0          | 403                     | 5    | 203   | 611        | 1738       |
| % App. Total                                               | 51.7                 | 48.3 | 0     |            | 0                    | 75.5 | 24.5  |            | 0                       | 0    | 0     | 0          | 66                      | 0.8  | 33.2  |            |            |
| PHF                                                        | .885                 | .884 | .000  | .884       | .000                 | .931 | .730  | .903       | .000                    | .000 | .000  | .000       | .876                    | .625 | .890  | .899       | .974       |
| Cars & Buses                                               | 267                  | 242  | 0     | 509        | 0                    | 452  | 147   | 599        | 0                       | 0    | 0     | 0          | 402                     | 5    | 202   | 609        | 1717       |
| % Cars & Buses                                             | 99.3                 | 96.4 | 0     | 97.9       | 0                    | 98.7 | 98.7  | 98.7       | 0                       | 0    | 0     | 0          | 99.8                    | 100  | 99.5  | 99.7       | 98.8       |
| Trucks                                                     | 2                    | 9    | 0     | 11         | 0                    | 6    | 2     | 8          | 0                       | 0    | 0     | 0          | 1                       | 0    | 1     | 2          | 21         |
| % Trucks                                                   | 0.7                  | 3.6  | 0     | 2.1        | 0                    | 1.3  | 1.3   | 1.3        | 0                       | 0    | 0     | 0          | 0.2                     | 0    | 0.5   | 0.3        | 1.2        |



# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
Post Road @ I-20 EB Ramp  
7-9 am | 4-6 pm

File Name : 20250034  
Site Code : 20250034  
Start Date : 02-05-2025  
Page No : 1

## Groups Printed- Cars & Buses - Trucks

|                | Post Road Northbound |      |       |            | Post Road Southbound |      |       |            | I-20 EB Ramp Eastbound |      |       |            | I-20 EB Ramp Westbound |      |       |            |            |
|----------------|----------------------|------|-------|------------|----------------------|------|-------|------------|------------------------|------|-------|------------|------------------------|------|-------|------------|------------|
| Start Time     | Left                 | Thru | Right | App. Total | Left                 | Thru | Right | App. Total | Left                   | Thru | Right | App. Total | Left                   | Thru | Right | App. Total | Int. Total |
| 07:00 AM       | 0                    | 92   | 107   | 199        | 44                   | 63   | 0     | 107        | 29                     | 1    | 62    | 92         | 0                      | 0    | 0     | 0          | 398        |
| 07:15 AM       | 0                    | 128  | 102   | 230        | 63                   | 101  | 0     | 164        | 19                     | 0    | 88    | 107        | 0                      | 0    | 0     | 0          | 501        |
| 07:30 AM       | 0                    | 113  | 114   | 227        | 63                   | 104  | 0     | 167        | 41                     | 0    | 79    | 120        | 0                      | 0    | 0     | 0          | 514        |
| 07:45 AM       | 0                    | 134  | 117   | 251        | 62                   | 102  | 0     | 164        | 41                     | 0    | 75    | 116        | 0                      | 0    | 0     | 0          | 531        |
| Total          | 0                    | 467  | 440   | 907        | 232                  | 370  | 0     | 602        | 130                    | 1    | 304   | 435        | 0                      | 0    | 0     | 0          | 1944       |
| 08:00 AM       | 0                    | 94   | 111   | 205        | 47                   | 67   | 0     | 114        | 28                     | 0    | 53    | 81         | 0                      | 0    | 0     | 0          | 400        |
| 08:15 AM       | 0                    | 67   | 69    | 136        | 52                   | 73   | 0     | 125        | 28                     | 1    | 61    | 90         | 0                      | 0    | 0     | 0          | 351        |
| 08:30 AM       | 0                    | 110  | 107   | 217        | 27                   | 120  | 0     | 147        | 8                      | 0    | 56    | 64         | 0                      | 0    | 0     | 0          | 428        |
| 08:45 AM       | 0                    | 110  | 101   | 211        | 41                   | 90   | 0     | 131        | 18                     | 0    | 39    | 57         | 0                      | 0    | 0     | 0          | 399        |
| Total          | 0                    | 381  | 388   | 769        | 167                  | 350  | 0     | 517        | 82                     | 1    | 209   | 292        | 0                      | 0    | 0     | 0          | 1578       |
| *** BREAK ***  |                      |      |       |            |                      |      |       |            |                        |      |       |            |                        |      |       |            |            |
| 04:00 PM       | 0                    | 124  | 73    | 197        | 42                   | 187  | 0     | 229        | 24                     | 0    | 78    | 102        | 0                      | 0    | 0     | 0          | 528        |
| 04:15 PM       | 0                    | 111  | 50    | 161        | 47                   | 199  | 0     | 246        | 24                     | 1    | 82    | 107        | 0                      | 0    | 0     | 0          | 514        |
| 04:30 PM       | 0                    | 139  | 55    | 194        | 39                   | 153  | 0     | 192        | 27                     | 0    | 70    | 97         | 0                      | 0    | 0     | 0          | 483        |
| 04:45 PM       | 0                    | 114  | 54    | 168        | 35                   | 169  | 0     | 204        | 22                     | 1    | 60    | 83         | 0                      | 0    | 0     | 0          | 455        |
| Total          | 0                    | 488  | 232   | 720        | 163                  | 708  | 0     | 871        | 97                     | 2    | 290   | 389        | 0                      | 0    | 0     | 0          | 1980       |
| 05:00 PM       | 0                    | 133  | 60    | 193        | 40                   | 168  | 0     | 208        | 20                     | 0    | 55    | 75         | 0                      | 0    | 0     | 0          | 476        |
| 05:15 PM       | 0                    | 91   | 37    | 128        | 32                   | 114  | 0     | 146        | 28                     | 1    | 66    | 95         | 0                      | 0    | 0     | 0          | 369        |
| 05:30 PM       | 0                    | 88   | 54    | 142        | 24                   | 133  | 0     | 157        | 23                     | 0    | 55    | 78         | 0                      | 0    | 0     | 0          | 377        |
| 05:45 PM       | 0                    | 82   | 48    | 130        | 33                   | 106  | 0     | 139        | 14                     | 0    | 36    | 50         | 0                      | 0    | 0     | 0          | 319        |
| Total          | 0                    | 394  | 199   | 593        | 129                  | 521  | 0     | 650        | 85                     | 1    | 212   | 298        | 0                      | 0    | 0     | 0          | 1541       |
| Grand Total    | 0                    | 1730 | 1259  | 2989       | 691                  | 1949 | 0     | 2640       | 394                    | 5    | 1015  | 1414       | 0                      | 0    | 0     | 0          | 7043       |
| Apprch %       | 0                    | 57.9 | 42.1  |            | 26.2                 | 73.8 | 0     |            | 27.9                   | 0.4  | 71.8  |            | 0                      | 0    | 0     |            |            |
| Total %        | 0                    | 24.6 | 17.9  | 42.4       | 9.8                  | 27.7 | 0     | 37.5       | 5.6                    | 0.1  | 14.4  | 20.1       | 0                      | 0    | 0     | 0          |            |
| Cars & Buses   | 0                    | 1695 | 1251  | 2946       | 673                  | 1917 | 0     | 2590       | 380                    | 4    | 995   | 1379       | 0                      | 0    | 0     | 0          | 6915       |
| % Cars & Buses | 0                    | 98   | 99.4  | 98.6       | 97.4                 | 98.4 | 0     | 98.1       | 96.4                   | 80   | 98    | 97.5       | 0                      | 0    | 0     | 0          | 98.2       |
| Trucks         | 0                    | 35   | 8     | 43         | 18                   | 32   | 0     | 50         | 14                     | 1    | 20    | 35         | 0                      | 0    | 0     | 0          | 128        |
| % Trucks       | 0                    | 2    | 0.6   | 1.4        | 2.6                  | 1.6  | 0     | 1.9        | 3.6                    | 20   | 2     | 2.5        | 0                      | 0    | 0     | 0          | 1.8        |

# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
Post Road @ I-20 EB Ramp  
7-9 am | 4-6 pm

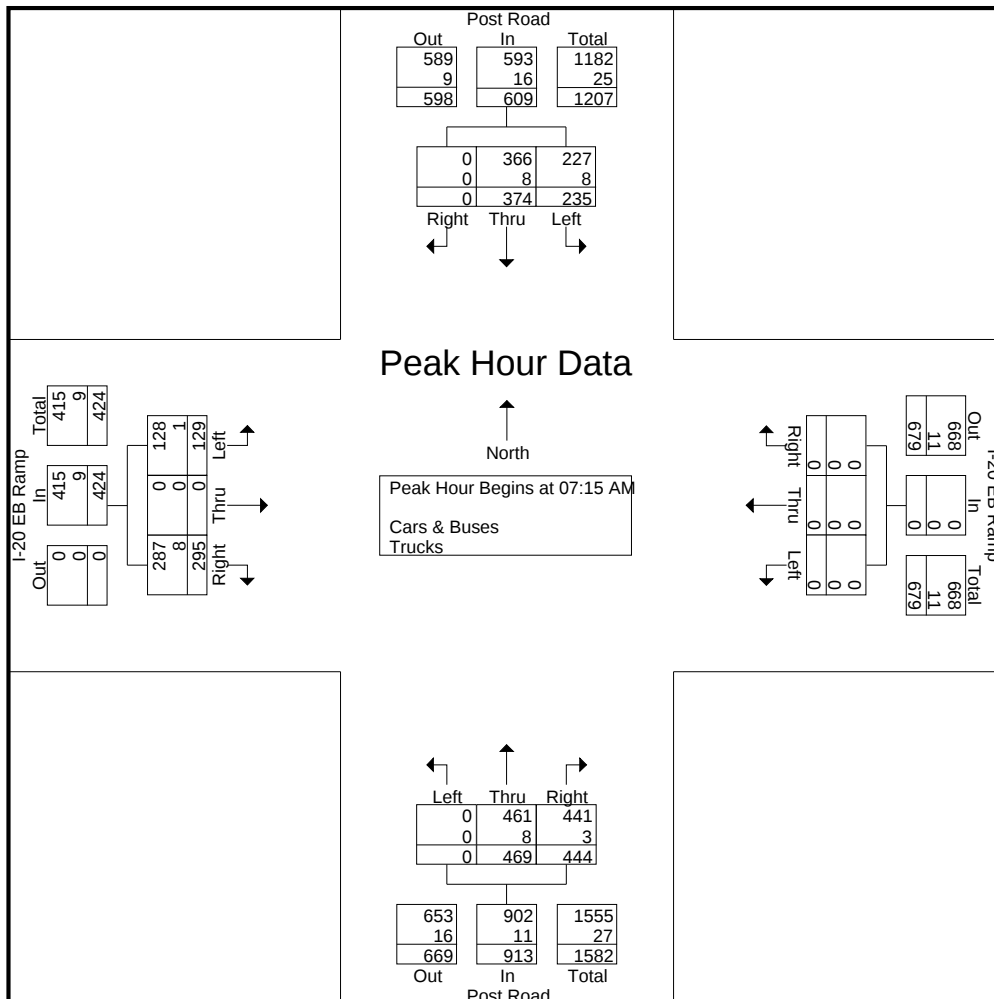
File Name : 20250034  
Site Code : 20250034  
Start Date : 02-05-2025  
Page No : 2

|            | Post Road Northbound |      |       |            | Post Road Southbound |      |       |            | I-20 EB Ramp Eastbound |      |       |            | I-20 EB Ramp Westbound |      |       |            |            |
|------------|----------------------|------|-------|------------|----------------------|------|-------|------------|------------------------|------|-------|------------|------------------------|------|-------|------------|------------|
| Start Time | Left                 | Thru | Right | App. Total | Left                 | Thru | Right | App. Total | Left                   | Thru | Right | App. Total | Left                   | Thru | Right | App. Total | Int. Total |

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 07:15 AM

|                |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 07:15 AM       | 0    | 128  | 102  | 230  | 63   | 101  | 0    | 164  | 19   | 0    | 88   | 107  | 0    | 0    | 0    | 0    | 501  |
| 07:30 AM       | 0    | 113  | 114  | 227  | 63   | 104  | 0    | 167  | 41   | 0    | 79   | 120  | 0    | 0    | 0    | 0    | 514  |
| 07:45 AM       | 0    | 134  | 117  | 251  | 62   | 102  | 0    | 164  | 41   | 0    | 75   | 116  | 0    | 0    | 0    | 0    | 531  |
| 08:00 AM       | 0    | 94   | 111  | 205  | 47   | 67   | 0    | 114  | 28   | 0    | 53   | 81   | 0    | 0    | 0    | 0    | 400  |
| Total Volume   | 0    | 469  | 444  | 913  | 235  | 374  | 0    | 609  | 129  | 0    | 295  | 424  | 0    | 0    | 0    | 0    | 1946 |
| % App. Total   | 0    | 51.4 | 48.6 |      | 38.6 | 61.4 | 0    |      | 30.4 | 0    | 69.6 |      | 0    | 0    | 0    |      |      |
| PHF            | .000 | .875 | .949 | .909 | .933 | .899 | .000 | .912 | .787 | .000 | .838 | .883 | .000 | .000 | .000 | .000 | .916 |
| Cars & Buses   | 0    | 461  | 441  | 902  | 227  | 366  | 0    | 593  | 128  | 0    | 287  | 415  | 0    | 0    | 0    | 0    | 1910 |
| % Cars & Buses | 0    | 98.3 | 99.3 | 98.8 | 96.6 | 97.9 | 0    | 97.4 | 99.2 | 0    | 97.3 | 97.9 | 0    | 0    | 0    | 0    | 98.2 |
| Trucks         | 0    | 8    | 3    | 11   | 8    | 8    | 0    | 16   | 1    | 0    | 8    | 9    | 0    | 0    | 0    | 0    | 36   |
| % Trucks       | 0    | 1.7  | 0.7  | 1.2  | 3.4  | 2.1  | 0    | 2.6  | 0.8  | 0    | 2.7  | 2.1  | 0    | 0    | 0    | 0    | 1.8  |



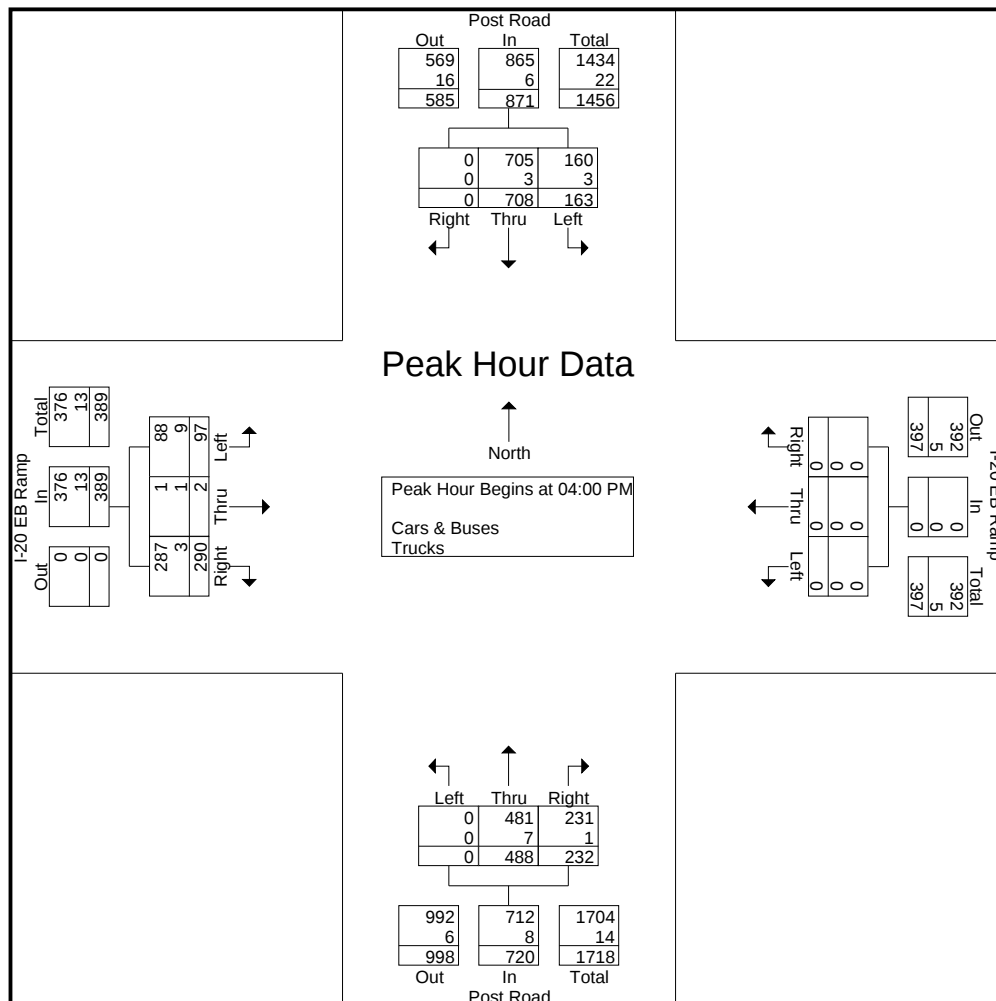
# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
Post Road @ I-20 EB Ramp  
7-9 am | 4-6 pm

File Name : 20250034  
Site Code : 20250034  
Start Date : 02-05-2025  
Page No : 3

|                                                            | Post Road Northbound |      |       |            | Post Road Southbound |      |       |            | I-20 EB Ramp Eastbound |      |       |            | I-20 EB Ramp Westbound |      |       |            |            |
|------------------------------------------------------------|----------------------|------|-------|------------|----------------------|------|-------|------------|------------------------|------|-------|------------|------------------------|------|-------|------------|------------|
| Start Time                                                 | Left                 | Thru | Right | App. Total | Left                 | Thru | Right | App. Total | Left                   | Thru | Right | App. Total | Left                   | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 |                      |      |       |            |                      |      |       |            |                        |      |       |            |                        |      |       |            |            |
| Peak Hour for Entire Intersection Begins at 04:00 PM       |                      |      |       |            |                      |      |       |            |                        |      |       |            |                        |      |       |            |            |
| 04:00 PM                                                   | 0                    | 124  | 73    | 197        | 42                   | 187  | 0     | 229        | 24                     | 0    | 78    | 102        | 0                      | 0    | 0     | 0          | 528        |
| 04:15 PM                                                   | 0                    | 111  | 50    | 161        | 47                   | 199  | 0     | 246        | 24                     | 1    | 82    | 107        | 0                      | 0    | 0     | 0          | 514        |
| 04:30 PM                                                   | 0                    | 139  | 55    | 194        | 39                   | 153  | 0     | 192        | 27                     | 0    | 70    | 97         | 0                      | 0    | 0     | 0          | 483        |
| 04:45 PM                                                   | 0                    | 114  | 54    | 168        | 35                   | 169  | 0     | 204        | 22                     | 1    | 60    | 83         | 0                      | 0    | 0     | 0          | 455        |
| Total Volume                                               | 0                    | 488  | 232   | 720        | 163                  | 708  | 0     | 871        | 97                     | 2    | 290   | 389        | 0                      | 0    | 0     | 0          | 1980       |
| % App. Total                                               | 0                    | 67.8 | 32.2  |            | 18.7                 | 81.3 | 0     |            | 24.9                   | 0.5  | 74.6  |            | 0                      | 0    | 0     |            |            |
| PHF                                                        | .000                 | .878 | .795  | .914       | .867                 | .889 | .000  | .885       | .898                   | .500 | .884  | .909       | .000                   | .000 | .000  | .000       | .938       |
| Cars & Buses                                               | 0                    | 481  | 231   | 712        | 160                  | 705  | 0     | 865        | 88                     | 1    | 287   | 376        | 0                      | 0    | 0     | 0          | 1953       |
| % Cars & Buses                                             | 0                    | 98.6 | 99.6  | 98.9       | 98.2                 | 99.6 | 0     | 99.3       | 90.7                   | 50.0 | 99.0  | 96.7       | 0                      | 0    | 0     | 0          | 98.6       |
| Trucks                                                     | 0                    | 7    | 1     | 8          | 3                    | 3    | 0     | 6          | 9                      | 1    | 3     | 13         | 0                      | 0    | 0     | 0          | 27         |
| % Trucks                                                   | 0                    | 1.4  | 0.4   | 1.1        | 1.8                  | 0.4  | 0     | 0.7        | 9.3                    | 50.0 | 1.0   | 3.3        | 0                      | 0    | 0     | 0          | 1.4        |



# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
SR 8-US 78 (Veterans Memorial Hwy) @  
Strawn Rd  
7-9am | 4-6pm

File Name : 20250033  
Site Code : 20250033  
Start Date : 02-05-2025  
Page No : 1

## Groups Printed- Cars & Buses - Trucks

|                | Strawn Rd<br>Northbound |      |       |            | Southbound |      |       |            | SR 8-US 78 (Veterans<br>Memorial Hwy)<br>Eastbound |      |       |            | SR 8-US 78 (Veterans<br>Memorial Hwy)<br>Westbound |      |       |            |            |
|----------------|-------------------------|------|-------|------------|------------|------|-------|------------|----------------------------------------------------|------|-------|------------|----------------------------------------------------|------|-------|------------|------------|
| Start Time     | Left                    | Thru | Right | App. Total | Left       | Thru | Right | App. Total | Left                                               | Thru | Right | App. Total | Left                                               | Thru | Right | App. Total | Int. Total |
| 07:00 AM       | 0                       | 0    | 0     | 0          | 2          | 0    | 1     | 3          | 7                                                  | 111  | 0     | 118        | 0                                                  | 48   | 1     | 49         | 170        |
| 07:15 AM       | 0                       | 0    | 0     | 0          | 0          | 0    | 2     | 2          | 8                                                  | 132  | 0     | 140        | 0                                                  | 81   | 4     | 85         | 227        |
| 07:30 AM       | 0                       | 0    | 0     | 0          | 5          | 0    | 4     | 9          | 12                                                 | 167  | 0     | 179        | 0                                                  | 62   | 2     | 64         | 252        |
| 07:45 AM       | 0                       | 0    | 0     | 0          | 3          | 0    | 0     | 3          | 20                                                 | 141  | 0     | 161        | 0                                                  | 70   | 8     | 78         | 242        |
| Total          | 0                       | 0    | 0     | 0          | 10         | 0    | 7     | 17         | 47                                                 | 551  | 0     | 598        | 0                                                  | 261  | 15    | 276        | 891        |
| 08:00 AM       | 0                       | 0    | 0     | 0          | 3          | 0    | 6     | 9          | 19                                                 | 115  | 0     | 134        | 0                                                  | 51   | 6     | 57         | 200        |
| 08:15 AM       | 0                       | 0    | 0     | 0          | 2          | 0    | 3     | 5          | 11                                                 | 101  | 0     | 112        | 0                                                  | 46   | 7     | 53         | 170        |
| 08:30 AM       | 0                       | 0    | 0     | 0          | 5          | 0    | 3     | 8          | 6                                                  | 83   | 0     | 89         | 0                                                  | 67   | 4     | 71         | 168        |
| 08:45 AM       | 0                       | 0    | 0     | 0          | 4          | 0    | 0     | 4          | 3                                                  | 84   | 0     | 87         | 0                                                  | 63   | 0     | 63         | 154        |
| Total          | 0                       | 0    | 0     | 0          | 14         | 0    | 12    | 26         | 39                                                 | 383  | 0     | 422        | 0                                                  | 227  | 17    | 244        | 692        |
| *** BREAK ***  |                         |      |       |            |            |      |       |            |                                                    |      |       |            |                                                    |      |       |            |            |
| 04:00 PM       | 0                       | 0    | 0     | 0          | 2          | 0    | 7     | 9          | 2                                                  | 137  | 0     | 139        | 0                                                  | 140  | 7     | 147        | 295        |
| 04:15 PM       | 0                       | 0    | 0     | 0          | 6          | 0    | 6     | 12         | 1                                                  | 104  | 0     | 105        | 0                                                  | 144  | 2     | 146        | 263        |
| 04:30 PM       | 0                       | 0    | 0     | 0          | 8          | 0    | 3     | 11         | 2                                                  | 97   | 0     | 99         | 0                                                  | 123  | 4     | 127        | 237        |
| 04:45 PM       | 0                       | 0    | 0     | 0          | 3          | 0    | 8     | 11         | 0                                                  | 89   | 0     | 89         | 0                                                  | 119  | 2     | 121        | 221        |
| Total          | 0                       | 0    | 0     | 0          | 19         | 0    | 24    | 43         | 5                                                  | 427  | 0     | 432        | 0                                                  | 526  | 15    | 541        | 1016       |
| 05:00 PM       | 0                       | 0    | 0     | 0          | 14         | 0    | 25    | 39         | 0                                                  | 89   | 0     | 89         | 0                                                  | 148  | 5     | 153        | 281        |
| 05:15 PM       | 0                       | 0    | 0     | 0          | 2          | 0    | 8     | 10         | 0                                                  | 85   | 0     | 85         | 0                                                  | 165  | 3     | 168        | 263        |
| 05:30 PM       | 0                       | 0    | 0     | 0          | 2          | 0    | 6     | 8          | 1                                                  | 83   | 0     | 84         | 0                                                  | 141  | 1     | 142        | 234        |
| 05:45 PM       | 0                       | 0    | 0     | 0          | 2          | 0    | 6     | 8          | 1                                                  | 71   | 0     | 72         | 0                                                  | 126  | 0     | 126        | 206        |
| Total          | 0                       | 0    | 0     | 0          | 20         | 0    | 45    | 65         | 2                                                  | 328  | 0     | 330        | 0                                                  | 580  | 9     | 589        | 984        |
| Grand Total    | 0                       | 0    | 0     | 0          | 63         | 0    | 88    | 151        | 93                                                 | 1689 | 0     | 1782       | 0                                                  | 1594 | 56    | 1650       | 3583       |
| Apprch %       | 0                       | 0    | 0     |            | 41.7       | 0    | 58.3  |            | 5.2                                                | 94.8 | 0     |            | 0                                                  | 96.6 | 3.4   |            |            |
| Total %        | 0                       | 0    | 0     | 0          | 1.8        | 0    | 2.5   | 4.2        | 2.6                                                | 47.1 | 0     | 49.7       | 0                                                  | 44.5 | 1.6   | 46.1       |            |
| Cars & Buses   | 0                       | 0    | 0     | 0          | 56         | 0    | 81    | 137        | 89                                                 | 1582 | 0     | 1671       | 0                                                  | 1524 | 52    | 1576       | 3384       |
| % Cars & Buses | 0                       | 0    | 0     | 0          | 88.9       | 0    | 92    | 90.7       | 95.7                                               | 93.7 | 0     | 93.8       | 0                                                  | 95.6 | 92.9  | 95.5       | 94.4       |
| Trucks         | 0                       | 0    | 0     | 0          | 7          | 0    | 7     | 14         | 4                                                  | 107  | 0     | 111        | 0                                                  | 70   | 4     | 74         | 199        |
| % Trucks       | 0                       | 0    | 0     | 0          | 11.1       | 0    | 8     | 9.3        | 4.3                                                | 6.3  | 0     | 6.2        | 0                                                  | 4.4  | 7.1   | 4.5        | 5.6        |

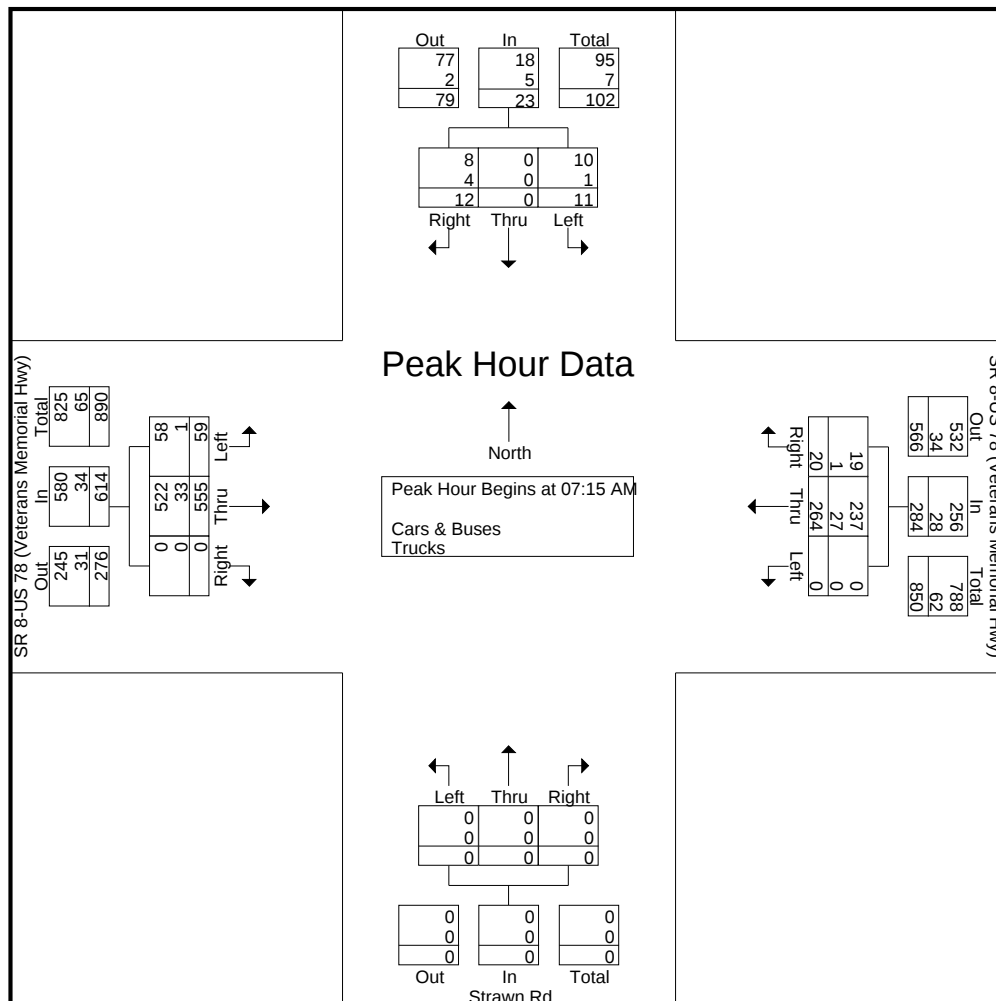
# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
SR 8-US 78 (Veterans Memorial Hwy) @  
Strawn Rd  
7-9am | 4-6pm

File Name : 20250033  
Site Code : 20250033  
Start Date : 02-05-2025  
Page No : 2

|                                                            | Strawn Rd Northbound |      |       |            | Southbound |      |       |            | SR 8-US 78 (Veterans Memorial Hwy) Eastbound |      |       |            | SR 8-US 78 (Veterans Memorial Hwy) Westbound |      |       |            |            |
|------------------------------------------------------------|----------------------|------|-------|------------|------------|------|-------|------------|----------------------------------------------|------|-------|------------|----------------------------------------------|------|-------|------------|------------|
| Start Time                                                 | Left                 | Thru | Right | App. Total | Left       | Thru | Right | App. Total | Left                                         | Thru | Right | App. Total | Left                                         | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 |                      |      |       |            |            |      |       |            |                                              |      |       |            |                                              |      |       |            |            |
| Peak Hour for Entire Intersection Begins at 07:15 AM       |                      |      |       |            |            |      |       |            |                                              |      |       |            |                                              |      |       |            |            |
| 07:15 AM                                                   | 0                    | 0    | 0     | 0          | 0          | 0    | 2     | 2          | 8                                            | 132  | 0     | 140        | 0                                            | 81   | 4     | 85         | 227        |
| 07:30 AM                                                   | 0                    | 0    | 0     | 0          | 5          | 0    | 4     | 9          | 12                                           | 167  | 0     | 179        | 0                                            | 62   | 2     | 64         | 252        |
| 07:45 AM                                                   | 0                    | 0    | 0     | 0          | 3          | 0    | 0     | 3          | 20                                           | 141  | 0     | 161        | 0                                            | 70   | 8     | 78         | 242        |
| 08:00 AM                                                   | 0                    | 0    | 0     | 0          | 3          | 0    | 6     | 9          | 19                                           | 115  | 0     | 134        | 0                                            | 51   | 6     | 57         | 200        |
| Total Volume                                               | 0                    | 0    | 0     | 0          | 11         | 0    | 12    | 23         | 59                                           | 555  | 0     | 614        | 0                                            | 264  | 20    | 284        | 921        |
| % App. Total                                               | 0                    | 0    | 0     | 0          | 47.8       | 0    | 52.2  |            | 9.6                                          | 90.4 | 0     |            | 0                                            | 93   | 7     |            |            |
| PHF                                                        | .000                 | .000 | .000  | .000       | .550       | .000 | .500  | .639       | .738                                         | .831 | .000  | .858       | .000                                         | .815 | .625  | .835       | .914       |
| Cars & Buses                                               | 0                    | 0    | 0     | 0          | 10         | 0    | 8     | 18         | 58                                           | 522  | 0     | 580        | 0                                            | 237  | 19    | 256        | 854        |
| % Cars & Buses                                             | 0                    | 0    | 0     | 0          | 90.9       | 0    | 66.7  | 78.3       | 98.3                                         | 94.1 | 0     | 94.5       | 0                                            | 89.8 | 95.0  | 90.1       | 92.7       |
| Trucks                                                     | 0                    | 0    | 0     | 0          | 1          | 0    | 4     | 5          | 1                                            | 33   | 0     | 34         | 0                                            | 27   | 1     | 28         | 67         |
| % Trucks                                                   | 0                    | 0    | 0     | 0          | 9.1        | 0    | 33.3  | 21.7       | 1.7                                          | 5.9  | 0     | 5.5        | 0                                            | 10.2 | 5.0   | 9.9        | 7.3        |



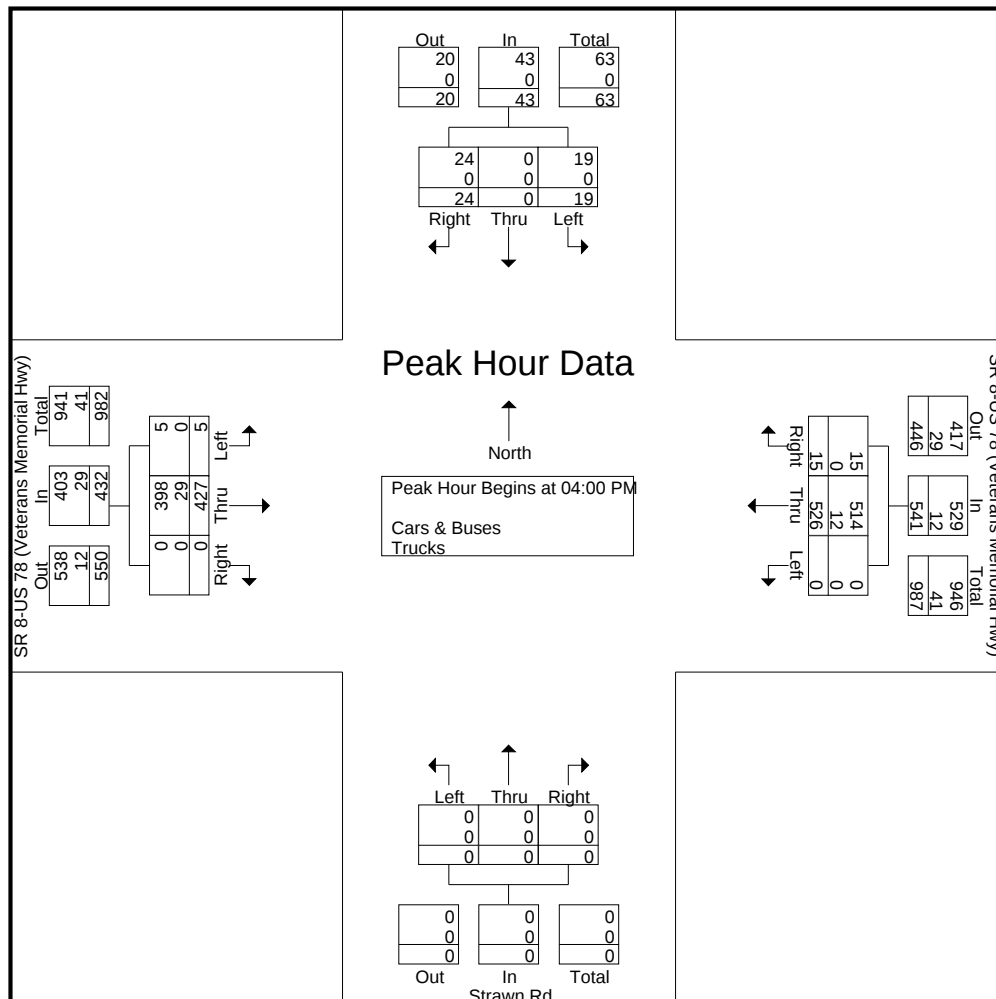
# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
SR 8-US 78 (Veterans Memorial Hwy) @  
Strawn Rd  
7-9am | 4-6pm

File Name : 20250033  
Site Code : 20250033  
Start Date : 02-05-2025  
Page No : 3

|                                                            | Strawn Rd Northbound |      |       |            | Southbound |      |       |            | SR 8-US 78 (Veterans Memorial Hwy) Eastbound |      |       |            | SR 8-US 78 (Veterans Memorial Hwy) Westbound |      |       |            |            |
|------------------------------------------------------------|----------------------|------|-------|------------|------------|------|-------|------------|----------------------------------------------|------|-------|------------|----------------------------------------------|------|-------|------------|------------|
| Start Time                                                 | Left                 | Thru | Right | App. Total | Left       | Thru | Right | App. Total | Left                                         | Thru | Right | App. Total | Left                                         | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 |                      |      |       |            |            |      |       |            |                                              |      |       |            |                                              |      |       |            |            |
| Peak Hour for Entire Intersection Begins at 04:00 PM       |                      |      |       |            |            |      |       |            |                                              |      |       |            |                                              |      |       |            |            |
| 04:00 PM                                                   | 0                    | 0    | 0     | 0          | 2          | 0    | 7     | 9          | 2                                            | 137  | 0     | 139        | 0                                            | 140  | 7     | 147        | 295        |
| 04:15 PM                                                   | 0                    | 0    | 0     | 0          | 6          | 0    | 6     | 12         | 1                                            | 104  | 0     | 105        | 0                                            | 144  | 2     | 146        | 263        |
| 04:30 PM                                                   | 0                    | 0    | 0     | 0          | 8          | 0    | 3     | 11         | 2                                            | 97   | 0     | 99         | 0                                            | 123  | 4     | 127        | 237        |
| 04:45 PM                                                   | 0                    | 0    | 0     | 0          | 3          | 0    | 8     | 11         | 0                                            | 89   | 0     | 89         | 0                                            | 119  | 2     | 121        | 221        |
| Total Volume                                               | 0                    | 0    | 0     | 0          | 19         | 0    | 24    | 43         | 5                                            | 427  | 0     | 432        | 0                                            | 526  | 15    | 541        | 1016       |
| % App. Total                                               | 0                    | 0    | 0     | 0          | 44.2       | 0    | 55.8  |            | 1.2                                          | 98.8 | 0     |            | 0                                            | 97.2 | 2.8   |            |            |
| PHF                                                        | .000                 | .000 | .000  | .000       | .594       | .000 | .750  | .896       | .625                                         | .779 | .000  | .777       | .000                                         | .913 | .536  | .920       | .861       |
| Cars & Buses                                               | 0                    | 0    | 0     | 0          | 19         | 0    | 24    | 43         | 5                                            | 398  | 0     | 403        | 0                                            | 514  | 15    | 529        | 975        |
| % Cars & Buses                                             | 0                    | 0    | 0     | 0          | 100        | 0    | 100   | 100        | 100                                          | 93.2 | 0     | 93.3       | 0                                            | 97.7 | 100   | 97.8       | 96.0       |
| Trucks                                                     | 0                    | 0    | 0     | 0          | 0          | 0    | 0     | 0          | 0                                            | 29   | 0     | 29         | 0                                            | 12   | 0     | 12         | 41         |
| % Trucks                                                   | 0                    | 0    | 0     | 0          | 0          | 0    | 0     | 0          | 0                                            | 6.8  | 0     | 6.7        | 0                                            | 2.3  | 0     | 2.2        | 4.0        |



# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data

SR 8-us 78 (Veterans Memorial Hwy) @

SR 5 (Bill Arp Road)

7-9 am | 4-6 pm

File Name : 20250032

Site Code : 20250032

Start Date : 02-05-2025

Page No : 1

## Groups Printed- Cars & Buses - Trucks

|                | SR 5 (Bill Arp Road)<br>Northbound |      |       |            | Southbound |      |       |            | SR 8-US 78 (Veterans<br>Memorial Hwy)<br>Eastbound |      |       |            | SR 8-US 78 (Veterans<br>Memorial Hwy)<br>Westbound |      |       |            |            |
|----------------|------------------------------------|------|-------|------------|------------|------|-------|------------|----------------------------------------------------|------|-------|------------|----------------------------------------------------|------|-------|------------|------------|
| Start Time     | Left                               | Thru | Right | App. Total | Left       | Thru | Right | App. Total | Left                                               | Thru | Right | App. Total | Left                                               | Thru | Right | App. Total | Int. Total |
| 07:00 AM       | 12                                 | 0    | 34    | 46         | 0          | 0    | 0     | 0          | 0                                                  | 153  | 17    | 170        | 41                                                 | 105  | 0     | 146        | 362        |
| 07:15 AM       | 14                                 | 0    | 58    | 72         | 0          | 0    | 0     | 0          | 0                                                  | 168  | 17    | 185        | 43                                                 | 139  | 0     | 182        | 439        |
| 07:30 AM       | 10                                 | 0    | 22    | 32         | 0          | 0    | 0     | 0          | 0                                                  | 186  | 33    | 219        | 55                                                 | 132  | 0     | 187        | 438        |
| 07:45 AM       | 12                                 | 0    | 33    | 45         | 0          | 0    | 0     | 0          | 0                                                  | 142  | 25    | 167        | 51                                                 | 158  | 0     | 209        | 421        |
| Total          | 48                                 | 0    | 147   | 195        | 0          | 0    | 0     | 0          | 0                                                  | 649  | 92    | 741        | 190                                                | 534  | 0     | 724        | 1660       |
| 08:00 AM       | 20                                 | 0    | 38    | 58         | 0          | 0    | 0     | 0          | 0                                                  | 130  | 16    | 146        | 48                                                 | 109  | 0     | 157        | 361        |
| 08:15 AM       | 16                                 | 0    | 27    | 43         | 0          | 0    | 0     | 0          | 0                                                  | 138  | 21    | 159        | 52                                                 | 118  | 0     | 170        | 372        |
| 08:30 AM       | 21                                 | 0    | 29    | 50         | 0          | 0    | 0     | 0          | 0                                                  | 114  | 25    | 139        | 37                                                 | 106  | 0     | 143        | 332        |
| 08:45 AM       | 23                                 | 0    | 18    | 41         | 0          | 0    | 0     | 0          | 0                                                  | 100  | 22    | 122        | 44                                                 | 103  | 0     | 147        | 310        |
| Total          | 80                                 | 0    | 112   | 192        | 0          | 0    | 0     | 0          | 0                                                  | 482  | 84    | 566        | 181                                                | 436  | 0     | 617        | 1375       |
| *** BREAK ***  |                                    |      |       |            |            |      |       |            |                                                    |      |       |            |                                                    |      |       |            |            |
| 04:00 PM       | 26                                 | 0    | 97    | 123        | 0          | 0    | 0     | 0          | 0                                                  | 199  | 30    | 229        | 48                                                 | 187  | 0     | 235        | 587        |
| 04:15 PM       | 39                                 | 0    | 88    | 127        | 0          | 0    | 0     | 0          | 0                                                  | 154  | 30    | 184        | 41                                                 | 181  | 0     | 222        | 533        |
| 04:30 PM       | 27                                 | 0    | 76    | 103        | 0          | 0    | 0     | 0          | 0                                                  | 162  | 32    | 194        | 47                                                 | 132  | 0     | 179        | 476        |
| 04:45 PM       | 35                                 | 0    | 61    | 96         | 0          | 0    | 0     | 0          | 0                                                  | 133  | 13    | 146        | 54                                                 | 176  | 0     | 230        | 472        |
| Total          | 127                                | 0    | 322   | 449        | 0          | 0    | 0     | 0          | 0                                                  | 648  | 105   | 753        | 190                                                | 676  | 0     | 866        | 2068       |
| 05:00 PM       | 47                                 | 0    | 88    | 135        | 0          | 0    | 0     | 0          | 0                                                  | 135  | 29    | 164        | 58                                                 | 152  | 0     | 210        | 509        |
| 05:15 PM       | 38                                 | 0    | 72    | 110        | 0          | 0    | 0     | 0          | 0                                                  | 147  | 19    | 166        | 37                                                 | 183  | 0     | 220        | 496        |
| 05:30 PM       | 23                                 | 0    | 61    | 84         | 0          | 0    | 0     | 0          | 0                                                  | 150  | 28    | 178        | 48                                                 | 207  | 0     | 255        | 517        |
| 05:45 PM       | 23                                 | 0    | 57    | 80         | 0          | 0    | 0     | 0          | 0                                                  | 127  | 12    | 139        | 56                                                 | 168  | 0     | 224        | 443        |
| Total          | 131                                | 0    | 278   | 409        | 0          | 0    | 0     | 0          | 0                                                  | 559  | 88    | 647        | 199                                                | 710  | 0     | 909        | 1965       |
| Grand Total    | 386                                | 0    | 859   | 1245       | 0          | 0    | 0     | 0          | 0                                                  | 2338 | 369   | 2707       | 760                                                | 2356 | 0     | 3116       | 7068       |
| Apprch %       | 31                                 | 0    | 69    |            | 0          | 0    | 0     |            | 0                                                  | 86.4 | 13.6  |            | 24.4                                               | 75.6 | 0     |            |            |
| Total %        | 5.5                                | 0    | 12.2  | 17.6       | 0          | 0    | 0     | 0          | 0                                                  | 33.1 | 5.2   | 38.3       | 10.8                                               | 33.3 | 0     | 44.1       |            |
| Cars & Buses   | 310                                | 0    | 842   | 1152       | 0          | 0    | 0     | 0          | 0                                                  | 2179 | 322   | 2501       | 735                                                | 2218 | 0     | 2953       | 6606       |
| % Cars & Buses | 80.3                               | 0    | 98    | 92.5       | 0          | 0    | 0     | 0          | 0                                                  | 93.2 | 87.3  | 92.4       | 96.7                                               | 94.1 | 0     | 94.8       | 93.5       |
| Trucks         | 76                                 | 0    | 17    | 93         | 0          | 0    | 0     | 0          | 0                                                  | 159  | 47    | 206        | 25                                                 | 138  | 0     | 163        | 462        |
| % Trucks       | 19.7                               | 0    | 2     | 7.5        | 0          | 0    | 0     | 0          | 0                                                  | 6.8  | 12.7  | 7.6        | 3.3                                                | 5.9  | 0     | 5.2        | 6.5        |

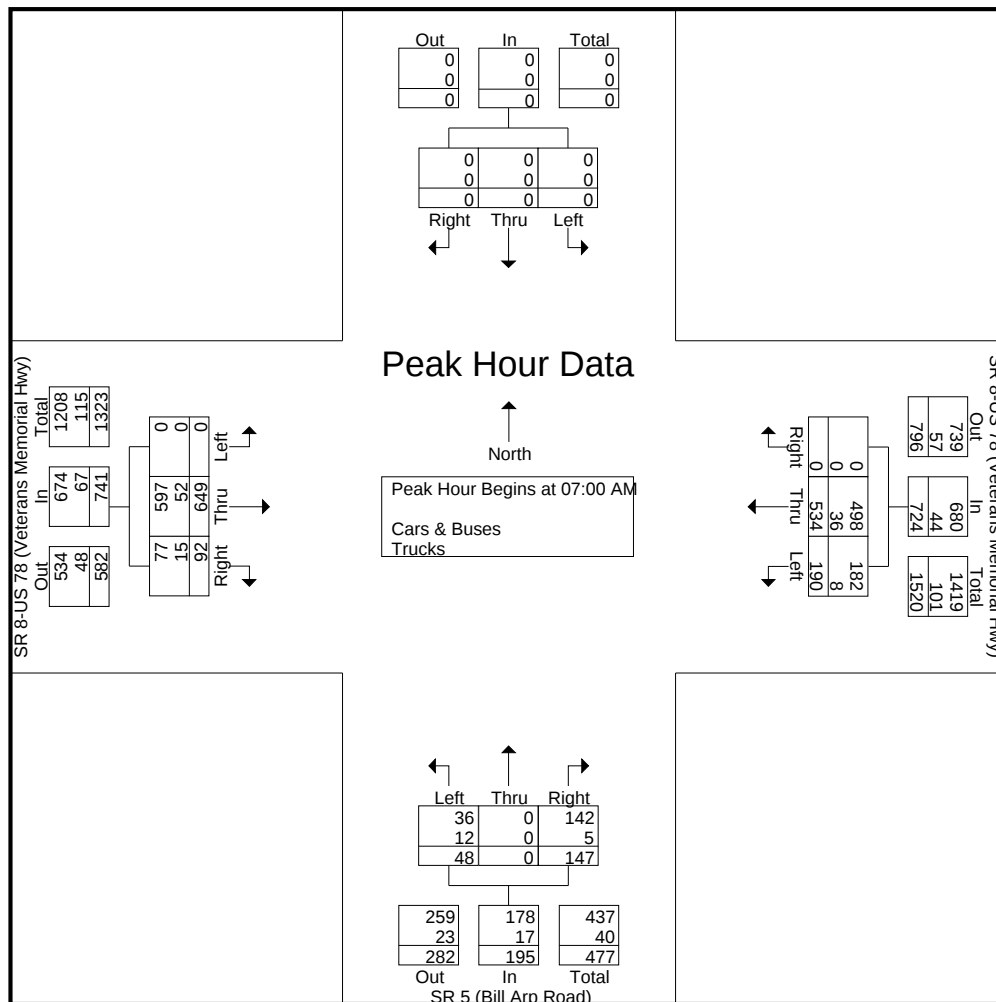
# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
SR 8-us 78 (Veterans Memorial Hwy) @  
SR 5 (Bill Arp Road)  
7-9 am | 4-6 pm

File Name : 20250032  
Site Code : 20250032  
Start Date : 02-05-2025  
Page No : 2

|                                                            | SR 5 (Bill Arp Road)<br>Northbound |      |       |            | Southbound |      |       |            | SR 8-US 78 (Veterans<br>Memorial Hwy)<br>Eastbound |      |       |            | SR 8-US 78 (Veterans<br>Memorial Hwy)<br>Westbound |      |       |            |            |
|------------------------------------------------------------|------------------------------------|------|-------|------------|------------|------|-------|------------|----------------------------------------------------|------|-------|------------|----------------------------------------------------|------|-------|------------|------------|
| Start Time                                                 | Left                               | Thru | Right | App. Total | Left       | Thru | Right | App. Total | Left                                               | Thru | Right | App. Total | Left                                               | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 |                                    |      |       |            |            |      |       |            |                                                    |      |       |            |                                                    |      |       |            |            |
| Peak Hour for Entire Intersection Begins at 07:00 AM       |                                    |      |       |            |            |      |       |            |                                                    |      |       |            |                                                    |      |       |            |            |
| 07:00 AM                                                   | 12                                 | 0    | 34    | 46         | 0          | 0    | 0     | 0          | 0                                                  | 153  | 17    | 170        | 41                                                 | 105  | 0     | 146        | 362        |
| 07:15 AM                                                   | 14                                 | 0    | 58    | 72         | 0          | 0    | 0     | 0          | 0                                                  | 168  | 17    | 185        | 43                                                 | 139  | 0     | 182        | 439        |
| 07:30 AM                                                   | 10                                 | 0    | 22    | 32         | 0          | 0    | 0     | 0          | 0                                                  | 186  | 33    | 219        | 55                                                 | 132  | 0     | 187        | 438        |
| 07:45 AM                                                   | 12                                 | 0    | 33    | 45         | 0          | 0    | 0     | 0          | 0                                                  | 142  | 25    | 167        | 51                                                 | 158  | 0     | 209        | 421        |
| Total Volume                                               | 48                                 | 0    | 147   | 195        | 0          | 0    | 0     | 0          | 0                                                  | 649  | 92    | 741        | 190                                                | 534  | 0     | 724        | 1660       |
| % App. Total                                               | 24.6                               | 0    | 75.4  |            | 0          | 0    | 0     |            | 0                                                  | 87.6 | 12.4  |            | 26.2                                               | 73.8 | 0     |            |            |
| PHF                                                        | .857                               | .000 | .634  | .677       | .000       | .000 | .000  | .000       | .000                                               | .872 | .697  | .846       | .864                                               | .845 | .000  | .866       | .945       |
| Cars & Buses                                               | 36                                 | 0    | 142   | 178        | 0          | 0    | 0     | 0          | 0                                                  | 597  | 77    | 674        | 182                                                | 498  | 0     | 680        | 1532       |
| % Cars & Buses                                             | 75.0                               | 0    | 96.6  | 91.3       | 0          | 0    | 0     | 0          | 0                                                  | 92.0 | 83.7  | 91.0       | 95.8                                               | 93.3 | 0     | 93.9       | 92.3       |
| Trucks                                                     | 12                                 | 0    | 5     | 17         | 0          | 0    | 0     | 0          | 0                                                  | 52   | 15    | 67         | 8                                                  | 36   | 0     | 44         | 128        |
| % Trucks                                                   | 25.0                               | 0    | 3.4   | 8.7        | 0          | 0    | 0     | 0          | 0                                                  | 8.0  | 16.3  | 9.0        | 4.2                                                | 6.7  | 0     | 6.1        | 7.7        |



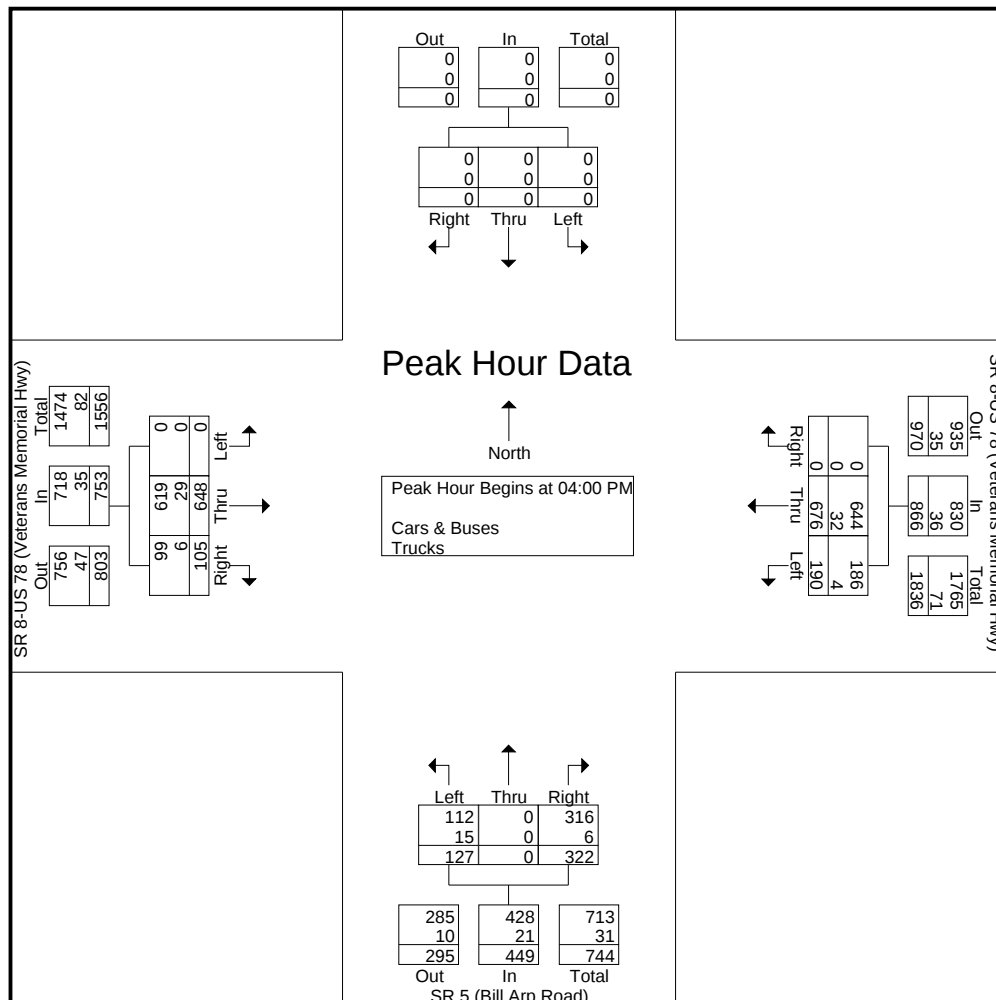
# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
SR 8-us 78 (Veterans Memorial Hwy) @  
SR 5 (Bill Arp Road)  
7-9 am | 4-6 pm

File Name : 20250032  
Site Code : 20250032  
Start Date : 02-05-2025  
Page No : 3

|                                                            | SR 5 (Bill Arp Road)<br>Northbound |      |       |            | Southbound |      |       |            | SR 8-US 78 (Veterans<br>Memorial Hwy)<br>Eastbound |      |       |            | SR 8-US 78 (Veterans<br>Memorial Hwy)<br>Westbound |      |       |            |            |
|------------------------------------------------------------|------------------------------------|------|-------|------------|------------|------|-------|------------|----------------------------------------------------|------|-------|------------|----------------------------------------------------|------|-------|------------|------------|
| Start Time                                                 | Left                               | Thru | Right | App. Total | Left       | Thru | Right | App. Total | Left                                               | Thru | Right | App. Total | Left                                               | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 |                                    |      |       |            |            |      |       |            |                                                    |      |       |            |                                                    |      |       |            |            |
| Peak Hour for Entire Intersection Begins at 04:00 PM       |                                    |      |       |            |            |      |       |            |                                                    |      |       |            |                                                    |      |       |            |            |
| 04:00 PM                                                   | 26                                 | 0    | 97    | 123        | 0          | 0    | 0     | 0          | 0                                                  | 199  | 30    | 229        | 48                                                 | 187  | 0     | 235        | 587        |
| 04:15 PM                                                   | 39                                 | 0    | 88    | 127        | 0          | 0    | 0     | 0          | 0                                                  | 154  | 30    | 184        | 41                                                 | 181  | 0     | 222        | 533        |
| 04:30 PM                                                   | 27                                 | 0    | 76    | 103        | 0          | 0    | 0     | 0          | 0                                                  | 162  | 32    | 194        | 47                                                 | 132  | 0     | 179        | 476        |
| 04:45 PM                                                   | 35                                 | 0    | 61    | 96         | 0          | 0    | 0     | 0          | 0                                                  | 133  | 13    | 146        | 54                                                 | 176  | 0     | 230        | 472        |
| Total Volume                                               | 127                                | 0    | 322   | 449        | 0          | 0    | 0     | 0          | 0                                                  | 648  | 105   | 753        | 190                                                | 676  | 0     | 866        | 2068       |
| % App. Total                                               | 28.3                               | 0    | 71.7  |            | 0          | 0    | 0     |            | 0                                                  | 86.1 | 13.9  |            | 21.9                                               | 78.1 | 0     |            |            |
| PHF                                                        | .814                               | .000 | .830  | .884       | .000       | .000 | .000  | .000       | .000                                               | .814 | .820  | .822       | .880                                               | .904 | .000  | .921       | .881       |
| Cars & Buses                                               | 112                                | 0    | 316   | 428        | 0          | 0    | 0     | 0          | 0                                                  | 619  | 99    | 718        | 186                                                | 644  | 0     | 830        | 1976       |
| % Cars & Buses                                             | 88.2                               | 0    | 98.1  | 95.3       | 0          | 0    | 0     | 0          | 0                                                  | 95.5 | 94.3  | 95.4       | 97.9                                               | 95.3 | 0     | 95.8       | 95.6       |
| Trucks                                                     | 15                                 | 0    | 6     | 21         | 0          | 0    | 0     | 0          | 0                                                  | 29   | 6     | 35         | 4                                                  | 32   | 0     | 36         | 92         |
| % Trucks                                                   | 11.8                               | 0    | 1.9   | 4.7        | 0          | 0    | 0     | 0          | 0                                                  | 4.5  | 5.7   | 4.6        | 2.1                                                | 4.7  | 0     | 4.2        | 4.4        |



# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
SR 8-US 78 (Veterans Memorial Hwy) @  
John West Rd  
7-9am | 4-6pm

File Name : 20250031  
Site Code : 20250031  
Start Date : 02-05-2025  
Page No : 1

## Groups Printed- Cars & Buses - Trucks

| Start Time     | John West Rd Northbound |      |       |            | Southbound |      |       |            | SR 8-US 78 (Veterans Memorial Hwy) Eastbound |      |       |            | SR 8-US 78 (Veterans Memorial Hwy) Westbound |      |       |            | Int. Total |
|----------------|-------------------------|------|-------|------------|------------|------|-------|------------|----------------------------------------------|------|-------|------------|----------------------------------------------|------|-------|------------|------------|
|                | Left                    | Thru | Right | App. Total | Left       | Thru | Right | App. Total | Left                                         | Thru | Right | App. Total | Left                                         | Thru | Right | App. Total |            |
| 07:00 AM       | 12                      | 0    | 0     | 12         | 0          | 0    | 0     | 0          | 0                                            | 101  | 20    | 121        | 1                                            | 37   | 0     | 38         | 171        |
| 07:15 AM       | 15                      | 0    | 4     | 19         | 0          | 0    | 0     | 0          | 0                                            | 110  | 21    | 131        | 1                                            | 65   | 0     | 66         | 216        |
| 07:30 AM       | 15                      | 0    | 1     | 16         | 0          | 0    | 0     | 0          | 0                                            | 144  | 29    | 173        | 1                                            | 50   | 0     | 51         | 240        |
| 07:45 AM       | 22                      | 0    | 2     | 24         | 0          | 0    | 0     | 0          | 0                                            | 129  | 13    | 142        | 1                                            | 55   | 0     | 56         | 222        |
| Total          | 64                      | 0    | 7     | 71         | 0          | 0    | 0     | 0          | 0                                            | 484  | 83    | 567        | 4                                            | 207  | 0     | 211        | 849        |
| 08:00 AM       | 13                      | 0    | 2     | 15         | 0          | 0    | 0     | 0          | 0                                            | 114  | 19    | 133        | 3                                            | 44   | 0     | 47         | 195        |
| 08:15 AM       | 7                       | 0    | 2     | 9          | 0          | 0    | 0     | 0          | 0                                            | 88   | 17    | 105        | 1                                            | 45   | 0     | 46         | 160        |
| 08:30 AM       | 21                      | 0    | 2     | 23         | 0          | 0    | 0     | 0          | 0                                            | 78   | 19    | 97         | 1                                            | 51   | 0     | 52         | 172        |
| 08:45 AM       | 14                      | 0    | 1     | 15         | 0          | 0    | 0     | 0          | 0                                            | 77   | 14    | 91         | 2                                            | 49   | 0     | 51         | 157        |
| Total          | 55                      | 0    | 7     | 62         | 0          | 0    | 0     | 0          | 0                                            | 357  | 69    | 426        | 7                                            | 189  | 0     | 196        | 684        |
| *** BREAK ***  |                         |      |       |            |            |      |       |            |                                              |      |       |            |                                              |      |       |            |            |
| 04:00 PM       | 34                      | 0    | 3     | 37         | 0          | 0    | 0     | 0          | 0                                            | 110  | 25    | 135        | 1                                            | 108  | 0     | 109        | 281        |
| 04:15 PM       | 41                      | 0    | 2     | 43         | 0          | 0    | 0     | 0          | 0                                            | 81   | 28    | 109        | 3                                            | 112  | 0     | 115        | 267        |
| 04:30 PM       | 32                      | 0    | 1     | 33         | 0          | 0    | 0     | 0          | 0                                            | 76   | 37    | 113        | 3                                            | 96   | 0     | 99         | 245        |
| 04:45 PM       | 38                      | 0    | 6     | 44         | 0          | 0    | 0     | 0          | 0                                            | 68   | 25    | 93         | 3                                            | 87   | 0     | 90         | 227        |
| Total          | 145                     | 0    | 12    | 157        | 0          | 0    | 0     | 0          | 0                                            | 335  | 115   | 450        | 10                                           | 403  | 0     | 413        | 1020       |
| 05:00 PM       | 39                      | 0    | 2     | 41         | 0          | 0    | 0     | 0          | 0                                            | 69   | 33    | 102        | 0                                            | 114  | 0     | 114        | 257        |
| 05:15 PM       | 43                      | 0    | 2     | 45         | 0          | 0    | 0     | 0          | 0                                            | 67   | 20    | 87         | 1                                            | 131  | 0     | 132        | 264        |
| 05:30 PM       | 36                      | 0    | 3     | 39         | 0          | 0    | 0     | 0          | 0                                            | 66   | 21    | 87         | 8                                            | 111  | 0     | 119        | 245        |
| 05:45 PM       | 37                      | 0    | 3     | 40         | 0          | 0    | 0     | 0          | 0                                            | 41   | 27    | 68         | 5                                            | 101  | 0     | 106        | 214        |
| Total          | 155                     | 0    | 10    | 165        | 0          | 0    | 0     | 0          | 0                                            | 243  | 101   | 344        | 14                                           | 457  | 0     | 471        | 980        |
| Grand Total    | 419                     | 0    | 36    | 455        | 0          | 0    | 0     | 0          | 0                                            | 1419 | 368   | 1787       | 35                                           | 1256 | 0     | 1291       | 3533       |
| Apprch %       | 92.1                    | 0    | 7.9   |            | 0          | 0    | 0     |            | 0                                            | 79.4 | 20.6  |            | 2.7                                          | 97.3 | 0     |            |            |
| Total %        | 11.9                    | 0    | 1     | 12.9       | 0          | 0    | 0     | 0          | 0                                            | 40.2 | 10.4  | 50.6       | 1                                            | 35.6 | 0     | 36.5       |            |
| Cars & Buses   | 419                     | 0    | 36    | 455        | 0          | 0    | 0     | 0          | 0                                            | 1300 | 364   | 1664       | 35                                           | 1177 | 0     | 1212       | 3331       |
| % Cars & Buses | 100                     | 0    | 100   | 100        | 0          | 0    | 0     | 0          | 0                                            | 91.6 | 98.9  | 93.1       | 100                                          | 93.7 | 0     | 93.9       | 94.3       |
| Trucks         | 0                       | 0    | 0     | 0          | 0          | 0    | 0     | 0          | 0                                            | 119  | 4     | 123        | 0                                            | 79   | 0     | 79         | 202        |
| % Trucks       | 0                       | 0    | 0     | 0          | 0          | 0    | 0     | 0          | 0                                            | 8.4  | 1.1   | 6.9        | 0                                            | 6.3  | 0     | 6.1        | 5.7        |

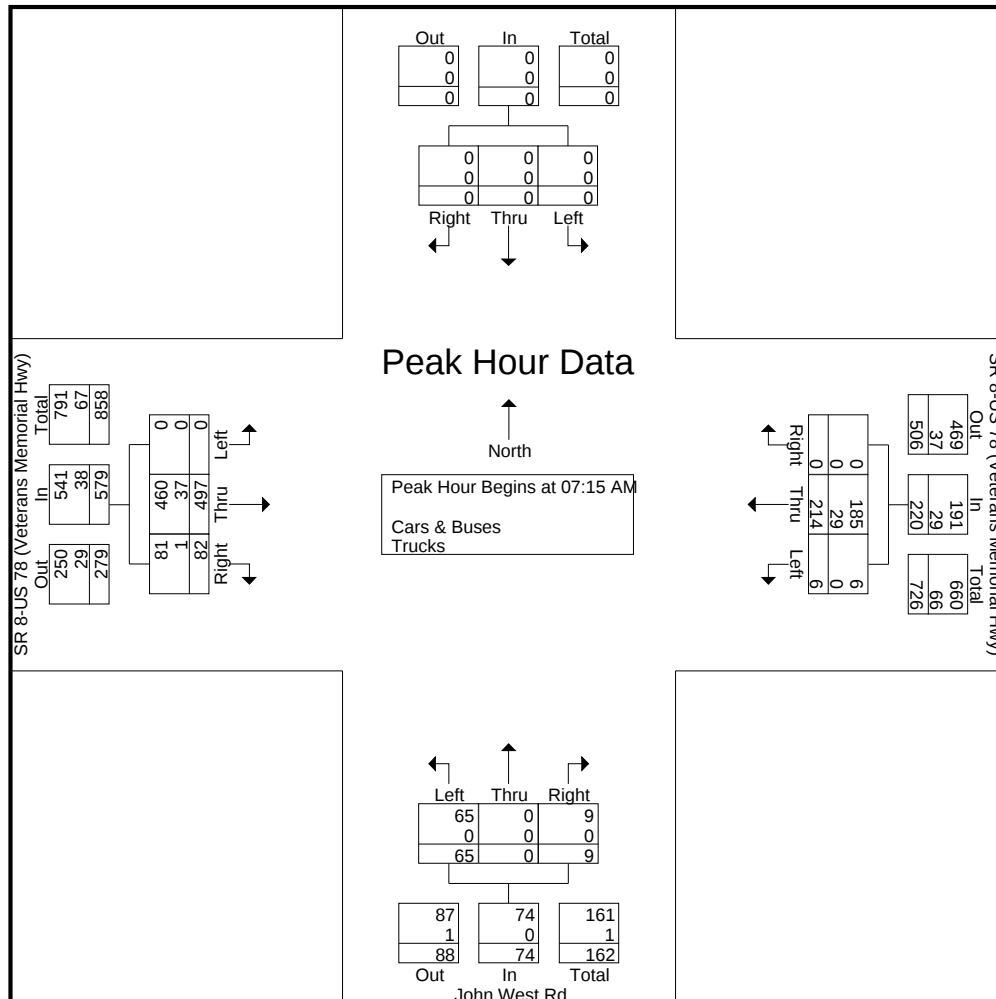
# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
SR 8-US 78 (Veterans Memorial Hwy) @  
John West Rd  
7-9am | 4-6pm

File Name : 20250031  
Site Code : 20250031  
Start Date : 02-05-2025  
Page No : 2

|                                                            | John West Rd Northbound |      |       |            | Southbound |      |       |            | SR 8-US 78 (Veterans Memorial Hwy) Eastbound |      |       |            | SR 8-US 78 (Veterans Memorial Hwy) Westbound |      |       |            |            |
|------------------------------------------------------------|-------------------------|------|-------|------------|------------|------|-------|------------|----------------------------------------------|------|-------|------------|----------------------------------------------|------|-------|------------|------------|
| Start Time                                                 | Left                    | Thru | Right | App. Total | Left       | Thru | Right | App. Total | Left                                         | Thru | Right | App. Total | Left                                         | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 |                         |      |       |            |            |      |       |            |                                              |      |       |            |                                              |      |       |            |            |
| Peak Hour for Entire Intersection Begins at 07:15 AM       |                         |      |       |            |            |      |       |            |                                              |      |       |            |                                              |      |       |            |            |
| 07:15 AM                                                   | 15                      | 0    | 4     | 19         | 0          | 0    | 0     | 0          | 0                                            | 110  | 21    | 131        | 1                                            | 65   | 0     | 66         | 216        |
| 07:30 AM                                                   | 15                      | 0    | 1     | 16         | 0          | 0    | 0     | 0          | 0                                            | 144  | 29    | 173        | 1                                            | 50   | 0     | 51         | 240        |
| 07:45 AM                                                   | 22                      | 0    | 2     | 24         | 0          | 0    | 0     | 0          | 0                                            | 129  | 13    | 142        | 1                                            | 55   | 0     | 56         | 222        |
| 08:00 AM                                                   | 13                      | 0    | 2     | 15         | 0          | 0    | 0     | 0          | 0                                            | 114  | 19    | 133        | 3                                            | 44   | 0     | 47         | 195        |
| Total Volume                                               | 65                      | 0    | 9     | 74         | 0          | 0    | 0     | 0          | 0                                            | 497  | 82    | 579        | 6                                            | 214  | 0     | 220        | 873        |
| % App. Total                                               | 87.8                    | 0    | 12.2  |            | 0          | 0    | 0     |            | 0                                            | 85.8 | 14.2  |            | 2.7                                          | 97.3 | 0     |            |            |
| PHF                                                        | .739                    | .000 | .563  | .771       | .000       | .000 | .000  | .000       | .000                                         | .863 | .707  | .837       | .500                                         | .823 | .000  | .833       | .909       |
| Cars & Buses                                               | 65                      | 0    | 9     | 74         | 0          | 0    | 0     | 0          | 0                                            | 460  | 81    | 541        | 6                                            | 185  | 0     | 191        | 806        |
| % Cars & Buses                                             | 100                     | 0    | 100   | 100        | 0          | 0    | 0     | 0          | 0                                            | 92.6 | 98.8  | 93.4       | 100                                          | 86.4 | 0     | 86.8       | 92.3       |
| Trucks                                                     | 0                       | 0    | 0     | 0          | 0          | 0    | 0     | 0          | 0                                            | 37   | 1     | 38         | 0                                            | 29   | 0     | 29         | 67         |
| % Trucks                                                   | 0                       | 0    | 0     | 0          | 0          | 0    | 0     | 0          | 0                                            | 7.4  | 1.2   | 6.6        | 0                                            | 13.6 | 0     | 13.2       | 7.7        |



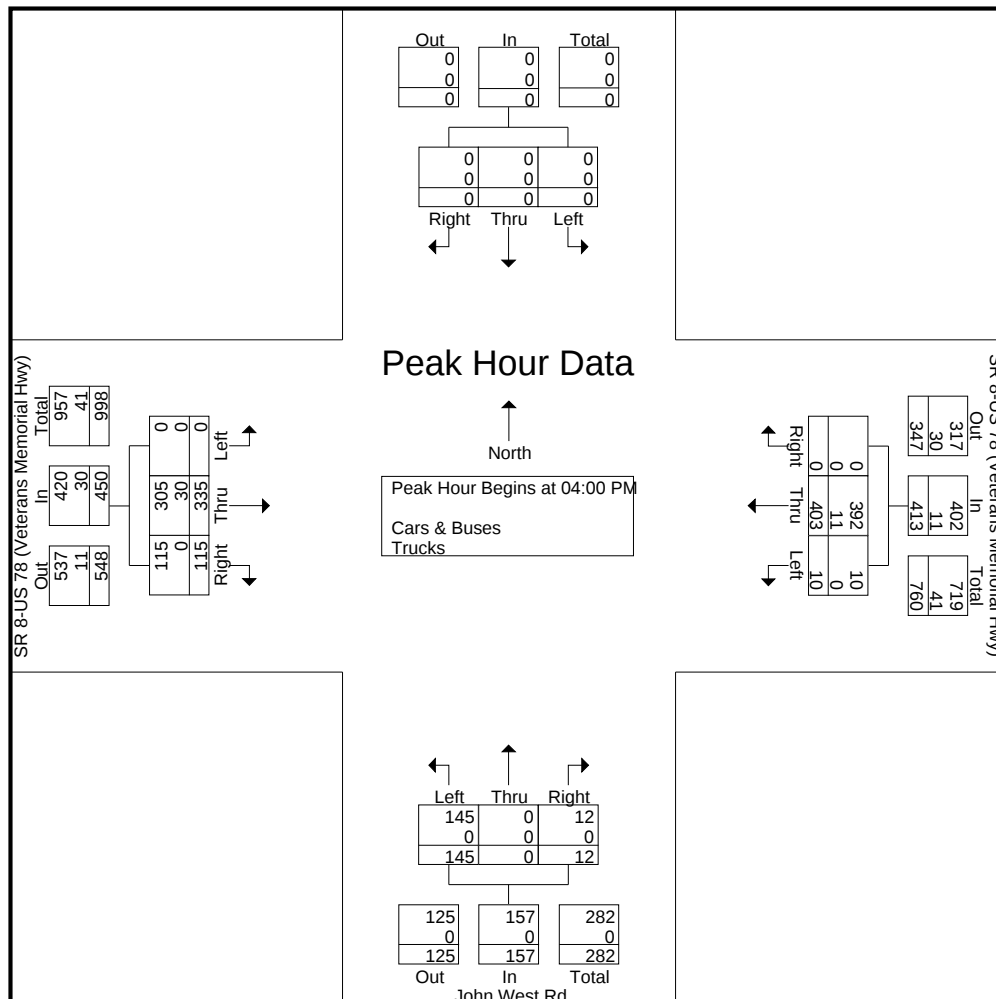
# A & R Engineering, Inc.

2160 Kingston Court Suite 'O'  
Marietta, GA 30067

TMC Data  
SR 8-US 78 (Veterans Memorial Hwy) @  
John West Rd  
7-9am | 4-6pm

File Name : 20250031  
Site Code : 20250031  
Start Date : 02-05-2025  
Page No : 3

|                                                            | John West Rd Northbound |      |       |            | Southbound |      |       |            | SR 8-US 78 (Veterans Memorial Hwy) Eastbound |      |       |            | SR 8-US 78 (Veterans Memorial Hwy) Westbound |      |       |            |            |
|------------------------------------------------------------|-------------------------|------|-------|------------|------------|------|-------|------------|----------------------------------------------|------|-------|------------|----------------------------------------------|------|-------|------------|------------|
| Start Time                                                 | Left                    | Thru | Right | App. Total | Left       | Thru | Right | App. Total | Left                                         | Thru | Right | App. Total | Left                                         | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 |                         |      |       |            |            |      |       |            |                                              |      |       |            |                                              |      |       |            |            |
| Peak Hour for Entire Intersection Begins at 04:00 PM       |                         |      |       |            |            |      |       |            |                                              |      |       |            |                                              |      |       |            |            |
| 04:00 PM                                                   | 34                      | 0    | 3     | 37         | 0          | 0    | 0     | 0          | 0                                            | 110  | 25    | 135        | 1                                            | 108  | 0     | 109        | 281        |
| 04:15 PM                                                   | 41                      | 0    | 2     | 43         | 0          | 0    | 0     | 0          | 0                                            | 81   | 28    | 109        | 3                                            | 112  | 0     | 115        | 267        |
| 04:30 PM                                                   | 32                      | 0    | 1     | 33         | 0          | 0    | 0     | 0          | 0                                            | 76   | 37    | 113        | 3                                            | 96   | 0     | 99         | 245        |
| 04:45 PM                                                   | 38                      | 0    | 6     | 44         | 0          | 0    | 0     | 0          | 0                                            | 68   | 25    | 93         | 3                                            | 87   | 0     | 90         | 227        |
| Total Volume                                               | 145                     | 0    | 12    | 157        | 0          | 0    | 0     | 0          | 0                                            | 335  | 115   | 450        | 10                                           | 403  | 0     | 413        | 1020       |
| % App. Total                                               | 92.4                    | 0    | 7.6   |            | 0          | 0    | 0     |            | 0                                            | 74.4 | 25.6  |            | 2.4                                          | 97.6 | 0     |            |            |
| PHF                                                        | .884                    | .000 | .500  | .892       | .000       | .000 | .000  | .000       | .000                                         | .761 | .777  | .833       | .833                                         | .900 | .000  | .898       | .907       |
| Cars & Buses                                               | 145                     | 0    | 12    | 157        | 0          | 0    | 0     | 0          | 0                                            | 305  | 115   | 420        | 10                                           | 392  | 0     | 402        | 979        |
| % Cars & Buses                                             | 100                     | 0    | 100   | 100        | 0          | 0    | 0     | 0          | 0                                            | 91.0 | 100   | 93.3       | 100                                          | 97.3 | 0     | 97.3       | 96.0       |
| Trucks                                                     | 0                       | 0    | 0     | 0          | 0          | 0    | 0     | 0          | 0                                            | 30   | 0     | 30         | 0                                            | 11   | 0     | 11         | 41         |
| % Trucks                                                   | 0                       | 0    | 0     | 0          | 0          | 0    | 0     | 0          | 0                                            | 9.0  | 0     | 6.7        | 0                                            | 2.7  | 0     | 2.7        | 4.0        |



## **GRTA Letter of Understanding**



## LETTER OF UNDERSTANDING

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March 4th, 2025

SDC ATLA, LLC  
2001 Ross Avenue Suite 400  
Dallas, TX 7520

**RE: Stream Data Center (DRI#: 4334) (Build-out Year Revision)**

The purpose of this Letter of Understanding is to document the discussions during the Methodology Meeting held virtually on January 27, 2025 regarding **Stream Data Center (DRI# 4334)** Development of Regional Impact (DRI). The *GRTA DRI Review Procedures*, as well as the inputs and parameters documented in this Letter of Understanding and the revised Methodology Meeting Packet, shall be adhered to in preparing the GRTA required Transportation Study.

### PROJECT OVERVIEW

- The proposed site is located at 33°44'11"N, 84°48'43"W.
- The proposed development includes 1,343,700 square feet data center.
- The projected build-out is one phase to be completed by 2035.
- The proposed development includes (2) site access along N. Baggett Road for cars only and Jason Industrial Parkway, for both cars and trucks.
- The DRI trigger for this development is a Rezoning and Special Use Permit.
- The vehicular trip generation is estimated to be 1,330 net daily trips based on the *ITE Trip Generation Manual 11<sup>th</sup> edition*.
- The applicant is applying for approval under GRTA's expedited Traffic Impact Study review process.

### STUDY NETWORK

1. SR 8/US 78 (Veterans Memorial Highway) at SR 5 (Bill Arp Road)
2. SR 8/US 78 (Veterans Memorial Highway) at N. Baggett Road (east end)
3. SR 8/US 78 (Veterans Memorial Highway) at N. Baggett Road / S. Baggett Road
4. SR 8/US 78 (Veterans Memorial Highway) at Strawn Road
5. SR 8/US 78 (Veterans Memorial Highway) at Post Road / Mann Road
6. SR 8/US 78 (Veterans Memorial Highway) at John West Road
7. Post Road at I-20 Westbound Ramps
8. Post Road at I-20 Eastbound Ramps
9. N. Baggett Road at Proposed Site Driveway 1
10. Jason Industrial Parkway at Proposed Site Driveway 2

### METHODOLOGY MEETING PACKET INPUTS & PARAMETERS

- The Site Plan shall meet all the applicable requirements in Section 7.1 of the *GRTA DRI Review Procedures*.
- All Study Network intersections shall be analyzed during the AM and PM peak hours for (1) existing conditions, (2) future "no-build" conditions, and (3) future "build" conditions as specified in the *GRTA DRI Review Procedures*.

- This DRI shall be modeled and reviewed in one phase to be completed by 2035.
- The Level of Service (LOS) standard for all analysis shall be LOS D unless specified otherwise in Section 3.2.2.1. For example, a LOS E standard is allowed if the existing LOS for the intersection or approach is a LOS F.
- Default values should not be assumed in the traffic modeling. Existing conditions shall be taken into account as required in Section 3.2.2.
- The trip generation calculations in the revised Methodology Meeting Packet shall be used in the Transportation Study. Mixed-use and pass-by reductions are not allowed for this site. Pass-by reductions shall not exceed 15% of a roadway's traffic volume standard established in Appendix 7.2.
- The trip assignment approach in the revised Methodology Meeting Packet shall be utilized for all Study Network intersection movements.
- The applicant shall research TIP, STIP, RTP and GDOT's construction work program, as well as any local government and transit operator plans (SPLOST, CIP, etc.), to determine the open date, sponsor, cost of the project, funding source(s), for future roadway projects in the project vicinity. Programmed transportation projects anticipated to open on or before the Build Out year of the DRI Project shall be modeled as completed in the No-Build and Build conditions unless approved otherwise.
- A 2.0% annual traffic Background Growth Rate shall be used for all roadways.
- Capacity analysis shall be based on turning movement counts collected not more than 12-months prior to the date of the actual DRI submittal to GRTA, unless specified otherwise. As specified in Section 2.3, turning movement counts shall be collected while local schools are in session, on a Tuesday, Wednesday or Thursday (unless approved otherwise) and not during holiday periods (weeks of July 4<sup>th</sup>, Thanksgiving and +/- 5 days of Christmas).
- If the *GRTA DRI Review Procedures* requires an Enhanced Focus Area for Heavy Vehicles or an Enhanced Focus Area for Dense Urban Environments, the Transportation Study shall incorporate the inputs and parameters agreed to at the Methodology Meeting and documented in the revised Methodology Meeting Packet. These inputs may include a Heavy Vehicle modeling percentages, a Heavy Vehicle route map, a pedestrian crosswalk delay adjustment and a bus blockage adjustment factor.

#### ADDITIONAL REQUIREMENTS

**All applicable requirements of the *GRTA DRI Review Procedures* must be met for the Transportation Study to be considered complete.** The *GRTA DRI Review Procedures* are located on GRTA's DRI website: <https://www.srta.ga.gov/programs-projects/dev-of-regional-impact/> Contact GRTA staff if you have any questions on these requirements.

The Transportation Study shall also include as attachments the native LOS modeling file (i.e., Synchro modeling files) as well as the modeling reports (PDFs) for all Study Network intersections for the Existing, No-Build and Build conditions for all phases. The PDF reports shall be numbered (in page headers) and organized in order according to the Study Network numbering sequence in this Letter of Understanding. The reports shall also be organized in the following sequence: *Existing condition AM, Existing condition PM, No-build condition AM, No-Build condition PM, Build condition AM, Build condition PM*. If improvements are modeled, those PDFs shall be labeled as such and follow the appropriate condition's applicable peak period.

The Transportation Study appendices shall also include all turning movement count data, regardless of if using historic data or newly collected turning movement counts.

When documenting any Queue Length impacts required in Section 3.2.3.6, the TIS Executive Summary shall also note any individual *movements* not meeting the LOS standard where the DRI Project adds trips in the Build condition and exceeds available storage capacity for that movement.

When identifying mitigations in the existing, no-build and build conditions, the mitigations identified in preceding conditions shall not be modeled as complete when conducting the LOS analysis. The same mitigation may still be proposed as mitigation in the subsequent condition but it shall not be included as completed in the default analysis. For example, a turn lane may be identified as a needed improvement in the no-build condition. The turn lane should not be modeled as completed in the build condition. The turn lane should only be modeled as complete in the no-build with improvements condition and the build with improvements condition.

#### DRI REVIEW PACKAGE SUBMITTAL

GRTA will begin reviewing the DRI once the DRI Review Package is submitted and deemed complete. The DRI Review Package includes: the permitting Local Government inputting both Department of Community Affairs (DCA) forms into the DCA DRI website; and the **Traffic Engineer submittal of the GRTA Transportation Study (including LOS appendices, traffic count data and any other required attachments) and Site Plan to GRTA staff and ALL stakeholders included in the CC list of this Letter of Understanding.**

All DRI Review Packages shall be submitted electronically via email to all stakeholders in the CC list of the Letter of Understanding. If the DRI Review Package total file size is greater than 10 MB, the DRI Review Package shall be submitted via email with a FTP link provided for downloading the files.

Please contact me if you have any questions about the Letter of Understanding or the *GRTA DRI Review Procedures*.

Sincerely,

Derrick A. Peevy Jr. AICP  
DRI Planner  
SRTA/GRTA

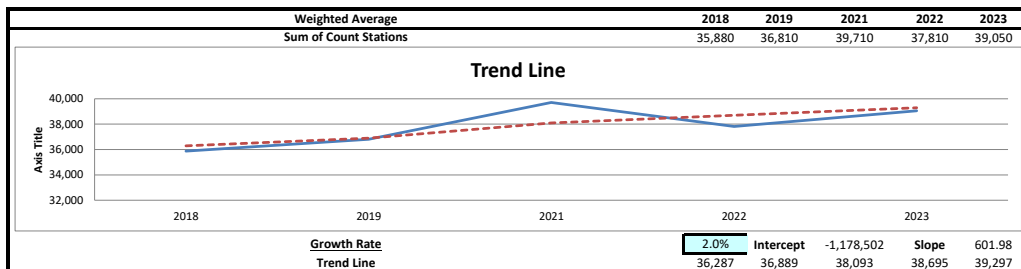
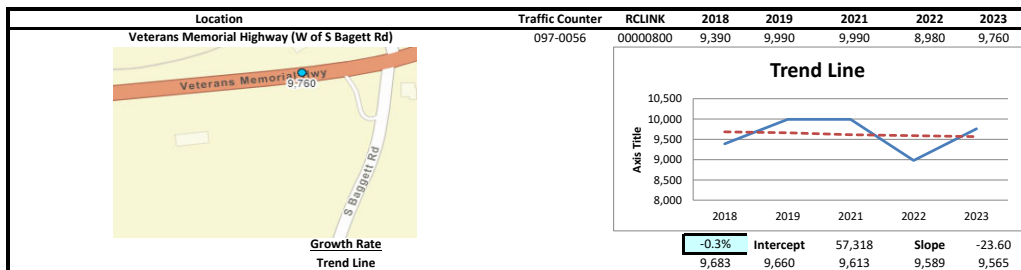
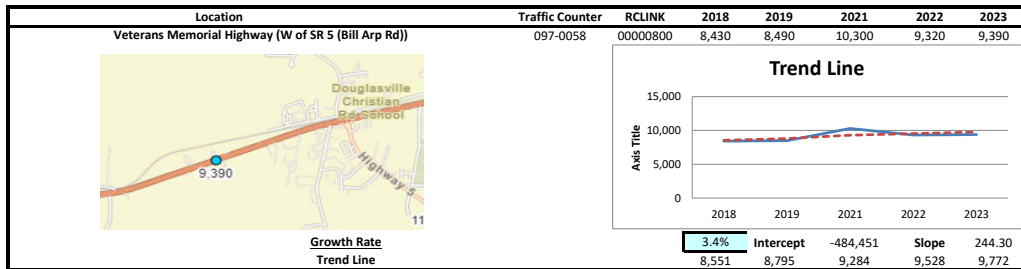
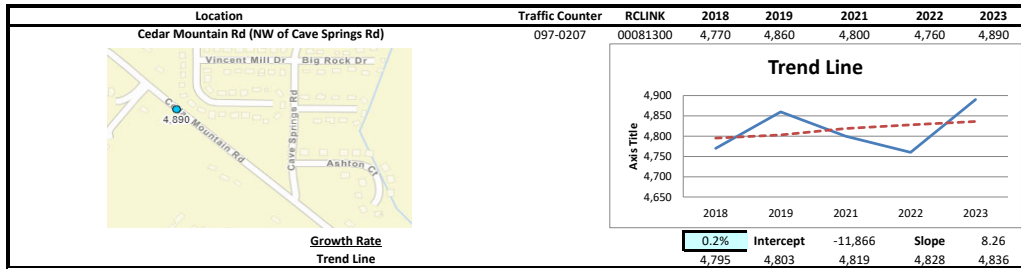
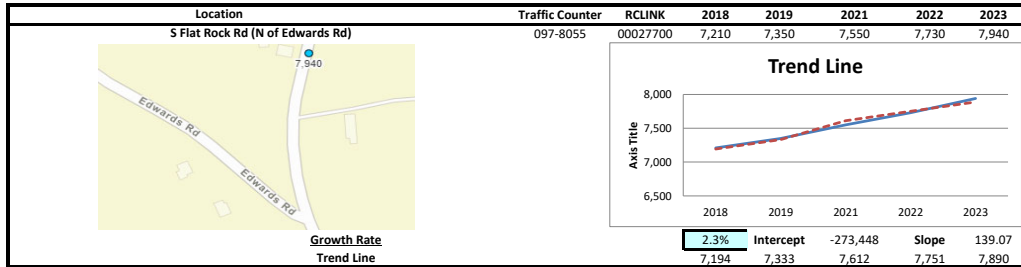
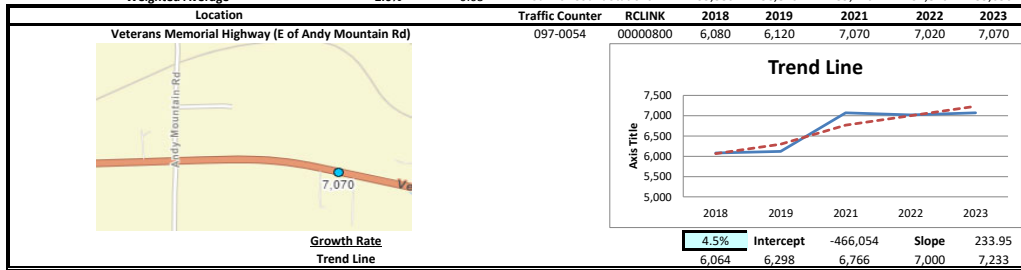
Cc:

Zabe Grennell, DCA  
Brittany Williams, SRTA/GRTA  
Derrick Peevy, SRTA/GRTA  
Donald Shockey, ARC  
Megan Weiss, GDOT District 7  
Landon Perry, GDOT District 7  
Allison Duncan, Douglas County  
Shayla Reed, City of Douglasville  
Santiago Escobar, City of Villa Rica  
Karla Poshedly, Douglas County DOT

Abdul Amer, A&R Engineering Inc.  
Naser Omar, A&R Engineering Inc.  
SDC ATLA, LLC  
Thomas & Hutton

## **Linear Regression of Daily Traffic**

| Location                                            | Growth Rate | R Squared   | Station ID                     | Route    | 2018          | 2019          | 2021          | 2022          | 2023          |
|-----------------------------------------------------|-------------|-------------|--------------------------------|----------|---------------|---------------|---------------|---------------|---------------|
| Veterans Memorial Highway (E of Andy Mountain Rd)   | 4.5%        | 0.86        | 097-0054                       | 00000800 | 6,080         | 6,120         | 7,070         | 7,020         | 7,070         |
| S Flat Rock Rd (N of Edwards Rd)                    | 2.3%        | 0.98        | 097-8055                       | 00027700 | 7,210         | 7,350         | 7,550         | 7,730         | 7,940         |
| Cedar Mountain Rd (NW of Cave Springs Rd)           | 0.2%        | 0.09        | 097-0207                       | 00081300 | 4,770         | 4,860         | 4,800         | 4,760         | 4,890         |
| Veterans Memorial Highway (W of SR 5 (Bill Arp Rd)) | 3.4%        | 0.44        | 097-0058                       | 00000800 | 8,430         | 8,490         | 10,300        | 9,320         | 9,390         |
| Veterans Memorial Highway (W of S Baggett Rd)       | -0.3%       | 0.01        | 097-0056                       | 00000800 | 9,390         | 9,990         | 9,990         | 8,980         | 9,760         |
| <b>Weighted Average</b>                             | <b>2.0%</b> | <b>0.63</b> | <b>Sum of Count Stations =</b> |          | <b>35,880</b> | <b>36,810</b> | <b>39,710</b> | <b>37,810</b> | <b>39,050</b> |



## **Existing Intersection Analysis**

# Timings

1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)

1a. Existing 2025 AM

02/20/2025

|                         | →     | ↘     | ↙     | ←     | ↖     | ↗     |
|-------------------------|-------|-------|-------|-------|-------|-------|
| Lane Group              | EBT   | EBR   | WBL   | WBT   | NBL   | NBR   |
| Lane Configurations     | ↑     | ↑     | ↘     | ↑     | ↘     | ↘     |
| Traffic Volume (vph)    | 649   | 92    | 190   | 534   | 48    | 147   |
| Future Volume (vph)     | 649   | 92    | 190   | 534   | 48    | 147   |
| Lane Group Flow (vph)   | 690   | 98    | 202   | 568   | 51    | 156   |
| Turn Type               | NA    | Perm  | pm+pt | NA    | Prot  | Perm  |
| Protected Phases        | 6     |       | 5     | 2     | 8     |       |
| Permitted Phases        |       | 6     | 2     |       |       | 8     |
| Detector Phase          | 6     | 6     | 5     | 2     | 8     | 8     |
| Switch Phase            |       |       |       |       |       |       |
| Minimum Initial (s)     | 15.0  | 15.0  | 5.0   | 15.0  | 6.0   | 6.0   |
| Minimum Split (s)       | 23.5  | 23.5  | 15.0  | 23.5  | 23.5  | 23.5  |
| Total Split (s)         | 80.0  | 80.0  | 16.0  | 96.0  | 24.0  | 24.0  |
| Total Split (%)         | 66.7% | 66.7% | 13.3% | 80.0% | 20.0% | 20.0% |
| Yellow Time (s)         | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)     | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| Lead/Lag                | Lag   | Lag   | Lead  |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   | Yes   |       |       |       |
| Recall Mode             | Min   | Min   | None  | Min   | None  | None  |
| v/c Ratio               | 0.77  | 0.13  | 0.44  | 0.44  | 0.31  | 0.49  |
| Control Delay           | 21.0  | 2.4   | 6.2   | 5.1   | 39.1  | 12.4  |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay             | 21.0  | 2.4   | 6.2   | 5.1   | 39.1  | 12.4  |
| Queue Length 50th (ft)  | 229   | 0     | 21    | 76    | 21    | 0     |
| Queue Length 95th (ft)  | 389   | 19    | 46    | 149   | 66    | 57    |
| Internal Link Dist (ft) | 295   |       |       | 1352  | 1634  |       |
| Turn Bay Length (ft)    |       |       | 350   |       |       | 285   |
| Base Capacity (vph)     | 1648  | 1310  | 466   | 1752  | 381   | 529   |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0     |
| Spillback Cap Reductn   | 0     | 0     | 0     | 0     | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     | 0     | 0     | 0     | 0     |
| Reduced v/c Ratio       | 0.42  | 0.07  | 0.43  | 0.32  | 0.13  | 0.29  |

## Intersection Summary

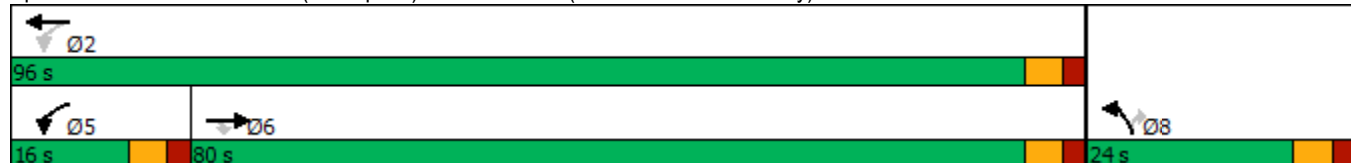
Cycle Length: 120

Actuated Cycle Length: 73

Natural Cycle: 80

Control Type: Actuated-Uncoordinated

Splits and Phases: 1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)



HCM 6th Signalized Intersection Summary  
1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)

1a. Existing 2025 AM  
02/20/2025

|                              |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Movement                     | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | NBL                                                                               | NBR                                                                               |
| Lane Configurations          |  |  |  |  |  |  |
| Traffic Volume (veh/h)       | 649                                                                               | 92                                                                                | 190                                                                               | 534                                                                               | 48                                                                                | 147                                                                               |
| Future Volume (veh/h)        | 649                                                                               | 92                                                                                | 190                                                                               | 534                                                                               | 48                                                                                | 147                                                                               |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Ped-Bike Adj(A_pbT)          |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   | No                                                                                | No                                                                                |                                                                                   |
| Adj Sat Flow, veh/h/ln       | 1781                                                                              | 1663                                                                              | 1841                                                                              | 1796                                                                              | 1530                                                                              | 1856                                                                              |
| Adj Flow Rate, veh/h         | 690                                                                               | 0                                                                                 | 202                                                                               | 568                                                                               | 51                                                                                | 0                                                                                 |
| Peak Hour Factor             | 0.94                                                                              | 0.94                                                                              | 0.94                                                                              | 0.94                                                                              | 0.94                                                                              | 0.94                                                                              |
| Percent Heavy Veh, %         | 8                                                                                 | 16                                                                                | 4                                                                                 | 7                                                                                 | 25                                                                                | 3                                                                                 |
| Cap, veh/h                   | 966                                                                               |                                                                                   | 478                                                                               | 1319                                                                              | 87                                                                                |                                                                                   |
| Arrive On Green              | 0.54                                                                              | 0.00                                                                              | 0.09                                                                              | 0.73                                                                              | 0.06                                                                              | 0.00                                                                              |
| Sat Flow, veh/h              | 1781                                                                              | 1409                                                                              | 1753                                                                              | 1796                                                                              | 1457                                                                              | 1572                                                                              |
| Grp Volume(v), veh/h         | 690                                                                               | 0                                                                                 | 202                                                                               | 568                                                                               | 51                                                                                | 0                                                                                 |
| Grp Sat Flow(s),veh/h/ln     | 1781                                                                              | 1409                                                                              | 1753                                                                              | 1796                                                                              | 1457                                                                              | 1572                                                                              |
| Q Serve(g_s), s              | 15.4                                                                              | 0.0                                                                               | 2.3                                                                               | 6.6                                                                               | 1.8                                                                               | 0.0                                                                               |
| Cycle Q Clear(g_c), s        | 15.4                                                                              | 0.0                                                                               | 2.3                                                                               | 6.6                                                                               | 1.8                                                                               | 0.0                                                                               |
| Prop In Lane                 |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |
| Lane Grp Cap(c), veh/h       | 966                                                                               |                                                                                   | 478                                                                               | 1319                                                                              | 87                                                                                |                                                                                   |
| V/C Ratio(X)                 | 0.71                                                                              |                                                                                   | 0.42                                                                              | 0.43                                                                              | 0.59                                                                              |                                                                                   |
| Avail Cap(c_a), veh/h        | 2488                                                                              |                                                                                   | 667                                                                               | 3048                                                                              | 505                                                                               |                                                                                   |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Upstream Filter(I)           | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              |
| Uniform Delay (d), s/veh     | 9.1                                                                               | 0.0                                                                               | 7.2                                                                               | 2.8                                                                               | 24.4                                                                              | 0.0                                                                               |
| Incr Delay (d2), s/veh       | 2.1                                                                               | 0.0                                                                               | 0.6                                                                               | 0.5                                                                               | 6.2                                                                               | 0.0                                                                               |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| %ile BackOfQ(50%),veh/ln     | 4.2                                                                               | 0.0                                                                               | 0.4                                                                               | 0.5                                                                               | 0.7                                                                               | 0.0                                                                               |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| LnGrp Delay(d),s/veh         | 11.3                                                                              | 0.0                                                                               | 7.8                                                                               | 3.2                                                                               | 30.6                                                                              | 0.0                                                                               |
| LnGrp LOS                    | B                                                                                 |                                                                                   | A                                                                                 | A                                                                                 | C                                                                                 |                                                                                   |
| Approach Vol, veh/h          | 690                                                                               |                                                                                   |                                                                                   | 770                                                                               | 51                                                                                |                                                                                   |
| Approach Delay, s/veh        | 11.3                                                                              |                                                                                   |                                                                                   | 4.4                                                                               | 30.6                                                                              |                                                                                   |
| Approach LOS                 | B                                                                                 |                                                                                   |                                                                                   | A                                                                                 | C                                                                                 |                                                                                   |
| Timer - Assigned Phs         | 2                                                                                 |                                                                                   | 5                                                                                 |                                                                                   | 6                                                                                 | 8                                                                                 |
| Phs Duration (G+Y+Rc), s     | 44.7                                                                              |                                                                                   | 10.2                                                                              |                                                                                   | 34.4                                                                              | 8.7                                                                               |
| Change Period (Y+Rc), s      | 5.5                                                                               |                                                                                   | 5.5                                                                               |                                                                                   | 5.5                                                                               | 5.5                                                                               |
| Max Green Setting (Gmax), s  | 90.5                                                                              |                                                                                   | 10.5                                                                              |                                                                                   | 74.5                                                                              | 18.5                                                                              |
| Max Q Clear Time (g_c+I1), s | 8.6                                                                               |                                                                                   | 4.3                                                                               |                                                                                   | 17.4                                                                              | 3.8                                                                               |
| Green Ext Time (p_c), s      | 8.7                                                                               |                                                                                   | 0.3                                                                               |                                                                                   | 11.5                                                                              | 0.1                                                                               |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| HCM 6th Ctrl Delay           |                                                                                   |                                                                                   | 8.4                                                                               |                                                                                   |                                                                                   |                                                                                   |
| HCM 6th LOS                  |                                                                                   |                                                                                   | A                                                                                 |                                                                                   |                                                                                   |                                                                                   |

| Intersection             |        |                                                                                   |                                                                                   |        |                                                                                   |      |
|--------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|------|
| Int Delay, s/veh         | 0.2    |                                                                                   |                                                                                   |        |                                                                                   |      |
| Movement                 | EBL    | EBT                                                                               | WBT                                                                               | WBR    | SBL                                                                               | SBR  |
| Lane Configurations      |        |  |  |        |  |      |
| Traffic Vol, veh/h       | 1      | 488                                                                               | 206                                                                               | 3      | 8                                                                                 | 1    |
| Future Vol, veh/h        | 1      | 488                                                                               | 206                                                                               | 3      | 8                                                                                 | 1    |
| Conflicting Peds, #/hr   | 0      | 0                                                                                 | 0                                                                                 | 0      | 0                                                                                 | 0    |
| Sign Control             | Free   | Free                                                                              | Free                                                                              | Free   | Stop                                                                              | Stop |
| RT Channelized           | -      | None                                                                              | -                                                                                 | None   | -                                                                                 | None |
| Storage Length           | -      | -                                                                                 | -                                                                                 | -      | 0                                                                                 | -    |
| Veh in Median Storage, # | -      | 0                                                                                 | 0                                                                                 | -      | 0                                                                                 | -    |
| Grade, %                 | -      | 0                                                                                 | 0                                                                                 | -      | 0                                                                                 | -    |
| Peak Hour Factor         | 90     | 90                                                                                | 90                                                                                | 90     | 90                                                                                | 90   |
| Heavy Vehicles, %        | 0      | 8                                                                                 | 15                                                                                | 0      | 25                                                                                | 0    |
| Mvmt Flow                | 1      | 542                                                                               | 229                                                                               | 3      | 9                                                                                 | 1    |
| Major/Minor              | Major1 | Major2                                                                            |                                                                                   | Minor2 |                                                                                   |      |
| Conflicting Flow All     | 232    | 0                                                                                 | -                                                                                 | 0      | 504                                                                               | 231  |
| Stage 1                  | -      | -                                                                                 | -                                                                                 | -      | 231                                                                               | -    |
| Stage 2                  | -      | -                                                                                 | -                                                                                 | -      | 273                                                                               | -    |
| Critical Hdwy            | 4.1    | -                                                                                 | -                                                                                 | -      | 6.975                                                                             | 6.2  |
| Critical Hdwy Stg 1      | -      | -                                                                                 | -                                                                                 | -      | 5.775                                                                             | -    |
| Critical Hdwy Stg 2      | -      | -                                                                                 | -                                                                                 | -      | 6.175                                                                             | -    |
| Follow-up Hdwy           | 2.2    | -                                                                                 | -                                                                                 | -      | 3.7375                                                                            | 3.3  |
| Pot Cap-1 Maneuver       | 1348   | -                                                                                 | -                                                                                 | -      | 466                                                                               | 813  |
| Stage 1                  | -      | -                                                                                 | -                                                                                 | -      | 748                                                                               | -    |
| Stage 2                  | -      | -                                                                                 | -                                                                                 | -      | 693                                                                               | -    |
| Platoon blocked, %       |        | -                                                                                 | -                                                                                 | -      |                                                                                   |      |
| Mov Cap-1 Maneuver       | 1348   | -                                                                                 | -                                                                                 | -      | 466                                                                               | 813  |
| Mov Cap-2 Maneuver       | -      | -                                                                                 | -                                                                                 | -      | 466                                                                               | -    |
| Stage 1                  | -      | -                                                                                 | -                                                                                 | -      | 747                                                                               | -    |
| Stage 2                  | -      | -                                                                                 | -                                                                                 | -      | 693                                                                               | -    |
| Approach                 | EB     | WB                                                                                |                                                                                   | SB     |                                                                                   |      |
| HCM Control Delay, s     | 0      | 0                                                                                 |                                                                                   | 12.5   |                                                                                   |      |
| HCM LOS                  |        |                                                                                   |                                                                                   | B      |                                                                                   |      |
| Minor Lane/Major Mvmt    | EBL    | EBT                                                                               | WBT                                                                               | WBR    | SBLn1                                                                             |      |
| Capacity (veh/h)         | 1348   | -                                                                                 | -                                                                                 | -      | 489                                                                               |      |
| HCM Lane V/C Ratio       | 0.001  | -                                                                                 | -                                                                                 | -      | 0.02                                                                              |      |
| HCM Control Delay (s)    | 7.7    | 0                                                                                 | -                                                                                 | -      | 12.5                                                                              |      |
| HCM Lane LOS             | A      | A                                                                                 | -                                                                                 | -      | B                                                                                 |      |
| HCM 95th %tile Q(veh)    | 0      | -                                                                                 | -                                                                                 | -      | 0.1                                                                               |      |

| Intersection             |        |       |      |        |       |      |        |       |       |        |      |      |
|--------------------------|--------|-------|------|--------|-------|------|--------|-------|-------|--------|------|------|
| Int Delay, s/veh         | 0.9    |       |      |        |       |      |        |       |       |        |      |      |
| Movement                 | EBL    | EBT   | EBR  | WBL    | WBT   | WBR  | NBL    | NBT   | NBR   | SBL    | SBT  | SBR  |
| Lane Configurations      |        | ↕     |      |        | ↕     |      |        | ↕     |       |        | ↕    |      |
| Traffic Vol, veh/h       | 3      | 379   | 3    | 22     | 639   | 3    | 10     | 1     | 24    | 3      | 1    | 2    |
| Future Vol, veh/h        | 3      | 379   | 3    | 22     | 639   | 3    | 10     | 1     | 24    | 3      | 1    | 2    |
| Conflicting Peds, #/hr   | 0      | 0     | 0    | 0      | 0     | 0    | 0      | 0     | 0     | 0      | 0    | 0    |
| Sign Control             | Free   | Free  | Free | Free   | Free  | Free | Stop   | Stop  | Stop  | Stop   | Stop | Stop |
| RT Channelized           | -      | -     | None | -      | -     | None | -      | -     | None  | -      | -    | None |
| Storage Length           | -      | -     | -    | -      | -     | -    | -      | -     | -     | -      | -    | -    |
| Veh in Median Storage, # | -      | 0     | -    | -      | 0     | -    | -      | 0     | -     | -      | 0    | -    |
| Grade, %                 | -      | 0     | -    | -      | 0     | -    | -      | 0     | -     | -      | 0    | -    |
| Peak Hour Factor         | 91     | 91    | 91   | 91     | 91    | 91   | 91     | 91    | 91    | 91     | 91   | 91   |
| Heavy Vehicles, %        | 0      | 4     | 0    | 0      | 2     | 0    | 0      | 0     | 4     | 0      | 0    | 0    |
| Mvmt Flow                | 3      | 416   | 3    | 24     | 702   | 3    | 11     | 1     | 26    | 3      | 1    | 2    |
|                          |        |       |      |        |       |      |        |       |       |        |      |      |
| Major/Minor              | Major1 |       |      | Major2 |       |      | Minor1 |       |       | Minor2 |      |      |
| Conflicting Flow All     | 705    | 0     | 0    | 419    | 0     | 0    | 1177   | 1177  | 418   | 1189   | 1177 | 704  |
| Stage 1                  | -      | -     | -    | -      | -     | -    | 424    | 424   | -     | 752    | 752  | -    |
| Stage 2                  | -      | -     | -    | -      | -     | -    | 753    | 753   | -     | 437    | 425  | -    |
| Critical Hdwy            | 4.1    | -     | -    | 4.1    | -     | -    | 7.1    | 6.5   | 6.24  | 7.1    | 6.5  | 6.2  |
| Critical Hdwy Stg 1      | -      | -     | -    | -      | -     | -    | 6.1    | 5.5   | -     | 6.1    | 5.5  | -    |
| Critical Hdwy Stg 2      | -      | -     | -    | -      | -     | -    | 6.1    | 5.5   | -     | 6.1    | 5.5  | -    |
| Follow-up Hdwy           | 2.2    | -     | -    | 2.2    | -     | -    | 3.5    | 4     | 3.336 | 3.5    | 4    | 3.3  |
| Pot Cap-1 Maneuver       | 902    | -     | -    | 1151   | -     | -    | 169    | 193   | 631   | 166    | 193  | 440  |
| Stage 1                  | -      | -     | -    | -      | -     | -    | 612    | 590   | -     | 405    | 421  | -    |
| Stage 2                  | -      | -     | -    | -      | -     | -    | 405    | 420   | -     | 602    | 590  | -    |
| Platoon blocked, %       |        | -     | -    |        | -     | -    |        |       |       |        |      |      |
| Mov Cap-1 Maneuver       | 902    | -     | -    | 1151   | -     | -    | 163    | 186   | 631   | 154    | 186  | 440  |
| Mov Cap-2 Maneuver       | -      | -     | -    | -      | -     | -    | 163    | 186   | -     | 154    | 186  | -    |
| Stage 1                  | -      | -     | -    | -      | -     | -    | 610    | 588   | -     | 403    | 407  | -    |
| Stage 2                  | -      | -     | -    | -      | -     | -    | 388    | 406   | -     | 573    | 588  | -    |
|                          |        |       |      |        |       |      |        |       |       |        |      |      |
|                          |        |       |      |        |       |      |        |       |       |        |      |      |
| Approach                 | EB     |       |      | WB     |       |      | NB     |       |       | SB     |      |      |
| HCM Control Delay, s     | 0.1    |       |      | 0.3    |       |      | 17.2   |       |       | 23.2   |      |      |
| HCM LOS                  |        |       |      |        |       |      | C      |       |       | C      |      |      |
|                          |        |       |      |        |       |      |        |       |       |        |      |      |
| Minor Lane/Major Mvmt    | NBLn1  | EBL   | EBT  | EBR    | WBL   | WBT  | WBR    | SBLn1 |       |        |      |      |
| Capacity (veh/h)         | 334    | 902   | -    | -      | 1151  | -    | -      | 204   |       |        |      |      |
| HCM Lane V/C Ratio       | 0.115  | 0.004 | -    | -      | 0.021 | -    | -      | 0.032 |       |        |      |      |
| HCM Control Delay (s)    | 17.2   | 9     | 0    | -      | 8.2   | 0    | -      | 23.2  |       |        |      |      |
| HCM Lane LOS             | C      | A     | A    | -      | A     | A    | -      | C     |       |        |      |      |
| HCM 95th %tile Q(veh)    | 0.4    | 0     | -    | -      | 0.1   | -    | -      | 0.1   |       |        |      |      |

HCM 6th TWSC  
4: SR 8/US 78 (Veterans Memorial Hwy) & Strawn Rd

1a. Existing 2025 AM  
02/20/2025

| Intersection             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Int Delay, s/veh         | 0.8                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Movement                 | EBL                                                                               | EBT                                                                               | WBT                                                                               | WBR                                                                               | SBL                                                                               | SBR                                                                               |
| Lane Configurations      |  |  |  |  |  |  |
| Traffic Vol, veh/h       | 59                                                                                | 555                                                                               | 264                                                                               | 20                                                                                | 11                                                                                | 12                                                                                |
| Future Vol, veh/h        | 59                                                                                | 555                                                                               | 264                                                                               | 20                                                                                | 11                                                                                | 12                                                                                |
| Conflicting Peds, #/hr   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Sign Control             | Free                                                                              | Free                                                                              | Free                                                                              | Free                                                                              | Stop                                                                              | Stop                                                                              |
| RT Channelized           | -                                                                                 | None                                                                              | -                                                                                 | Yield                                                                             | -                                                                                 | Yield                                                                             |
| Storage Length           | 155                                                                               | -                                                                                 | -                                                                                 | 175                                                                               | 0                                                                                 | -                                                                                 |
| Veh in Median Storage, # | -                                                                                 | 0                                                                                 | 0                                                                                 | -                                                                                 | 0                                                                                 | -                                                                                 |
| Grade, %                 | -                                                                                 | 0                                                                                 | 0                                                                                 | -                                                                                 | 0                                                                                 | -                                                                                 |
| Peak Hour Factor         | 91                                                                                | 91                                                                                | 91                                                                                | 91                                                                                | 91                                                                                | 91                                                                                |
| Heavy Vehicles, %        | 2                                                                                 | 6                                                                                 | 10                                                                                | 5                                                                                 | 9                                                                                 | 33                                                                                |
| Mvmt Flow                | 65                                                                                | 610                                                                               | 290                                                                               | 22                                                                                | 12                                                                                | 13                                                                                |

| Major/Minor          | Major1 | Major2 | Minor2        |
|----------------------|--------|--------|---------------|
| Conflicting Flow All | 290    | 0      | 0 1030 290    |
| Stage 1              | -      | -      | - 290 -       |
| Stage 2              | -      | -      | - 740 -       |
| Critical Hdwy        | 4.12   | -      | - 6.49 6.53   |
| Critical Hdwy Stg 1  | -      | -      | - 5.49 -      |
| Critical Hdwy Stg 2  | -      | -      | - 5.49 -      |
| Follow-up Hdwy       | 2.218  | -      | - 3.581 3.597 |
| Pot Cap-1 Maneuver   | 1272   | -      | - 251 681     |
| Stage 1              | -      | -      | - 744 -       |
| Stage 2              | -      | -      | - 459 -       |
| Platoon blocked, %   | -      | -      | -             |
| Mov Cap-1 Maneuver   | 1272   | -      | - 238 681     |
| Mov Cap-2 Maneuver   | -      | -      | - 238 -       |
| Stage 1              | -      | -      | - 706 -       |
| Stage 2              | -      | -      | - 459 -       |

| Approach             | EB  | WB | SB   |
|----------------------|-----|----|------|
| HCM Control Delay, s | 0.8 | 0  | 12.6 |
| HCM LOS              |     |    | B    |

| Minor Lane/Major Mvmt | EBL   | EBT | WBT | WBR | SBLn1 |
|-----------------------|-------|-----|-----|-----|-------|
| Capacity (veh/h)      | 1272  | -   | -   | -   | 498   |
| HCM Lane V/C Ratio    | 0.051 | -   | -   | -   | 0.051 |
| HCM Control Delay (s) | 8     | -   | -   | -   | 12.6  |
| HCM Lane LOS          | A     | -   | -   | -   | B     |
| HCM 95th %tile Q(veh) | 0.2   | -   | -   | -   | 0.2   |

# Timings

## 5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)

1a. Existing 2025 AM

02/20/2025

|                         |  |  |  |  |  |  |   |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Lane Group              | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 |
| Lane Configurations     |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph)    | 3                                                                                 | 286                                                                               | 188                                                                               | 96                                                                                | 124                                                                               | 70                                                                                | 102                                                                                 | 121                                                                                 | 251                                                                                 | 134                                                                                 | 226                                                                                 |
| Future Volume (vph)     | 3                                                                                 | 286                                                                               | 188                                                                               | 96                                                                                | 124                                                                               | 70                                                                                | 102                                                                                 | 121                                                                                 | 251                                                                                 | 134                                                                                 | 226                                                                                 |
| Lane Group Flow (vph)   | 3                                                                                 | 295                                                                               | 194                                                                               | 99                                                                                | 128                                                                               | 72                                                                                | 105                                                                                 | 125                                                                                 | 259                                                                                 | 138                                                                                 | 246                                                                                 |
| Turn Type               | pm+pt                                                                             | NA                                                                                | Perm                                                                              | pm+pt                                                                             | NA                                                                                | Perm                                                                              | pm+pt                                                                               | NA                                                                                  | Perm                                                                                | pm+pt                                                                               | NA                                                                                  |
| Protected Phases        | 1                                                                                 | 6                                                                                 |                                                                                   | 5                                                                                 | 2                                                                                 |                                                                                   | 3                                                                                   | 8                                                                                   |                                                                                     | 7                                                                                   | 4                                                                                   |
| Permitted Phases        | 6                                                                                 |                                                                                   | 6                                                                                 | 2                                                                                 |                                                                                   | 2                                                                                 | 8                                                                                   |                                                                                     | 8                                                                                   | 4                                                                                   |                                                                                     |
| Detector Phase          | 1                                                                                 | 6                                                                                 | 6                                                                                 | 5                                                                                 | 2                                                                                 | 2                                                                                 | 3                                                                                   | 8                                                                                   | 8                                                                                   | 7                                                                                   | 4                                                                                   |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Minimum Initial (s)     | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                                 | 6.0                                                                                 | 6.0                                                                                 | 5.0                                                                                 | 6.0                                                                                 |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                                | 23.5                                                                                | 23.5                                                                                | 15.0                                                                                | 23.5                                                                                |
| Total Split (s)         | 15.0                                                                              | 49.0                                                                              | 49.0                                                                              | 17.0                                                                              | 51.0                                                                              | 51.0                                                                              | 17.0                                                                                | 37.0                                                                                | 37.0                                                                                | 17.0                                                                                | 37.0                                                                                |
| Total Split (%)         | 12.5%                                                                             | 40.8%                                                                             | 40.8%                                                                             | 14.2%                                                                             | 42.5%                                                                             | 42.5%                                                                             | 14.2%                                                                               | 30.8%                                                                               | 30.8%                                                                               | 14.2%                                                                               | 30.8%                                                                               |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 |
| Lead/Lag                | Lead                                                                              | Lag                                                                               | Lag                                                                               | Lead                                                                              | Lag                                                                               | Lag                                                                               | Lead                                                                                | Lag                                                                                 | Lag                                                                                 | Lead                                                                                | Lag                                                                                 |
| Lead-Lag Optimize?      | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 |
| Recall Mode             | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                                | None                                                                                | None                                                                                | None                                                                                | None                                                                                |
| v/c Ratio               | 0.00                                                                              | 0.34                                                                              | 0.22                                                                              | 0.17                                                                              | 0.13                                                                              | 0.07                                                                              | 0.41                                                                                | 0.39                                                                                | 0.54                                                                                | 0.38                                                                                | 0.76                                                                                |
| Control Delay           | 12.7                                                                              | 22.7                                                                              | 3.8                                                                               | 12.5                                                                              | 14.4                                                                              | 0.6                                                                               | 33.9                                                                                | 46.1                                                                                | 9.0                                                                                 | 32.9                                                                                | 60.9                                                                                |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Total Delay             | 12.7                                                                              | 22.7                                                                              | 3.8                                                                               | 12.5                                                                              | 14.4                                                                              | 0.6                                                                               | 33.9                                                                                | 46.1                                                                                | 9.0                                                                                 | 32.9                                                                                | 60.9                                                                                |
| Queue Length 50th (ft)  | 1                                                                                 | 139                                                                               | 0                                                                                 | 31                                                                                | 41                                                                                | 0                                                                                 | 59                                                                                  | 87                                                                                  | 0                                                                                   | 79                                                                                  | 182                                                                                 |
| Queue Length 95th (ft)  | 6                                                                                 | 246                                                                               | 46                                                                                | 66                                                                                | 101                                                                               | 4                                                                                 | 94                                                                                  | 135                                                                                 | 67                                                                                  | 120                                                                                 | 254                                                                                 |
| Internal Link Dist (ft) |                                                                                   | 2443                                                                              |                                                                                   |                                                                                   | 3462                                                                              |                                                                                   |                                                                                     | 2898                                                                                |                                                                                     |                                                                                     | 998                                                                                 |
| Turn Bay Length (ft)    | 300                                                                               |                                                                                   | 225                                                                               | 355                                                                               |                                                                                   | 225                                                                               | 190                                                                                 |                                                                                     | 200                                                                                 | 160                                                                                 |                                                                                     |
| Base Capacity (vph)     | 763                                                                               | 859                                                                               | 866                                                                               | 593                                                                               | 978                                                                               | 991                                                                               | 276                                                                                 | 493                                                                                 | 602                                                                                 | 373                                                                                 | 481                                                                                 |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Reduced v/c Ratio       | 0.00                                                                              | 0.34                                                                              | 0.22                                                                              | 0.17                                                                              | 0.13                                                                              | 0.07                                                                              | 0.38                                                                                | 0.25                                                                                | 0.43                                                                                | 0.37                                                                                | 0.51                                                                                |

### Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 120

Offset: 0 (0%), Referenced to phase 2:WBTL and 6:EBTL, Start of Green

Natural Cycle: 80

Control Type: Actuated-Coordinated

Splits and Phases: 5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |  |
| Ø1                                                                                  | Ø2 (R)                                                                              |                                                                                     | Ø3                                                                                  |                                                                                     | Ø4                                                                                    |                                                                                       |                                                                                       |
| 15 s                                                                                | 51 s                                                                                |                                                                                     | 17 s                                                                                |                                                                                     | 37 s                                                                                  |                                                                                       |                                                                                       |
|  |  |  |  |  |  |  |  |
| Ø5                                                                                  | Ø6 (R)                                                                              |                                                                                     | Ø7                                                                                  |                                                                                     | Ø8                                                                                    |                                                                                       |                                                                                       |
| 17 s                                                                                | 49 s                                                                                |                                                                                     | 17 s                                                                                |                                                                                     | 37 s                                                                                  |                                                                                       |                                                                                       |

HCM 6th Signalized Intersection Summary  
5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)

1a. Existing 2025 AM  
02/20/2025

|                              |  |  |  |  |  |  |   |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h)       | 3                                                                                 | 286                                                                               | 188                                                                               | 96                                                                                | 124                                                                               | 70                                                                                | 102                                                                                 | 121                                                                                 | 251                                                                                 | 134                                                                                 | 226                                                                                 | 13                                                                                  |
| Future Volume (veh/h)        | 3                                                                                 | 286                                                                               | 188                                                                               | 96                                                                                | 124                                                                               | 70                                                                                | 102                                                                                 | 121                                                                                 | 251                                                                                 | 134                                                                                 | 226                                                                                 | 13                                                                                  |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   | No                                                                                |                                                                                   |                                                                                   | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1900                                                                              | 1796                                                                              | 1870                                                                              | 1826                                                                              | 1707                                                                              | 1900                                                                              | 1885                                                                                | 1885                                                                                | 1856                                                                                | 1900                                                                                | 1870                                                                                | 1559                                                                                |
| Adj Flow Rate, veh/h         | 3                                                                                 | 295                                                                               | 0                                                                                 | 99                                                                                | 128                                                                               | 0                                                                                 | 105                                                                                 | 125                                                                                 | 0                                                                                   | 138                                                                                 | 233                                                                                 | 0                                                                                   |
| Peak Hour Factor             | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                |
| Percent Heavy Veh, %         | 0                                                                                 | 7                                                                                 | 2                                                                                 | 5                                                                                 | 13                                                                                | 0                                                                                 | 1                                                                                   | 1                                                                                   | 3                                                                                   | 0                                                                                   | 2                                                                                   | 23                                                                                  |
| Cap, veh/h                   | 791                                                                               | 1014                                                                              |                                                                                   | 637                                                                               | 1026                                                                              |                                                                                   | 206                                                                                 | 246                                                                                 |                                                                                     | 296                                                                                 | 274                                                                                 |                                                                                     |
| Arrive On Green              | 0.00                                                                              | 0.56                                                                              | 0.00                                                                              | 0.04                                                                              | 0.60                                                                              | 0.00                                                                              | 0.07                                                                                | 0.13                                                                                | 0.00                                                                                | 0.08                                                                                | 0.15                                                                                | 0.00                                                                                |
| Sat Flow, veh/h              | 1810                                                                              | 1796                                                                              | 1585                                                                              | 1739                                                                              | 1707                                                                              | 1610                                                                              | 1795                                                                                | 1885                                                                                | 1572                                                                                | 1810                                                                                | 1870                                                                                | 0                                                                                   |
| Grp Volume(v), veh/h         | 3                                                                                 | 295                                                                               | 0                                                                                 | 99                                                                                | 128                                                                               | 0                                                                                 | 105                                                                                 | 125                                                                                 | 0                                                                                   | 138                                                                                 | 233                                                                                 | 0                                                                                   |
| Grp Sat Flow(s),veh/h/ln     | 1810                                                                              | 1796                                                                              | 1585                                                                              | 1739                                                                              | 1707                                                                              | 1610                                                                              | 1795                                                                                | 1885                                                                                | 1572                                                                                | 1810                                                                                | 1870                                                                                | 0                                                                                   |
| Q Serve(g_s), s              | 0.1                                                                               | 10.3                                                                              | 0.0                                                                               | 2.8                                                                               | 3.9                                                                               | 0.0                                                                               | 6.0                                                                                 | 7.4                                                                                 | 0.0                                                                                 | 7.8                                                                                 | 14.6                                                                                | 0.0                                                                                 |
| Cycle Q Clear(g_c), s        | 0.1                                                                               | 10.3                                                                              | 0.0                                                                               | 2.8                                                                               | 3.9                                                                               | 0.0                                                                               | 6.0                                                                                 | 7.4                                                                                 | 0.0                                                                                 | 7.8                                                                                 | 14.6                                                                                | 0.0                                                                                 |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 0.00                                                                                |
| Lane Grp Cap(c), veh/h       | 791                                                                               | 1014                                                                              |                                                                                   | 637                                                                               | 1026                                                                              |                                                                                   | 206                                                                                 | 246                                                                                 |                                                                                     | 296                                                                                 | 274                                                                                 |                                                                                     |
| V/C Ratio(X)                 | 0.00                                                                              | 0.29                                                                              |                                                                                   | 0.16                                                                              | 0.12                                                                              |                                                                                   | 0.51                                                                                | 0.51                                                                                |                                                                                     | 0.47                                                                                | 0.85                                                                                |                                                                                     |
| Avail Cap(c_a), veh/h        | 927                                                                               | 1014                                                                              |                                                                                   | 734                                                                               | 1026                                                                              |                                                                                   | 261                                                                                 | 495                                                                                 |                                                                                     | 322                                                                                 | 491                                                                                 |                                                                                     |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 0.96                                                                                | 0.96                                                                                | 0.00                                                                                | 1.00                                                                                | 1.00                                                                                | 0.00                                                                                |
| Uniform Delay (d), s/veh     | 11.2                                                                              | 13.6                                                                              | 0.0                                                                               | 10.2                                                                              | 10.3                                                                              | 0.0                                                                               | 42.0                                                                                | 48.6                                                                                | 0.0                                                                                 | 40.6                                                                                | 49.9                                                                                | 0.0                                                                                 |
| Incr Delay (d2), s/veh       | 0.0                                                                               | 0.7                                                                               | 0.0                                                                               | 0.1                                                                               | 0.2                                                                               | 0.0                                                                               | 1.9                                                                                 | 1.6                                                                                 | 0.0                                                                                 | 1.1                                                                                 | 7.2                                                                                 | 0.0                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 0.0                                                                               | 4.1                                                                               | 0.0                                                                               | 1.0                                                                               | 1.4                                                                               | 0.0                                                                               | 2.7                                                                                 | 3.5                                                                                 | 0.0                                                                                 | 3.5                                                                                 | 7.3                                                                                 | 0.0                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 11.2                                                                              | 14.3                                                                              | 0.0                                                                               | 10.3                                                                              | 10.6                                                                              | 0.0                                                                               | 43.8                                                                                | 50.1                                                                                | 0.0                                                                                 | 41.7                                                                                | 57.1                                                                                | 0.0                                                                                 |
| LnGrp LOS                    | B                                                                                 | B                                                                                 |                                                                                   | B                                                                                 | B                                                                                 |                                                                                   | D                                                                                   | D                                                                                   |                                                                                     | D                                                                                   | E                                                                                   |                                                                                     |
| Approach Vol, veh/h          | 298                                                                               |                                                                                   |                                                                                   | 227                                                                               |                                                                                   |                                                                                   | 230                                                                                 |                                                                                     |                                                                                     | 371                                                                                 |                                                                                     |                                                                                     |
| Approach Delay, s/veh        | 14.3                                                                              |                                                                                   |                                                                                   | 10.4                                                                              |                                                                                   |                                                                                   | 47.3                                                                                |                                                                                     |                                                                                     | 51.4                                                                                |                                                                                     |                                                                                     |
| Approach LOS                 | B                                                                                 |                                                                                   |                                                                                   | B                                                                                 |                                                                                   |                                                                                   | D                                                                                   |                                                                                     |                                                                                     | D                                                                                   |                                                                                     |                                                                                     |
| Timer - Assigned Phs         | 1                                                                                 | 2                                                                                 | 3                                                                                 | 4                                                                                 | 5                                                                                 | 6                                                                                 | 7                                                                                   | 8                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 6.0                                                                               | 77.6                                                                              | 13.3                                                                              | 23.1                                                                              | 10.3                                                                              | 73.3                                                                              | 15.3                                                                                | 21.2                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                                 | 5.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 9.5                                                                               | 45.5                                                                              | 11.5                                                                              | 31.5                                                                              | 11.5                                                                              | 43.5                                                                              | 11.5                                                                                | 31.5                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 2.1                                                                               | 5.9                                                                               | 8.0                                                                               | 16.6                                                                              | 4.8                                                                               | 12.3                                                                              | 9.8                                                                                 | 9.4                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 0.0                                                                               | 1.3                                                                               | 0.1                                                                               | 1.0                                                                               | 0.1                                                                               | 3.3                                                                               | 0.1                                                                                 | 0.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

Intersection Summary

|                    |      |
|--------------------|------|
| HCM 6th Ctrl Delay | 32.5 |
| HCM 6th LOS        | C    |

Notes

Unsignalized Delay for [NBR, EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

| Intersection             |                                                                                   |        |        |                                                                                   |                                                                                   |      |
|--------------------------|-----------------------------------------------------------------------------------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| Int Delay, s/veh         | 1.6                                                                               |        |        |                                                                                   |                                                                                   |      |
| Movement                 | EBT                                                                               | EBR    | WBL    | WBT                                                                               | NBL                                                                               | NBR  |
| Lane Configurations      |  |        |        |  |  |      |
| Traffic Vol, veh/h       | 497                                                                               | 82     | 6      | 214                                                                               | 65                                                                                | 9    |
| Future Vol, veh/h        | 497                                                                               | 82     | 6      | 214                                                                               | 65                                                                                | 9    |
| Conflicting Peds, #/hr   | 0                                                                                 | 0      | 0      | 0                                                                                 | 0                                                                                 | 0    |
| Sign Control             | Free                                                                              | Free   | Free   | Free                                                                              | Stop                                                                              | Stop |
| RT Channelized           | -                                                                                 | None   | -      | None                                                                              | -                                                                                 | None |
| Storage Length           | -                                                                                 | -      | -      | -                                                                                 | 0                                                                                 | -    |
| Veh in Median Storage, # | 0                                                                                 | -      | -      | 0                                                                                 | 0                                                                                 | -    |
| Grade, %                 | 0                                                                                 | -      | -      | 0                                                                                 | 0                                                                                 | -    |
| Peak Hour Factor         | 91                                                                                | 91     | 91     | 91                                                                                | 91                                                                                | 91   |
| Heavy Vehicles, %        | 7                                                                                 | 1      | 0      | 14                                                                                | 0                                                                                 | 0    |
| Mvmt Flow                | 546                                                                               | 90     | 7      | 235                                                                               | 71                                                                                | 10   |
|                          |                                                                                   |        |        |                                                                                   |                                                                                   |      |
| Major/Minor              | Major1                                                                            | Major2 | Minor1 |                                                                                   |                                                                                   |      |
| Conflicting Flow All     | 0                                                                                 | 0      | 636    | 0                                                                                 | 840                                                                               | 591  |
| Stage 1                  | -                                                                                 | -      | -      | -                                                                                 | 591                                                                               | -    |
| Stage 2                  | -                                                                                 | -      | -      | -                                                                                 | 249                                                                               | -    |
| Critical Hdwy            | -                                                                                 | -      | 4.1    | -                                                                                 | 6.4                                                                               | 6.2  |
| Critical Hdwy Stg 1      | -                                                                                 | -      | -      | -                                                                                 | 5.4                                                                               | -    |
| Critical Hdwy Stg 2      | -                                                                                 | -      | -      | -                                                                                 | 5.4                                                                               | -    |
| Follow-up Hdwy           | -                                                                                 | -      | 2.2    | -                                                                                 | 3.5                                                                               | 3.3  |
| Pot Cap-1 Maneuver       | -                                                                                 | -      | 957    | -                                                                                 | 338                                                                               | 511  |
| Stage 1                  | -                                                                                 | -      | -      | -                                                                                 | 557                                                                               | -    |
| Stage 2                  | -                                                                                 | -      | -      | -                                                                                 | 797                                                                               | -    |
| Platoon blocked, %       | -                                                                                 | -      |        | -                                                                                 |                                                                                   |      |
| Mov Cap-1 Maneuver       | -                                                                                 | -      | 957    | -                                                                                 | 335                                                                               | 511  |
| Mov Cap-2 Maneuver       | -                                                                                 | -      | -      | -                                                                                 | 335                                                                               | -    |
| Stage 1                  | -                                                                                 | -      | -      | -                                                                                 | 557                                                                               | -    |
| Stage 2                  | -                                                                                 | -      | -      | -                                                                                 | 791                                                                               | -    |
|                          |                                                                                   |        |        |                                                                                   |                                                                                   |      |
|                          |                                                                                   |        |        |                                                                                   |                                                                                   |      |
| Approach                 | EB                                                                                | WB     |        | NB                                                                                |                                                                                   |      |
| HCM Control Delay, s     | 0                                                                                 | 0.2    |        | 18.4                                                                              |                                                                                   |      |
| HCM LOS                  | C                                                                                 |        |        |                                                                                   |                                                                                   |      |
|                          |                                                                                   |        |        |                                                                                   |                                                                                   |      |
| Minor Lane/Major Mvmt    | NBLn1                                                                             | EBT    | EBR    | WBL                                                                               | WBT                                                                               |      |
| Capacity (veh/h)         | 350                                                                               | -      | -      | 957                                                                               | -                                                                                 |      |
| HCM Lane V/C Ratio       | 0.232                                                                             | -      | -      | 0.007                                                                             | -                                                                                 |      |
| HCM Control Delay (s)    | 18.4                                                                              | -      | -      | 8.8                                                                               | 0                                                                                 |      |
| HCM Lane LOS             | C                                                                                 | -      | -      | A                                                                                 | A                                                                                 |      |
| HCM 95th %tile Q(veh)    | 0.9                                                                               | -      | -      | 0                                                                                 | -                                                                                 |      |

Timings  
7: Post Rd & I-20 WB Ramps

1a. Existing 2025 AM  
02/20/2025

|                         |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group              | WBL                                                                               | WBR                                                                               | NBL                                                                               | NBT                                                                               | SBT                                                                               | SBR                                                                               |
| Lane Configurations     |  |  |  |  |  |  |
| Traffic Volume (vph)    | 144                                                                               | 109                                                                               | 196                                                                               | 344                                                                               | 451                                                                               | 69                                                                                |
| Future Volume (vph)     | 144                                                                               | 109                                                                               | 196                                                                               | 344                                                                               | 451                                                                               | 69                                                                                |
| Lane Group Flow (vph)   | 169                                                                               | 128                                                                               | 231                                                                               | 405                                                                               | 531                                                                               | 81                                                                                |
| Turn Type               | Prot                                                                              | Perm                                                                              | pm+pt                                                                             | NA                                                                                | NA                                                                                | Perm                                                                              |
| Protected Phases        | 3                                                                                 |                                                                                   | 1                                                                                 | 6                                                                                 | 2                                                                                 |                                                                                   |
| Permitted Phases        |                                                                                   | 8                                                                                 | 6                                                                                 |                                                                                   |                                                                                   | 2                                                                                 |
| Detector Phase          | 3                                                                                 | 8                                                                                 | 1                                                                                 | 6                                                                                 | 2                                                                                 | 2                                                                                 |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minimum Initial (s)     | 5.0                                                                               | 6.0                                                                               | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 15.0                                                                              |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 23.5                                                                              |
| Total Split (s)         | 15.0                                                                              | 26.0                                                                              | 20.0                                                                              | 74.0                                                                              | 54.0                                                                              | 54.0                                                                              |
| Total Split (%)         | 15.0%                                                                             | 26.0%                                                                             | 20.0%                                                                             | 74.0%                                                                             | 54.0%                                                                             | 54.0%                                                                             |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               |
| Lead/Lag                |                                                                                   |                                                                                   | Lead                                                                              |                                                                                   | Lag                                                                               | Lag                                                                               |
| Lead-Lag Optimize?      |                                                                                   |                                                                                   | Yes                                                                               |                                                                                   | Yes                                                                               | Yes                                                                               |
| Recall Mode             | None                                                                              | None                                                                              | None                                                                              | C-Min                                                                             | C-Min                                                                             | C-Min                                                                             |
| v/c Ratio               | 0.65                                                                              | 0.38                                                                              | 0.38                                                                              | 0.29                                                                              | 0.50                                                                              | 0.09                                                                              |
| Control Delay           | 51.6                                                                              | 9.8                                                                               | 6.1                                                                               | 4.6                                                                               | 16.2                                                                              | 2.9                                                                               |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Delay             | 51.6                                                                              | 9.8                                                                               | 6.1                                                                               | 4.6                                                                               | 16.2                                                                              | 2.9                                                                               |
| Queue Length 50th (ft)  | 103                                                                               | 0                                                                                 | 46                                                                                | 82                                                                                | 193                                                                               | 0                                                                                 |
| Queue Length 95th (ft)  | 151                                                                               | 41                                                                                | 65                                                                                | 105                                                                               | 303                                                                               | 19                                                                                |
| Internal Link Dist (ft) |                                                                                   |                                                                                   |                                                                                   | 717                                                                               | 2898                                                                              |                                                                                   |
| Turn Bay Length (ft)    |                                                                                   | 400                                                                               | 210                                                                               |                                                                                   |                                                                                   | 345                                                                               |
| Base Capacity (vph)     | 362                                                                               | 426                                                                               | 637                                                                               | 1385                                                                              | 1069                                                                              | 895                                                                               |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Reduced v/c Ratio       | 0.47                                                                              | 0.30                                                                              | 0.36                                                                              | 0.29                                                                              | 0.50                                                                              | 0.09                                                                              |

Intersection Summary

Cycle Length: 100

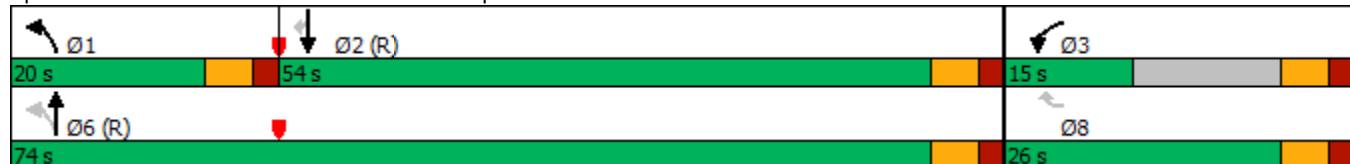
Actuated Cycle Length: 100

Offset: 0 (0%), Referenced to phase 2:SBT and 6:NBTL, Start of Green

Natural Cycle: 65

Control Type: Actuated-Coordinated

Splits and Phases: 7: Post Rd & I-20 WB Ramps



# HCM 6th Signalized Intersection Summary

## 7: Post Rd & I-20 WB Ramps

1a. Existing 2025 AM  
02/20/2025

|                                                                                                          |  |      |     |       |       |      |      |      |      |      |      |      |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------|-----|-------|-------|------|------|------|------|------|------|------|
| Movement                                                                                                 | EBL                                                                                | EBT  | EBR | WBL   | WBT   | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
| Lane Configurations                                                                                      |                                                                                    |      |     | ↰     |       | ↰    | ↰    | ↱    |      |      | ↱    | ↰    |
| Traffic Volume (veh/h)                                                                                   | 0                                                                                  | 0    | 0   | 144   | 0     | 109  | 196  | 344  | 0    | 0    | 451  | 69   |
| Future Volume (veh/h)                                                                                    | 0                                                                                  | 0    | 0   | 144   | 0     | 109  | 196  | 344  | 0    | 0    | 451  | 69   |
| Initial Q (Qb), veh                                                                                      |                                                                                    |      |     | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)                                                                                      |                                                                                    |      |     | 1.00  |       | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj                                                                                         |                                                                                    |      |     | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                                                                                    |                                                                                    |      |     | No    |       |      | No   |      |      |      | No   |      |
| Adj Sat Flow, veh/h/ln                                                                                   |                                                                                    |      |     | 1870  | 0     | 1870 | 1900 | 1870 | 0    | 0    | 1885 | 1796 |
| Adj Flow Rate, veh/h                                                                                     |                                                                                    |      |     | 169   | 0     | 0    | 231  | 405  | 0    | 0    | 531  | 81   |
| Peak Hour Factor                                                                                         |                                                                                    |      |     | 0.85  | 0.85  | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Percent Heavy Veh, %                                                                                     |                                                                                    |      |     | 2     | 0     | 2    | 0    | 2    | 0    | 0    | 1    | 7    |
| Cap, veh/h                                                                                               |                                                                                    |      |     | 169   | 0     |      | 636  | 1487 | 0    | 0    | 1284 | 1036 |
| Arrive On Green                                                                                          |                                                                                    |      |     | 0.09  | 0.00  | 0.00 | 0.06 | 0.80 | 0.00 | 0.00 | 0.68 | 0.68 |
| Sat Flow, veh/h                                                                                          |                                                                                    |      |     | 1781  | 0     | 1585 | 1810 | 1870 | 0    | 0    | 1885 | 1522 |
| Grp Volume(v), veh/h                                                                                     |                                                                                    |      |     | 169   | 0     | 0    | 231  | 405  | 0    | 0    | 531  | 81   |
| Grp Sat Flow(s),veh/h/ln                                                                                 |                                                                                    |      |     | 1781  | 0     | 1585 | 1810 | 1870 | 0    | 0    | 1885 | 1522 |
| Q Serve(g_s), s                                                                                          |                                                                                    |      |     | 9.5   | 0.0   | 0.0  | 3.5  | 5.7  | 0.0  | 0.0  | 12.5 | 1.8  |
| Cycle Q Clear(g_c), s                                                                                    |                                                                                    |      |     | 9.5   | 0.0   | 0.0  | 3.5  | 5.7  | 0.0  | 0.0  | 12.5 | 1.8  |
| Prop In Lane                                                                                             |                                                                                    |      |     | 1.00  |       | 1.00 | 1.00 |      | 0.00 | 0.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h                                                                                   |                                                                                    |      |     | 169   | 0     |      | 636  | 1487 | 0    | 0    | 1284 | 1036 |
| V/C Ratio(X)                                                                                             |                                                                                    |      |     | 1.00  | 0.00  |      | 0.36 | 0.27 | 0.00 | 0.00 | 0.41 | 0.08 |
| Avail Cap(c_a), veh/h                                                                                    |                                                                                    |      |     | 169   | 0     |      | 792  | 1487 | 0    | 0    | 1284 | 1036 |
| HCM Platoon Ratio                                                                                        |                                                                                    |      |     | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I)                                                                                       |                                                                                    |      |     | 1.00  | 0.00  | 0.00 | 0.87 | 0.87 | 0.00 | 0.00 | 0.89 | 0.89 |
| Uniform Delay (d), s/veh                                                                                 |                                                                                    |      |     | 45.2  | 0.0   | 0.0  | 4.8  | 2.7  | 0.0  | 0.0  | 7.1  | 5.4  |
| Incr Delay (d2), s/veh                                                                                   |                                                                                    |      |     | 68.8  | 0.0   | 0.0  | 0.3  | 0.4  | 0.0  | 0.0  | 0.9  | 0.1  |
| Initial Q Delay(d3),s/veh                                                                                |                                                                                    |      |     | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%),veh/ln                                                                                 |                                                                                    |      |     | 7.4   | 0.0   | 0.0  | 0.9  | 1.3  | 0.0  | 0.0  | 4.2  | 0.5  |
| Unsig. Movement Delay, s/veh                                                                             |                                                                                    |      |     |       |       |      |      |      |      |      |      |      |
| LnGrp Delay(d),s/veh                                                                                     |                                                                                    |      |     | 114.0 | 0.0   | 0.0  | 5.1  | 3.1  | 0.0  | 0.0  | 8.0  | 5.5  |
| LnGrp LOS                                                                                                |                                                                                    |      |     | F     | A     |      | A    | A    | A    | A    | A    | A    |
| Approach Vol, veh/h                                                                                      |                                                                                    |      |     |       | 169   |      |      | 636  |      |      | 612  |      |
| Approach Delay, s/veh                                                                                    |                                                                                    |      |     |       | 114.0 |      |      | 3.8  |      |      | 7.6  |      |
| Approach LOS                                                                                             |                                                                                    |      |     |       | F     |      |      | A    |      |      | A    |      |
| Timer - Assigned Phs                                                                                     | 1                                                                                  | 2    |     |       |       | 6    |      | 8    |      |      |      |      |
| Phs Duration (G+Y+Rc), s                                                                                 | 11.4                                                                               | 73.6 |     |       |       | 85.0 |      | 15.0 |      |      |      |      |
| Change Period (Y+Rc), s                                                                                  | 5.5                                                                                | 5.5  |     |       |       | 5.5  |      | 5.5  |      |      |      |      |
| Max Green Setting (Gmax), s                                                                              | 14.5                                                                               | 48.5 |     |       |       | 68.5 |      | 9.5  |      |      |      |      |
| Max Q Clear Time (g_c+I1), s                                                                             | 5.5                                                                                | 14.5 |     |       |       | 7.7  |      | 11.5 |      |      |      |      |
| Green Ext Time (p_c), s                                                                                  | 0.4                                                                                | 7.7  |     |       |       | 5.3  |      | 0.0  |      |      |      |      |
| <b>Intersection Summary</b>                                                                              |                                                                                    |      |     |       |       |      |      |      |      |      |      |      |
| HCM 6th Ctrl Delay                                                                                       |                                                                                    |      |     | 18.6  |       |      |      |      |      |      |      |      |
| HCM 6th LOS                                                                                              |                                                                                    |      |     | B     |       |      |      |      |      |      |      |      |
| <b>Notes</b>                                                                                             |                                                                                    |      |     |       |       |      |      |      |      |      |      |      |
| Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay. |                                                                                    |      |     |       |       |      |      |      |      |      |      |      |

# Timings 8: Post Rd & I-20 EB Ramps

1a. Existing 2025 AM  
02/20/2025

|                         |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group              | EBL                                                                               | EBR                                                                               | NBT                                                                               | NBR                                                                               | SBL                                                                               | SBT                                                                               |
| Lane Configurations     |  |  |  |  |  |  |
| Traffic Volume (vph)    | 129                                                                               | 295                                                                               | 469                                                                               | 444                                                                               | 235                                                                               | 374                                                                               |
| Future Volume (vph)     | 129                                                                               | 295                                                                               | 469                                                                               | 444                                                                               | 235                                                                               | 374                                                                               |
| Lane Group Flow (vph)   | 140                                                                               | 321                                                                               | 510                                                                               | 483                                                                               | 255                                                                               | 407                                                                               |
| Turn Type               | Prot                                                                              | Perm                                                                              | NA                                                                                | Perm                                                                              | pm+pt                                                                             | NA                                                                                |
| Protected Phases        | 7                                                                                 |                                                                                   | 6                                                                                 |                                                                                   | 5                                                                                 | 2                                                                                 |
| Permitted Phases        |                                                                                   | 4                                                                                 |                                                                                   | 6                                                                                 | 2                                                                                 |                                                                                   |
| Detector Phase          | 7                                                                                 | 4                                                                                 | 6                                                                                 | 6                                                                                 | 5                                                                                 | 2                                                                                 |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minimum Initial (s)     | 5.0                                                                               | 6.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                               | 15.0                                                                              |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              |
| Total Split (s)         | 15.0                                                                              | 27.0                                                                              | 52.0                                                                              | 52.0                                                                              | 21.0                                                                              | 73.0                                                                              |
| Total Split (%)         | 15.0%                                                                             | 27.0%                                                                             | 52.0%                                                                             | 52.0%                                                                             | 21.0%                                                                             | 73.0%                                                                             |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               |
| Lead/Lag                |                                                                                   |                                                                                   | Lag                                                                               | Lag                                                                               | Lead                                                                              |                                                                                   |
| Lead-Lag Optimize?      |                                                                                   |                                                                                   | Yes                                                                               | Yes                                                                               | Yes                                                                               |                                                                                   |
| Recall Mode             | None                                                                              | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                              | C-Min                                                                             |
| v/c Ratio               | 0.60                                                                              | 0.66                                                                              | 0.45                                                                              | 0.42                                                                              | 0.41                                                                              | 0.29                                                                              |
| Control Delay           | 51.5                                                                              | 11.7                                                                              | 13.4                                                                              | 2.3                                                                               | 5.5                                                                               | 3.7                                                                               |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Delay             | 51.5                                                                              | 11.7                                                                              | 13.4                                                                              | 2.3                                                                               | 5.5                                                                               | 3.7                                                                               |
| Queue Length 50th (ft)  | 85                                                                                | 0                                                                                 | 161                                                                               | 0                                                                                 | 19                                                                                | 43                                                                                |
| Queue Length 95th (ft)  | 140                                                                               | 75                                                                                | 296                                                                               | 47                                                                                | 67                                                                                | 112                                                                               |
| Internal Link Dist (ft) |                                                                                   |                                                                                   | 1742                                                                              |                                                                                   |                                                                                   | 717                                                                               |
| Turn Bay Length (ft)    |                                                                                   | 340                                                                               |                                                                                   | 390                                                                               | 275                                                                               |                                                                                   |
| Base Capacity (vph)     | 384                                                                               | 589                                                                               | 1130                                                                              | 1160                                                                              | 677                                                                               | 1416                                                                              |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Reduced v/c Ratio       | 0.36                                                                              | 0.54                                                                              | 0.45                                                                              | 0.42                                                                              | 0.38                                                                              | 0.29                                                                              |

## Intersection Summary

Cycle Length: 100

Actuated Cycle Length: 100

Offset: 0 (0%), Referenced to phase 2:SBTL and 6:NBT, Start of Green

Natural Cycle: 65

Control Type: Actuated-Coordinated

Splits and Phases: 8: Post Rd & I-20 EB Ramps



# HCM 6th Signalized Intersection Summary 8: Post Rd & I-20 EB Ramps

1a. Existing 2025 AM  
02/20/2025

|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |                                                                                   |  |                                                                                   |                                                                                   |                                                                                   |                                                                                    |  |  |  |  |                                                                                     |
| Traffic Volume (veh/h)       | 129                                                                               | 0                                                                                 | 295                                                                               | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                  | 469                                                                                 | 444                                                                                 | 235                                                                                 | 374                                                                                 | 0                                                                                   |
| Future Volume (veh/h)        | 129                                                                               | 0                                                                                 | 295                                                                               | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                  | 469                                                                                 | 444                                                                                 | 235                                                                                 | 374                                                                                 | 0                                                                                   |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                               |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                               | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | No                                                                                 |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1885                                                                              | 0                                                                                 | 1856                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1870                                                                                | 1885                                                                                | 1856                                                                                | 1870                                                                                | 0                                                                                   |
| Adj Flow Rate, veh/h         | 140                                                                               | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 510                                                                                 | 483                                                                                 | 255                                                                                 | 407                                                                                 | 0                                                                                   |
| Peak Hour Factor             | 0.92                                                                              | 0.92                                                                              | 0.92                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.92                                                                               | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                |
| Percent Heavy Veh, %         | 1                                                                                 | 0                                                                                 | 3                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 2                                                                                   | 1                                                                                   | 3                                                                                   | 2                                                                                   | 0                                                                                   |
| Cap, veh/h                   | 170                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1255                                                                                | 1072                                                                                | 503                                                                                 | 1488                                                                                | 0                                                                                   |
| Arrive On Green              | 0.09                                                                              | 0.00                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                               | 0.67                                                                                | 0.67                                                                                | 0.14                                                                                | 1.00                                                                                | 0.00                                                                                |
| Sat Flow, veh/h              | 1795                                                                              | 0                                                                                 | 1572                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1870                                                                                | 1598                                                                                | 1767                                                                                | 1870                                                                                | 0                                                                                   |
| Grp Volume(v), veh/h         | 140                                                                               | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 510                                                                                 | 483                                                                                 | 255                                                                                 | 407                                                                                 | 0                                                                                   |
| Grp Sat Flow(s),veh/h/ln     | 1795                                                                              | 0                                                                                 | 1572                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1870                                                                                | 1598                                                                                | 1767                                                                                | 1870                                                                                | 0                                                                                   |
| Q Serve(g_s), s              | 7.7                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 12.3                                                                                | 14.3                                                                                | 4.5                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Cycle Q Clear(g_c), s        | 7.7                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 12.3                                                                                | 14.3                                                                                | 4.5                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                               |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 0.00                                                                                |
| Lane Grp Cap(c), veh/h       | 170                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1255                                                                                | 1072                                                                                | 503                                                                                 | 1488                                                                                | 0                                                                                   |
| V/C Ratio(X)                 | 0.82                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                               | 0.41                                                                                | 0.45                                                                                | 0.51                                                                                | 0.27                                                                                | 0.00                                                                                |
| Avail Cap(c_a), veh/h        | 171                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1255                                                                                | 1072                                                                                | 654                                                                                 | 1488                                                                                | 0                                                                                   |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                               | 1.00                                                                                | 1.00                                                                                | 2.00                                                                                | 2.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 0.00                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                               | 1.00                                                                                | 1.00                                                                                | 0.83                                                                                | 0.83                                                                                | 0.00                                                                                |
| Uniform Delay (d), s/veh     | 44.5                                                                              | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 7.4                                                                                 | 7.8                                                                                 | 4.8                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Incr Delay (d2), s/veh       | 26.7                                                                              | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 1.0                                                                                 | 1.4                                                                                 | 0.7                                                                                 | 0.4                                                                                 | 0.0                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 4.6                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 4.3                                                                                 | 18.2                                                                                | 0.9                                                                                 | 0.2                                                                                 | 0.0                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 71.2                                                                              | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 8.4                                                                                 | 9.1                                                                                 | 5.5                                                                                 | 0.4                                                                                 | 0.0                                                                                 |
| LnGrp LOS                    | E                                                                                 | A                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | A                                                                                  | A                                                                                   | A                                                                                   | A                                                                                   | A                                                                                   | A                                                                                   |
| Approach Vol, veh/h          | 140                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 993                                                                                |                                                                                     |                                                                                     | 662                                                                                 |                                                                                     |                                                                                     |
| Approach Delay, s/veh        | 71.2                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 8.8                                                                                |                                                                                     |                                                                                     | 2.3                                                                                 |                                                                                     |                                                                                     |
| Approach LOS                 | E                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | A                                                                                  |                                                                                     |                                                                                     | A                                                                                   |                                                                                     |                                                                                     |
| Timer - Assigned Phs         | 2                                                                                 |                                                                                   |                                                                                   | 4                                                                                 |                                                                                   |                                                                                   | 5                                                                                  |                                                                                     |                                                                                     | 6                                                                                   |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 85.0                                                                              |                                                                                   |                                                                                   | 15.0                                                                              |                                                                                   |                                                                                   | 12.5                                                                               |                                                                                     |                                                                                     | 72.6                                                                                |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 5.5                                                                               |                                                                                   |                                                                                   | 5.5                                                                               |                                                                                   |                                                                                   | 5.5                                                                                |                                                                                     |                                                                                     | 5.5                                                                                 |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 67.5                                                                              |                                                                                   |                                                                                   | 9.5                                                                               |                                                                                   |                                                                                   | 15.5                                                                               |                                                                                     |                                                                                     | 46.5                                                                                |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 2.0                                                                               |                                                                                   |                                                                                   | 9.7                                                                               |                                                                                   |                                                                                   | 6.5                                                                                |                                                                                     |                                                                                     | 16.3                                                                                |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 5.4                                                                               |                                                                                   |                                                                                   | 0.0                                                                               |                                                                                   |                                                                                   | 0.5                                                                                |                                                                                     |                                                                                     | 11.5                                                                                |                                                                                     |                                                                                     |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th Ctrl Delay           | 11.3                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th LOS                  | B                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

## Notes

Unsignalized Delay for [EBR] is excluded from calculations of the approach delay and intersection delay.

# Timings

1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)

1b. Existing 2025 PM

02/20/2025

|                         | →     | ↘     | ↙     | ←     | ↖     | ↗     |
|-------------------------|-------|-------|-------|-------|-------|-------|
| Lane Group              | EBT   | EBR   | WBL   | WBT   | NBL   | NBR   |
| Lane Configurations     | ↑     | ↑     | ↘     | ↑     | ↘     | ↘     |
| Traffic Volume (vph)    | 648   | 105   | 190   | 676   | 127   | 322   |
| Future Volume (vph)     | 648   | 105   | 190   | 676   | 127   | 322   |
| Lane Group Flow (vph)   | 736   | 119   | 216   | 768   | 144   | 366   |
| Turn Type               | NA    | Perm  | pm+pt | NA    | Prot  | Perm  |
| Protected Phases        | 6     |       | 5     | 2     | 8     |       |
| Permitted Phases        |       | 6     | 2     |       |       | 8     |
| Detector Phase          | 6     | 6     | 5     | 2     | 8     | 8     |
| Switch Phase            |       |       |       |       |       |       |
| Minimum Initial (s)     | 15.0  | 15.0  | 5.0   | 15.0  | 6.0   | 6.0   |
| Minimum Split (s)       | 23.5  | 23.5  | 15.0  | 23.5  | 23.5  | 23.5  |
| Total Split (s)         | 73.0  | 73.0  | 17.0  | 90.0  | 30.0  | 30.0  |
| Total Split (%)         | 60.8% | 60.8% | 14.2% | 75.0% | 25.0% | 25.0% |
| Yellow Time (s)         | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)     | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| Lead/Lag                | Lag   | Lag   | Lead  |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   | Yes   |       |       |       |
| Recall Mode             | Min   | Min   | None  | Min   | None  | None  |
| v/c Ratio               | 0.80  | 0.14  | 0.53  | 0.60  | 0.56  | 0.70  |
| Control Delay           | 25.0  | 2.6   | 10.1  | 9.0   | 46.3  | 14.7  |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay             | 25.0  | 2.6   | 10.1  | 9.0   | 46.3  | 14.7  |
| Queue Length 50th (ft)  | 303   | 0     | 31    | 169   | 71    | 18    |
| Queue Length 95th (ft)  | 503   | 23    | 71    | 330   | 161   | 112   |
| Internal Link Dist (ft) | 295   |       |       | 1352  | 1634  |       |
| Turn Bay Length (ft)    |       |       | 350   |       |       | 285   |
| Base Capacity (vph)     | 1442  | 1238  | 422   | 1658  | 485   | 705   |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0     |
| Spillback Cap Reductn   | 0     | 0     | 0     | 0     | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     | 0     | 0     | 0     | 0     |
| Reduced v/c Ratio       | 0.51  | 0.10  | 0.51  | 0.46  | 0.30  | 0.52  |

## Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 86.2

Natural Cycle: 80

Control Type: Actuated-Uncoordinated

Splits and Phases: 1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)



HCM 6th Signalized Intersection Summary  
1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)

1b. Existing 2025 PM  
02/20/2025

|                              |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Movement                     | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | NBL                                                                               | NBR                                                                               |
| Lane Configurations          |  |  |  |  |  |  |
| Traffic Volume (veh/h)       | 648                                                                               | 105                                                                               | 190                                                                               | 676                                                                               | 127                                                                               | 322                                                                               |
| Future Volume (veh/h)        | 648                                                                               | 105                                                                               | 190                                                                               | 676                                                                               | 127                                                                               | 322                                                                               |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Ped-Bike Adj(A_pbT)          |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   | No                                                                                | No                                                                                |                                                                                   |
| Adj Sat Flow, veh/h/ln       | 1826                                                                              | 1811                                                                              | 1870                                                                              | 1826                                                                              | 1722                                                                              | 1870                                                                              |
| Adj Flow Rate, veh/h         | 736                                                                               | 0                                                                                 | 216                                                                               | 768                                                                               | 144                                                                               | 0                                                                                 |
| Peak Hour Factor             | 0.88                                                                              | 0.88                                                                              | 0.88                                                                              | 0.88                                                                              | 0.88                                                                              | 0.88                                                                              |
| Percent Heavy Veh, %         | 5                                                                                 | 6                                                                                 | 2                                                                                 | 5                                                                                 | 12                                                                                | 2                                                                                 |
| Cap, veh/h                   | 985                                                                               |                                                                                   | 428                                                                               | 1297                                                                              | 184                                                                               |                                                                                   |
| Arrive On Green              | 0.54                                                                              | 0.00                                                                              | 0.08                                                                              | 0.71                                                                              | 0.11                                                                              | 0.00                                                                              |
| Sat Flow, veh/h              | 1826                                                                              | 1535                                                                              | 1781                                                                              | 1826                                                                              | 1640                                                                              | 1585                                                                              |
| Grp Volume(v), veh/h         | 736                                                                               | 0                                                                                 | 216                                                                               | 768                                                                               | 144                                                                               | 0                                                                                 |
| Grp Sat Flow(s),veh/h/ln     | 1826                                                                              | 1535                                                                              | 1781                                                                              | 1826                                                                              | 1640                                                                              | 1585                                                                              |
| Q Serve(g_s), s              | 19.3                                                                              | 0.0                                                                               | 3.0                                                                               | 13.1                                                                              | 5.3                                                                               | 0.0                                                                               |
| Cycle Q Clear(g_c), s        | 19.3                                                                              | 0.0                                                                               | 3.0                                                                               | 13.1                                                                              | 5.3                                                                               | 0.0                                                                               |
| Prop In Lane                 |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |
| Lane Grp Cap(c), veh/h       | 985                                                                               |                                                                                   | 428                                                                               | 1297                                                                              | 184                                                                               |                                                                                   |
| V/C Ratio(X)                 | 0.75                                                                              |                                                                                   | 0.50                                                                              | 0.59                                                                              | 0.78                                                                              |                                                                                   |
| Avail Cap(c_a), veh/h        | 1983                                                                              |                                                                                   | 610                                                                               | 2482                                                                              | 646                                                                               |                                                                                   |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Upstream Filter(I)           | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              |
| Uniform Delay (d), s/veh     | 11.0                                                                              | 0.0                                                                               | 9.5                                                                               | 4.5                                                                               | 26.8                                                                              | 0.0                                                                               |
| Incr Delay (d2), s/veh       | 2.4                                                                               | 0.0                                                                               | 0.9                                                                               | 0.9                                                                               | 7.0                                                                               | 0.0                                                                               |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| %ile BackOfQ(50%),veh/ln     | 6.1                                                                               | 0.0                                                                               | 0.8                                                                               | 2.2                                                                               | 2.2                                                                               | 0.0                                                                               |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| LnGrp Delay(d),s/veh         | 13.5                                                                              | 0.0                                                                               | 10.4                                                                              | 5.4                                                                               | 33.9                                                                              | 0.0                                                                               |
| LnGrp LOS                    | B                                                                                 |                                                                                   | B                                                                                 | A                                                                                 | C                                                                                 |                                                                                   |
| Approach Vol, veh/h          | 736                                                                               |                                                                                   |                                                                                   | 984                                                                               | 144                                                                               |                                                                                   |
| Approach Delay, s/veh        | 13.5                                                                              |                                                                                   |                                                                                   | 6.5                                                                               | 33.9                                                                              |                                                                                   |
| Approach LOS                 | B                                                                                 |                                                                                   |                                                                                   | A                                                                                 | C                                                                                 |                                                                                   |
| Timer - Assigned Phs         | 2                                                                                 |                                                                                   | 5                                                                                 |                                                                                   | 6                                                                                 | 8                                                                                 |
| Phs Duration (G+Y+Rc), s     | 49.7                                                                              |                                                                                   | 10.6                                                                              |                                                                                   | 39.0                                                                              | 12.5                                                                              |
| Change Period (Y+Rc), s      | 5.5                                                                               |                                                                                   | 5.5                                                                               |                                                                                   | 5.5                                                                               | 5.5                                                                               |
| Max Green Setting (Gmax), s  | 84.5                                                                              |                                                                                   | 11.5                                                                              |                                                                                   | 67.5                                                                              | 24.5                                                                              |
| Max Q Clear Time (g_c+I1), s | 15.1                                                                              |                                                                                   | 5.0                                                                               |                                                                                   | 21.3                                                                              | 7.3                                                                               |
| Green Ext Time (p_c), s      | 14.1                                                                              |                                                                                   | 0.3                                                                               |                                                                                   | 12.2                                                                              | 0.3                                                                               |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| HCM 6th Ctrl Delay           | 11.4                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| HCM 6th LOS                  | B                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Notes                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |

| Intersection             |        |                                                                                   |                                                                                   |        |                                                                                   |      |
|--------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|------|
| Int Delay, s/veh         | 0.1    |                                                                                   |                                                                                   |        |                                                                                   |      |
| Movement                 | EBL    | EBT                                                                               | WBT                                                                               | WBR    | SBL                                                                               | SBR  |
| Lane Configurations      |        |  |  |        |  |      |
| Traffic Vol, veh/h       | 1      | 337                                                                               | 474                                                                               | 4      | 8                                                                                 | 0    |
| Future Vol, veh/h        | 1      | 337                                                                               | 474                                                                               | 4      | 8                                                                                 | 0    |
| Conflicting Peds, #/hr   | 0      | 0                                                                                 | 0                                                                                 | 0      | 0                                                                                 | 0    |
| Sign Control             | Free   | Free                                                                              | Free                                                                              | Free   | Stop                                                                              | Stop |
| RT Channelized           | -      | None                                                                              | -                                                                                 | None   | -                                                                                 | None |
| Storage Length           | -      | -                                                                                 | -                                                                                 | -      | 0                                                                                 | -    |
| Veh in Median Storage, # | -      | 0                                                                                 | 0                                                                                 | -      | 0                                                                                 | -    |
| Grade, %                 | -      | 0                                                                                 | 0                                                                                 | -      | 0                                                                                 | -    |
| Peak Hour Factor         | 97     | 97                                                                                | 97                                                                                | 97     | 97                                                                                | 97   |
| Heavy Vehicles, %        | 0      | 8                                                                                 | 4                                                                                 | 0      | 13                                                                                | 0    |
| Mvmt Flow                | 1      | 347                                                                               | 489                                                                               | 4      | 8                                                                                 | 0    |
| Major/Minor              | Major1 | Major2                                                                            |                                                                                   | Minor2 |                                                                                   |      |
| Conflicting Flow All     | 493    | 0                                                                                 | -                                                                                 | 0      | 667                                                                               | 491  |
| Stage 1                  | -      | -                                                                                 | -                                                                                 | -      | 491                                                                               | -    |
| Stage 2                  | -      | -                                                                                 | -                                                                                 | -      | 176                                                                               | -    |
| Critical Hdwy            | 4.1    | -                                                                                 | -                                                                                 | -      | 6.795                                                                             | 6.2  |
| Critical Hdwy Stg 1      | -      | -                                                                                 | -                                                                                 | -      | 5.595                                                                             | -    |
| Critical Hdwy Stg 2      | -      | -                                                                                 | -                                                                                 | -      | 5.995                                                                             | -    |
| Follow-up Hdwy           | 2.2    | -                                                                                 | -                                                                                 | -      | 3.6235                                                                            | 3.3  |
| Pot Cap-1 Maneuver       | 1081   | -                                                                                 | -                                                                                 | -      | 387                                                                               | 582  |
| Stage 1                  | -      | -                                                                                 | -                                                                                 | -      | 587                                                                               | -    |
| Stage 2                  | -      | -                                                                                 | -                                                                                 | -      | 809                                                                               | -    |
| Platoon blocked, %       |        | -                                                                                 | -                                                                                 | -      |                                                                                   |      |
| Mov Cap-1 Maneuver       | 1081   | -                                                                                 | -                                                                                 | -      | 387                                                                               | 582  |
| Mov Cap-2 Maneuver       | -      | -                                                                                 | -                                                                                 | -      | 387                                                                               | -    |
| Stage 1                  | -      | -                                                                                 | -                                                                                 | -      | 586                                                                               | -    |
| Stage 2                  | -      | -                                                                                 | -                                                                                 | -      | 809                                                                               | -    |
| Approach                 | EB     | WB                                                                                |                                                                                   | SB     |                                                                                   |      |
| HCM Control Delay, s     | 0      | 0                                                                                 |                                                                                   | 14.5   |                                                                                   |      |
| HCM LOS                  |        |                                                                                   |                                                                                   | B      |                                                                                   |      |
| Minor Lane/Major Mvmt    | EBL    | EBT                                                                               | WBT                                                                               | WBR    | SBLn1                                                                             |      |
| Capacity (veh/h)         | 1081   | -                                                                                 | -                                                                                 | -      | 387                                                                               |      |
| HCM Lane V/C Ratio       | 0.001  | -                                                                                 | -                                                                                 | -      | 0.021                                                                             |      |
| HCM Control Delay (s)    | 8.3    | 0                                                                                 | -                                                                                 | -      | 14.5                                                                              |      |
| HCM Lane LOS             | A      | A                                                                                 | -                                                                                 | -      | B                                                                                 |      |
| HCM 95th %tile Q(veh)    | 0      | -                                                                                 | -                                                                                 | -      | 0.1                                                                               |      |

| Intersection             |        |       |      |        |       |      |        |       |      |        |      |      |
|--------------------------|--------|-------|------|--------|-------|------|--------|-------|------|--------|------|------|
| Int Delay, s/veh         | 0.9    |       |      |        |       |      |        |       |      |        |      |      |
| Movement                 | EBL    | EBT   | EBR  | WBL    | WBT   | WBR  | NBL    | NBT   | NBR  | SBL    | SBT  | SBR  |
| Lane Configurations      |        | ↕     |      |        | ↕     |      |        | ↕     |      |        | ↕    |      |
| Traffic Vol, veh/h       | 3      | 369   | 3    | 22     | 626   | 3    | 11     | 1     | 24   | 3      | 1    | 2    |
| Future Vol, veh/h        | 3      | 369   | 3    | 22     | 626   | 3    | 11     | 1     | 24   | 3      | 1    | 2    |
| Conflicting Peds, #/hr   | 0      | 0     | 0    | 0      | 0     | 0    | 0      | 0     | 0    | 0      | 0    | 0    |
| Sign Control             | Free   | Free  | Free | Free   | Free  | Free | Stop   | Stop  | Stop | Stop   | Stop | Stop |
| RT Channelized           | -      | -     | None | -      | -     | None | -      | -     | None | -      | -    | None |
| Storage Length           | -      | -     | -    | -      | -     | -    | -      | -     | -    | -      | -    | -    |
| Veh in Median Storage, # | -      | 0     | -    | -      | 0     | -    | -      | 0     | -    | -      | 0    | -    |
| Grade, %                 | -      | 0     | -    | -      | 0     | -    | -      | 0     | -    | -      | 0    | -    |
| Peak Hour Factor         | 90     | 90    | 90   | 90     | 90    | 90   | 90     | 90    | 90   | 90     | 90   | 90   |
| Heavy Vehicles, %        | 0      | 5     | 0    | 0      | 2     | 33   | 0      | 0     | 0    | 0      | 0    | 0    |
| Mvmt Flow                | 3      | 410   | 3    | 24     | 696   | 3    | 12     | 1     | 27   | 3      | 1    | 2    |
|                          |        |       |      |        |       |      |        |       |      |        |      |      |
| Major/Minor              | Major1 |       |      | Major2 |       |      | Minor1 |       |      | Minor2 |      |      |
| Conflicting Flow All     | 699    | 0     | 0    | 413    | 0     | 0    | 1165   | 1165  | 412  | 1178   | 1165 | 698  |
| Stage 1                  | -      | -     | -    | -      | -     | -    | 418    | 418   | -    | 746    | 746  | -    |
| Stage 2                  | -      | -     | -    | -      | -     | -    | 747    | 747   | -    | 432    | 419  | -    |
| Critical Hdwy            | 4.1    | -     | -    | 4.1    | -     | -    | 7.1    | 6.5   | 6.2  | 7.1    | 6.5  | 6.2  |
| Critical Hdwy Stg 1      | -      | -     | -    | -      | -     | -    | 6.1    | 5.5   | -    | 6.1    | 5.5  | -    |
| Critical Hdwy Stg 2      | -      | -     | -    | -      | -     | -    | 6.1    | 5.5   | -    | 6.1    | 5.5  | -    |
| Follow-up Hdwy           | 2.2    | -     | -    | 2.2    | -     | -    | 3.5    | 4     | 3.3  | 3.5    | 4    | 3.3  |
| Pot Cap-1 Maneuver       | 907    | -     | -    | 1157   | -     | -    | 173    | 196   | 644  | 169    | 196  | 444  |
| Stage 1                  | -      | -     | -    | -      | -     | -    | 616    | 594   | -    | 409    | 424  | -    |
| Stage 2                  | -      | -     | -    | -      | -     | -    | 408    | 423   | -    | 606    | 593  | -    |
| Platoon blocked, %       |        | -     | -    |        | -     | -    |        |       |      |        |      |      |
| Mov Cap-1 Maneuver       | 907    | -     | -    | 1157   | -     | -    | 166    | 189   | 644  | 157    | 189  | 444  |
| Mov Cap-2 Maneuver       | -      | -     | -    | -      | -     | -    | 166    | 189   | -    | 157    | 189  | -    |
| Stage 1                  | -      | -     | -    | -      | -     | -    | 614    | 592   | -    | 407    | 410  | -    |
| Stage 2                  | -      | -     | -    | -      | -     | -    | 391    | 409   | -    | 577    | 591  | -    |
|                          |        |       |      |        |       |      |        |       |      |        |      |      |
| Approach                 | EB     |       |      | WB     |       |      | NB     |       |      | SB     |      |      |
| HCM Control Delay, s     | 0.1    |       |      | 0.3    |       |      | 17.4   |       |      | 22.9   |      |      |
| HCM LOS                  |        |       |      |        |       |      | C      |       |      | C      |      |      |
|                          |        |       |      |        |       |      |        |       |      |        |      |      |
| Minor Lane/Major Mvmt    | NBLn1  | EBL   | EBT  | EBR    | WBL   | WBT  | WBR    | SBLn1 |      |        |      |      |
| Capacity (veh/h)         | 331    | 907   | -    | -      | 1157  | -    | -      | 208   |      |        |      |      |
| HCM Lane V/C Ratio       | 0.121  | 0.004 | -    | -      | 0.021 | -    | -      | 0.032 |      |        |      |      |
| HCM Control Delay (s)    | 17.4   | 9     | 0    | -      | 8.2   | 0    | -      | 22.9  |      |        |      |      |
| HCM Lane LOS             | C      | A     | A    | -      | A     | A    | -      | C     |      |        |      |      |
| HCM 95th %tile Q(veh)    | 0.4    | 0     | -    | -      | 0.1   | -    | -      | 0.1   |      |        |      |      |

| Intersection             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Int Delay, s/veh         | 0.6                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Movement                 | EBL                                                                               | EBT                                                                               | WBT                                                                               | WBR                                                                               | SBL                                                                               | SBR                                                                               |
| Lane Configurations      |  |  |  |  |  |  |
| Traffic Vol, veh/h       | 5                                                                                 | 427                                                                               | 526                                                                               | 15                                                                                | 19                                                                                | 24                                                                                |
| Future Vol, veh/h        | 5                                                                                 | 427                                                                               | 526                                                                               | 15                                                                                | 19                                                                                | 24                                                                                |
| Conflicting Peds, #/hr   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Sign Control             | Free                                                                              | Free                                                                              | Free                                                                              | Free                                                                              | Stop                                                                              | Stop                                                                              |
| RT Channelized           | -                                                                                 | None                                                                              | -                                                                                 | Yield                                                                             | -                                                                                 | Yield                                                                             |
| Storage Length           | 155                                                                               | -                                                                                 | -                                                                                 | 175                                                                               | 0                                                                                 | -                                                                                 |
| Veh in Median Storage, # | -                                                                                 | 0                                                                                 | 0                                                                                 | -                                                                                 | 0                                                                                 | -                                                                                 |
| Grade, %                 | -                                                                                 | 0                                                                                 | 0                                                                                 | -                                                                                 | 0                                                                                 | -                                                                                 |
| Peak Hour Factor         | 86                                                                                | 86                                                                                | 86                                                                                | 86                                                                                | 86                                                                                | 86                                                                                |
| Heavy Vehicles, %        | 0                                                                                 | 7                                                                                 | 2                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Mvmt Flow                | 6                                                                                 | 497                                                                               | 612                                                                               | 17                                                                                | 22                                                                                | 28                                                                                |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Major/Minor              | Major1                                                                            | Major2                                                                            |                                                                                   | Minor2                                                                            |                                                                                   |                                                                                   |
| Conflicting Flow All     | 612                                                                               | 0                                                                                 | -                                                                                 | 0                                                                                 | 1121                                                                              | 612                                                                               |
| Stage 1                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 612                                                                               | -                                                                                 |
| Stage 2                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 509                                                                               | -                                                                                 |
| Critical Hdwy            | 4.1                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | 6.4                                                                               | 6.2                                                                               |
| Critical Hdwy Stg 1      | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 5.4                                                                               | -                                                                                 |
| Critical Hdwy Stg 2      | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 5.4                                                                               | -                                                                                 |
| Follow-up Hdwy           | 2.2                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | 3.5                                                                               | 3.3                                                                               |
| Pot Cap-1 Maneuver       | 977                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | 230                                                                               | 497                                                                               |
| Stage 1                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 545                                                                               | -                                                                                 |
| Stage 2                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 608                                                                               | -                                                                                 |
| Platoon blocked, %       |                                                                                   | -                                                                                 | -                                                                                 | -                                                                                 |                                                                                   |                                                                                   |
| Mov Cap-1 Maneuver       | 977                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | 229                                                                               | 497                                                                               |
| Mov Cap-2 Maneuver       | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 229                                                                               | -                                                                                 |
| Stage 1                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 542                                                                               | -                                                                                 |
| Stage 2                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 608                                                                               | -                                                                                 |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Approach                 | EB                                                                                | WB                                                                                |                                                                                   | SB                                                                                |                                                                                   |                                                                                   |
| HCM Control Delay, s     | 0.1                                                                               | 0                                                                                 |                                                                                   | 12.7                                                                              |                                                                                   |                                                                                   |
| HCM LOS                  | B                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minor Lane/Major Mvmt    | EBL                                                                               | EBT                                                                               | WBT                                                                               | WBR                                                                               | SBLn1                                                                             |                                                                                   |
| Capacity (veh/h)         | 977                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | 518                                                                               |                                                                                   |
| HCM Lane V/C Ratio       | 0.006                                                                             | -                                                                                 | -                                                                                 | -                                                                                 | 0.097                                                                             |                                                                                   |
| HCM Control Delay (s)    | 8.7                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | 12.7                                                                              |                                                                                   |
| HCM Lane LOS             | A                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | B                                                                                 |                                                                                   |
| HCM 95th %tile Q(veh)    | 0                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 0.3                                                                               |                                                                                   |

# Timings

## 5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)

1b. Existing 2025 PM

02/20/2025

|                         |  |  |  |  |  |  |   |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Lane Group              | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 |
| Lane Configurations     |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph)    | 22                                                                                | 200                                                                               | 162                                                                               | 267                                                                               | 347                                                                               | 116                                                                               | 138                                                                                 | 228                                                                                 | 106                                                                                 | 81                                                                                  | 139                                                                                 |
| Future Volume (vph)     | 22                                                                                | 200                                                                               | 162                                                                               | 267                                                                               | 347                                                                               | 116                                                                               | 138                                                                                 | 228                                                                                 | 106                                                                                 | 81                                                                                  | 139                                                                                 |
| Lane Group Flow (vph)   | 24                                                                                | 217                                                                               | 176                                                                               | 290                                                                               | 377                                                                               | 126                                                                               | 150                                                                                 | 248                                                                                 | 115                                                                                 | 88                                                                                  | 161                                                                                 |
| Turn Type               | pm+pt                                                                             | NA                                                                                | Perm                                                                              | pm+pt                                                                             | NA                                                                                | Perm                                                                              | pm+pt                                                                               | NA                                                                                  | Perm                                                                                | pm+pt                                                                               | NA                                                                                  |
| Protected Phases        | 1                                                                                 | 6                                                                                 |                                                                                   | 5                                                                                 | 2                                                                                 |                                                                                   | 3                                                                                   | 8                                                                                   |                                                                                     | 7                                                                                   | 4                                                                                   |
| Permitted Phases        | 6                                                                                 |                                                                                   | 6                                                                                 | 2                                                                                 |                                                                                   | 2                                                                                 | 8                                                                                   |                                                                                     | 8                                                                                   | 4                                                                                   |                                                                                     |
| Detector Phase          | 1                                                                                 | 6                                                                                 | 6                                                                                 | 5                                                                                 | 2                                                                                 | 2                                                                                 | 3                                                                                   | 8                                                                                   | 8                                                                                   | 7                                                                                   | 4                                                                                   |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Minimum Initial (s)     | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                                 | 6.0                                                                                 | 6.0                                                                                 | 5.0                                                                                 | 6.0                                                                                 |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                                | 23.5                                                                                | 23.5                                                                                | 15.0                                                                                | 23.5                                                                                |
| Total Split (s)         | 15.0                                                                              | 40.0                                                                              | 40.0                                                                              | 27.0                                                                              | 52.0                                                                              | 52.0                                                                              | 17.0                                                                                | 36.0                                                                                | 36.0                                                                                | 17.0                                                                                | 36.0                                                                                |
| Total Split (%)         | 12.5%                                                                             | 33.3%                                                                             | 33.3%                                                                             | 22.5%                                                                             | 43.3%                                                                             | 43.3%                                                                             | 14.2%                                                                               | 30.0%                                                                               | 30.0%                                                                               | 14.2%                                                                               | 30.0%                                                                               |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 |
| Lead/Lag                | Lead                                                                              | Lag                                                                               | Lag                                                                               | Lead                                                                              | Lag                                                                               | Lag                                                                               | Lead                                                                                | Lag                                                                                 | Lag                                                                                 | Lead                                                                                | Lag                                                                                 |
| Lead-Lag Optimize?      | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 |
| Recall Mode             | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                                | None                                                                                | None                                                                                | None                                                                                | None                                                                                |
| v/c Ratio               | 0.05                                                                              | 0.27                                                                              | 0.22                                                                              | 0.42                                                                              | 0.37                                                                              | 0.14                                                                              | 0.46                                                                                | 0.76                                                                                | 0.28                                                                                | 0.37                                                                                | 0.52                                                                                |
| Control Delay           | 13.2                                                                              | 26.1                                                                              | 5.0                                                                               | 14.3                                                                              | 19.8                                                                              | 3.8                                                                               | 35.3                                                                                | 61.5                                                                                | 2.8                                                                                 | 33.5                                                                                | 49.8                                                                                |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Total Delay             | 13.2                                                                              | 26.1                                                                              | 5.0                                                                               | 14.3                                                                              | 19.8                                                                              | 3.8                                                                               | 35.3                                                                                | 61.5                                                                                | 2.8                                                                                 | 33.5                                                                                | 49.8                                                                                |
| Queue Length 50th (ft)  | 7                                                                                 | 106                                                                               | 0                                                                                 | 101                                                                               | 176                                                                               | 0                                                                                 | 88                                                                                  | 184                                                                                 | 0                                                                                   | 50                                                                                  | 113                                                                                 |
| Queue Length 95th (ft)  | 22                                                                                | 205                                                                               | 51                                                                                | 178                                                                               | 297                                                                               | 36                                                                                | 129                                                                                 | 258                                                                                 | 11                                                                                  | 82                                                                                  | 169                                                                                 |
| Internal Link Dist (ft) |                                                                                   | 2443                                                                              |                                                                                   |                                                                                   | 3462                                                                              |                                                                                   |                                                                                     | 2898                                                                                |                                                                                     |                                                                                     | 998                                                                                 |
| Turn Bay Length (ft)    | 300                                                                               |                                                                                   | 225                                                                               | 355                                                                               |                                                                                   | 225                                                                               | 190                                                                                 |                                                                                     | 200                                                                                 | 160                                                                                 |                                                                                     |
| Base Capacity (vph)     | 559                                                                               | 794                                                                               | 787                                                                               | 741                                                                               | 1015                                                                              | 911                                                                               | 331                                                                                 | 478                                                                                 | 519                                                                                 | 261                                                                                 | 476                                                                                 |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Reduced v/c Ratio       | 0.04                                                                              | 0.27                                                                              | 0.22                                                                              | 0.39                                                                              | 0.37                                                                              | 0.14                                                                              | 0.45                                                                                | 0.52                                                                                | 0.22                                                                                | 0.34                                                                                | 0.34                                                                                |

### Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 120

Offset: 0 (0%), Referenced to phase 2:WBTL and 6:EBTL, Start of Green

Natural Cycle: 80

Control Type: Actuated-Coordinated

Splits and Phases: 5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |  |  |  |  |  |
| Ø1                                                                                  | Ø2 (R)                                                                              |                                                                                     | Ø3                                                                                  | Ø4                                                                                  |                                                                                     | Ø5                                                                                  | Ø6 (R)                                                                              | Ø7                                                                                  | Ø8                                                                                   |                                                                                       |                                                                                       |
| 15 s                                                                                | 52 s                                                                                |                                                                                     | 17 s                                                                                | 36 s                                                                                |                                                                                     | 27 s                                                                                | 40 s                                                                                | 17 s                                                                                | 36 s                                                                                 |                                                                                       |                                                                                       |

HCM 6th Signalized Intersection Summary  
5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)

1b. Existing 2025 PM  
02/20/2025

|                              |  |  |  |  |  |  |   |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h)       | 22                                                                                | 200                                                                               | 162                                                                               | 267                                                                               | 347                                                                               | 116                                                                               | 138                                                                                 | 228                                                                                 | 106                                                                                 | 81                                                                                  | 139                                                                                 | 9                                                                                   |
| Future Volume (veh/h)        | 22                                                                                | 200                                                                               | 162                                                                               | 267                                                                               | 347                                                                               | 116                                                                               | 138                                                                                 | 228                                                                                 | 106                                                                                 | 81                                                                                  | 139                                                                                 | 9                                                                                   |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   | No                                                                                |                                                                                   |                                                                                   | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1826                                                                              | 1841                                                                              | 1870                                                                              | 1885                                                                              | 1870                                                                              | 1856                                                                              | 1900                                                                                | 1885                                                                                | 1826                                                                                | 1826                                                                                | 1885                                                                                | 1900                                                                                |
| Adj Flow Rate, veh/h         | 24                                                                                | 217                                                                               | 0                                                                                 | 290                                                                               | 377                                                                               | 0                                                                                 | 150                                                                                 | 248                                                                                 | 0                                                                                   | 88                                                                                  | 151                                                                                 | 0                                                                                   |
| Peak Hour Factor             | 0.92                                                                              | 0.92                                                                              | 0.92                                                                              | 0.92                                                                              | 0.92                                                                              | 0.92                                                                              | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                |
| Percent Heavy Veh, %         | 5                                                                                 | 4                                                                                 | 2                                                                                 | 1                                                                                 | 2                                                                                 | 3                                                                                 | 0                                                                                   | 1                                                                                   | 5                                                                                   | 5                                                                                   | 1                                                                                   | 0                                                                                   |
| Cap, veh/h                   | 569                                                                               | 942                                                                               |                                                                                   | 753                                                                               | 1091                                                                              |                                                                                   | 277                                                                                 | 288                                                                                 |                                                                                     | 187                                                                                 | 232                                                                                 |                                                                                     |
| Arrive On Green              | 0.02                                                                              | 0.51                                                                              | 0.00                                                                              | 0.09                                                                              | 0.58                                                                              | 0.00                                                                              | 0.09                                                                                | 0.15                                                                                | 0.00                                                                                | 0.06                                                                                | 0.12                                                                                | 0.00                                                                                |
| Sat Flow, veh/h              | 1739                                                                              | 1841                                                                              | 1585                                                                              | 1795                                                                              | 1870                                                                              | 1572                                                                              | 1810                                                                                | 1885                                                                                | 1547                                                                                | 1739                                                                                | 1885                                                                                | 0                                                                                   |
| Grp Volume(v), veh/h         | 24                                                                                | 217                                                                               | 0                                                                                 | 290                                                                               | 377                                                                               | 0                                                                                 | 150                                                                                 | 248                                                                                 | 0                                                                                   | 88                                                                                  | 151                                                                                 | 0                                                                                   |
| Grp Sat Flow(s),veh/h/ln     | 1739                                                                              | 1841                                                                              | 1585                                                                              | 1795                                                                              | 1870                                                                              | 1572                                                                              | 1810                                                                                | 1885                                                                                | 1547                                                                                | 1739                                                                                | 1885                                                                                | 0                                                                                   |
| Q Serve(g_s), s              | 0.8                                                                               | 7.8                                                                               | 0.0                                                                               | 8.7                                                                               | 12.6                                                                              | 0.0                                                                               | 8.6                                                                                 | 15.4                                                                                | 0.0                                                                                 | 5.2                                                                                 | 9.2                                                                                 | 0.0                                                                                 |
| Cycle Q Clear(g_c), s        | 0.8                                                                               | 7.8                                                                               | 0.0                                                                               | 8.7                                                                               | 12.6                                                                              | 0.0                                                                               | 8.6                                                                                 | 15.4                                                                                | 0.0                                                                                 | 5.2                                                                                 | 9.2                                                                                 | 0.0                                                                                 |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 0.00                                                                                |
| Lane Grp Cap(c), veh/h       | 569                                                                               | 942                                                                               |                                                                                   | 753                                                                               | 1091                                                                              |                                                                                   | 277                                                                                 | 288                                                                                 |                                                                                     | 187                                                                                 | 232                                                                                 |                                                                                     |
| V/C Ratio(X)                 | 0.04                                                                              | 0.23                                                                              |                                                                                   | 0.38                                                                              | 0.35                                                                              |                                                                                   | 0.54                                                                                | 0.86                                                                                |                                                                                     | 0.47                                                                                | 0.65                                                                                |                                                                                     |
| Avail Cap(c_a), veh/h        | 667                                                                               | 942                                                                               |                                                                                   | 905                                                                               | 1091                                                                              |                                                                                   | 292                                                                                 | 479                                                                                 |                                                                                     | 254                                                                                 | 479                                                                                 |                                                                                     |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 0.97                                                                                | 0.97                                                                                | 0.00                                                                                | 1.00                                                                                | 1.00                                                                                | 0.00                                                                                |
| Uniform Delay (d), s/veh     | 13.2                                                                              | 16.2                                                                              | 0.0                                                                               | 10.7                                                                              | 13.1                                                                              | 0.0                                                                               | 41.1                                                                                | 49.6                                                                                | 0.0                                                                                 | 43.1                                                                                | 50.2                                                                                | 0.0                                                                                 |
| Incr Delay (d2), s/veh       | 0.0                                                                               | 0.6                                                                               | 0.0                                                                               | 0.3                                                                               | 0.9                                                                               | 0.0                                                                               | 1.8                                                                                 | 8.0                                                                                 | 0.0                                                                                 | 1.8                                                                                 | 3.1                                                                                 | 0.0                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 0.3                                                                               | 3.3                                                                               | 0.0                                                                               | 3.2                                                                               | 5.2                                                                               | 0.0                                                                               | 3.8                                                                                 | 7.7                                                                                 | 0.0                                                                                 | 2.3                                                                                 | 4.5                                                                                 | 0.0                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 13.3                                                                              | 16.8                                                                              | 0.0                                                                               | 11.0                                                                              | 13.9                                                                              | 0.0                                                                               | 42.8                                                                                | 57.6                                                                                | 0.0                                                                                 | 44.9                                                                                | 53.2                                                                                | 0.0                                                                                 |
| LnGrp LOS                    | B                                                                                 | B                                                                                 |                                                                                   | B                                                                                 | B                                                                                 |                                                                                   | D                                                                                   | E                                                                                   |                                                                                     | D                                                                                   | D                                                                                   |                                                                                     |
| Approach Vol, veh/h          | 241                                                                               |                                                                                   |                                                                                   | 667                                                                               |                                                                                   |                                                                                   | 398                                                                                 |                                                                                     |                                                                                     | 239                                                                                 |                                                                                     |                                                                                     |
| Approach Delay, s/veh        | 16.4                                                                              |                                                                                   |                                                                                   | 12.7                                                                              |                                                                                   |                                                                                   | 52.0                                                                                |                                                                                     |                                                                                     | 50.2                                                                                |                                                                                     |                                                                                     |
| Approach LOS                 | B                                                                                 |                                                                                   |                                                                                   | B                                                                                 |                                                                                   |                                                                                   | D                                                                                   |                                                                                     |                                                                                     | D                                                                                   |                                                                                     |                                                                                     |
| Timer - Assigned Phs         | 1                                                                                 | 2                                                                                 | 3                                                                                 | 4                                                                                 | 5                                                                                 | 6                                                                                 | 7                                                                                   | 8                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 8.3                                                                               | 75.5                                                                              | 16.0                                                                              | 20.3                                                                              | 16.8                                                                              | 66.9                                                                              | 12.4                                                                                | 23.9                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                                 | 5.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 9.5                                                                               | 46.5                                                                              | 11.5                                                                              | 30.5                                                                              | 21.5                                                                              | 34.5                                                                              | 11.5                                                                                | 30.5                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 2.8                                                                               | 14.6                                                                              | 10.6                                                                              | 11.2                                                                              | 10.7                                                                              | 9.8                                                                               | 7.2                                                                                 | 17.4                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 0.0                                                                               | 4.4                                                                               | 0.0                                                                               | 0.7                                                                               | 0.6                                                                               | 2.1                                                                               | 0.1                                                                                 | 1.0                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th Ctrl Delay           | 29.2                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th LOS                  | C                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

Notes

Unsignalized Delay for [NBR, EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

| Intersection             |                                                                                   |      |        |                                                                                   |                                                                                   |      |
|--------------------------|-----------------------------------------------------------------------------------|------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| Int Delay, s/veh         | 4.5                                                                               |      |        |                                                                                   |                                                                                   |      |
| Movement                 | EBT                                                                               | EBR  | WBL    | WBT                                                                               | NBL                                                                               | NBR  |
| Lane Configurations      |  |      |        |  |  |      |
| Traffic Vol, veh/h       | 335                                                                               | 115  | 10     | 403                                                                               | 145                                                                               | 12   |
| Future Vol, veh/h        | 335                                                                               | 115  | 10     | 403                                                                               | 145                                                                               | 12   |
| Conflicting Peds, #/hr   | 0                                                                                 | 0    | 0      | 0                                                                                 | 0                                                                                 | 0    |
| Sign Control             | Free                                                                              | Free | Free   | Free                                                                              | Stop                                                                              | Stop |
| RT Channelized           | -                                                                                 | None | -      | None                                                                              | -                                                                                 | None |
| Storage Length           | -                                                                                 | -    | -      | -                                                                                 | 0                                                                                 | -    |
| Veh in Median Storage, # | 0                                                                                 | -    | -      | 0                                                                                 | 0                                                                                 | -    |
| Grade, %                 | 0                                                                                 | -    | -      | 0                                                                                 | 0                                                                                 | -    |
| Peak Hour Factor         | 91                                                                                | 91   | 91     | 91                                                                                | 91                                                                                | 91   |
| Heavy Vehicles, %        | 9                                                                                 | 0    | 0      | 3                                                                                 | 0                                                                                 | 0    |
| Mvmt Flow                | 368                                                                               | 126  | 11     | 443                                                                               | 159                                                                               | 13   |
|                          |                                                                                   |      |        |                                                                                   |                                                                                   |      |
| Major/Minor              | Major1                                                                            |      | Major2 |                                                                                   | Minor1                                                                            |      |
| Conflicting Flow All     | 0                                                                                 | 0    | 494    | 0                                                                                 | 896                                                                               | 431  |
| Stage 1                  | -                                                                                 | -    | -      | -                                                                                 | 431                                                                               | -    |
| Stage 2                  | -                                                                                 | -    | -      | -                                                                                 | 465                                                                               | -    |
| Critical Hdwy            | -                                                                                 | -    | 4.1    | -                                                                                 | 6.4                                                                               | 6.2  |
| Critical Hdwy Stg 1      | -                                                                                 | -    | -      | -                                                                                 | 5.4                                                                               | -    |
| Critical Hdwy Stg 2      | -                                                                                 | -    | -      | -                                                                                 | 5.4                                                                               | -    |
| Follow-up Hdwy           | -                                                                                 | -    | 2.2    | -                                                                                 | 3.5                                                                               | 3.3  |
| Pot Cap-1 Maneuver       | -                                                                                 | -    | 1080   | -                                                                                 | 313                                                                               | 629  |
| Stage 1                  | -                                                                                 | -    | -      | -                                                                                 | 660                                                                               | -    |
| Stage 2                  | -                                                                                 | -    | -      | -                                                                                 | 636                                                                               | -    |
| Platoon blocked, %       | -                                                                                 | -    |        | -                                                                                 |                                                                                   |      |
| Mov Cap-1 Maneuver       | -                                                                                 | -    | 1080   | -                                                                                 | 309                                                                               | 629  |
| Mov Cap-2 Maneuver       | -                                                                                 | -    | -      | -                                                                                 | 309                                                                               | -    |
| Stage 1                  | -                                                                                 | -    | -      | -                                                                                 | 660                                                                               | -    |
| Stage 2                  | -                                                                                 | -    | -      | -                                                                                 | 627                                                                               | -    |
|                          |                                                                                   |      |        |                                                                                   |                                                                                   |      |
|                          |                                                                                   |      |        |                                                                                   |                                                                                   |      |
| Approach                 | EB                                                                                |      | WB     |                                                                                   | NB                                                                                |      |
| HCM Control Delay, s     | 0                                                                                 |      | 0.2    |                                                                                   | 28.4                                                                              |      |
| HCM LOS                  | D                                                                                 |      |        |                                                                                   |                                                                                   |      |
|                          |                                                                                   |      |        |                                                                                   |                                                                                   |      |
|                          |                                                                                   |      |        |                                                                                   |                                                                                   |      |
| Minor Lane/Major Mvmt    | NBLn1                                                                             | EBT  | EBR    | WBL                                                                               | WBT                                                                               |      |
| Capacity (veh/h)         | 322                                                                               | -    | -      | 1080                                                                              | -                                                                                 |      |
| HCM Lane V/C Ratio       | 0.536                                                                             | -    | -      | 0.01                                                                              | -                                                                                 |      |
| HCM Control Delay (s)    | 28.4                                                                              | -    | -      | 8.4                                                                               | 0                                                                                 |      |
| HCM Lane LOS             | D                                                                                 | -    | -      | A                                                                                 | A                                                                                 |      |
| HCM 95th %tile Q(veh)    | 3                                                                                 | -    | -      | 0                                                                                 | -                                                                                 |      |

# Timings 7: Post Rd & I-20 WB Ramps

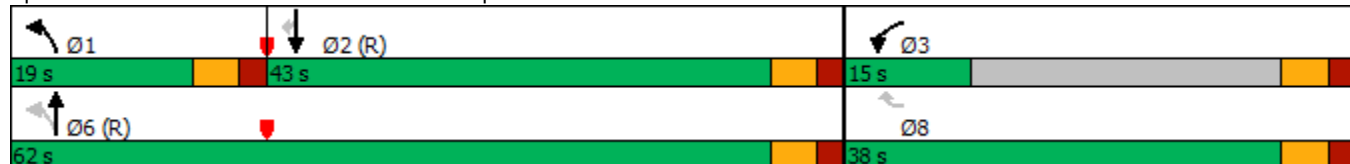
1b. Existing 2025 PM  
02/20/2025

|                         |  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group              | WBL                                                                               | WBR                                                                               | NBL                                                                               | NBT                                                                               | SBT                                                                               | SBR                                                                               |
| Lane Configurations     |  |  |  |  |  |  |
| Traffic Volume (vph)    | 408                                                                               | 203                                                                               | 269                                                                               | 251                                                                               | 458                                                                               | 149                                                                               |
| Future Volume (vph)     | 408                                                                               | 203                                                                               | 269                                                                               | 251                                                                               | 458                                                                               | 149                                                                               |
| Lane Group Flow (vph)   | 421                                                                               | 209                                                                               | 277                                                                               | 259                                                                               | 472                                                                               | 154                                                                               |
| Turn Type               | Prot                                                                              | Perm                                                                              | pm+pt                                                                             | NA                                                                                | NA                                                                                | Perm                                                                              |
| Protected Phases        | 3                                                                                 |                                                                                   | 1                                                                                 | 6                                                                                 | 2                                                                                 |                                                                                   |
| Permitted Phases        |                                                                                   | 8                                                                                 | 6                                                                                 |                                                                                   |                                                                                   | 2                                                                                 |
| Detector Phase          | 3                                                                                 | 8                                                                                 | 1                                                                                 | 6                                                                                 | 2                                                                                 | 2                                                                                 |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minimum Initial (s)     | 5.0                                                                               | 6.0                                                                               | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 15.0                                                                              |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 23.5                                                                              |
| Total Split (s)         | 15.0                                                                              | 38.0                                                                              | 19.0                                                                              | 62.0                                                                              | 43.0                                                                              | 43.0                                                                              |
| Total Split (%)         | 15.0%                                                                             | 38.0%                                                                             | 19.0%                                                                             | 62.0%                                                                             | 43.0%                                                                             | 43.0%                                                                             |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               |
| Lead/Lag                |                                                                                   |                                                                                   | Lead                                                                              |                                                                                   | Lag                                                                               | Lag                                                                               |
| Lead-Lag Optimize?      |                                                                                   |                                                                                   | Yes                                                                               |                                                                                   | Yes                                                                               | Yes                                                                               |
| Recall Mode             | None                                                                              | None                                                                              | None                                                                              | C-Min                                                                             | C-Min                                                                             | C-Min                                                                             |
| v/c Ratio               | 0.88                                                                              | 0.36                                                                              | 0.55                                                                              | 0.23                                                                              | 0.57                                                                              | 0.19                                                                              |
| Control Delay           | 54.1                                                                              | 5.4                                                                               | 18.2                                                                              | 7.9                                                                               | 26.0                                                                              | 4.1                                                                               |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Delay             | 54.1                                                                              | 5.4                                                                               | 18.2                                                                              | 7.9                                                                               | 26.0                                                                              | 4.1                                                                               |
| Queue Length 50th (ft)  | 257                                                                               | 0                                                                                 | 69                                                                                | 64                                                                                | 221                                                                               | 0                                                                                 |
| Queue Length 95th (ft)  | 349                                                                               | 49                                                                                | 167                                                                               | 92                                                                                | 361                                                                               | 39                                                                                |
| Internal Link Dist (ft) |                                                                                   |                                                                                   |                                                                                   | 717                                                                               | 2898                                                                              |                                                                                   |
| Turn Bay Length (ft)    |                                                                                   | 400                                                                               | 210                                                                               |                                                                                   |                                                                                   | 345                                                                               |
| Base Capacity (vph)     | 586                                                                               | 660                                                                               | 515                                                                               | 1138                                                                              | 828                                                                               | 790                                                                               |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Reduced v/c Ratio       | 0.72                                                                              | 0.32                                                                              | 0.54                                                                              | 0.23                                                                              | 0.57                                                                              | 0.19                                                                              |

## Intersection Summary

Cycle Length: 100  
 Actuated Cycle Length: 100  
 Offset: 0 (0%), Referenced to phase 2:SBT and 6:NBT, Start of Green  
 Natural Cycle: 65  
 Control Type: Actuated-Coordinated

## Splits and Phases: 7: Post Rd & I-20 WB Ramps



HCM 6th Signalized Intersection Summary  
7: Post Rd & I-20 WB Ramps

1b. Existing 2025 PM  
02/20/2025

| Movement                                                                                                 | EBL  | EBT  | EBR | WBL   | WBT   | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|----------------------------------------------------------------------------------------------------------|------|------|-----|-------|-------|------|------|------|------|------|------|------|
| Lane Configurations                                                                                      |      |      |     | ↰     |       | ↱    | ↰    | ↱    |      |      | ↱    | ↰    |
| Traffic Volume (veh/h)                                                                                   | 0    | 0    | 0   | 408   | 0     | 203  | 269  | 251  | 0    | 0    | 458  | 149  |
| Future Volume (veh/h)                                                                                    | 0    | 0    | 0   | 408   | 0     | 203  | 269  | 251  | 0    | 0    | 458  | 149  |
| Initial Q (Qb), veh                                                                                      |      |      |     | 0     | 0     | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)                                                                                      |      |      |     | 1.00  |       | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj                                                                                         |      |      |     | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                                                                                    |      |      |     | No    |       |      | No   |      |      |      | No   |      |
| Adj Sat Flow, veh/h/ln                                                                                   |      |      |     | 1900  | 0     | 1885 | 1885 | 1841 | 0    | 0    | 1885 | 1885 |
| Adj Flow Rate, veh/h                                                                                     |      |      |     | 421   | 0     | 0    | 277  | 259  | 0    | 0    | 472  | 154  |
| Peak Hour Factor                                                                                         |      |      |     | 0.97  | 0.97  | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Percent Heavy Veh, %                                                                                     |      |      |     | 0     | 0     | 1    | 1    | 4    | 0    | 0    | 1    | 1    |
| Cap, veh/h                                                                                               |      |      |     | 172   | 0     |      | 647  | 1463 | 0    | 0    | 1266 | 1073 |
| Arrive On Green                                                                                          |      |      |     | 0.09  | 0.00  | 0.00 | 0.07 | 0.80 | 0.00 | 0.00 | 0.67 | 0.67 |
| Sat Flow, veh/h                                                                                          |      |      |     | 1810  | 0     | 1598 | 1795 | 1841 | 0    | 0    | 1885 | 1598 |
| Grp Volume(v), veh/h                                                                                     |      |      |     | 421   | 0     | 0    | 277  | 259  | 0    | 0    | 472  | 154  |
| Grp Sat Flow(s),veh/h/ln                                                                                 |      |      |     | 1810  | 0     | 1598 | 1795 | 1841 | 0    | 0    | 1885 | 1598 |
| Q Serve(g_s), s                                                                                          |      |      |     | 9.5   | 0.0   | 0.0  | 4.4  | 3.4  | 0.0  | 0.0  | 11.0 | 3.5  |
| Cycle Q Clear(g_c), s                                                                                    |      |      |     | 9.5   | 0.0   | 0.0  | 4.4  | 3.4  | 0.0  | 0.0  | 11.0 | 3.5  |
| Prop In Lane                                                                                             |      |      |     | 1.00  |       | 1.00 | 1.00 |      | 0.00 | 0.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h                                                                                   |      |      |     | 172   | 0     |      | 647  | 1463 | 0    | 0    | 1266 | 1073 |
| V/C Ratio(X)                                                                                             |      |      |     | 2.45  | 0.00  |      | 0.43 | 0.18 | 0.00 | 0.00 | 0.37 | 0.14 |
| Avail Cap(c_a), veh/h                                                                                    |      |      |     | 172   | 0     |      | 767  | 1463 | 0    | 0    | 1266 | 1073 |
| HCM Platoon Ratio                                                                                        |      |      |     | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I)                                                                                       |      |      |     | 1.00  | 0.00  | 0.00 | 0.89 | 0.89 | 0.00 | 0.00 | 0.93 | 0.93 |
| Uniform Delay (d), s/veh                                                                                 |      |      |     | 45.3  | 0.0   | 0.0  | 4.7  | 2.4  | 0.0  | 0.0  | 7.2  | 6.0  |
| Incr Delay (d2), s/veh                                                                                   |      |      |     | 669.3 | 0.0   | 0.0  | 0.4  | 0.2  | 0.0  | 0.0  | 0.8  | 0.3  |
| Initial Q Delay(d3),s/veh                                                                                |      |      |     | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%),veh/ln                                                                                 |      |      |     | 36.2  | 0.0   | 0.0  | 1.1  | 0.7  | 0.0  | 0.0  | 3.8  | 1.1  |
| Unsig. Movement Delay, s/veh                                                                             |      |      |     |       |       |      |      |      |      |      |      |      |
| LnGrp Delay(d),s/veh                                                                                     |      |      |     | 714.6 | 0.0   | 0.0  | 5.1  | 2.7  | 0.0  | 0.0  | 8.0  | 6.2  |
| LnGrp LOS                                                                                                |      |      |     | F     | A     |      | A    | A    | A    | A    | A    | A    |
| Approach Vol, veh/h                                                                                      |      |      |     |       | 421   |      |      | 536  |      |      | 626  |      |
| Approach Delay, s/veh                                                                                    |      |      |     |       | 714.6 |      |      | 3.9  |      |      | 7.5  |      |
| Approach LOS                                                                                             |      |      |     |       | F     |      |      | A    |      |      | A    |      |
| Timer - Assigned Phs                                                                                     | 1    | 2    |     |       |       | 6    |      | 8    |      |      |      |      |
| Phs Duration (G+Y+Rc), s                                                                                 | 12.3 | 72.7 |     |       |       | 85.0 |      | 15.0 |      |      |      |      |
| Change Period (Y+Rc), s                                                                                  | 5.5  | 5.5  |     |       |       | 5.5  |      | 5.5  |      |      |      |      |
| Max Green Setting (Gmax), s                                                                              | 13.5 | 37.5 |     |       |       | 56.5 |      | 9.5  |      |      |      |      |
| Max Q Clear Time (g_c+I1), s                                                                             | 6.4  | 13.0 |     |       |       | 5.4  |      | 11.5 |      |      |      |      |
| Green Ext Time (p_c), s                                                                                  | 0.5  | 6.7  |     |       |       | 3.1  |      | 0.0  |      |      |      |      |
| <b>Intersection Summary</b>                                                                              |      |      |     |       |       |      |      |      |      |      |      |      |
| HCM 6th Ctrl Delay                                                                                       |      |      |     | 194.3 |       |      |      |      |      |      |      |      |
| HCM 6th LOS                                                                                              |      |      |     | F     |       |      |      |      |      |      |      |      |
| <b>Notes</b>                                                                                             |      |      |     |       |       |      |      |      |      |      |      |      |
| Unsignalized Delay for [WBR] is excluded from calculations of the approach delay and intersection delay. |      |      |     |       |       |      |      |      |      |      |      |      |

# Timings 8: Post Rd & I-20 EB Ramps

1b. Existing 2025 PM  
02/20/2025

|                         |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group              | EBL                                                                               | EBR                                                                               | NBT                                                                               | NBR                                                                               | SBL                                                                               | SBT                                                                               |
| Lane Configurations     |  |  |  |  |  |  |
| Traffic Volume (vph)    | 99                                                                                | 290                                                                               | 488                                                                               | 232                                                                               | 163                                                                               | 708                                                                               |
| Future Volume (vph)     | 99                                                                                | 290                                                                               | 488                                                                               | 232                                                                               | 163                                                                               | 708                                                                               |
| Lane Group Flow (vph)   | 105                                                                               | 309                                                                               | 519                                                                               | 247                                                                               | 173                                                                               | 753                                                                               |
| Turn Type               | Prot                                                                              | Perm                                                                              | NA                                                                                | Perm                                                                              | pm+pt                                                                             | NA                                                                                |
| Protected Phases        | 7                                                                                 |                                                                                   | 6                                                                                 |                                                                                   | 5                                                                                 | 2                                                                                 |
| Permitted Phases        |                                                                                   | 4                                                                                 |                                                                                   | 6                                                                                 | 2                                                                                 |                                                                                   |
| Detector Phase          | 7                                                                                 | 4                                                                                 | 6                                                                                 | 6                                                                                 | 5                                                                                 | 2                                                                                 |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minimum Initial (s)     | 5.0                                                                               | 6.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                               | 15.0                                                                              |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              |
| Total Split (s)         | 31.0                                                                              | 31.0                                                                              | 54.0                                                                              | 54.0                                                                              | 15.0                                                                              | 69.0                                                                              |
| Total Split (%)         | 31.0%                                                                             | 31.0%                                                                             | 54.0%                                                                             | 54.0%                                                                             | 15.0%                                                                             | 69.0%                                                                             |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               |
| Lead/Lag                |                                                                                   |                                                                                   | Lag                                                                               | Lag                                                                               | Lead                                                                              |                                                                                   |
| Lead-Lag Optimize?      |                                                                                   |                                                                                   | Yes                                                                               | Yes                                                                               | Yes                                                                               |                                                                                   |
| Recall Mode             | None                                                                              | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                              | C-Min                                                                             |
| v/c Ratio               | 0.50                                                                              | 0.76                                                                              | 0.44                                                                              | 0.22                                                                              | 0.28                                                                              | 0.52                                                                              |
| Control Delay           | 47.2                                                                              | 24.1                                                                              | 12.6                                                                              | 2.1                                                                               | 5.3                                                                               | 8.5                                                                               |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Delay             | 47.2                                                                              | 24.1                                                                              | 12.6                                                                              | 2.1                                                                               | 5.3                                                                               | 8.5                                                                               |
| Queue Length 50th (ft)  | 64                                                                                | 46                                                                                | 150                                                                               | 0                                                                                 | 31                                                                                | 248                                                                               |
| Queue Length 95th (ft)  | 106                                                                               | 128                                                                               | 307                                                                               | 37                                                                                | m65                                                                               | 306                                                                               |
| Internal Link Dist (ft) |                                                                                   |                                                                                   | 1742                                                                              |                                                                                   |                                                                                   | 717                                                                               |
| Turn Bay Length (ft)    |                                                                                   | 340                                                                               |                                                                                   | 390                                                                               | 275                                                                               |                                                                                   |
| Base Capacity (vph)     | 422                                                                               | 580                                                                               | 1177                                                                              | 1103                                                                              | 629                                                                               | 1451                                                                              |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Reduced v/c Ratio       | 0.25                                                                              | 0.53                                                                              | 0.44                                                                              | 0.22                                                                              | 0.28                                                                              | 0.52                                                                              |

## Intersection Summary

Cycle Length: 100  
 Actuated Cycle Length: 100  
 Offset: 0 (0%), Referenced to phase 2:SBTL and 6:NBT, Start of Green  
 Natural Cycle: 65  
 Control Type: Actuated-Coordinated  
 m Volume for 95th percentile queue is metered by upstream signal.

## Splits and Phases: 8: Post Rd & I-20 EB Ramps



# HCM 6th Signalized Intersection Summary 8: Post Rd & I-20 EB Ramps

1b. Existing 2025 PM  
02/20/2025

|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |                                                                                   |  |                                                                                   |                                                                                   |                                                                                   |                                                                                     |  |  |  |  |  |
| Traffic Volume (veh/h)       | 99                                                                                | 0                                                                                 | 290                                                                               | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 488                                                                                 | 232                                                                                 | 163                                                                                 | 708                                                                                 | 0                                                                                   |
| Future Volume (veh/h)        | 99                                                                                | 0                                                                                 | 290                                                                               | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 488                                                                                 | 232                                                                                 | 163                                                                                 | 708                                                                                 | 0                                                                                   |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1767                                                                              | 0                                                                                 | 1885                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 1885                                                                                | 1900                                                                                | 1870                                                                                | 1900                                                                                | 0                                                                                   |
| Adj Flow Rate, veh/h         | 105                                                                               | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 519                                                                                 | 247                                                                                 | 173                                                                                 | 753                                                                                 | 0                                                                                   |
| Peak Hour Factor             | 0.94                                                                              | 0.94                                                                              | 0.94                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.94                                                                                | 0.94                                                                                | 0.94                                                                                | 0.94                                                                                | 0.94                                                                                | 0.94                                                                                |
| Percent Heavy Veh, %         | 9                                                                                 | 0                                                                                 | 1                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 1                                                                                   | 0                                                                                   | 2                                                                                   | 0                                                                                   | 0                                                                                   |
| Cap, veh/h                   | 133                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 1332                                                                                | 1137                                                                                | 578                                                                                 | 1541                                                                                | 0                                                                                   |
| Arrive On Green              | 0.08                                                                              | 0.00                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                                | 0.71                                                                                | 0.71                                                                                | 0.10                                                                                | 1.00                                                                                | 0.00                                                                                |
| Sat Flow, veh/h              | 1682                                                                              | 0                                                                                 | 1598                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 1885                                                                                | 1610                                                                                | 1781                                                                                | 1900                                                                                | 0                                                                                   |
| Grp Volume(v), veh/h         | 105                                                                               | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 519                                                                                 | 247                                                                                 | 173                                                                                 | 753                                                                                 | 0                                                                                   |
| Grp Sat Flow(s),veh/h/ln     | 1682                                                                              | 0                                                                                 | 1598                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 1885                                                                                | 1610                                                                                | 1781                                                                                | 1900                                                                                | 0                                                                                   |
| Q Serve(g_s), s              | 6.1                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                 | 11.2                                                                                | 5.3                                                                                 | 2.6                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Cycle Q Clear(g_c), s        | 6.1                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                 | 11.2                                                                                | 5.3                                                                                 | 2.6                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 0.00                                                                                |
| Lane Grp Cap(c), veh/h       | 133                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 1332                                                                                | 1137                                                                                | 578                                                                                 | 1541                                                                                | 0                                                                                   |
| V/C Ratio(X)                 | 0.79                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                                | 0.39                                                                                | 0.22                                                                                | 0.30                                                                                | 0.49                                                                                | 0.00                                                                                |
| Avail Cap(c_a), veh/h        | 429                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 1332                                                                                | 1137                                                                                | 659                                                                                 | 1541                                                                                | 0                                                                                   |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 2.00                                                                                | 2.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 0.00                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                                | 1.00                                                                                | 1.00                                                                                | 0.63                                                                                | 0.63                                                                                | 0.00                                                                                |
| Uniform Delay (d), s/veh     | 45.2                                                                              | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                 | 5.9                                                                                 | 5.1                                                                                 | 3.7                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Incr Delay (d2), s/veh       | 10.0                                                                              | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                 | 0.9                                                                                 | 0.4                                                                                 | 0.2                                                                                 | 0.7                                                                                 | 0.0                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 2.9                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                 | 3.6                                                                                 | 9.0                                                                                 | 0.5                                                                                 | 0.3                                                                                 | 0.0                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 55.2                                                                              | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                 | 6.8                                                                                 | 5.5                                                                                 | 3.9                                                                                 | 0.7                                                                                 | 0.0                                                                                 |
| LnGrp LOS                    | E                                                                                 | A                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | A                                                                                   | A                                                                                   | A                                                                                   | A                                                                                   | A                                                                                   | A                                                                                   |
| Approach Vol, veh/h          | 105                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 766                                                                                 |                                                                                     |                                                                                     | 926                                                                                 |                                                                                     |                                                                                     |
| Approach Delay, s/veh        | 55.2                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 6.4                                                                                 |                                                                                     |                                                                                     | 1.3                                                                                 |                                                                                     |                                                                                     |
| Approach LOS                 | E                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | A                                                                                   |                                                                                     |                                                                                     | A                                                                                   |                                                                                     |                                                                                     |
| Timer - Assigned Phs         | 2                                                                                 |                                                                                   |                                                                                   | 4                                                                                 |                                                                                   |                                                                                   | 5                                                                                   |                                                                                     |                                                                                     | 6                                                                                   |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 86.6                                                                              |                                                                                   |                                                                                   | 13.4                                                                              |                                                                                   |                                                                                   | 10.5                                                                                |                                                                                     |                                                                                     | 76.1                                                                                |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 5.5                                                                               |                                                                                   |                                                                                   | 5.5                                                                               |                                                                                   |                                                                                   | 5.5                                                                                 |                                                                                     |                                                                                     | 5.5                                                                                 |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 63.5                                                                              |                                                                                   |                                                                                   | 25.5                                                                              |                                                                                   |                                                                                   | 9.5                                                                                 |                                                                                     |                                                                                     | 48.5                                                                                |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 2.0                                                                               |                                                                                   |                                                                                   | 8.1                                                                               |                                                                                   |                                                                                   | 4.6                                                                                 |                                                                                     |                                                                                     | 13.2                                                                                |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 13.3                                                                              |                                                                                   |                                                                                   | 0.2                                                                               |                                                                                   |                                                                                   | 0.2                                                                                 |                                                                                     |                                                                                     | 9.3                                                                                 |                                                                                     |                                                                                     |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th Ctrl Delay           | 6.6                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th LOS                  | A                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

## **Future “No-Build” Intersection Analysis**

# Timings

1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)

2a. No-Build 2035 AM

02/20/2025

|                         | →     | ↘     | ↙     | ←     | ↖     | ↗     |
|-------------------------|-------|-------|-------|-------|-------|-------|
| Lane Group              | EBT   | EBR   | WBL   | WBT   | NBL   | NBR   |
| Lane Configurations     | ↑     | ↑     | ↘     | ↑     | ↘     | ↘     |
| Traffic Volume (vph)    | 779   | 110   | 228   | 641   | 58    | 176   |
| Future Volume (vph)     | 779   | 110   | 228   | 641   | 58    | 176   |
| Lane Group Flow (vph)   | 829   | 117   | 243   | 682   | 62    | 187   |
| Turn Type               | NA    | Perm  | pm+pt | NA    | Prot  | Perm  |
| Protected Phases        | 6     |       | 5     | 2     | 8     |       |
| Permitted Phases        |       | 6     | 2     |       |       | 8     |
| Detector Phase          | 6     | 6     | 5     | 2     | 8     | 8     |
| Switch Phase            |       |       |       |       |       |       |
| Minimum Initial (s)     | 15.0  | 15.0  | 5.0   | 15.0  | 6.0   | 6.0   |
| Minimum Split (s)       | 23.5  | 23.5  | 15.0  | 23.5  | 23.5  | 23.5  |
| Total Split (s)         | 77.0  | 77.0  | 19.0  | 96.0  | 24.0  | 24.0  |
| Total Split (%)         | 64.2% | 64.2% | 15.8% | 80.0% | 20.0% | 20.0% |
| Yellow Time (s)         | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)     | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| Lead/Lag                | Lag   | Lag   | Lead  |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   | Yes   |       |       |       |
| Recall Mode             | Min   | Min   | None  | Min   | None  | None  |
| v/c Ratio               | 0.86  | 0.14  | 0.59  | 0.50  | 0.40  | 0.56  |
| Control Delay           | 26.9  | 2.3   | 14.8  | 5.6   | 50.1  | 13.7  |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay             | 26.9  | 2.3   | 14.8  | 5.6   | 50.1  | 13.7  |
| Queue Length 50th (ft)  | 365   | 1     | 28    | 112   | 33    | 0     |
| Queue Length 95th (ft)  | 600   | 22    | 123   | 212   | 88    | 67    |
| Internal Link Dist (ft) | 295   |       |       | 1352  | 1634  |       |
| Turn Bay Length (ft)    |       |       | 350   |       |       | 285   |
| Base Capacity (vph)     | 1420  | 1146  | 427   | 1652  | 314   | 487   |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0     |
| Spillback Cap Reductn   | 0     | 0     | 0     | 0     | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     | 0     | 0     | 0     | 0     |
| Reduced v/c Ratio       | 0.58  | 0.10  | 0.57  | 0.41  | 0.20  | 0.38  |

## Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 89.4

Natural Cycle: 90

Control Type: Actuated-Uncoordinated

Splits and Phases: 1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)



HCM 6th Signalized Intersection Summary  
1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)

2a. No-Build 2035 AM  
02/20/2025

|                              |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Movement                     | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | NBL                                                                               | NBR                                                                               |
| Lane Configurations          |  |  |  |  |  |  |
| Traffic Volume (veh/h)       | 779                                                                               | 110                                                                               | 228                                                                               | 641                                                                               | 58                                                                                | 176                                                                               |
| Future Volume (veh/h)        | 779                                                                               | 110                                                                               | 228                                                                               | 641                                                                               | 58                                                                                | 176                                                                               |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Ped-Bike Adj(A_pbT)          |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   | No                                                                                | No                                                                                |                                                                                   |
| Adj Sat Flow, veh/h/ln       | 1781                                                                              | 1663                                                                              | 1841                                                                              | 1796                                                                              | 1530                                                                              | 1856                                                                              |
| Adj Flow Rate, veh/h         | 829                                                                               | 0                                                                                 | 243                                                                               | 682                                                                               | 62                                                                                | 0                                                                                 |
| Peak Hour Factor             | 0.94                                                                              | 0.94                                                                              | 0.94                                                                              | 0.94                                                                              | 0.94                                                                              | 0.94                                                                              |
| Percent Heavy Veh, %         | 8                                                                                 | 16                                                                                | 4                                                                                 | 7                                                                                 | 25                                                                                | 3                                                                                 |
| Cap, veh/h                   | 1077                                                                              |                                                                                   | 422                                                                               | 1383                                                                              | 90                                                                                |                                                                                   |
| Arrive On Green              | 0.60                                                                              | 0.00                                                                              | 0.08                                                                              | 0.77                                                                              | 0.06                                                                              | 0.00                                                                              |
| Sat Flow, veh/h              | 1781                                                                              | 1409                                                                              | 1753                                                                              | 1796                                                                              | 1457                                                                              | 1572                                                                              |
| Grp Volume(v), veh/h         | 829                                                                               | 0                                                                                 | 243                                                                               | 682                                                                               | 62                                                                                | 0                                                                                 |
| Grp Sat Flow(s),veh/h/ln     | 1781                                                                              | 1409                                                                              | 1753                                                                              | 1796                                                                              | 1457                                                                              | 1572                                                                              |
| Q Serve(g_s), s              | 22.5                                                                              | 0.0                                                                               | 3.0                                                                               | 9.2                                                                               | 2.7                                                                               | 0.0                                                                               |
| Cycle Q Clear(g_c), s        | 22.5                                                                              | 0.0                                                                               | 3.0                                                                               | 9.2                                                                               | 2.7                                                                               | 0.0                                                                               |
| Prop In Lane                 |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |
| Lane Grp Cap(c), veh/h       | 1077                                                                              |                                                                                   | 422                                                                               | 1383                                                                              | 90                                                                                |                                                                                   |
| V/C Ratio(X)                 | 0.77                                                                              |                                                                                   | 0.58                                                                              | 0.49                                                                              | 0.69                                                                              |                                                                                   |
| Avail Cap(c_a), veh/h        | 1946                                                                              |                                                                                   | 641                                                                               | 2483                                                                              | 412                                                                               |                                                                                   |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Upstream Filter(I)           | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              |
| Uniform Delay (d), s/veh     | 9.6                                                                               | 0.0                                                                               | 10.4                                                                              | 2.8                                                                               | 30.1                                                                              | 0.0                                                                               |
| Incr Delay (d2), s/veh       | 2.5                                                                               | 0.0                                                                               | 1.2                                                                               | 0.6                                                                               | 8.9                                                                               | 0.0                                                                               |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| %ile BackOfQ(50%),veh/ln     | 6.4                                                                               | 0.0                                                                               | 1.4                                                                               | 0.9                                                                               | 1.1                                                                               | 0.0                                                                               |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| LnGrp Delay(d),s/veh         | 12.1                                                                              | 0.0                                                                               | 11.6                                                                              | 3.4                                                                               | 39.0                                                                              | 0.0                                                                               |
| LnGrp LOS                    | B                                                                                 |                                                                                   | B                                                                                 | A                                                                                 | D                                                                                 |                                                                                   |
| Approach Vol, veh/h          | 829                                                                               |                                                                                   |                                                                                   | 925                                                                               | 62                                                                                |                                                                                   |
| Approach Delay, s/veh        | 12.1                                                                              |                                                                                   |                                                                                   | 5.5                                                                               | 39.0                                                                              |                                                                                   |
| Approach LOS                 | B                                                                                 |                                                                                   |                                                                                   | A                                                                                 | D                                                                                 |                                                                                   |
| Timer - Assigned Phs         | 2                                                                                 |                                                                                   | 5                                                                                 |                                                                                   | 6                                                                                 | 8                                                                                 |
| Phs Duration (G+Y+Rc), s     | 55.9                                                                              |                                                                                   | 10.8                                                                              |                                                                                   | 45.1                                                                              | 9.6                                                                               |
| Change Period (Y+Rc), s      | 5.5                                                                               |                                                                                   | 5.5                                                                               |                                                                                   | 5.5                                                                               | 5.5                                                                               |
| Max Green Setting (Gmax), s  | 90.5                                                                              |                                                                                   | 13.5                                                                              |                                                                                   | 71.5                                                                              | 18.5                                                                              |
| Max Q Clear Time (g_c+I1), s | 11.2                                                                              |                                                                                   | 5.0                                                                               |                                                                                   | 24.5                                                                              | 4.7                                                                               |
| Green Ext Time (p_c), s      | 11.6                                                                              |                                                                                   | 0.4                                                                               |                                                                                   | 15.0                                                                              | 0.1                                                                               |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| HCM 6th Ctrl Delay           |                                                                                   |                                                                                   | 9.7                                                                               |                                                                                   |                                                                                   |                                                                                   |
| HCM 6th LOS                  |                                                                                   |                                                                                   | A                                                                                 |                                                                                   |                                                                                   |                                                                                   |

Notes

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

| Intersection             |        |                                                                                   |                                                                                   |        |                                                                                   |      |
|--------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|------|
| Int Delay, s/veh         | 0.2    |                                                                                   |                                                                                   |        |                                                                                   |      |
| Movement                 | EBL    | EBT                                                                               | WBT                                                                               | WBR    | SBL                                                                               | SBR  |
| Lane Configurations      |        |  |  |        |  |      |
| Traffic Vol, veh/h       | 1      | 586                                                                               | 247                                                                               | 4      | 10                                                                                | 1    |
| Future Vol, veh/h        | 1      | 586                                                                               | 247                                                                               | 4      | 10                                                                                | 1    |
| Conflicting Peds, #/hr   | 0      | 0                                                                                 | 0                                                                                 | 0      | 0                                                                                 | 0    |
| Sign Control             | Free   | Free                                                                              | Free                                                                              | Free   | Stop                                                                              | Stop |
| RT Channelized           | -      | None                                                                              | -                                                                                 | None   | -                                                                                 | None |
| Storage Length           | -      | -                                                                                 | -                                                                                 | -      | 0                                                                                 | -    |
| Veh in Median Storage, # | -      | 0                                                                                 | 0                                                                                 | -      | 0                                                                                 | -    |
| Grade, %                 | -      | 0                                                                                 | 0                                                                                 | -      | 0                                                                                 | -    |
| Peak Hour Factor         | 90     | 90                                                                                | 90                                                                                | 90     | 90                                                                                | 90   |
| Heavy Vehicles, %        | 0      | 8                                                                                 | 15                                                                                | 0      | 25                                                                                | 0    |
| Mvmt Flow                | 1      | 651                                                                               | 274                                                                               | 4      | 11                                                                                | 1    |
| Major/Minor              | Major1 | Major2                                                                            |                                                                                   | Minor2 |                                                                                   |      |
| Conflicting Flow All     | 278    | 0                                                                                 | -                                                                                 | 0      | 604                                                                               | 276  |
| Stage 1                  | -      | -                                                                                 | -                                                                                 | -      | 276                                                                               | -    |
| Stage 2                  | -      | -                                                                                 | -                                                                                 | -      | 328                                                                               | -    |
| Critical Hdwy            | 4.1    | -                                                                                 | -                                                                                 | -      | 6.975                                                                             | 6.2  |
| Critical Hdwy Stg 1      | -      | -                                                                                 | -                                                                                 | -      | 5.775                                                                             | -    |
| Critical Hdwy Stg 2      | -      | -                                                                                 | -                                                                                 | -      | 6.175                                                                             | -    |
| Follow-up Hdwy           | 2.2    | -                                                                                 | -                                                                                 | -      | 3.7375                                                                            | 3.3  |
| Pot Cap-1 Maneuver       | 1296   | -                                                                                 | -                                                                                 | -      | 402                                                                               | 768  |
| Stage 1                  | -      | -                                                                                 | -                                                                                 | -      | 711                                                                               | -    |
| Stage 2                  | -      | -                                                                                 | -                                                                                 | -      | 647                                                                               | -    |
| Platoon blocked, %       |        | -                                                                                 | -                                                                                 | -      |                                                                                   |      |
| Mov Cap-1 Maneuver       | 1296   | -                                                                                 | -                                                                                 | -      | 402                                                                               | 768  |
| Mov Cap-2 Maneuver       | -      | -                                                                                 | -                                                                                 | -      | 402                                                                               | -    |
| Stage 1                  | -      | -                                                                                 | -                                                                                 | -      | 710                                                                               | -    |
| Stage 2                  | -      | -                                                                                 | -                                                                                 | -      | 647                                                                               | -    |
| Approach                 | EB     | WB                                                                                |                                                                                   | SB     |                                                                                   |      |
| HCM Control Delay, s     | 0      | 0                                                                                 |                                                                                   | 13.8   |                                                                                   |      |
| HCM LOS                  |        |                                                                                   |                                                                                   | B      |                                                                                   |      |
| Minor Lane/Major Mvmt    | EBL    | EBT                                                                               | WBT                                                                               | WBR    | SBLn1                                                                             |      |
| Capacity (veh/h)         | 1296   | -                                                                                 | -                                                                                 | -      | 420                                                                               |      |
| HCM Lane V/C Ratio       | 0.001  | -                                                                                 | -                                                                                 | -      | 0.029                                                                             |      |
| HCM Control Delay (s)    | 7.8    | 0                                                                                 | -                                                                                 | -      | 13.8                                                                              |      |
| HCM Lane LOS             | A      | A                                                                                 | -                                                                                 | -      | B                                                                                 |      |
| HCM 95th %tile Q(veh)    | 0      | -                                                                                 | -                                                                                 | -      | 0.1                                                                               |      |

| Intersection             |        |       |      |        |       |      |        |       |       |        |      |      |
|--------------------------|--------|-------|------|--------|-------|------|--------|-------|-------|--------|------|------|
| Int Delay, s/veh         | 1.1    |       |      |        |       |      |        |       |       |        |      |      |
| Movement                 | EBL    | EBT   | EBR  | WBL    | WBT   | WBR  | NBL    | NBT   | NBR   | SBL    | SBT  | SBR  |
| Lane Configurations      |        | ↕     |      |        | ↕     |      |        | ↕     |       |        | ↕    |      |
| Traffic Vol, veh/h       | 4      | 455   | 4    | 26     | 767   | 4    | 12     | 1     | 29    | 4      | 1    | 2    |
| Future Vol, veh/h        | 4      | 455   | 4    | 26     | 767   | 4    | 12     | 1     | 29    | 4      | 1    | 2    |
| Conflicting Peds, #/hr   | 0      | 0     | 0    | 0      | 0     | 0    | 0      | 0     | 0     | 0      | 0    | 0    |
| Sign Control             | Free   | Free  | Free | Free   | Free  | Free | Stop   | Stop  | Stop  | Stop   | Stop | Stop |
| RT Channelized           | -      | -     | None | -      | -     | None | -      | -     | None  | -      | -    | None |
| Storage Length           | -      | -     | -    | -      | -     | -    | -      | -     | -     | -      | -    | -    |
| Veh in Median Storage, # | -      | 0     | -    | -      | 0     | -    | -      | 0     | -     | -      | 0    | -    |
| Grade, %                 | -      | 0     | -    | -      | 0     | -    | -      | 0     | -     | -      | 0    | -    |
| Peak Hour Factor         | 91     | 91    | 91   | 91     | 91    | 91   | 91     | 91    | 91    | 91     | 91   | 91   |
| Heavy Vehicles, %        | 0      | 4     | 0    | 0      | 2     | 0    | 0      | 0     | 4     | 0      | 0    | 0    |
| Mvmt Flow                | 4      | 500   | 4    | 29     | 843   | 4    | 13     | 1     | 32    | 4      | 1    | 2    |
|                          |        |       |      |        |       |      |        |       |       |        |      |      |
| Major/Minor              | Major1 |       |      | Major2 |       |      | Minor1 |       |       | Minor2 |      |      |
| Conflicting Flow All     | 847    | 0     | 0    | 504    | 0     | 0    | 1415   | 1415  | 502   | 1430   | 1415 | 845  |
| Stage 1                  | -      | -     | -    | -      | -     | -    | 510    | 510   | -     | 903    | 903  | -    |
| Stage 2                  | -      | -     | -    | -      | -     | -    | 905    | 905   | -     | 527    | 512  | -    |
| Critical Hdwy            | 4.1    | -     | -    | 4.1    | -     | -    | 7.1    | 6.5   | 6.24  | 7.1    | 6.5  | 6.2  |
| Critical Hdwy Stg 1      | -      | -     | -    | -      | -     | -    | 6.1    | 5.5   | -     | 6.1    | 5.5  | -    |
| Critical Hdwy Stg 2      | -      | -     | -    | -      | -     | -    | 6.1    | 5.5   | -     | 6.1    | 5.5  | -    |
| Follow-up Hdwy           | 2.2    | -     | -    | 2.2    | -     | -    | 3.5    | 4     | 3.336 | 3.5    | 4    | 3.3  |
| Pot Cap-1 Maneuver       | 799    | -     | -    | 1071   | -     | -    | 116    | 139   | 565   | 113    | 139  | 366  |
| Stage 1                  | -      | -     | -    | -      | -     | -    | 550    | 541   | -     | 335    | 359  | -    |
| Stage 2                  | -      | -     | -    | -      | -     | -    | 334    | 358   | -     | 538    | 540  | -    |
| Platoon blocked, %       |        | -     | -    |        | -     | -    |        |       |       |        |      |      |
| Mov Cap-1 Maneuver       | 799    | -     | -    | 1071   | -     | -    | 110    | 131   | 565   | 101    | 131  | 366  |
| Mov Cap-2 Maneuver       | -      | -     | -    | -      | -     | -    | 110    | 131   | -     | 101    | 131  | -    |
| Stage 1                  | -      | -     | -    | -      | -     | -    | 546    | 537   | -     | 333    | 341  | -    |
| Stage 2                  | -      | -     | -    | -      | -     | -    | 314    | 340   | -     | 503    | 536  | -    |
|                          |        |       |      |        |       |      |        |       |       |        |      |      |
| Approach                 | EB     |       |      | WB     |       |      | NB     |       |       | SB     |      |      |
| HCM Control Delay, s     | 0.1    |       |      | 0.3    |       |      | 22.6   |       |       | 33.7   |      |      |
| HCM LOS                  |        |       |      |        |       |      | C      |       |       | D      |      |      |
|                          |        |       |      |        |       |      |        |       |       |        |      |      |
| Minor Lane/Major Mvmt    | NBLn1  | EBL   | EBT  | EBR    | WBL   | WBT  | WBR    | SBLn1 |       |        |      |      |
| Capacity (veh/h)         | 250    | 799   | -    | -      | 1071  | -    | -      | 133   |       |        |      |      |
| HCM Lane V/C Ratio       | 0.185  | 0.006 | -    | -      | 0.027 | -    | -      | 0.058 |       |        |      |      |
| HCM Control Delay (s)    | 22.6   | 9.5   | 0    | -      | 8.5   | 0    | -      | 33.7  |       |        |      |      |
| HCM Lane LOS             | C      | A     | A    | -      | A     | A    | -      | D     |       |        |      |      |
| HCM 95th %tile Q(veh)    | 0.7    | 0     | -    | -      | 0.1   | -    | -      | 0.2   |       |        |      |      |

| Intersection             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Int Delay, s/veh         | 0.9                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Movement                 | EBL                                                                               | EBT                                                                               | WBT                                                                               | WBR                                                                               | SBL                                                                               | SBR                                                                               |
| Lane Configurations      |  |  |  |  |  |  |
| Traffic Vol, veh/h       | 71                                                                                | 666                                                                               | 317                                                                               | 24                                                                                | 13                                                                                | 14                                                                                |
| Future Vol, veh/h        | 71                                                                                | 666                                                                               | 317                                                                               | 24                                                                                | 13                                                                                | 14                                                                                |
| Conflicting Peds, #/hr   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Sign Control             | Free                                                                              | Free                                                                              | Free                                                                              | Free                                                                              | Stop                                                                              | Stop                                                                              |
| RT Channelized           | -                                                                                 | None                                                                              | -                                                                                 | Yield                                                                             | -                                                                                 | Yield                                                                             |
| Storage Length           | 155                                                                               | -                                                                                 | -                                                                                 | 175                                                                               | 0                                                                                 | -                                                                                 |
| Veh in Median Storage, # | -                                                                                 | 0                                                                                 | 0                                                                                 | -                                                                                 | 0                                                                                 | -                                                                                 |
| Grade, %                 | -                                                                                 | 0                                                                                 | 0                                                                                 | -                                                                                 | 0                                                                                 | -                                                                                 |
| Peak Hour Factor         | 91                                                                                | 91                                                                                | 91                                                                                | 91                                                                                | 91                                                                                | 91                                                                                |
| Heavy Vehicles, %        | 2                                                                                 | 6                                                                                 | 10                                                                                | 5                                                                                 | 9                                                                                 | 33                                                                                |
| Mvmt Flow                | 78                                                                                | 732                                                                               | 348                                                                               | 26                                                                                | 14                                                                                | 15                                                                                |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Major/Minor              | Major1                                                                            | Major2                                                                            |                                                                                   | Minor2                                                                            |                                                                                   |                                                                                   |
| Conflicting Flow All     | 348                                                                               | 0                                                                                 | -                                                                                 | 0                                                                                 | 1236                                                                              | 348                                                                               |
| Stage 1                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 348                                                                               | -                                                                                 |
| Stage 2                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 888                                                                               | -                                                                                 |
| Critical Hdwy            | 4.12                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | 6.49                                                                              | 6.53                                                                              |
| Critical Hdwy Stg 1      | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 5.49                                                                              | -                                                                                 |
| Critical Hdwy Stg 2      | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 5.49                                                                              | -                                                                                 |
| Follow-up Hdwy           | 2.218                                                                             | -                                                                                 | -                                                                                 | -                                                                                 | 3.581                                                                             | 3.597                                                                             |
| Pot Cap-1 Maneuver       | 1211                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | 188                                                                               | 630                                                                               |
| Stage 1                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 700                                                                               | -                                                                                 |
| Stage 2                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 391                                                                               | -                                                                                 |
| Platoon blocked, %       |                                                                                   | -                                                                                 | -                                                                                 | -                                                                                 |                                                                                   |                                                                                   |
| Mov Cap-1 Maneuver       | 1211                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | 176                                                                               | 630                                                                               |
| Mov Cap-2 Maneuver       | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 176                                                                               | -                                                                                 |
| Stage 1                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 655                                                                               | -                                                                                 |
| Stage 2                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 391                                                                               | -                                                                                 |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Approach                 | EB                                                                                | WB                                                                                |                                                                                   | SB                                                                                |                                                                                   |                                                                                   |
| HCM Control Delay, s     | 0.8                                                                               | 0                                                                                 |                                                                                   | 15.7                                                                              |                                                                                   |                                                                                   |
| HCM LOS                  | C                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minor Lane/Major Mvmt    | EBL                                                                               | EBT                                                                               | WBT                                                                               | WBR                                                                               | SBLn1                                                                             |                                                                                   |
| Capacity (veh/h)         | 1211                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | 366                                                                               |                                                                                   |
| HCM Lane V/C Ratio       | 0.064                                                                             | -                                                                                 | -                                                                                 | -                                                                                 | 0.081                                                                             |                                                                                   |
| HCM Control Delay (s)    | 8.2                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | 15.7                                                                              |                                                                                   |
| HCM Lane LOS             | A                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | C                                                                                 |                                                                                   |
| HCM 95th %tile Q(veh)    | 0.2                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | 0.3                                                                               |                                                                                   |

# Timings

2a. No-Build 2035 AM

## 5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)

02/20/2025

|                         |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Lane Group              | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 |
| Lane Configurations     |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph)    | 4                                                                                 | 343                                                                               | 226                                                                               | 115                                                                               | 149                                                                               | 84                                                                                | 122                                                                                 | 145                                                                                 | 301                                                                                 | 161                                                                                 | 271                                                                                 |
| Future Volume (vph)     | 4                                                                                 | 343                                                                               | 226                                                                               | 115                                                                               | 149                                                                               | 84                                                                                | 122                                                                                 | 145                                                                                 | 301                                                                                 | 161                                                                                 | 271                                                                                 |
| Lane Group Flow (vph)   | 4                                                                                 | 354                                                                               | 233                                                                               | 119                                                                               | 154                                                                               | 87                                                                                | 126                                                                                 | 149                                                                                 | 310                                                                                 | 166                                                                                 | 295                                                                                 |
| Turn Type               | pm+pt                                                                             | NA                                                                                | Perm                                                                              | pm+pt                                                                             | NA                                                                                | Perm                                                                              | pm+pt                                                                               | NA                                                                                  | Perm                                                                                | pm+pt                                                                               | NA                                                                                  |
| Protected Phases        | 1                                                                                 | 6                                                                                 |                                                                                   | 5                                                                                 | 2                                                                                 |                                                                                   | 3                                                                                   | 8                                                                                   |                                                                                     | 7                                                                                   | 4                                                                                   |
| Permitted Phases        | 6                                                                                 |                                                                                   | 6                                                                                 | 2                                                                                 |                                                                                   | 2                                                                                 | 8                                                                                   |                                                                                     | 8                                                                                   | 4                                                                                   |                                                                                     |
| Detector Phase          | 1                                                                                 | 6                                                                                 | 6                                                                                 | 5                                                                                 | 2                                                                                 | 2                                                                                 | 3                                                                                   | 8                                                                                   | 8                                                                                   | 7                                                                                   | 4                                                                                   |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Minimum Initial (s)     | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                                 | 6.0                                                                                 | 6.0                                                                                 | 5.0                                                                                 | 6.0                                                                                 |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                                | 23.5                                                                                | 23.5                                                                                | 15.0                                                                                | 23.5                                                                                |
| Total Split (s)         | 15.0                                                                              | 51.0                                                                              | 51.0                                                                              | 15.0                                                                              | 51.0                                                                              | 51.0                                                                              | 15.0                                                                                | 39.0                                                                                | 39.0                                                                                | 15.0                                                                                | 39.0                                                                                |
| Total Split (%)         | 12.5%                                                                             | 42.5%                                                                             | 42.5%                                                                             | 12.5%                                                                             | 42.5%                                                                             | 42.5%                                                                             | 12.5%                                                                               | 32.5%                                                                               | 32.5%                                                                               | 12.5%                                                                               | 32.5%                                                                               |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 |
| Lead/Lag                | Lead                                                                              | Lag                                                                               | Lag                                                                               | Lead                                                                              | Lag                                                                               | Lag                                                                               | Lead                                                                                | Lag                                                                                 | Lag                                                                                 | Lead                                                                                | Lag                                                                                 |
| Lead-Lag Optimize?      | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 |
| Recall Mode             | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                                | None                                                                                | None                                                                                | None                                                                                | None                                                                                |
| v/c Ratio               | 0.01                                                                              | 0.43                                                                              | 0.27                                                                              | 0.24                                                                              | 0.16                                                                              | 0.09                                                                              | 0.53                                                                                | 0.39                                                                                | 0.55                                                                                | 0.46                                                                                | 0.79                                                                                |
| Control Delay           | 13.5                                                                              | 25.7                                                                              | 3.9                                                                               | 13.9                                                                              | 15.6                                                                              | 1.6                                                                               | 36.2                                                                                | 43.2                                                                                | 7.9                                                                                 | 33.5                                                                                | 59.6                                                                                |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Total Delay             | 13.5                                                                              | 25.7                                                                              | 3.9                                                                               | 13.9                                                                              | 15.6                                                                              | 1.6                                                                               | 36.2                                                                                | 43.2                                                                                | 7.9                                                                                 | 33.5                                                                                | 59.6                                                                                |
| Queue Length 50th (ft)  | 1                                                                                 | 182                                                                               | 0                                                                                 | 40                                                                                | 53                                                                                | 0                                                                                 | 70                                                                                  | 101                                                                                 | 0                                                                                   | 95                                                                                  | 217                                                                                 |
| Queue Length 95th (ft)  | 7                                                                                 | 306                                                                               | 51                                                                                | 80                                                                                | 123                                                                               | 14                                                                                | 107                                                                                 | 151                                                                                 | 69                                                                                  | 137                                                                                 | 295                                                                                 |
| Internal Link Dist (ft) |                                                                                   | 2443                                                                              |                                                                                   |                                                                                   | 3462                                                                              |                                                                                   |                                                                                     | 2898                                                                                |                                                                                     |                                                                                     | 998                                                                                 |
| Turn Bay Length (ft)    | 300                                                                               |                                                                                   | 225                                                                               | 355                                                                               |                                                                                   | 225                                                                               | 190                                                                                 |                                                                                     | 200                                                                                 | 160                                                                                 |                                                                                     |
| Base Capacity (vph)     | 719                                                                               | 818                                                                               | 854                                                                               | 508                                                                               | 945                                                                               | 962                                                                               | 243                                                                                 | 525                                                                                 | 661                                                                                 | 363                                                                                 | 511                                                                                 |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Reduced v/c Ratio       | 0.01                                                                              | 0.43                                                                              | 0.27                                                                              | 0.23                                                                              | 0.16                                                                              | 0.09                                                                              | 0.52                                                                                | 0.28                                                                                | 0.47                                                                                | 0.46                                                                                | 0.58                                                                                |

### Intersection Summary

Cycle Length: 120

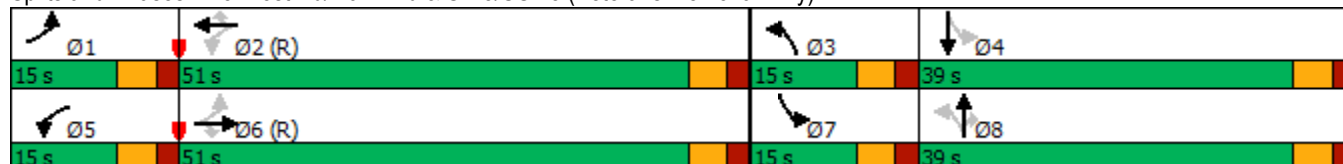
Actuated Cycle Length: 120

Offset: 0 (0%), Referenced to phase 2:WBTL and 6:EBTL, Start of Green

Natural Cycle: 80

Control Type: Actuated-Coordinated

Splits and Phases: 5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)



HCM 6th Signalized Intersection Summary  
5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)

2a. No-Build 2035 AM  
02/20/2025

|                              |  |  |  |  |  |  |   |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h)       | 4                                                                                 | 343                                                                               | 226                                                                               | 115                                                                               | 149                                                                               | 84                                                                                | 122                                                                                 | 145                                                                                 | 301                                                                                 | 161                                                                                 | 271                                                                                 | 16                                                                                  |
| Future Volume (veh/h)        | 4                                                                                 | 343                                                                               | 226                                                                               | 115                                                                               | 149                                                                               | 84                                                                                | 122                                                                                 | 145                                                                                 | 301                                                                                 | 161                                                                                 | 271                                                                                 | 16                                                                                  |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   | No                                                                                |                                                                                   |                                                                                   | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1900                                                                              | 1796                                                                              | 1870                                                                              | 1826                                                                              | 1707                                                                              | 1900                                                                              | 1885                                                                                | 1885                                                                                | 1856                                                                                | 1900                                                                                | 1870                                                                                | 1559                                                                                |
| Adj Flow Rate, veh/h         | 4                                                                                 | 354                                                                               | 0                                                                                 | 119                                                                               | 154                                                                               | 0                                                                                 | 126                                                                                 | 149                                                                                 | 0                                                                                   | 166                                                                                 | 279                                                                                 | 0                                                                                   |
| Peak Hour Factor             | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                |
| Percent Heavy Veh, %         | 0                                                                                 | 7                                                                                 | 2                                                                                 | 5                                                                                 | 13                                                                                | 0                                                                                 | 1                                                                                   | 1                                                                                   | 3                                                                                   | 0                                                                                   | 2                                                                                   | 23                                                                                  |
| Cap, veh/h                   | 725                                                                               | 942                                                                               |                                                                                   | 550                                                                               | 966                                                                               |                                                                                   | 221                                                                                 | 313                                                                                 |                                                                                     | 322                                                                                 | 322                                                                                 |                                                                                     |
| Arrive On Green              | 0.01                                                                              | 0.52                                                                              | 0.00                                                                              | 0.05                                                                              | 0.57                                                                              | 0.00                                                                              | 0.07                                                                                | 0.17                                                                                | 0.00                                                                                | 0.08                                                                                | 0.17                                                                                | 0.00                                                                                |
| Sat Flow, veh/h              | 1810                                                                              | 1796                                                                              | 1585                                                                              | 1739                                                                              | 1707                                                                              | 1610                                                                              | 1795                                                                                | 1885                                                                                | 1572                                                                                | 1810                                                                                | 1870                                                                                | 0                                                                                   |
| Grp Volume(v), veh/h         | 4                                                                                 | 354                                                                               | 0                                                                                 | 119                                                                               | 154                                                                               | 0                                                                                 | 126                                                                                 | 149                                                                                 | 0                                                                                   | 166                                                                                 | 279                                                                                 | 0                                                                                   |
| Grp Sat Flow(s),veh/h/ln     | 1810                                                                              | 1796                                                                              | 1585                                                                              | 1739                                                                              | 1707                                                                              | 1610                                                                              | 1795                                                                                | 1885                                                                                | 1572                                                                                | 1810                                                                                | 1870                                                                                | 0                                                                                   |
| Q Serve(g_s), s              | 0.1                                                                               | 14.0                                                                              | 0.0                                                                               | 3.7                                                                               | 5.2                                                                               | 0.0                                                                               | 6.9                                                                                 | 8.6                                                                                 | 0.0                                                                                 | 9.1                                                                                 | 17.4                                                                                | 0.0                                                                                 |
| Cycle Q Clear(g_c), s        | 0.1                                                                               | 14.0                                                                              | 0.0                                                                               | 3.7                                                                               | 5.2                                                                               | 0.0                                                                               | 6.9                                                                                 | 8.6                                                                                 | 0.0                                                                                 | 9.1                                                                                 | 17.4                                                                                | 0.0                                                                                 |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 0.00                                                                                |
| Lane Grp Cap(c), veh/h       | 725                                                                               | 942                                                                               |                                                                                   | 550                                                                               | 966                                                                               |                                                                                   | 221                                                                                 | 313                                                                                 |                                                                                     | 322                                                                                 | 322                                                                                 |                                                                                     |
| V/C Ratio(X)                 | 0.01                                                                              | 0.38                                                                              |                                                                                   | 0.22                                                                              | 0.16                                                                              |                                                                                   | 0.57                                                                                | 0.48                                                                                |                                                                                     | 0.51                                                                                | 0.87                                                                                |                                                                                     |
| Avail Cap(c_a), veh/h        | 858                                                                               | 942                                                                               |                                                                                   | 606                                                                               | 966                                                                               |                                                                                   | 232                                                                                 | 526                                                                                 |                                                                                     | 322                                                                                 | 522                                                                                 |                                                                                     |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 0.94                                                                                | 0.94                                                                                | 0.00                                                                                | 1.00                                                                                | 1.00                                                                                | 0.00                                                                                |
| Uniform Delay (d), s/veh     | 13.3                                                                              | 16.9                                                                              | 0.0                                                                               | 12.3                                                                              | 12.4                                                                              | 0.0                                                                               | 38.6                                                                                | 45.3                                                                                | 0.0                                                                                 | 38.0                                                                                | 48.3                                                                                | 0.0                                                                                 |
| Incr Delay (d2), s/veh       | 0.0                                                                               | 1.1                                                                               | 0.0                                                                               | 0.2                                                                               | 0.4                                                                               | 0.0                                                                               | 2.8                                                                                 | 1.1                                                                                 | 0.0                                                                                 | 1.4                                                                                 | 8.5                                                                                 | 0.0                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 0.0                                                                               | 5.7                                                                               | 0.0                                                                               | 1.3                                                                               | 1.9                                                                               | 0.0                                                                               | 3.1                                                                                 | 4.0                                                                                 | 0.0                                                                                 | 4.1                                                                                 | 8.8                                                                                 | 0.0                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 13.3                                                                              | 18.1                                                                              | 0.0                                                                               | 12.5                                                                              | 12.8                                                                              | 0.0                                                                               | 41.5                                                                                | 46.3                                                                                | 0.0                                                                                 | 39.4                                                                                | 56.8                                                                                | 0.0                                                                                 |
| LnGrp LOS                    | B                                                                                 | B                                                                                 |                                                                                   | B                                                                                 | B                                                                                 |                                                                                   | D                                                                                   | D                                                                                   |                                                                                     | D                                                                                   | E                                                                                   |                                                                                     |
| Approach Vol, veh/h          | 358                                                                               |                                                                                   |                                                                                   | 273                                                                               |                                                                                   |                                                                                   | 275                                                                                 |                                                                                     |                                                                                     | 445                                                                                 |                                                                                     |                                                                                     |
| Approach Delay, s/veh        | 18.0                                                                              |                                                                                   |                                                                                   | 12.6                                                                              |                                                                                   |                                                                                   | 44.1                                                                                |                                                                                     |                                                                                     | 50.3                                                                                |                                                                                     |                                                                                     |
| Approach LOS                 | B                                                                                 |                                                                                   |                                                                                   | B                                                                                 |                                                                                   |                                                                                   | D                                                                                   |                                                                                     |                                                                                     | D                                                                                   |                                                                                     |                                                                                     |
| Timer - Assigned Phs         | 1                                                                                 | 2                                                                                 | 3                                                                                 | 4                                                                                 | 5                                                                                 | 6                                                                                 | 7                                                                                   | 8                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 6.1                                                                               | 73.4                                                                              | 14.3                                                                              | 26.2                                                                              | 11.1                                                                              | 68.4                                                                              | 15.0                                                                                | 25.4                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                                 | 5.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 9.5                                                                               | 45.5                                                                              | 9.5                                                                               | 33.5                                                                              | 9.5                                                                               | 45.5                                                                              | 9.5                                                                                 | 33.5                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 2.1                                                                               | 7.2                                                                               | 8.9                                                                               | 19.4                                                                              | 5.7                                                                               | 16.0                                                                              | 11.1                                                                                | 10.6                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 0.0                                                                               | 1.6                                                                               | 0.0                                                                               | 1.3                                                                               | 0.1                                                                               | 4.0                                                                               | 0.0                                                                                 | 0.7                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

Intersection Summary

|                    |      |
|--------------------|------|
| HCM 6th Ctrl Delay | 32.9 |
| HCM 6th LOS        | C    |

Notes

Unsignalized Delay for [NBR, EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

| Intersection             |                                                                                   |      |        |                                                                                   |                                                                                   |      |
|--------------------------|-----------------------------------------------------------------------------------|------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| Int Delay, s/veh         | 2.1                                                                               |      |        |                                                                                   |                                                                                   |      |
| Movement                 | EBT                                                                               | EBR  | WBL    | WBT                                                                               | NBL                                                                               | NBR  |
| Lane Configurations      |  |      |        |  |  |      |
| Traffic Vol, veh/h       | 596                                                                               | 98   | 7      | 257                                                                               | 78                                                                                | 11   |
| Future Vol, veh/h        | 596                                                                               | 98   | 7      | 257                                                                               | 78                                                                                | 11   |
| Conflicting Peds, #/hr   | 0                                                                                 | 0    | 0      | 0                                                                                 | 0                                                                                 | 0    |
| Sign Control             | Free                                                                              | Free | Free   | Free                                                                              | Stop                                                                              | Stop |
| RT Channelized           | -                                                                                 | None | -      | None                                                                              | -                                                                                 | None |
| Storage Length           | -                                                                                 | -    | -      | -                                                                                 | 0                                                                                 | -    |
| Veh in Median Storage, # | 0                                                                                 | -    | -      | 0                                                                                 | 0                                                                                 | -    |
| Grade, %                 | 0                                                                                 | -    | -      | 0                                                                                 | 0                                                                                 | -    |
| Peak Hour Factor         | 91                                                                                | 91   | 91     | 91                                                                                | 91                                                                                | 91   |
| Heavy Vehicles, %        | 7                                                                                 | 1    | 0      | 14                                                                                | 0                                                                                 | 0    |
| Mvmt Flow                | 655                                                                               | 108  | 8      | 282                                                                               | 86                                                                                | 12   |
|                          |                                                                                   |      |        |                                                                                   |                                                                                   |      |
| Major/Minor              | Major1                                                                            |      | Major2 |                                                                                   | Minor1                                                                            |      |
| Conflicting Flow All     | 0                                                                                 | 0    | 763    | 0                                                                                 | 1007                                                                              | 709  |
| Stage 1                  | -                                                                                 | -    | -      | -                                                                                 | 709                                                                               | -    |
| Stage 2                  | -                                                                                 | -    | -      | -                                                                                 | 298                                                                               | -    |
| Critical Hdwy            | -                                                                                 | -    | 4.1    | -                                                                                 | 6.4                                                                               | 6.2  |
| Critical Hdwy Stg 1      | -                                                                                 | -    | -      | -                                                                                 | 5.4                                                                               | -    |
| Critical Hdwy Stg 2      | -                                                                                 | -    | -      | -                                                                                 | 5.4                                                                               | -    |
| Follow-up Hdwy           | -                                                                                 | -    | 2.2    | -                                                                                 | 3.5                                                                               | 3.3  |
| Pot Cap-1 Maneuver       | -                                                                                 | -    | 859    | -                                                                                 | 269                                                                               | 438  |
| Stage 1                  | -                                                                                 | -    | -      | -                                                                                 | 491                                                                               | -    |
| Stage 2                  | -                                                                                 | -    | -      | -                                                                                 | 758                                                                               | -    |
| Platoon blocked, %       | -                                                                                 | -    |        | -                                                                                 |                                                                                   |      |
| Mov Cap-1 Maneuver       | -                                                                                 | -    | 859    | -                                                                                 | 266                                                                               | 438  |
| Mov Cap-2 Maneuver       | -                                                                                 | -    | -      | -                                                                                 | 266                                                                               | -    |
| Stage 1                  | -                                                                                 | -    | -      | -                                                                                 | 491                                                                               | -    |
| Stage 2                  | -                                                                                 | -    | -      | -                                                                                 | 750                                                                               | -    |
|                          |                                                                                   |      |        |                                                                                   |                                                                                   |      |
|                          |                                                                                   |      |        |                                                                                   |                                                                                   |      |
| Approach                 | EB                                                                                |      | WB     |                                                                                   | NB                                                                                |      |
| HCM Control Delay, s     | 0                                                                                 |      | 0.2    |                                                                                   | 24.6                                                                              |      |
| HCM LOS                  | C                                                                                 |      |        |                                                                                   |                                                                                   |      |
|                          |                                                                                   |      |        |                                                                                   |                                                                                   |      |
|                          |                                                                                   |      |        |                                                                                   |                                                                                   |      |
| Minor Lane/Major Mvmt    | NBLn1                                                                             | EBT  | EBR    | WBL                                                                               | WBT                                                                               |      |
| Capacity (veh/h)         | 280                                                                               | -    | -      | 859                                                                               | -                                                                                 |      |
| HCM Lane V/C Ratio       | 0.349                                                                             | -    | -      | 0.009                                                                             | -                                                                                 |      |
| HCM Control Delay (s)    | 24.6                                                                              | -    | -      | 9.2                                                                               | 0                                                                                 |      |
| HCM Lane LOS             | C                                                                                 | -    | -      | A                                                                                 | A                                                                                 |      |
| HCM 95th %tile Q(veh)    | 1.5                                                                               | -    | -      | 0                                                                                 | -                                                                                 |      |

# Timings 7: Post Rd & I-20 WB Ramps

2a. No-Build 2035 AM  
02/20/2025

|                         |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group              | WBL                                                                               | WBR                                                                               | NBL                                                                               | NBT                                                                               | SBT                                                                               | SBR                                                                               |
| Lane Configurations     |  |  |  |  |  |  |
| Traffic Volume (vph)    | 173                                                                               | 131                                                                               | 235                                                                               | 413                                                                               | 541                                                                               | 83                                                                                |
| Future Volume (vph)     | 173                                                                               | 131                                                                               | 235                                                                               | 413                                                                               | 541                                                                               | 83                                                                                |
| Lane Group Flow (vph)   | 204                                                                               | 154                                                                               | 276                                                                               | 486                                                                               | 636                                                                               | 98                                                                                |
| Turn Type               | Prot                                                                              | Perm                                                                              | pm+pt                                                                             | NA                                                                                | NA                                                                                | Perm                                                                              |
| Protected Phases        | 3                                                                                 |                                                                                   | 1                                                                                 | 6                                                                                 | 2                                                                                 |                                                                                   |
| Permitted Phases        |                                                                                   | 8                                                                                 | 6                                                                                 |                                                                                   |                                                                                   | 2                                                                                 |
| Detector Phase          | 3                                                                                 | 8                                                                                 | 1                                                                                 | 6                                                                                 | 2                                                                                 | 2                                                                                 |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minimum Initial (s)     | 5.0                                                                               | 6.0                                                                               | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 15.0                                                                              |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 23.5                                                                              |
| Total Split (s)         | 25.0                                                                              | 25.0                                                                              | 20.0                                                                              | 75.0                                                                              | 55.0                                                                              | 55.0                                                                              |
| Total Split (%)         | 25.0%                                                                             | 25.0%                                                                             | 20.0%                                                                             | 75.0%                                                                             | 55.0%                                                                             | 55.0%                                                                             |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               |
| Lead/Lag                |                                                                                   |                                                                                   | Lead                                                                              |                                                                                   | Lag                                                                               | Lag                                                                               |
| Lead-Lag Optimize?      |                                                                                   |                                                                                   | Yes                                                                               |                                                                                   | Yes                                                                               | Yes                                                                               |
| Recall Mode             | None                                                                              | None                                                                              | None                                                                              | C-Min                                                                             | C-Min                                                                             | C-Min                                                                             |
| v/c Ratio               | 0.72                                                                              | 0.40                                                                              | 0.54                                                                              | 0.36                                                                              | 0.62                                                                              | 0.11                                                                              |
| Control Delay           | 54.1                                                                              | 9.1                                                                               | 14.2                                                                              | 5.4                                                                               | 19.8                                                                              | 3.1                                                                               |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Delay             | 54.1                                                                              | 9.1                                                                               | 14.2                                                                              | 5.4                                                                               | 19.8                                                                              | 3.1                                                                               |
| Queue Length 50th (ft)  | 124                                                                               | 0                                                                                 | 55                                                                                | 99                                                                                | 269                                                                               | 0                                                                                 |
| Queue Length 95th (ft)  | 182                                                                               | 44                                                                                | 136                                                                               | 131                                                                               | 386                                                                               | 22                                                                                |
| Internal Link Dist (ft) |                                                                                   |                                                                                   |                                                                                   | 717                                                                               | 2898                                                                              |                                                                                   |
| Turn Bay Length (ft)    |                                                                                   | 400                                                                               | 210                                                                               |                                                                                   |                                                                                   | 345                                                                               |
| Base Capacity (vph)     | 345                                                                               | 432                                                                               | 540                                                                               | 1359                                                                              | 1031                                                                              | 872                                                                               |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Reduced v/c Ratio       | 0.59                                                                              | 0.36                                                                              | 0.51                                                                              | 0.36                                                                              | 0.62                                                                              | 0.11                                                                              |

## Intersection Summary

Cycle Length: 100  
 Actuated Cycle Length: 100  
 Offset: 0 (0%), Referenced to phase 2:SBT and 6:NBTL, Start of Green  
 Natural Cycle: 70  
 Control Type: Actuated-Coordinated

Splits and Phases: 7: Post Rd & I-20 WB Ramps



# HCM 6th Signalized Intersection Summary

## 7: Post Rd & I-20 WB Ramps

2a. No-Build 2035 AM  
02/20/2025

|                                                                                                               |  |      |     |      |      |      |      |      |      |      |      |      |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------|-----|------|------|------|------|------|------|------|------|------|
| Movement                                                                                                      | EBL                                                                                | EBT  | EBR | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
| Lane Configurations                                                                                           |                                                                                    |      |     | ↰    |      | ↰    | ↰    | ↱    |      |      | ↱    | ↰    |
| Traffic Volume (veh/h)                                                                                        | 0                                                                                  | 0    | 0   | 173  | 0    | 131  | 235  | 413  | 0    | 0    | 541  | 83   |
| Future Volume (veh/h)                                                                                         | 0                                                                                  | 0    | 0   | 173  | 0    | 131  | 235  | 413  | 0    | 0    | 541  | 83   |
| Initial Q (Qb), veh                                                                                           |                                                                                    |      |     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)                                                                                           |                                                                                    |      |     | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj                                                                                              |                                                                                    |      |     | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                                                                                         |                                                                                    |      |     | No   |      |      | No   |      |      |      | No   |      |
| Adj Sat Flow, veh/h/ln                                                                                        |                                                                                    |      |     | 1870 | 0    | 1870 | 1900 | 1870 | 0    | 0    | 1885 | 1796 |
| Adj Flow Rate, veh/h                                                                                          |                                                                                    |      |     | 204  | 0    | 0    | 276  | 486  | 0    | 0    | 636  | 0    |
| Peak Hour Factor                                                                                              |                                                                                    |      |     | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Percent Heavy Veh, %                                                                                          |                                                                                    |      |     | 2    | 0    | 2    | 0    | 2    | 0    | 0    | 1    | 7    |
| Cap, veh/h                                                                                                    |                                                                                    |      |     | 239  | 0    |      | 558  | 1413 | 0    | 0    | 1180 |      |
| Arrive On Green                                                                                               |                                                                                    |      |     | 0.13 | 0.00 | 0.00 | 0.07 | 0.76 | 0.00 | 0.00 | 0.63 | 0.00 |
| Sat Flow, veh/h                                                                                               |                                                                                    |      |     | 1781 | 0    | 1585 | 1810 | 1870 | 0    | 0    | 1885 | 1522 |
| Grp Volume(v), veh/h                                                                                          |                                                                                    |      |     | 204  | 0    | 0    | 276  | 486  | 0    | 0    | 636  | 0    |
| Grp Sat Flow(s),veh/h/ln                                                                                      |                                                                                    |      |     | 1781 | 0    | 1585 | 1810 | 1870 | 0    | 0    | 1885 | 1522 |
| Q Serve(g_s), s                                                                                               |                                                                                    |      |     | 11.2 | 0.0  | 0.0  | 5.0  | 8.6  | 0.0  | 0.0  | 19.1 | 0.0  |
| Cycle Q Clear(g_c), s                                                                                         |                                                                                    |      |     | 11.2 | 0.0  | 0.0  | 5.0  | 8.6  | 0.0  | 0.0  | 19.1 | 0.0  |
| Prop In Lane                                                                                                  |                                                                                    |      |     | 1.00 |      | 1.00 | 1.00 |      | 0.00 | 0.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h                                                                                        |                                                                                    |      |     | 239  | 0    |      | 558  | 1413 | 0    | 0    | 1180 |      |
| V/C Ratio(X)                                                                                                  |                                                                                    |      |     | 0.85 | 0.00 |      | 0.50 | 0.34 | 0.00 | 0.00 | 0.54 |      |
| Avail Cap(c_a), veh/h                                                                                         |                                                                                    |      |     | 347  | 0    |      | 684  | 1413 | 0    | 0    | 1180 |      |
| HCM Platoon Ratio                                                                                             |                                                                                    |      |     | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I)                                                                                            |                                                                                    |      |     | 1.00 | 0.00 | 0.00 | 0.78 | 0.78 | 0.00 | 0.00 | 0.86 | 0.00 |
| Uniform Delay (d), s/veh                                                                                      |                                                                                    |      |     | 42.3 | 0.0  | 0.0  | 8.0  | 4.0  | 0.0  | 0.0  | 10.6 | 0.0  |
| Incr Delay (d2), s/veh                                                                                        |                                                                                    |      |     | 12.8 | 0.0  | 0.0  | 0.5  | 0.5  | 0.0  | 0.0  | 1.5  | 0.0  |
| Initial Q Delay(d3),s/veh                                                                                     |                                                                                    |      |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%),veh/ln                                                                                      |                                                                                    |      |     | 5.7  | 0.0  | 0.0  | 1.4  | 2.3  | 0.0  | 0.0  | 7.1  | 0.0  |
| Unsig. Movement Delay, s/veh                                                                                  |                                                                                    |      |     |      |      |      |      |      |      |      |      |      |
| LnGrp Delay(d),s/veh                                                                                          |                                                                                    |      |     | 55.1 | 0.0  | 0.0  | 8.5  | 4.6  | 0.0  | 0.0  | 12.1 | 0.0  |
| LnGrp LOS                                                                                                     |                                                                                    |      |     | E    | A    |      | A    | A    | A    | A    | B    |      |
| Approach Vol, veh/h                                                                                           |                                                                                    |      |     |      | 204  |      |      | 762  |      |      | 636  |      |
| Approach Delay, s/veh                                                                                         |                                                                                    |      |     |      | 55.1 |      |      | 6.0  |      |      | 12.1 |      |
| Approach LOS                                                                                                  |                                                                                    |      |     |      | E    |      |      | A    |      |      | B    |      |
| Timer - Assigned Phs                                                                                          | 1                                                                                  | 2    |     |      |      | 6    |      | 8    |      |      |      |      |
| Phs Duration (G+Y+Rc), s                                                                                      | 13.0                                                                               | 68.1 |     |      |      | 81.1 |      | 18.9 |      |      |      |      |
| Change Period (Y+Rc), s                                                                                       | 5.5                                                                                | 5.5  |     |      |      | 5.5  |      | 5.5  |      |      |      |      |
| Max Green Setting (Gmax), s                                                                                   | 14.5                                                                               | 49.5 |     |      |      | 69.5 |      | 19.5 |      |      |      |      |
| Max Q Clear Time (g_c+I1), s                                                                                  | 7.0                                                                                | 21.1 |     |      |      | 10.6 |      | 13.2 |      |      |      |      |
| Green Ext Time (p_c), s                                                                                       | 0.5                                                                                | 8.4  |     |      |      | 6.8  |      | 0.3  |      |      |      |      |
| <b>Intersection Summary</b>                                                                                   |                                                                                    |      |     |      |      |      |      |      |      |      |      |      |
| HCM 6th Ctrl Delay                                                                                            |                                                                                    |      |     | 14.7 |      |      |      |      |      |      |      |      |
| HCM 6th LOS                                                                                                   |                                                                                    |      |     | B    |      |      |      |      |      |      |      |      |
| <b>Notes</b>                                                                                                  |                                                                                    |      |     |      |      |      |      |      |      |      |      |      |
| Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay. |                                                                                    |      |     |      |      |      |      |      |      |      |      |      |

Timings  
8: Post Rd & I-20 EB Ramps

2a. No-Build 2035 AM  
02/20/2025

|                         |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group              | EBL                                                                               | EBR                                                                               | NBT                                                                               | NBR                                                                               | SBL                                                                               | SBT                                                                               |
| Lane Configurations     |  |  |  |  |  |  |
| Traffic Volume (vph)    | 155                                                                               | 354                                                                               | 563                                                                               | 533                                                                               | 282                                                                               | 449                                                                               |
| Future Volume (vph)     | 155                                                                               | 354                                                                               | 563                                                                               | 533                                                                               | 282                                                                               | 449                                                                               |
| Lane Group Flow (vph)   | 168                                                                               | 385                                                                               | 612                                                                               | 579                                                                               | 307                                                                               | 488                                                                               |
| Turn Type               | Prot                                                                              | Perm                                                                              | NA                                                                                | Perm                                                                              | pm+pt                                                                             | NA                                                                                |
| Protected Phases        | 7                                                                                 |                                                                                   | 6                                                                                 |                                                                                   | 5                                                                                 | 2                                                                                 |
| Permitted Phases        |                                                                                   | 4                                                                                 |                                                                                   | 6                                                                                 | 2                                                                                 |                                                                                   |
| Detector Phase          | 7                                                                                 | 4                                                                                 | 6                                                                                 | 6                                                                                 | 5                                                                                 | 2                                                                                 |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minimum Initial (s)     | 5.0                                                                               | 6.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                               | 15.0                                                                              |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              |
| Total Split (s)         | 26.0                                                                              | 26.0                                                                              | 53.0                                                                              | 53.0                                                                              | 21.0                                                                              | 74.0                                                                              |
| Total Split (%)         | 26.0%                                                                             | 26.0%                                                                             | 53.0%                                                                             | 53.0%                                                                             | 21.0%                                                                             | 74.0%                                                                             |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               |
| Lead/Lag                |                                                                                   |                                                                                   | Lag                                                                               | Lag                                                                               | Lead                                                                              |                                                                                   |
| Lead-Lag Optimize?      |                                                                                   |                                                                                   | Yes                                                                               | Yes                                                                               | Yes                                                                               |                                                                                   |
| Recall Mode             | None                                                                              | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                              | C-Min                                                                             |
| v/c Ratio               | 0.64                                                                              | 0.69                                                                              | 0.57                                                                              | 0.50                                                                              | 0.58                                                                              | 0.35                                                                              |
| Control Delay           | 51.1                                                                              | 10.9                                                                              | 17.8                                                                              | 2.9                                                                               | 13.5                                                                              | 4.9                                                                               |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Delay             | 51.1                                                                              | 10.9                                                                              | 17.8                                                                              | 2.9                                                                               | 13.5                                                                              | 4.9                                                                               |
| Queue Length 50th (ft)  | 102                                                                               | 0                                                                                 | 228                                                                               | 0                                                                                 | 37                                                                                | 81                                                                                |
| Queue Length 95th (ft)  | 161                                                                               | 81                                                                                | 424                                                                               | 56                                                                                | 171                                                                               | 172                                                                               |
| Internal Link Dist (ft) |                                                                                   |                                                                                   | 1742                                                                              |                                                                                   |                                                                                   | 717                                                                               |
| Turn Bay Length (ft)    |                                                                                   | 340                                                                               |                                                                                   | 390                                                                               | 275                                                                               |                                                                                   |
| Base Capacity (vph)     | 366                                                                               | 627                                                                               | 1072                                                                              | 1166                                                                              | 580                                                                               | 1385                                                                              |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Reduced v/c Ratio       | 0.46                                                                              | 0.61                                                                              | 0.57                                                                              | 0.50                                                                              | 0.53                                                                              | 0.35                                                                              |

Intersection Summary

Cycle Length: 100  
 Actuated Cycle Length: 100  
 Offset: 0 (0%), Referenced to phase 2:SBTL and 6:NBT, Start of Green  
 Natural Cycle: 75  
 Control Type: Actuated-Coordinated

Splits and Phases: 8: Post Rd & I-20 EB Ramps



# HCM 6th Signalized Intersection Summary 8: Post Rd & I-20 EB Ramps

2a. No-Build 2035 AM  
02/20/2025

|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |                                                                                   |  |                                                                                   |                                                                                   |                                                                                   |                                                                                    |  |  |  |  |                                                                                     |
| Traffic Volume (veh/h)       | 155                                                                               | 0                                                                                 | 354                                                                               | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                  | 563                                                                                 | 533                                                                                 | 282                                                                                 | 449                                                                                 | 0                                                                                   |
| Future Volume (veh/h)        | 155                                                                               | 0                                                                                 | 354                                                                               | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                  | 563                                                                                 | 533                                                                                 | 282                                                                                 | 449                                                                                 | 0                                                                                   |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                               |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                               | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | No                                                                                 |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1885                                                                              | 0                                                                                 | 1856                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1870                                                                                | 1885                                                                                | 1856                                                                                | 1870                                                                                | 0                                                                                   |
| Adj Flow Rate, veh/h         | 168                                                                               | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 612                                                                                 | 0                                                                                   | 307                                                                                 | 488                                                                                 | 0                                                                                   |
| Peak Hour Factor             | 0.92                                                                              | 0.92                                                                              | 0.92                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.92                                                                               | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                |
| Percent Heavy Veh, %         | 1                                                                                 | 0                                                                                 | 3                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 2                                                                                   | 1                                                                                   | 3                                                                                   | 2                                                                                   | 0                                                                                   |
| Cap, veh/h                   | 203                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1186                                                                                |                                                                                     | 593                                                                                 | 1453                                                                                | 0                                                                                   |
| Arrive On Green              | 0.11                                                                              | 0.00                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                               | 0.63                                                                                | 0.00                                                                                | 0.17                                                                                | 1.00                                                                                | 0.00                                                                                |
| Sat Flow, veh/h              | 1795                                                                              | 0                                                                                 | 1572                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1870                                                                                | 1598                                                                                | 1767                                                                                | 1870                                                                                | 0                                                                                   |
| Grp Volume(v), veh/h         | 168                                                                               | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 612                                                                                 | 0                                                                                   | 307                                                                                 | 488                                                                                 | 0                                                                                   |
| Grp Sat Flow(s),veh/h/ln     | 1795                                                                              | 0                                                                                 | 1572                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1870                                                                                | 1598                                                                                | 1767                                                                                | 1870                                                                                | 0                                                                                   |
| Q Serve(g_s), s              | 9.2                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 17.8                                                                                | 0.0                                                                                 | 6.2                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Cycle Q Clear(g_c), s        | 9.2                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 17.8                                                                                | 0.0                                                                                 | 6.2                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                               |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 0.00                                                                                |
| Lane Grp Cap(c), veh/h       | 203                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1186                                                                                |                                                                                     | 593                                                                                 | 1453                                                                                | 0                                                                                   |
| V/C Ratio(X)                 | 0.83                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                               | 0.52                                                                                |                                                                                     | 0.52                                                                                | 0.34                                                                                | 0.00                                                                                |
| Avail Cap(c_a), veh/h        | 368                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1186                                                                                |                                                                                     | 712                                                                                 | 1453                                                                                | 0                                                                                   |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                               | 1.00                                                                                | 1.00                                                                                | 2.00                                                                                | 2.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 0.00                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                               | 1.00                                                                                | 0.00                                                                                | 0.72                                                                                | 0.72                                                                                | 0.00                                                                                |
| Uniform Delay (d), s/veh     | 43.4                                                                              | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 9.9                                                                                 | 0.0                                                                                 | 6.4                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Incr Delay (d2), s/veh       | 8.2                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 1.6                                                                                 | 0.0                                                                                 | 0.5                                                                                 | 0.5                                                                                 | 0.0                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 4.5                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 6.5                                                                                 | 0.0                                                                                 | 1.3                                                                                 | 0.2                                                                                 | 0.0                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 51.6                                                                              | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 11.5                                                                                | 0.0                                                                                 | 7.0                                                                                 | 0.5                                                                                 | 0.0                                                                                 |
| LnGrp LOS                    | D                                                                                 | A                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | A                                                                                  | B                                                                                   |                                                                                     | A                                                                                   | A                                                                                   | A                                                                                   |
| Approach Vol, veh/h          | 168                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 612                                                                                |                                                                                     |                                                                                     | 795                                                                                 |                                                                                     |                                                                                     |
| Approach Delay, s/veh        | 51.6                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 11.5                                                                               |                                                                                     |                                                                                     | 3.0                                                                                 |                                                                                     |                                                                                     |
| Approach LOS                 | D                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | B                                                                                  |                                                                                     |                                                                                     | A                                                                                   |                                                                                     |                                                                                     |
| Timer - Assigned Phs         | 2                                                                                 |                                                                                   |                                                                                   | 4                                                                                 |                                                                                   |                                                                                   | 5                                                                                  |                                                                                     |                                                                                     | 6                                                                                   |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 83.2                                                                              |                                                                                   |                                                                                   | 16.8                                                                              |                                                                                   |                                                                                   | 14.2                                                                               |                                                                                     |                                                                                     | 68.9                                                                                |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 5.5                                                                               |                                                                                   |                                                                                   | 5.5                                                                               |                                                                                   |                                                                                   | 5.5                                                                                |                                                                                     |                                                                                     | 5.5                                                                                 |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 68.5                                                                              |                                                                                   |                                                                                   | 20.5                                                                              |                                                                                   |                                                                                   | 15.5                                                                               |                                                                                     |                                                                                     | 47.5                                                                                |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 2.0                                                                               |                                                                                   |                                                                                   | 11.2                                                                              |                                                                                   |                                                                                   | 8.2                                                                                |                                                                                     |                                                                                     | 19.8                                                                                |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 6.9                                                                               |                                                                                   |                                                                                   | 0.3                                                                               |                                                                                   |                                                                                   | 0.5                                                                                |                                                                                     |                                                                                     | 7.9                                                                                 |                                                                                     |                                                                                     |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th Ctrl Delay           | 11.5                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th LOS                  | B                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Notes                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

# Timings

## 1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)

2b. No-Build 2035 PM

02/20/2025

|                         | →     | ↘     | ↙     | ←     | ↖     | ↗     |
|-------------------------|-------|-------|-------|-------|-------|-------|
| Lane Group              | EBT   | EBR   | WBL   | WBT   | NBL   | NBR   |
| Lane Configurations     | ↑     | ↑     | ↘     | ↑     | ↘     | ↘     |
| Traffic Volume (vph)    | 778   | 126   | 228   | 811   | 152   | 386   |
| Future Volume (vph)     | 778   | 126   | 228   | 811   | 152   | 386   |
| Lane Group Flow (vph)   | 884   | 143   | 259   | 922   | 173   | 439   |
| Turn Type               | NA    | Perm  | pm+pt | NA    | Prot  | Perm  |
| Protected Phases        | 6     |       | 5     | 2     | 8     |       |
| Permitted Phases        |       | 6     | 2     |       |       | 8     |
| Detector Phase          | 6     | 6     | 5     | 2     | 8     | 8     |
| Switch Phase            |       |       |       |       |       |       |
| Minimum Initial (s)     | 15.0  | 15.0  | 5.0   | 15.0  | 6.0   | 6.0   |
| Minimum Split (s)       | 23.5  | 23.5  | 15.0  | 23.5  | 23.5  | 23.5  |
| Total Split (s)         | 73.0  | 73.0  | 18.0  | 91.0  | 29.0  | 29.0  |
| Total Split (%)         | 60.8% | 60.8% | 15.0% | 75.8% | 24.2% | 24.2% |
| Yellow Time (s)         | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)     | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| Lead/Lag                | Lag   | Lag   | Lead  |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   | Yes   |       |       |       |
| Recall Mode             | Min   | Min   | None  | Min   | None  | None  |
| v/c Ratio               | 0.89  | 0.16  | 0.80  | 0.70  | 0.65  | 0.88  |
| Control Delay           | 33.8  | 3.6   | 39.8  | 12.4  | 54.5  | 35.2  |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay             | 33.8  | 3.6   | 39.8  | 12.4  | 54.5  | 35.2  |
| Queue Length 50th (ft)  | 515   | 6     | 100   | 325   | 121   | 116   |
| Queue Length 95th (ft)  | 745   | 34    | #248  | 498   | 192   | #265  |
| Internal Link Dist (ft) | 295   |       |       | 1352  | 1634  |       |
| Turn Bay Length (ft)    |       |       | 350   |       |       | 285   |
| Base Capacity (vph)     | 1199  | 1050  | 325   | 1472  | 371   | 584   |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0     |
| Spillback Cap Reductn   | 0     | 0     | 0     | 0     | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     | 0     | 0     | 0     | 0     |
| Reduced v/c Ratio       | 0.74  | 0.14  | 0.80  | 0.63  | 0.47  | 0.75  |

### Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 105.2

Natural Cycle: 90

Control Type: Actuated-Uncoordinated

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)



HCM 6th Signalized Intersection Summary  
1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)

2b. No-Build 2035 PM  
02/20/2025

|                                                                                                               |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|--|--|--|--|--|
| Movement                                                                                                      | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | NBL                                                                               | NBR                                                                               |  |  |  |  |  |  |
| Lane Configurations                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h)                                                                                        | 778                                                                               | 126                                                                               | 228                                                                               | 811                                                                               | 152                                                                               | 386                                                                               |  |  |  |  |  |  |
| Future Volume (veh/h)                                                                                         | 778                                                                               | 126                                                                               | 228                                                                               | 811                                                                               | 152                                                                               | 386                                                                               |  |  |  |  |  |  |
| Initial Q (Qb), veh                                                                                           | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |  |  |  |  |  |  |
| Ped-Bike Adj(A_pbT)                                                                                           |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |  |  |  |  |  |  |
| Parking Bus, Adj                                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |  |  |  |  |  |  |
| Work Zone On Approach                                                                                         | No                                                                                |                                                                                   |                                                                                   | No                                                                                | No                                                                                |                                                                                   |  |  |  |  |  |  |
| Adj Sat Flow, veh/h/ln                                                                                        | 1826                                                                              | 1811                                                                              | 1870                                                                              | 1826                                                                              | 1722                                                                              | 1870                                                                              |  |  |  |  |  |  |
| Adj Flow Rate, veh/h                                                                                          | 884                                                                               | 0                                                                                 | 259                                                                               | 922                                                                               | 173                                                                               | 0                                                                                 |  |  |  |  |  |  |
| Peak Hour Factor                                                                                              | 0.88                                                                              | 0.88                                                                              | 0.88                                                                              | 0.88                                                                              | 0.88                                                                              | 0.88                                                                              |  |  |  |  |  |  |
| Percent Heavy Veh, %                                                                                          | 5                                                                                 | 6                                                                                 | 2                                                                                 | 5                                                                                 | 12                                                                                | 2                                                                                 |  |  |  |  |  |  |
| Cap, veh/h                                                                                                    | 1076                                                                              |                                                                                   | 360                                                                               | 1346                                                                              | 211                                                                               |                                                                                   |  |  |  |  |  |  |
| Arrive On Green                                                                                               | 0.59                                                                              | 0.00                                                                              | 0.08                                                                              | 0.74                                                                              | 0.13                                                                              | 0.00                                                                              |  |  |  |  |  |  |
| Sat Flow, veh/h                                                                                               | 1826                                                                              | 1535                                                                              | 1781                                                                              | 1826                                                                              | 1640                                                                              | 1585                                                                              |  |  |  |  |  |  |
| Grp Volume(v), veh/h                                                                                          | 884                                                                               | 0                                                                                 | 259                                                                               | 922                                                                               | 173                                                                               | 0                                                                                 |  |  |  |  |  |  |
| Grp Sat Flow(s),veh/h/ln                                                                                      | 1826                                                                              | 1535                                                                              | 1781                                                                              | 1826                                                                              | 1640                                                                              | 1585                                                                              |  |  |  |  |  |  |
| Q Serve(g_s), s                                                                                               | 31.6                                                                              | 0.0                                                                               | 4.3                                                                               | 22.0                                                                              | 8.4                                                                               | 0.0                                                                               |  |  |  |  |  |  |
| Cycle Q Clear(g_c), s                                                                                         | 31.6                                                                              | 0.0                                                                               | 4.3                                                                               | 22.0                                                                              | 8.4                                                                               | 0.0                                                                               |  |  |  |  |  |  |
| Prop In Lane                                                                                                  |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |  |  |  |  |  |  |
| Lane Grp Cap(c), veh/h                                                                                        | 1076                                                                              |                                                                                   | 360                                                                               | 1346                                                                              | 211                                                                               |                                                                                   |  |  |  |  |  |  |
| V/C Ratio(X)                                                                                                  | 0.82                                                                              |                                                                                   | 0.72                                                                              | 0.69                                                                              | 0.82                                                                              |                                                                                   |  |  |  |  |  |  |
| Avail Cap(c_a), veh/h                                                                                         | 1504                                                                              |                                                                                   | 487                                                                               | 1905                                                                              | 470                                                                               |                                                                                   |  |  |  |  |  |  |
| HCM Platoon Ratio                                                                                             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |  |  |  |  |  |  |
| Upstream Filter(I)                                                                                            | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              |  |  |  |  |  |  |
| Uniform Delay (d), s/veh                                                                                      | 13.4                                                                              | 0.0                                                                               | 15.8                                                                              | 5.7                                                                               | 34.8                                                                              | 0.0                                                                               |  |  |  |  |  |  |
| Incr Delay (d2), s/veh                                                                                        | 4.1                                                                               | 0.0                                                                               | 3.3                                                                               | 1.3                                                                               | 7.6                                                                               | 0.0                                                                               |  |  |  |  |  |  |
| Initial Q Delay(d3),s/veh                                                                                     | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |  |  |  |  |  |  |
| %ile BackOfQ(50%),veh/ln                                                                                      | 11.2                                                                              | 0.0                                                                               | 2.9                                                                               | 5.0                                                                               | 3.6                                                                               | 0.0                                                                               |  |  |  |  |  |  |
| Unsig. Movement Delay, s/veh                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |  |  |  |  |  |  |
| LnGrp Delay(d),s/veh                                                                                          | 17.5                                                                              | 0.0                                                                               | 19.1                                                                              | 7.1                                                                               | 42.4                                                                              | 0.0                                                                               |  |  |  |  |  |  |
| LnGrp LOS                                                                                                     | B                                                                                 |                                                                                   | B                                                                                 | A                                                                                 | D                                                                                 |                                                                                   |  |  |  |  |  |  |
| Approach Vol, veh/h                                                                                           | 884                                                                               |                                                                                   |                                                                                   | 1181                                                                              | 173                                                                               |                                                                                   |  |  |  |  |  |  |
| Approach Delay, s/veh                                                                                         | 17.5                                                                              |                                                                                   |                                                                                   | 9.7                                                                               | 42.4                                                                              |                                                                                   |  |  |  |  |  |  |
| Approach LOS                                                                                                  | B                                                                                 |                                                                                   |                                                                                   | A                                                                                 | D                                                                                 |                                                                                   |  |  |  |  |  |  |
| Timer - Assigned Phs                                                                                          | 2                                                                                 |                                                                                   | 5                                                                                 |                                                                                   | 6                                                                                 | 8                                                                                 |  |  |  |  |  |  |
| Phs Duration (G+Y+Rc), s                                                                                      | 65.9                                                                              |                                                                                   | 12.1                                                                              |                                                                                   | 53.8                                                                              | 16.1                                                                              |  |  |  |  |  |  |
| Change Period (Y+Rc), s                                                                                       | 5.5                                                                               |                                                                                   | 5.5                                                                               |                                                                                   | 5.5                                                                               | 5.5                                                                               |  |  |  |  |  |  |
| Max Green Setting (Gmax), s                                                                                   | 85.5                                                                              |                                                                                   | 12.5                                                                              |                                                                                   | 67.5                                                                              | 23.5                                                                              |  |  |  |  |  |  |
| Max Q Clear Time (g_c+I1), s                                                                                  | 24.0                                                                              |                                                                                   | 6.3                                                                               |                                                                                   | 33.6                                                                              | 10.4                                                                              |  |  |  |  |  |  |
| Green Ext Time (p_c), s                                                                                       | 19.7                                                                              |                                                                                   | 0.4                                                                               |                                                                                   | 14.7                                                                              | 0.3                                                                               |  |  |  |  |  |  |
| Intersection Summary                                                                                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |  |  |  |  |  |  |
| HCM 6th Ctrl Delay                                                                                            |                                                                                   |                                                                                   | 15.3                                                                              |                                                                                   |                                                                                   |                                                                                   |  |  |  |  |  |  |
| HCM 6th LOS                                                                                                   |                                                                                   |                                                                                   | B                                                                                 |                                                                                   |                                                                                   |                                                                                   |  |  |  |  |  |  |
| Notes                                                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |  |  |  |  |  |  |
| Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay. |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |  |  |  |  |  |  |

| Intersection             |        |                                                                                   |                                                                                   |        |                                                                                   |      |
|--------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|------|
| Int Delay, s/veh         | 0.2    |                                                                                   |                                                                                   |        |                                                                                   |      |
| Movement                 | EBL    | EBT                                                                               | WBT                                                                               | WBR    | SBL                                                                               | SBR  |
| Lane Configurations      |        |  |  |        |  |      |
| Traffic Vol, veh/h       | 1      | 404                                                                               | 569                                                                               | 5      | 10                                                                                | 0    |
| Future Vol, veh/h        | 1      | 404                                                                               | 569                                                                               | 5      | 10                                                                                | 0    |
| Conflicting Peds, #/hr   | 0      | 0                                                                                 | 0                                                                                 | 0      | 0                                                                                 | 0    |
| Sign Control             | Free   | Free                                                                              | Free                                                                              | Free   | Stop                                                                              | Stop |
| RT Channelized           | -      | None                                                                              | -                                                                                 | None   | -                                                                                 | None |
| Storage Length           | -      | -                                                                                 | -                                                                                 | -      | 0                                                                                 | -    |
| Veh in Median Storage, # | -      | 0                                                                                 | 0                                                                                 | -      | 0                                                                                 | -    |
| Grade, %                 | -      | 0                                                                                 | 0                                                                                 | -      | 0                                                                                 | -    |
| Peak Hour Factor         | 97     | 97                                                                                | 97                                                                                | 97     | 97                                                                                | 97   |
| Heavy Vehicles, %        | 0      | 8                                                                                 | 4                                                                                 | 0      | 13                                                                                | 0    |
| Mvmt Flow                | 1      | 416                                                                               | 587                                                                               | 5      | 10                                                                                | 0    |
|                          |        |                                                                                   |                                                                                   |        |                                                                                   |      |
| Major/Minor              | Major1 | Major2                                                                            |                                                                                   | Minor2 |                                                                                   |      |
| Conflicting Flow All     | 592    | 0                                                                                 | -                                                                                 | 0      | 800                                                                               | 590  |
| Stage 1                  | -      | -                                                                                 | -                                                                                 | -      | 590                                                                               | -    |
| Stage 2                  | -      | -                                                                                 | -                                                                                 | -      | 210                                                                               | -    |
| Critical Hdwy            | 4.1    | -                                                                                 | -                                                                                 | -      | 6.795                                                                             | 6.2  |
| Critical Hdwy Stg 1      | -      | -                                                                                 | -                                                                                 | -      | 5.595                                                                             | -    |
| Critical Hdwy Stg 2      | -      | -                                                                                 | -                                                                                 | -      | 5.995                                                                             | -    |
| Follow-up Hdwy           | 2.2    | -                                                                                 | -                                                                                 | -      | 3.6235                                                                            | 3.3  |
| Pot Cap-1 Maneuver       | 994    | -                                                                                 | -                                                                                 | -      | 320                                                                               | 511  |
| Stage 1                  | -      | -                                                                                 | -                                                                                 | -      | 527                                                                               | -    |
| Stage 2                  | -      | -                                                                                 | -                                                                                 | -      | 777                                                                               | -    |
| Platoon blocked, %       |        | -                                                                                 | -                                                                                 | -      |                                                                                   |      |
| Mov Cap-1 Maneuver       | 994    | -                                                                                 | -                                                                                 | -      | 320                                                                               | 511  |
| Mov Cap-2 Maneuver       | -      | -                                                                                 | -                                                                                 | -      | 320                                                                               | -    |
| Stage 1                  | -      | -                                                                                 | -                                                                                 | -      | 526                                                                               | -    |
| Stage 2                  | -      | -                                                                                 | -                                                                                 | -      | 777                                                                               | -    |
|                          |        |                                                                                   |                                                                                   |        |                                                                                   |      |
|                          |        |                                                                                   |                                                                                   |        |                                                                                   |      |
| Approach                 | EB     | WB                                                                                |                                                                                   | SB     |                                                                                   |      |
| HCM Control Delay, s     | 0      | 0                                                                                 |                                                                                   | 16.6   |                                                                                   |      |
| HCM LOS                  |        |                                                                                   |                                                                                   | C      |                                                                                   |      |
|                          |        |                                                                                   |                                                                                   |        |                                                                                   |      |
|                          |        |                                                                                   |                                                                                   |        |                                                                                   |      |
| Minor Lane/Major Mvmt    | EBL    | EBT                                                                               | WBT                                                                               | WBR    | SBLn1                                                                             |      |
| Capacity (veh/h)         | 994    | -                                                                                 | -                                                                                 | -      | 320                                                                               |      |
| HCM Lane V/C Ratio       | 0.001  | -                                                                                 | -                                                                                 | -      | 0.032                                                                             |      |
| HCM Control Delay (s)    | 8.6    | 0                                                                                 | -                                                                                 | -      | 16.6                                                                              |      |
| HCM Lane LOS             | A      | A                                                                                 | -                                                                                 | -      | C                                                                                 |      |
| HCM 95th %tile Q(veh)    | 0      | -                                                                                 | -                                                                                 | -      | 0.1                                                                               |      |

| Intersection             |        |       |      |        |       |      |        |       |      |        |      |      |
|--------------------------|--------|-------|------|--------|-------|------|--------|-------|------|--------|------|------|
| Int Delay, s/veh         | 1.2    |       |      |        |       |      |        |       |      |        |      |      |
| Movement                 | EBL    | EBT   | EBR  | WBL    | WBT   | WBR  | NBL    | NBT   | NBR  | SBL    | SBT  | SBR  |
| Lane Configurations      |        | ↕     |      |        | ↕     |      |        | ↕     |      |        | ↕    |      |
| Traffic Vol, veh/h       | 4      | 443   | 4    | 26     | 751   | 4    | 13     | 1     | 29   | 4      | 1    | 2    |
| Future Vol, veh/h        | 4      | 443   | 4    | 26     | 751   | 4    | 13     | 1     | 29   | 4      | 1    | 2    |
| Conflicting Peds, #/hr   | 0      | 0     | 0    | 0      | 0     | 0    | 0      | 0     | 0    | 0      | 0    | 0    |
| Sign Control             | Free   | Free  | Free | Free   | Free  | Free | Stop   | Stop  | Stop | Stop   | Stop | Stop |
| RT Channelized           | -      | -     | None | -      | -     | None | -      | -     | None | -      | -    | None |
| Storage Length           | -      | -     | -    | -      | -     | -    | -      | -     | -    | -      | -    | -    |
| Veh in Median Storage, # | -      | 0     | -    | -      | 0     | -    | -      | 0     | -    | -      | 0    | -    |
| Grade, %                 | -      | 0     | -    | -      | 0     | -    | -      | 0     | -    | -      | 0    | -    |
| Peak Hour Factor         | 90     | 90    | 90   | 90     | 90    | 90   | 90     | 90    | 90   | 90     | 90   | 90   |
| Heavy Vehicles, %        | 0      | 5     | 0    | 0      | 2     | 33   | 0      | 0     | 0    | 0      | 0    | 0    |
| Mvmt Flow                | 4      | 492   | 4    | 29     | 834   | 4    | 14     | 1     | 32   | 4      | 1    | 2    |
|                          |        |       |      |        |       |      |        |       |      |        |      |      |
| Major/Minor              | Major1 |       |      | Major2 |       |      | Minor1 |       |      | Minor2 |      |      |
| Conflicting Flow All     | 838    | 0     | 0    | 496    | 0     | 0    | 1398   | 1398  | 494  | 1413   | 1398 | 836  |
| Stage 1                  | -      | -     | -    | -      | -     | -    | 502    | 502   | -    | 894    | 894  | -    |
| Stage 2                  | -      | -     | -    | -      | -     | -    | 896    | 896   | -    | 519    | 504  | -    |
| Critical Hdwy            | 4.1    | -     | -    | 4.1    | -     | -    | 7.1    | 6.5   | 6.2  | 7.1    | 6.5  | 6.2  |
| Critical Hdwy Stg 1      | -      | -     | -    | -      | -     | -    | 6.1    | 5.5   | -    | 6.1    | 5.5  | -    |
| Critical Hdwy Stg 2      | -      | -     | -    | -      | -     | -    | 6.1    | 5.5   | -    | 6.1    | 5.5  | -    |
| Follow-up Hdwy           | 2.2    | -     | -    | 2.2    | -     | -    | 3.5    | 4     | 3.3  | 3.5    | 4    | 3.3  |
| Pot Cap-1 Maneuver       | 805    | -     | -    | 1078   | -     | -    | 119    | 142   | 579  | 117    | 142  | 370  |
| Stage 1                  | -      | -     | -    | -      | -     | -    | 555    | 545   | -    | 338    | 362  | -    |
| Stage 2                  | -      | -     | -    | -      | -     | -    | 338    | 362   | -    | 544    | 544  | -    |
| Platoon blocked, %       |        | -     | -    |        | -     | -    |        |       |      |        |      |      |
| Mov Cap-1 Maneuver       | 805    | -     | -    | 1078   | -     | -    | 112    | 134   | 579  | 105    | 134  | 370  |
| Mov Cap-2 Maneuver       | -      | -     | -    | -      | -     | -    | 112    | 134   | -    | 105    | 134  | -    |
| Stage 1                  | -      | -     | -    | -      | -     | -    | 551    | 541   | -    | 336    | 344  | -    |
| Stage 2                  | -      | -     | -    | -      | -     | -    | 318    | 344   | -    | 509    | 540  | -    |
|                          |        |       |      |        |       |      |        |       |      |        |      |      |
| Approach                 | EB     |       |      | WB     |       |      | NB     |       |      | SB     |      |      |
| HCM Control Delay, s     | 0.1    |       |      | 0.3    |       |      | 22.9   |       |      | 32.9   |      |      |
| HCM LOS                  |        |       |      |        |       |      | C      |       |      | D      |      |      |
|                          |        |       |      |        |       |      |        |       |      |        |      |      |
| Minor Lane/Major Mvmt    | NBLn1  | EBL   | EBT  | EBR    | WBL   | WBT  | WBR    | SBLn1 |      |        |      |      |
| Capacity (veh/h)         | 248    | 805   | -    | -      | 1078  | -    | -      | 137   |      |        |      |      |
| HCM Lane V/C Ratio       | 0.193  | 0.006 | -    | -      | 0.027 | -    | -      | 0.057 |      |        |      |      |
| HCM Control Delay (s)    | 22.9   | 9.5   | 0    | -      | 8.4   | 0    | -      | 32.9  |      |        |      |      |
| HCM Lane LOS             | C      | A     | A    | -      | A     | A    | -      | D     |      |        |      |      |
| HCM 95th %tile Q(veh)    | 0.7    | 0     | -    | -      | 0.1   | -    | -      | 0.2   |      |        |      |      |

| Intersection             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Int Delay, s/veh         | 0.7                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Movement                 | EBL                                                                               | EBT                                                                               | WBT                                                                               | WBR                                                                               | SBL                                                                               | SBR                                                                               |
| Lane Configurations      |  |  |  |  |  |  |
| Traffic Vol, veh/h       | 6                                                                                 | 512                                                                               | 631                                                                               | 18                                                                                | 23                                                                                | 29                                                                                |
| Future Vol, veh/h        | 6                                                                                 | 512                                                                               | 631                                                                               | 18                                                                                | 23                                                                                | 29                                                                                |
| Conflicting Peds, #/hr   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Sign Control             | Free                                                                              | Free                                                                              | Free                                                                              | Free                                                                              | Stop                                                                              | Stop                                                                              |
| RT Channelized           | -                                                                                 | None                                                                              | -                                                                                 | Yield                                                                             | -                                                                                 | Yield                                                                             |
| Storage Length           | 155                                                                               | -                                                                                 | -                                                                                 | 175                                                                               | 0                                                                                 | -                                                                                 |
| Veh in Median Storage, # | -                                                                                 | 0                                                                                 | 0                                                                                 | -                                                                                 | 0                                                                                 | -                                                                                 |
| Grade, %                 | -                                                                                 | 0                                                                                 | 0                                                                                 | -                                                                                 | 0                                                                                 | -                                                                                 |
| Peak Hour Factor         | 86                                                                                | 86                                                                                | 86                                                                                | 86                                                                                | 86                                                                                | 86                                                                                |
| Heavy Vehicles, %        | 0                                                                                 | 7                                                                                 | 2                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Mvmt Flow                | 7                                                                                 | 595                                                                               | 734                                                                               | 21                                                                                | 27                                                                                | 34                                                                                |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Major/Minor              | Major1                                                                            | Major2                                                                            |                                                                                   | Minor2                                                                            |                                                                                   |                                                                                   |
| Conflicting Flow All     | 734                                                                               | 0                                                                                 | -                                                                                 | 0                                                                                 | 1343                                                                              | 734                                                                               |
| Stage 1                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 734                                                                               | -                                                                                 |
| Stage 2                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 609                                                                               | -                                                                                 |
| Critical Hdwy            | 4.1                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | 6.4                                                                               | 6.2                                                                               |
| Critical Hdwy Stg 1      | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 5.4                                                                               | -                                                                                 |
| Critical Hdwy Stg 2      | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 5.4                                                                               | -                                                                                 |
| Follow-up Hdwy           | 2.2                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | 3.5                                                                               | 3.3                                                                               |
| Pot Cap-1 Maneuver       | 880                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | 169                                                                               | 423                                                                               |
| Stage 1                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 478                                                                               | -                                                                                 |
| Stage 2                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 547                                                                               | -                                                                                 |
| Platoon blocked, %       |                                                                                   | -                                                                                 | -                                                                                 | -                                                                                 |                                                                                   |                                                                                   |
| Mov Cap-1 Maneuver       | 880                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | 168                                                                               | 423                                                                               |
| Mov Cap-2 Maneuver       | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 168                                                                               | -                                                                                 |
| Stage 1                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 474                                                                               | -                                                                                 |
| Stage 2                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 547                                                                               | -                                                                                 |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Approach                 | EB                                                                                | WB                                                                                |                                                                                   | SB                                                                                |                                                                                   |                                                                                   |
| HCM Control Delay, s     | 0.1                                                                               | 0                                                                                 |                                                                                   | 16.3                                                                              |                                                                                   |                                                                                   |
| HCM LOS                  | C                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minor Lane/Major Mvmt    | EBL                                                                               | EBT                                                                               | WBT                                                                               | WBR                                                                               | SBLn1                                                                             |                                                                                   |
| Capacity (veh/h)         | 880                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | 380                                                                               |                                                                                   |
| HCM Lane V/C Ratio       | 0.008                                                                             | -                                                                                 | -                                                                                 | -                                                                                 | 0.159                                                                             |                                                                                   |
| HCM Control Delay (s)    | 9.1                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | 16.3                                                                              |                                                                                   |
| HCM Lane LOS             | A                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | C                                                                                 |                                                                                   |
| HCM 95th %tile Q(veh)    | 0                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 0.6                                                                               |                                                                                   |

# Timings

## 5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)

2b. No-Build 2035 PM

02/20/2025

|                         |  |  |  |  |  |  |   |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Lane Group              | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 |
| Lane Configurations     |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph)    | 26                                                                                | 240                                                                               | 194                                                                               | 320                                                                               | 416                                                                               | 139                                                                               | 166                                                                                 | 274                                                                                 | 127                                                                                 | 97                                                                                  | 167                                                                                 |
| Future Volume (vph)     | 26                                                                                | 240                                                                               | 194                                                                               | 320                                                                               | 416                                                                               | 139                                                                               | 166                                                                                 | 274                                                                                 | 127                                                                                 | 97                                                                                  | 167                                                                                 |
| Lane Group Flow (vph)   | 28                                                                                | 261                                                                               | 211                                                                               | 348                                                                               | 452                                                                               | 151                                                                               | 180                                                                                 | 298                                                                                 | 138                                                                                 | 105                                                                                 | 194                                                                                 |
| Turn Type               | pm+pt                                                                             | NA                                                                                | Perm                                                                              | pm+pt                                                                             | NA                                                                                | Perm                                                                              | pm+pt                                                                               | NA                                                                                  | Perm                                                                                | pm+pt                                                                               | NA                                                                                  |
| Protected Phases        | 1                                                                                 | 6                                                                                 |                                                                                   | 5                                                                                 | 2                                                                                 |                                                                                   | 3                                                                                   | 8                                                                                   |                                                                                     | 7                                                                                   | 4                                                                                   |
| Permitted Phases        | 6                                                                                 |                                                                                   | 6                                                                                 | 2                                                                                 |                                                                                   | 2                                                                                 | 8                                                                                   |                                                                                     | 8                                                                                   | 4                                                                                   |                                                                                     |
| Detector Phase          | 1                                                                                 | 6                                                                                 | 6                                                                                 | 5                                                                                 | 2                                                                                 | 2                                                                                 | 3                                                                                   | 8                                                                                   | 8                                                                                   | 7                                                                                   | 4                                                                                   |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Minimum Initial (s)     | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                                 | 6.0                                                                                 | 6.0                                                                                 | 5.0                                                                                 | 6.0                                                                                 |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                                | 23.5                                                                                | 23.5                                                                                | 15.0                                                                                | 23.5                                                                                |
| Total Split (s)         | 15.0                                                                              | 42.0                                                                              | 42.0                                                                              | 26.0                                                                              | 53.0                                                                              | 53.0                                                                              | 15.0                                                                                | 37.0                                                                                | 37.0                                                                                | 15.0                                                                                | 37.0                                                                                |
| Total Split (%)         | 12.5%                                                                             | 35.0%                                                                             | 35.0%                                                                             | 21.7%                                                                             | 44.2%                                                                             | 44.2%                                                                             | 12.5%                                                                               | 30.8%                                                                               | 30.8%                                                                               | 12.5%                                                                               | 30.8%                                                                               |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 |
| Lead/Lag                | Lead                                                                              | Lag                                                                               | Lag                                                                               | Lead                                                                              | Lag                                                                               | Lag                                                                               | Lead                                                                                | Lag                                                                                 | Lag                                                                                 | Lead                                                                                | Lag                                                                                 |
| Lead-Lag Optimize?      | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 |
| Recall Mode             | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                                | None                                                                                | None                                                                                | None                                                                                | None                                                                                |
| v/c Ratio               | 0.06                                                                              | 0.36                                                                              | 0.28                                                                              | 0.55                                                                              | 0.46                                                                              | 0.17                                                                              | 0.56                                                                                | 0.79                                                                                | 0.31                                                                                | 0.47                                                                                | 0.52                                                                                |
| Control Delay           | 14.3                                                                              | 29.7                                                                              | 5.0                                                                               | 17.5                                                                              | 22.8                                                                              | 3.8                                                                               | 37.3                                                                                | 60.1                                                                                | 4.1                                                                                 | 35.1                                                                                | 46.4                                                                                |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Total Delay             | 14.3                                                                              | 29.7                                                                              | 5.0                                                                               | 17.5                                                                              | 22.8                                                                              | 3.8                                                                               | 37.3                                                                                | 60.1                                                                                | 4.1                                                                                 | 35.1                                                                                | 46.4                                                                                |
| Queue Length 50th (ft)  | 9                                                                                 | 143                                                                               | 0                                                                                 | 133                                                                               | 233                                                                               | 0                                                                                 | 104                                                                                 | 221                                                                                 | 0                                                                                   | 58                                                                                  | 133                                                                                 |
| Queue Length 95th (ft)  | 25                                                                                | 246                                                                               | 56                                                                                | 224                                                                               | 378                                                                               | 40                                                                                | 150                                                                                 | 300                                                                                 | 28                                                                                  | 93                                                                                  | 192                                                                                 |
| Internal Link Dist (ft) |                                                                                   | 2443                                                                              |                                                                                   |                                                                                   | 3462                                                                              |                                                                                   |                                                                                     | 2898                                                                                |                                                                                     |                                                                                     | 998                                                                                 |
| Turn Bay Length (ft)    | 300                                                                               |                                                                                   | 225                                                                               | 355                                                                               |                                                                                   | 225                                                                               | 190                                                                                 |                                                                                     | 200                                                                                 | 160                                                                                 |                                                                                     |
| Base Capacity (vph)     | 483                                                                               | 728                                                                               | 757                                                                               | 665                                                                               | 973                                                                               | 891                                                                               | 320                                                                                 | 493                                                                                 | 531                                                                                 | 229                                                                                 | 491                                                                                 |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Reduced v/c Ratio       | 0.06                                                                              | 0.36                                                                              | 0.28                                                                              | 0.52                                                                              | 0.46                                                                              | 0.17                                                                              | 0.56                                                                                | 0.60                                                                                | 0.26                                                                                | 0.46                                                                                | 0.40                                                                                |

### Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 120

Offset: 0 (0%), Referenced to phase 2:WBTL and 6:EBTL, Start of Green

Natural Cycle: 80

Control Type: Actuated-Coordinated

Splits and Phases: 5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)

|                                                                                     |                                                                                     |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |
| Ø1                                                                                  | Ø2 (R)                                                                              | Ø3                                                                                  | Ø4                                                                                    |
| 15 s                                                                                | 53 s                                                                                | 15 s                                                                                | 37 s                                                                                  |
|  |  |  |  |
| Ø5                                                                                  | Ø6 (R)                                                                              | Ø7                                                                                  | Ø8                                                                                    |
| 26 s                                                                                | 42 s                                                                                | 15 s                                                                                | 37 s                                                                                  |

HCM 6th Signalized Intersection Summary  
5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)

2b. No-Build 2035 PM

02/20/2025

|                              |  |  |  |  |  |  |   |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h)       | 26                                                                                | 240                                                                               | 194                                                                               | 320                                                                               | 416                                                                               | 139                                                                               | 166                                                                                 | 274                                                                                 | 127                                                                                 | 97                                                                                  | 167                                                                                 | 11                                                                                  |
| Future Volume (veh/h)        | 26                                                                                | 240                                                                               | 194                                                                               | 320                                                                               | 416                                                                               | 139                                                                               | 166                                                                                 | 274                                                                                 | 127                                                                                 | 97                                                                                  | 167                                                                                 | 11                                                                                  |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   | No                                                                                |                                                                                   |                                                                                   | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1826                                                                              | 1841                                                                              | 1870                                                                              | 1885                                                                              | 1870                                                                              | 1856                                                                              | 1900                                                                                | 1885                                                                                | 1826                                                                                | 1826                                                                                | 1885                                                                                | 1900                                                                                |
| Adj Flow Rate, veh/h         | 28                                                                                | 261                                                                               | 0                                                                                 | 348                                                                               | 452                                                                               | 0                                                                                 | 180                                                                                 | 298                                                                                 | 0                                                                                   | 105                                                                                 | 182                                                                                 | 0                                                                                   |
| Peak Hour Factor             | 0.92                                                                              | 0.92                                                                              | 0.92                                                                              | 0.92                                                                              | 0.92                                                                              | 0.92                                                                              | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                |
| Percent Heavy Veh, %         | 5                                                                                 | 4                                                                                 | 2                                                                                 | 1                                                                                 | 2                                                                                 | 3                                                                                 | 0                                                                                   | 1                                                                                   | 5                                                                                   | 5                                                                                   | 1                                                                                   | 0                                                                                   |
| Cap, veh/h                   | 473                                                                               | 832                                                                               |                                                                                   | 684                                                                               | 1023                                                                              |                                                                                   | 296                                                                                 | 339                                                                                 |                                                                                     | 199                                                                                 | 311                                                                                 |                                                                                     |
| Arrive On Green              | 0.03                                                                              | 0.45                                                                              | 0.00                                                                              | 0.12                                                                              | 0.55                                                                              | 0.00                                                                              | 0.08                                                                                | 0.18                                                                                | 0.00                                                                                | 0.06                                                                                | 0.17                                                                                | 0.00                                                                                |
| Sat Flow, veh/h              | 1739                                                                              | 1841                                                                              | 1585                                                                              | 1795                                                                              | 1870                                                                              | 1572                                                                              | 1810                                                                                | 1885                                                                                | 1547                                                                                | 1739                                                                                | 1885                                                                                | 0                                                                                   |
| Grp Volume(v), veh/h         | 28                                                                                | 261                                                                               | 0                                                                                 | 348                                                                               | 452                                                                               | 0                                                                                 | 180                                                                                 | 298                                                                                 | 0                                                                                   | 105                                                                                 | 182                                                                                 | 0                                                                                   |
| Grp Sat Flow(s),veh/h/ln     | 1739                                                                              | 1841                                                                              | 1585                                                                              | 1795                                                                              | 1870                                                                              | 1572                                                                              | 1810                                                                                | 1885                                                                                | 1547                                                                                | 1739                                                                                | 1885                                                                                | 0                                                                                   |
| Q Serve(g_s), s              | 1.0                                                                               | 10.9                                                                              | 0.0                                                                               | 11.9                                                                              | 17.3                                                                              | 0.0                                                                               | 9.5                                                                                 | 18.5                                                                                | 0.0                                                                                 | 5.9                                                                                 | 10.7                                                                                | 0.0                                                                                 |
| Cycle Q Clear(g_c), s        | 1.0                                                                               | 10.9                                                                              | 0.0                                                                               | 11.9                                                                              | 17.3                                                                              | 0.0                                                                               | 9.5                                                                                 | 18.5                                                                                | 0.0                                                                                 | 5.9                                                                                 | 10.7                                                                                | 0.0                                                                                 |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 0.00                                                                                |
| Lane Grp Cap(c), veh/h       | 473                                                                               | 832                                                                               |                                                                                   | 684                                                                               | 1023                                                                              |                                                                                   | 296                                                                                 | 339                                                                                 |                                                                                     | 199                                                                                 | 311                                                                                 |                                                                                     |
| V/C Ratio(X)                 | 0.06                                                                              | 0.31                                                                              |                                                                                   | 0.51                                                                              | 0.44                                                                              |                                                                                   | 0.61                                                                                | 0.88                                                                                |                                                                                     | 0.53                                                                                | 0.58                                                                                |                                                                                     |
| Avail Cap(c_a), veh/h        | 567                                                                               | 832                                                                               |                                                                                   | 774                                                                               | 1023                                                                              |                                                                                   | 296                                                                                 | 495                                                                                 |                                                                                     | 225                                                                                 | 495                                                                                 |                                                                                     |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(l)           | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 0.95                                                                                | 0.95                                                                                | 0.00                                                                                | 1.00                                                                                | 1.00                                                                                | 0.00                                                                                |
| Uniform Delay (d), s/veh     | 16.8                                                                              | 21.0                                                                              | 0.0                                                                               | 13.6                                                                              | 16.2                                                                              | 0.0                                                                               | 39.1                                                                                | 47.9                                                                                | 0.0                                                                                 | 39.2                                                                                | 46.3                                                                                | 0.0                                                                                 |
| Incr Delay (d2), s/veh       | 0.1                                                                               | 1.0                                                                               | 0.0                                                                               | 0.6                                                                               | 1.4                                                                               | 0.0                                                                               | 3.4                                                                                 | 11.4                                                                                | 0.0                                                                                 | 2.1                                                                                 | 1.7                                                                                 | 0.0                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 0.4                                                                               | 4.7                                                                               | 0.0                                                                               | 4.5                                                                               | 7.3                                                                               | 0.0                                                                               | 4.6                                                                                 | 9.5                                                                                 | 0.0                                                                                 | 2.6                                                                                 | 5.1                                                                                 | 0.0                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 16.9                                                                              | 22.0                                                                              | 0.0                                                                               | 14.2                                                                              | 17.6                                                                              | 0.0                                                                               | 42.5                                                                                | 59.3                                                                                | 0.0                                                                                 | 41.3                                                                                | 48.0                                                                                | 0.0                                                                                 |
| LnGrp LOS                    | B                                                                                 | C                                                                                 |                                                                                   | B                                                                                 | B                                                                                 |                                                                                   | D                                                                                   | E                                                                                   |                                                                                     | D                                                                                   | D                                                                                   |                                                                                     |
| Approach Vol, veh/h          | 289                                                                               |                                                                                   |                                                                                   | 800                                                                               |                                                                                   |                                                                                   | 478                                                                                 |                                                                                     |                                                                                     | 287                                                                                 |                                                                                     |                                                                                     |
| Approach Delay, s/veh        | 21.5                                                                              |                                                                                   |                                                                                   | 16.1                                                                              |                                                                                   |                                                                                   | 53.0                                                                                |                                                                                     |                                                                                     | 45.6                                                                                |                                                                                     |                                                                                     |
| Approach LOS                 | C                                                                                 |                                                                                   |                                                                                   | B                                                                                 |                                                                                   |                                                                                   | D                                                                                   |                                                                                     |                                                                                     | D                                                                                   |                                                                                     |                                                                                     |
| Timer - Assigned Phs         | 1                                                                                 | 2                                                                                 | 3                                                                                 | 4                                                                                 | 5                                                                                 | 6                                                                                 | 7                                                                                   | 8                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 8.5                                                                               | 71.1                                                                              | 15.0                                                                              | 25.3                                                                              | 19.9                                                                              | 59.7                                                                              | 13.2                                                                                | 27.1                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                                 | 5.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 9.5                                                                               | 47.5                                                                              | 9.5                                                                               | 31.5                                                                              | 20.5                                                                              | 36.5                                                                              | 9.5                                                                                 | 31.5                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 3.0                                                                               | 19.3                                                                              | 11.5                                                                              | 12.7                                                                              | 13.9                                                                              | 12.9                                                                              | 7.9                                                                                 | 20.5                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 0.0                                                                               | 5.4                                                                               | 0.0                                                                               | 0.8                                                                               | 0.6                                                                               | 2.6                                                                               | 0.0                                                                                 | 1.1                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th Ctrl Delay           | 31.0                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th LOS                  | C                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

Notes

Unsignalized Delay for [NBR, EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

| Intersection             |                                                                                   |      |        |                                                                                   |        |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|------|--------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|
| Int Delay, s/veh         | 9.7                                                                               |      |        |                                                                                   |        |                                                                                   |
| Movement                 | EBT                                                                               | EBR  | WBL    | WBT                                                                               | NBL    | NBR                                                                               |
| Lane Configurations      |  |      |        |  |        |  |
| Traffic Vol, veh/h       | 402                                                                               | 138  | 12     | 484                                                                               | 174    | 14                                                                                |
| Future Vol, veh/h        | 402                                                                               | 138  | 12     | 484                                                                               | 174    | 14                                                                                |
| Conflicting Peds, #/hr   | 0                                                                                 | 0    | 0      | 0                                                                                 | 0      | 0                                                                                 |
| Sign Control             | Free                                                                              | Free | Free   | Free                                                                              | Stop   | Stop                                                                              |
| RT Channelized           | -                                                                                 | None | -      | None                                                                              | -      | None                                                                              |
| Storage Length           | -                                                                                 | -    | -      | -                                                                                 | 0      | -                                                                                 |
| Veh in Median Storage, # | 0                                                                                 | -    | -      | 0                                                                                 | 0      | -                                                                                 |
| Grade, %                 | 0                                                                                 | -    | -      | 0                                                                                 | 0      | -                                                                                 |
| Peak Hour Factor         | 91                                                                                | 91   | 91     | 91                                                                                | 91     | 91                                                                                |
| Heavy Vehicles, %        | 9                                                                                 | 0    | 0      | 3                                                                                 | 0      | 0                                                                                 |
| Mvmt Flow                | 442                                                                               | 152  | 13     | 532                                                                               | 191    | 15                                                                                |
|                          |                                                                                   |      |        |                                                                                   |        |                                                                                   |
| Major/Minor              | Major1                                                                            |      | Major2 |                                                                                   | Minor1 |                                                                                   |
| Conflicting Flow All     | 0                                                                                 | 0    | 594    | 0                                                                                 | 1076   | 518                                                                               |
| Stage 1                  | -                                                                                 | -    | -      | -                                                                                 | 518    | -                                                                                 |
| Stage 2                  | -                                                                                 | -    | -      | -                                                                                 | 558    | -                                                                                 |
| Critical Hdwy            | -                                                                                 | -    | 4.1    | -                                                                                 | 6.4    | 6.2                                                                               |
| Critical Hdwy Stg 1      | -                                                                                 | -    | -      | -                                                                                 | 5.4    | -                                                                                 |
| Critical Hdwy Stg 2      | -                                                                                 | -    | -      | -                                                                                 | 5.4    | -                                                                                 |
| Follow-up Hdwy           | -                                                                                 | -    | 2.2    | -                                                                                 | 3.5    | 3.3                                                                               |
| Pot Cap-1 Maneuver       | -                                                                                 | -    | 992    | -                                                                                 | 245    | 562                                                                               |
| Stage 1                  | -                                                                                 | -    | -      | -                                                                                 | 602    | -                                                                                 |
| Stage 2                  | -                                                                                 | -    | -      | -                                                                                 | 577    | -                                                                                 |
| Platoon blocked, %       | -                                                                                 | -    |        | -                                                                                 |        |                                                                                   |
| Mov Cap-1 Maneuver       | -                                                                                 | -    | 992    | -                                                                                 | 240    | 562                                                                               |
| Mov Cap-2 Maneuver       | -                                                                                 | -    | -      | -                                                                                 | 240    | -                                                                                 |
| Stage 1                  | -                                                                                 | -    | -      | -                                                                                 | 602    | -                                                                                 |
| Stage 2                  | -                                                                                 | -    | -      | -                                                                                 | 566    | -                                                                                 |
|                          |                                                                                   |      |        |                                                                                   |        |                                                                                   |
|                          |                                                                                   |      |        |                                                                                   |        |                                                                                   |
| Approach                 | EB                                                                                |      | WB     |                                                                                   | NB     |                                                                                   |
| HCM Control Delay, s     | 0                                                                                 |      | 0.2    |                                                                                   | 62.6   |                                                                                   |
| HCM LOS                  |                                                                                   |      |        |                                                                                   | F      |                                                                                   |
|                          |                                                                                   |      |        |                                                                                   |        |                                                                                   |
|                          |                                                                                   |      |        |                                                                                   |        |                                                                                   |
| Minor Lane/Major Mvmt    | NBLn1                                                                             | EBT  | EBR    | WBL                                                                               | WBT    |                                                                                   |
| Capacity (veh/h)         | 251                                                                               | -    | -      | 992                                                                               | -      |                                                                                   |
| HCM Lane V/C Ratio       | 0.823                                                                             | -    | -      | 0.013                                                                             | -      |                                                                                   |
| HCM Control Delay (s)    | 62.6                                                                              | -    | -      | 8.7                                                                               | 0      |                                                                                   |
| HCM Lane LOS             | F                                                                                 | -    | -      | A                                                                                 | A      |                                                                                   |
| HCM 95th %tile Q(veh)    | 6.5                                                                               | -    | -      | 0                                                                                 | -      |                                                                                   |

# Timings 7: Post Rd & I-20 WB Ramps

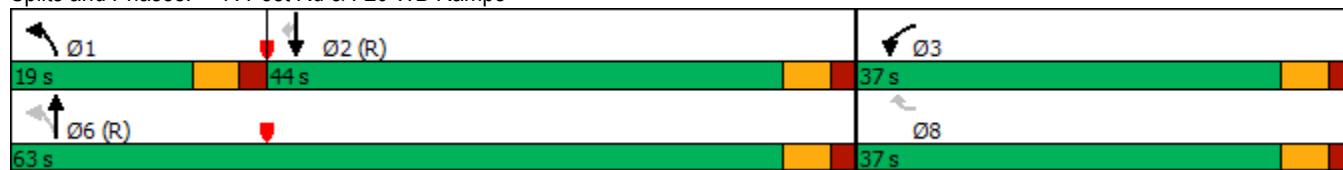
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|                         |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group              | WBL                                                                               | WBR                                                                               | NBL                                                                               | NBT                                                                               | SBT                                                                               | SBR                                                                               |
| Lane Configurations     |  |  |  |  |  |  |
| Traffic Volume (vph)    | 490                                                                               | 244                                                                               | 323                                                                               | 301                                                                               | 550                                                                               | 179                                                                               |
| Future Volume (vph)     | 490                                                                               | 244                                                                               | 323                                                                               | 301                                                                               | 550                                                                               | 179                                                                               |
| Lane Group Flow (vph)   | 505                                                                               | 252                                                                               | 333                                                                               | 310                                                                               | 567                                                                               | 185                                                                               |
| Turn Type               | Prot                                                                              | Perm                                                                              | pm+pt                                                                             | NA                                                                                | NA                                                                                | Perm                                                                              |
| Protected Phases        | 3                                                                                 |                                                                                   | 1                                                                                 | 6                                                                                 | 2                                                                                 |                                                                                   |
| Permitted Phases        |                                                                                   | 8                                                                                 | 6                                                                                 |                                                                                   |                                                                                   | 2                                                                                 |
| Detector Phase          | 3                                                                                 | 8                                                                                 | 1                                                                                 | 6                                                                                 | 2                                                                                 | 2                                                                                 |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minimum Initial (s)     | 5.0                                                                               | 6.0                                                                               | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 15.0                                                                              |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 23.5                                                                              |
| Total Split (s)         | 37.0                                                                              | 37.0                                                                              | 19.0                                                                              | 63.0                                                                              | 44.0                                                                              | 44.0                                                                              |
| Total Split (%)         | 37.0%                                                                             | 37.0%                                                                             | 19.0%                                                                             | 63.0%                                                                             | 44.0%                                                                             | 44.0%                                                                             |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               |
| Lead/Lag                |                                                                                   |                                                                                   | Lead                                                                              |                                                                                   | Lag                                                                               | Lag                                                                               |
| Lead-Lag Optimize?      |                                                                                   |                                                                                   | Yes                                                                               |                                                                                   | Yes                                                                               | Yes                                                                               |
| Recall Mode             | None                                                                              | None                                                                              | None                                                                              | C-Min                                                                             | C-Min                                                                             | C-Min                                                                             |
| v/c Ratio               | 0.92                                                                              | 0.38                                                                              | 0.85                                                                              | 0.29                                                                              | 0.76                                                                              | 0.25                                                                              |
| Control Delay           | 58.5                                                                              | 5.1                                                                               | 50.1                                                                              | 11.4                                                                              | 34.8                                                                              | 4.0                                                                               |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Delay             | 58.5                                                                              | 5.1                                                                               | 50.1                                                                              | 11.4                                                                              | 34.8                                                                              | 4.0                                                                               |
| Queue Length 50th (ft)  | 305                                                                               | 0                                                                                 | 158                                                                               | 75                                                                                | 313                                                                               | 0                                                                                 |
| Queue Length 95th (ft)  | #493                                                                              | 54                                                                                | #276                                                                              | 147                                                                               | 452                                                                               | 42                                                                                |
| Internal Link Dist (ft) |                                                                                   |                                                                                   |                                                                                   | 717                                                                               | 2898                                                                              |                                                                                   |
| Turn Bay Length (ft)    |                                                                                   | 400                                                                               | 210                                                                               |                                                                                   |                                                                                   | 345                                                                               |
| Base Capacity (vph)     | 568                                                                               | 676                                                                               | 391                                                                               | 1073                                                                              | 743                                                                               | 743                                                                               |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Reduced v/c Ratio       | 0.89                                                                              | 0.37                                                                              | 0.85                                                                              | 0.29                                                                              | 0.76                                                                              | 0.25                                                                              |

## Intersection Summary

Cycle Length: 100  
 Actuated Cycle Length: 100  
 Offset: 0 (0%), Referenced to phase 2:SBT and 6:NBTL, Start of Green  
 Natural Cycle: 90  
 Control Type: Actuated-Coordinated  
 # 95th percentile volume exceeds capacity, queue may be longer.  
 Queue shown is maximum after two cycles.

## Splits and Phases: 7: Post Rd & I-20 WB Ramps



# HCM 6th Signalized Intersection Summary

## 7: Post Rd & I-20 WB Ramps

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|                                                                                                               |  |      |     |                                                                                   |      |                                                                                     |                                                                                     |                                                                                     |      |      |                                                                                     |                                                                                     |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------|-----|-----------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                                                                                                      | EBL                                                                                | EBT  | EBR | WBL                                                                               | WBT  | WBR                                                                                 | NBL                                                                                 | NBT                                                                                 | NBR  | SBL  | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations                                                                                           |                                                                                    |      |     |  |      |  |  |  |      |      |  |  |
| Traffic Volume (veh/h)                                                                                        | 0                                                                                  | 0    | 0   | 490                                                                               | 0    | 244                                                                                 | 323                                                                                 | 301                                                                                 | 0    | 0    | 550                                                                                 | 179                                                                                 |
| Future Volume (veh/h)                                                                                         | 0                                                                                  | 0    | 0   | 490                                                                               | 0    | 244                                                                                 | 323                                                                                 | 301                                                                                 | 0    | 0    | 550                                                                                 | 179                                                                                 |
| Initial Q (Qb), veh                                                                                           |                                                                                    |      |     | 0                                                                                 | 0    | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0    | 0    | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)                                                                                           |                                                                                    |      |     | 1.00                                                                              |      | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00 | 1.00 |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj                                                                                              |                                                                                    |      |     | 1.00                                                                              | 1.00 | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00 | 1.00 | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach                                                                                         |                                                                                    |      |     | No                                                                                |      |                                                                                     | No                                                                                  |                                                                                     |      |      | No                                                                                  |                                                                                     |
| Adj Sat Flow, veh/h/ln                                                                                        |                                                                                    |      |     | 1900                                                                              | 0    | 1885                                                                                | 1885                                                                                | 1841                                                                                | 0    | 0    | 1885                                                                                | 1885                                                                                |
| Adj Flow Rate, veh/h                                                                                          |                                                                                    |      |     | 505                                                                               | 0    | 0                                                                                   | 333                                                                                 | 310                                                                                 | 0    | 0    | 567                                                                                 | 0                                                                                   |
| Peak Hour Factor                                                                                              |                                                                                    |      |     | 0.97                                                                              | 0.97 | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97 | 0.97 | 0.97                                                                                | 0.97                                                                                |
| Percent Heavy Veh, %                                                                                          |                                                                                    |      |     | 0                                                                                 | 0    | 1                                                                                   | 1                                                                                   | 4                                                                                   | 0    | 0    | 1                                                                                   | 1                                                                                   |
| Cap, veh/h                                                                                                    |                                                                                    |      |     | 537                                                                               | 0    |                                                                                     | 432                                                                                 | 1092                                                                                | 0    | 0    | 784                                                                                 |                                                                                     |
| Arrive On Green                                                                                               |                                                                                    |      |     | 0.30                                                                              | 0.00 | 0.00                                                                                | 0.12                                                                                | 0.59                                                                                | 0.00 | 0.00 | 0.42                                                                                | 0.00                                                                                |
| Sat Flow, veh/h                                                                                               |                                                                                    |      |     | 1810                                                                              | 0    | 1598                                                                                | 1795                                                                                | 1841                                                                                | 0    | 0    | 1885                                                                                | 1598                                                                                |
| Grp Volume(v), veh/h                                                                                          |                                                                                    |      |     | 505                                                                               | 0    | 0                                                                                   | 333                                                                                 | 310                                                                                 | 0    | 0    | 567                                                                                 | 0                                                                                   |
| Grp Sat Flow(s),veh/h/ln                                                                                      |                                                                                    |      |     | 1810                                                                              | 0    | 1598                                                                                | 1795                                                                                | 1841                                                                                | 0    | 0    | 1885                                                                                | 1598                                                                                |
| Q Serve(g_s), s                                                                                               |                                                                                    |      |     | 27.2                                                                              | 0.0  | 0.0                                                                                 | 10.1                                                                                | 8.2                                                                                 | 0.0  | 0.0  | 25.1                                                                                | 0.0                                                                                 |
| Cycle Q Clear(g_c), s                                                                                         |                                                                                    |      |     | 27.2                                                                              | 0.0  | 0.0                                                                                 | 10.1                                                                                | 8.2                                                                                 | 0.0  | 0.0  | 25.1                                                                                | 0.0                                                                                 |
| Prop In Lane                                                                                                  |                                                                                    |      |     | 1.00                                                                              |      | 1.00                                                                                | 1.00                                                                                |                                                                                     | 0.00 | 0.00 |                                                                                     | 1.00                                                                                |
| Lane Grp Cap(c), veh/h                                                                                        |                                                                                    |      |     | 537                                                                               | 0    |                                                                                     | 432                                                                                 | 1092                                                                                | 0    | 0    | 784                                                                                 |                                                                                     |
| V/C Ratio(X)                                                                                                  |                                                                                    |      |     | 0.94                                                                              | 0.00 |                                                                                     | 0.77                                                                                | 0.28                                                                                | 0.00 | 0.00 | 0.72                                                                                |                                                                                     |
| Avail Cap(c_a), veh/h                                                                                         |                                                                                    |      |     | 570                                                                               | 0    |                                                                                     | 455                                                                                 | 1092                                                                                | 0    | 0    | 784                                                                                 |                                                                                     |
| HCM Platoon Ratio                                                                                             |                                                                                    |      |     | 1.00                                                                              | 1.00 | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00 | 1.00 | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)                                                                                            |                                                                                    |      |     | 1.00                                                                              | 0.00 | 0.00                                                                                | 0.81                                                                                | 0.81                                                                                | 0.00 | 0.00 | 0.88                                                                                | 0.00                                                                                |
| Uniform Delay (d), s/veh                                                                                      |                                                                                    |      |     | 34.3                                                                              | 0.0  | 0.0                                                                                 | 18.0                                                                                | 9.9                                                                                 | 0.0  | 0.0  | 24.4                                                                                | 0.0                                                                                 |
| Incr Delay (d2), s/veh                                                                                        |                                                                                    |      |     | 23.3                                                                              | 0.0  | 0.0                                                                                 | 6.2                                                                                 | 0.5                                                                                 | 0.0  | 0.0  | 5.1                                                                                 | 0.0                                                                                 |
| Initial Q Delay(d3),s/veh                                                                                     |                                                                                    |      |     | 0.0                                                                               | 0.0  | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0  | 0.0  | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln                                                                                      |                                                                                    |      |     | 15.1                                                                              | 0.0  | 0.0                                                                                 | 4.3                                                                                 | 3.0                                                                                 | 0.0  | 0.0  | 11.4                                                                                | 0.0                                                                                 |
| Unsig. Movement Delay, s/veh                                                                                  |                                                                                    |      |     |                                                                                   |      |                                                                                     |                                                                                     |                                                                                     |      |      |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh                                                                                          |                                                                                    |      |     | 57.6                                                                              | 0.0  | 0.0                                                                                 | 24.3                                                                                | 10.5                                                                                | 0.0  | 0.0  | 29.4                                                                                | 0.0                                                                                 |
| LnGrp LOS                                                                                                     |                                                                                    |      |     | E                                                                                 | A    |                                                                                     | C                                                                                   | B                                                                                   | A    | A    | C                                                                                   |                                                                                     |
| Approach Vol, veh/h                                                                                           |                                                                                    |      |     |                                                                                   | 505  |                                                                                     |                                                                                     | 643                                                                                 |      |      | 567                                                                                 |                                                                                     |
| Approach Delay, s/veh                                                                                         |                                                                                    |      |     |                                                                                   | 57.6 |                                                                                     |                                                                                     | 17.6                                                                                |      |      | 29.4                                                                                |                                                                                     |
| Approach LOS                                                                                                  |                                                                                    |      |     |                                                                                   | E    |                                                                                     |                                                                                     | B                                                                                   |      |      | C                                                                                   |                                                                                     |
| Timer - Assigned Phs                                                                                          | 1                                                                                  | 2    |     |                                                                                   |      | 6                                                                                   |                                                                                     | 8                                                                                   |      |      |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s                                                                                      | 17.7                                                                               | 47.1 |     |                                                                                   |      | 64.8                                                                                |                                                                                     | 35.2                                                                                |      |      |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s                                                                                       | 5.5                                                                                | 5.5  |     |                                                                                   |      | 5.5                                                                                 |                                                                                     | 5.5                                                                                 |      |      |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s                                                                                   | 13.5                                                                               | 38.5 |     |                                                                                   |      | 57.5                                                                                |                                                                                     | 31.5                                                                                |      |      |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s                                                                                  | 12.1                                                                               | 27.1 |     |                                                                                   |      | 10.2                                                                                |                                                                                     | 29.2                                                                                |      |      |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s                                                                                       | 0.2                                                                                | 4.4  |     |                                                                                   |      | 3.8                                                                                 |                                                                                     | 0.5                                                                                 |      |      |                                                                                     |                                                                                     |
| <b>Intersection Summary</b>                                                                                   |                                                                                    |      |     |                                                                                   |      |                                                                                     |                                                                                     |                                                                                     |      |      |                                                                                     |                                                                                     |
| HCM 6th Ctrl Delay                                                                                            |                                                                                    |      |     | 33.3                                                                              |      |                                                                                     |                                                                                     |                                                                                     |      |      |                                                                                     |                                                                                     |
| HCM 6th LOS                                                                                                   |                                                                                    |      |     | C                                                                                 |      |                                                                                     |                                                                                     |                                                                                     |      |      |                                                                                     |                                                                                     |
| <b>Notes</b>                                                                                                  |                                                                                    |      |     |                                                                                   |      |                                                                                     |                                                                                     |                                                                                     |      |      |                                                                                     |                                                                                     |
| Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay. |                                                                                    |      |     |                                                                                   |      |                                                                                     |                                                                                     |                                                                                     |      |      |                                                                                     |                                                                                     |

# Timings 8: Post Rd & I-20 EB Ramps

2b. No-Build 2035 PM  
02/20/2025

|                         |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group              | EBL                                                                               | EBR                                                                               | NBT                                                                               | NBR                                                                               | SBL                                                                               | SBT                                                                               |
| Lane Configurations     |  |  |  |  |  |  |
| Traffic Volume (vph)    | 119                                                                               | 348                                                                               | 586                                                                               | 278                                                                               | 196                                                                               | 850                                                                               |
| Future Volume (vph)     | 119                                                                               | 348                                                                               | 586                                                                               | 278                                                                               | 196                                                                               | 850                                                                               |
| Lane Group Flow (vph)   | 127                                                                               | 370                                                                               | 623                                                                               | 296                                                                               | 209                                                                               | 904                                                                               |
| Turn Type               | Prot                                                                              | Perm                                                                              | NA                                                                                | Perm                                                                              | pm+pt                                                                             | NA                                                                                |
| Protected Phases        | 7                                                                                 |                                                                                   | 6                                                                                 |                                                                                   | 5                                                                                 | 2                                                                                 |
| Permitted Phases        |                                                                                   | 4                                                                                 |                                                                                   | 6                                                                                 | 2                                                                                 |                                                                                   |
| Detector Phase          | 7                                                                                 | 4                                                                                 | 6                                                                                 | 6                                                                                 | 5                                                                                 | 2                                                                                 |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minimum Initial (s)     | 5.0                                                                               | 6.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                               | 15.0                                                                              |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              |
| Total Split (s)         | 31.0                                                                              | 31.0                                                                              | 54.0                                                                              | 54.0                                                                              | 15.0                                                                              | 69.0                                                                              |
| Total Split (%)         | 31.0%                                                                             | 31.0%                                                                             | 54.0%                                                                             | 54.0%                                                                             | 15.0%                                                                             | 69.0%                                                                             |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               |
| Lead/Lag                |                                                                                   |                                                                                   | Lag                                                                               | Lag                                                                               | Lead                                                                              |                                                                                   |
| Lead-Lag Optimize?      |                                                                                   |                                                                                   | Yes                                                                               | Yes                                                                               | Yes                                                                               |                                                                                   |
| Recall Mode             | None                                                                              | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                              | C-Min                                                                             |
| v/c Ratio               | 0.42                                                                              | 0.86                                                                              | 0.59                                                                              | 0.29                                                                              | 0.45                                                                              | 0.67                                                                              |
| Control Delay           | 38.4                                                                              | 39.7                                                                              | 19.2                                                                              | 2.5                                                                               | 8.6                                                                               | 12.2                                                                              |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.1                                                                               |
| Total Delay             | 38.4                                                                              | 39.7                                                                              | 19.2                                                                              | 2.5                                                                               | 8.6                                                                               | 12.4                                                                              |
| Queue Length 50th (ft)  | 71                                                                                | 127                                                                               | 255                                                                               | 0                                                                                 | 53                                                                                | 303                                                                               |
| Queue Length 95th (ft)  | 117                                                                               | 223                                                                               | 423                                                                               | 42                                                                                | m85                                                                               | m368                                                                              |
| Internal Link Dist (ft) |                                                                                   |                                                                                   | 1742                                                                              |                                                                                   |                                                                                   | 717                                                                               |
| Turn Bay Length (ft)    |                                                                                   | 340                                                                               |                                                                                   | 390                                                                               | 275                                                                               |                                                                                   |
| Base Capacity (vph)     | 422                                                                               | 532                                                                               | 1054                                                                              | 1035                                                                              | 474                                                                               | 1340                                                                              |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 51                                                                                |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Reduced v/c Ratio       | 0.30                                                                              | 0.70                                                                              | 0.59                                                                              | 0.29                                                                              | 0.44                                                                              | 0.70                                                                              |

## Intersection Summary

Cycle Length: 100

Actuated Cycle Length: 100

Offset: 0 (0%), Referenced to phase 2:SBTL and 6:NBT, Start of Green

Natural Cycle: 70

Control Type: Actuated-Coordinated

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 8: Post Rd & I-20 EB Ramps



# HCM 6th Signalized Intersection Summary 8: Post Rd & I-20 EB Ramps

2b. No-Build 2035 PM  
02/20/2025

|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |                                                                                   |  |                                                                                   |                                                                                   |                                                                                   |                                                                                    |  |  |  |  |                                                                                     |
| Traffic Volume (veh/h)       | 119                                                                               | 0                                                                                 | 348                                                                               | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                  | 586                                                                                 | 278                                                                                 | 196                                                                                 | 850                                                                                 | 0                                                                                   |
| Future Volume (veh/h)        | 119                                                                               | 0                                                                                 | 348                                                                               | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                  | 586                                                                                 | 278                                                                                 | 196                                                                                 | 850                                                                                 | 0                                                                                   |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                               |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                               | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | No                                                                                 |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1767                                                                              | 0                                                                                 | 1885                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1885                                                                                | 1900                                                                                | 1870                                                                                | 1900                                                                                | 0                                                                                   |
| Adj Flow Rate, veh/h         | 127                                                                               | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 623                                                                                 | 0                                                                                   | 209                                                                                 | 904                                                                                 | 0                                                                                   |
| Peak Hour Factor             | 0.94                                                                              | 0.94                                                                              | 0.94                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.94                                                                               | 0.94                                                                                | 0.94                                                                                | 0.94                                                                                | 0.94                                                                                | 0.94                                                                                |
| Percent Heavy Veh, %         | 9                                                                                 | 0                                                                                 | 1                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1                                                                                   | 0                                                                                   | 2                                                                                   | 0                                                                                   | 0                                                                                   |
| Cap, veh/h                   | 158                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1291                                                                                |                                                                                     | 596                                                                                 | 1513                                                                                | 0                                                                                   |
| Arrive On Green              | 0.09                                                                              | 0.00                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                               | 0.68                                                                                | 0.00                                                                                | 0.11                                                                                | 1.00                                                                                | 0.00                                                                                |
| Sat Flow, veh/h              | 1682                                                                              | 0                                                                                 | 1598                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1885                                                                                | 1610                                                                                | 1781                                                                                | 1900                                                                                | 0                                                                                   |
| Grp Volume(v), veh/h         | 127                                                                               | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 623                                                                                 | 0                                                                                   | 209                                                                                 | 904                                                                                 | 0                                                                                   |
| Grp Sat Flow(s),veh/h/ln     | 1682                                                                              | 0                                                                                 | 1598                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1885                                                                                | 1610                                                                                | 1781                                                                                | 1900                                                                                | 0                                                                                   |
| Q Serve(g_s), s              | 7.4                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 15.6                                                                                | 0.0                                                                                 | 3.4                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Cycle Q Clear(g_c), s        | 7.4                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 15.6                                                                                | 0.0                                                                                 | 3.4                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                               |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 0.00                                                                                |
| Lane Grp Cap(c), veh/h       | 158                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1291                                                                                |                                                                                     | 596                                                                                 | 1513                                                                                | 0                                                                                   |
| V/C Ratio(X)                 | 0.80                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                               | 0.48                                                                                |                                                                                     | 0.35                                                                                | 0.60                                                                                | 0.00                                                                                |
| Avail Cap(c_a), veh/h        | 429                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1291                                                                                |                                                                                     | 665                                                                                 | 1513                                                                                | 0                                                                                   |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                               | 1.00                                                                                | 1.00                                                                                | 2.00                                                                                | 2.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 0.00                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                               | 1.00                                                                                | 0.00                                                                                | 0.43                                                                                | 0.43                                                                                | 0.00                                                                                |
| Uniform Delay (d), s/veh     | 44.4                                                                              | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 7.4                                                                                 | 0.0                                                                                 | 5.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Incr Delay (d2), s/veh       | 9.2                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 1.3                                                                                 | 0.0                                                                                 | 0.2                                                                                 | 0.8                                                                                 | 0.0                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 3.5                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 5.3                                                                                 | 0.0                                                                                 | 0.7                                                                                 | 0.3                                                                                 | 0.0                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 53.6                                                                              | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 8.7                                                                                 | 0.0                                                                                 | 5.1                                                                                 | 0.8                                                                                 | 0.0                                                                                 |
| LnGrp LOS                    | D                                                                                 | A                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | A                                                                                  | A                                                                                   |                                                                                     | A                                                                                   | A                                                                                   | A                                                                                   |
| Approach Vol, veh/h          | 127                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 623                                                                                |                                                                                     |                                                                                     | 1113                                                                                |                                                                                     |                                                                                     |
| Approach Delay, s/veh        | 53.6                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 8.7                                                                                |                                                                                     |                                                                                     | 1.6                                                                                 |                                                                                     |                                                                                     |
| Approach LOS                 | D                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | A                                                                                  |                                                                                     |                                                                                     | A                                                                                   |                                                                                     |                                                                                     |
| Timer - Assigned Phs         | 2                                                                                 |                                                                                   |                                                                                   | 4                                                                                 |                                                                                   |                                                                                   | 5                                                                                  |                                                                                     |                                                                                     | 6                                                                                   |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 85.1                                                                              |                                                                                   |                                                                                   | 14.9                                                                              |                                                                                   |                                                                                   | 11.1                                                                               |                                                                                     |                                                                                     | 74.0                                                                                |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 5.5                                                                               |                                                                                   |                                                                                   | 5.5                                                                               |                                                                                   |                                                                                   | 5.5                                                                                |                                                                                     |                                                                                     | 5.5                                                                                 |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 63.5                                                                              |                                                                                   |                                                                                   | 25.5                                                                              |                                                                                   |                                                                                   | 9.5                                                                                |                                                                                     |                                                                                     | 48.5                                                                                |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 2.0                                                                               |                                                                                   |                                                                                   | 9.4                                                                               |                                                                                   |                                                                                   | 5.4                                                                                |                                                                                     |                                                                                     | 17.6                                                                                |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 18.9                                                                              |                                                                                   |                                                                                   | 0.3                                                                               |                                                                                   |                                                                                   | 0.2                                                                                |                                                                                     |                                                                                     | 8.4                                                                                 |                                                                                     |                                                                                     |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th Ctrl Delay           | 7.5                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th LOS                  | A                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

Intersection: 3: S. Baggett Rd/N. Baggett Rd & SR 8/US 78 (Veterans Memorial Hwy)

| Movement              | EB   | WB  | NB   | SB  |
|-----------------------|------|-----|------|-----|
| Directions Served     | LTR  | LTR | LTR  | LTR |
| Maximum Queue (ft)    | 89   | 69  | 117  | 19  |
| Average Queue (ft)    | 18   | 32  | 29   | 3   |
| 95th Queue (ft)       | 63   | 56  | 72   | 13  |
| Link Distance (ft)    | 3487 | 31  | 1042 | 727 |
| Upstream Blk Time (%) |      | 4   |      |     |
| Queuing Penalty (veh) |      | 12  |      |     |
| Storage Bay Dist (ft) |      |     |      |     |
| Storage Blk Time (%)  |      |     |      |     |
| Queuing Penalty (veh) |      |     |      |     |

Zone Summary

Zone wide Queuing Penalty: 12

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Intersection: 3: S. Baggett Rd/N. Baggett Rd & SR 8/US 78 (Veterans Memorial Hwy)

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| Movement              | EB   | WB  | NB   | SB  |
|-----------------------|------|-----|------|-----|
| Directions Served     | LTR  | LTR | LTR  | LTR |
| Maximum Queue (ft)    | 116  | 48  | 51   | 20  |
| Average Queue (ft)    | 24   | 17  | 21   | 3   |
| 95th Queue (ft)       | 79   | 46  | 45   | 13  |
| Link Distance (ft)    | 3487 | 31  | 1042 | 727 |
| Upstream Blk Time (%) | 3    |     |      |     |
| Queuing Penalty (veh) | 22   |     |      |     |
| Storage Bay Dist (ft) |      |     |      |     |
| Storage Blk Time (%)  |      |     |      |     |
| Queuing Penalty (veh) |      |     |      |     |

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Zone Summary

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Zone wide Queuing Penalty: 22

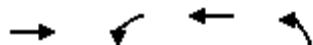
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## **Future “No-Build” Intersection Analysis with Improvements**

Timings  
6: John West Rd & SR 8/US 78 (Veterans Memorial Hwy)

2c. No-Build Improved 2035 AM

02/27/2025



| Lane Group              | EBT   | WBL   | WBT   | NBL   |
|-------------------------|-------|-------|-------|-------|
| Lane Configurations     | ↩     |       | ↩     | ↩     |
| Traffic Volume (vph)    | 596   | 7     | 257   | 78    |
| Future Volume (vph)     | 596   | 7     | 257   | 78    |
| Lane Group Flow (vph)   | 763   | 0     | 290   | 98    |
| Turn Type               | NA    | Perm  | NA    | Prot  |
| Protected Phases        | 4     |       | 8     | 2     |
| Permitted Phases        |       | 8     |       |       |
| Detector Phase          | 4     | 8     | 8     | 2     |
| Switch Phase            |       |       |       |       |
| Minimum Initial (s)     | 5.0   | 5.0   | 5.0   | 5.0   |
| Minimum Split (s)       | 23.5  | 23.5  | 23.5  | 23.5  |
| Total Split (s)         | 74.0  | 74.0  | 74.0  | 26.0  |
| Total Split (%)         | 74.0% | 74.0% | 74.0% | 26.0% |
| Yellow Time (s)         | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)    | 0.0   |       | 0.0   | 0.0   |
| Total Lost Time (s)     | 5.5   |       | 5.5   | 5.5   |
| Lead/Lag                |       |       |       |       |
| Lead-Lag Optimize?      |       |       |       |       |
| Recall Mode             | None  | None  | None  | Min   |
| v/c Ratio               | 0.77  |       | 0.32  | 0.29  |
| Control Delay           | 13.5  |       | 6.1   | 20.8  |
| Queue Delay             | 0.0   |       | 0.0   | 0.0   |
| Total Delay             | 13.5  |       | 6.1   | 20.8  |
| Queue Length 50th (ft)  | 118   |       | 32    | 20    |
| Queue Length 95th (ft)  | 264   |       | 74    | 70    |
| Internal Link Dist (ft) | 31    |       | 1982  | 873   |
| Turn Bay Length (ft)    |       |       |       |       |
| Base Capacity (vph)     | 1756  |       | 1637  | 858   |
| Starvation Cap Reductn  | 0     |       | 0     | 0     |
| Spillback Cap Reductn   | 0     |       | 0     | 0     |
| Storage Cap Reductn     | 0     |       | 0     | 0     |
| Reduced v/c Ratio       | 0.43  |       | 0.18  | 0.11  |

Intersection Summary

Cycle Length: 100

Actuated Cycle Length: 45.7

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

Splits and Phases: 6: John West Rd & SR 8/US 78 (Veterans Memorial Hwy)



HCM 6th Signalized Intersection Summary  
6: John West Rd & SR 8/US 78 (Veterans Memorial Hwy)

2c. No-Build Improved 2035 AM

02/27/2025

|                              | →    | ↘    | ↙    | ←    | ↖    | ↗    |
|------------------------------|------|------|------|------|------|------|
| Movement                     | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
| Lane Configurations          | ↘    |      |      | ↖    | ↗    |      |
| Traffic Volume (veh/h)       | 596  | 98   | 7    | 257  | 78   | 11   |
| Future Volume (veh/h)        | 596  | 98   | 7    | 257  | 78   | 11   |
| Initial Q (Qb), veh          | 0    | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)          |      | 1.00 | 1.00 |      | 1.00 | 1.00 |
| Parking Bus, Adj             | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach        | No   |      |      | No   | No   |      |
| Adj Sat Flow, veh/h/ln       | 1796 | 1885 | 1900 | 1693 | 1900 | 1900 |
| Adj Flow Rate, veh/h         | 655  | 108  | 8    | 282  | 86   | 12   |
| Peak Hour Factor             | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| Percent Heavy Veh, %         | 7    | 1    | 0    | 14   | 0    | 0    |
| Cap, veh/h                   | 842  | 139  | 108  | 931  | 213  | 30   |
| Arrive On Green              | 0.56 | 0.56 | 0.56 | 0.56 | 0.14 | 0.14 |
| Sat Flow, veh/h              | 1504 | 248  | 12   | 1662 | 1549 | 216  |
| Grp Volume(v), veh/h         | 0    | 763  | 290  | 0    | 99   | 0    |
| Grp Sat Flow(s),veh/h/ln     | 0    | 1752 | 1673 | 0    | 1784 | 0    |
| Q Serve(g_s), s              | 0.0  | 12.3 | 0.0  | 0.0  | 1.8  | 0.0  |
| Cycle Q Clear(g_c), s        | 0.0  | 12.3 | 3.3  | 0.0  | 1.8  | 0.0  |
| Prop In Lane                 |      | 0.14 | 0.03 |      | 0.87 | 0.12 |
| Lane Grp Cap(c), veh/h       | 0    | 981  | 1039 | 0    | 245  | 0    |
| V/C Ratio(X)                 | 0.00 | 0.78 | 0.28 | 0.00 | 0.40 | 0.00 |
| Avail Cap(c_a), veh/h        | 0    | 3299 | 3181 | 0    | 1005 | 0    |
| HCM Platoon Ratio            | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I)           | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh     | 0.0  | 6.2  | 4.2  | 0.0  | 14.3 | 0.0  |
| Incr Delay (d2), s/veh       | 0.0  | 1.4  | 0.1  | 0.0  | 1.1  | 0.0  |
| Initial Q Delay(d3),s/veh    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%),veh/ln     | 0.0  | 1.5  | 0.3  | 0.0  | 0.7  | 0.0  |
| Unsig. Movement Delay, s/veh |      |      |      |      |      |      |
| LnGrp Delay(d),s/veh         | 0.0  | 7.6  | 4.4  | 0.0  | 15.4 | 0.0  |
| LnGrp LOS                    | A    | A    | A    | A    | B    | A    |
| Approach Vol, veh/h          | 763  |      |      | 290  | 99   |      |
| Approach Delay, s/veh        | 7.6  |      |      | 4.4  | 15.4 |      |
| Approach LOS                 | A    |      |      | A    | B    |      |
| Timer - Assigned Phs         | 2    |      | 4    |      | 8    |      |
| Phs Duration (G+Y+Rc), s     | 10.5 |      | 25.9 |      | 25.9 |      |
| Change Period (Y+Rc), s      | 5.5  |      | 5.5  |      | 5.5  |      |
| Max Green Setting (Gmax), s  | 20.5 |      | 68.5 |      | 68.5 |      |
| Max Q Clear Time (g_c+I1), s | 3.8  |      | 14.3 |      | 5.3  |      |
| Green Ext Time (p_c), s      | 0.2  |      | 6.0  |      | 1.7  |      |
| Intersection Summary         |      |      |      |      |      |      |
| HCM 6th Ctrl Delay           |      |      | 7.5  |      |      |      |
| HCM 6th LOS                  |      |      | A    |      |      |      |
| Notes                        |      |      |      |      |      |      |

Timings  
6: John West Rd & SR 8/US 78 (Veterans Memorial Hwy)

2d. No-Build Improved 2035 PM

02/27/2025



| Lane Group              | EBT   | WBL   | WBT   | NBL   |
|-------------------------|-------|-------|-------|-------|
| Lane Configurations     | →     | ←     | →     | →     |
| Traffic Volume (vph)    | 402   | 12    | 484   | 174   |
| Future Volume (vph)     | 402   | 12    | 484   | 174   |
| Lane Group Flow (vph)   | 594   | 0     | 545   | 206   |
| Turn Type               | NA    | Perm  | NA    | Prot  |
| Protected Phases        | 4     |       | 8     | 2     |
| Permitted Phases        |       | 8     |       |       |
| Detector Phase          | 4     | 8     | 8     | 2     |
| Switch Phase            |       |       |       |       |
| Minimum Initial (s)     | 5.0   | 5.0   | 5.0   | 5.0   |
| Minimum Split (s)       | 23.5  | 23.5  | 23.5  | 23.5  |
| Total Split (s)         | 67.0  | 67.0  | 67.0  | 33.0  |
| Total Split (%)         | 67.0% | 67.0% | 67.0% | 33.0% |
| Yellow Time (s)         | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)    | 0.0   |       | 0.0   | 0.0   |
| Total Lost Time (s)     | 5.5   |       | 5.5   | 5.5   |
| Lead/Lag                |       |       |       |       |
| Lead-Lag Optimize?      |       |       |       |       |
| Recall Mode             | None  | None  | None  | Min   |
| v/c Ratio               | 0.70  |       | 0.62  | 0.45  |
| Control Delay           | 13.6  |       | 12.0  | 19.1  |
| Queue Delay             | 0.0   |       | 0.0   | 0.0   |
| Total Delay             | 13.6  |       | 12.0  | 19.1  |
| Queue Length 50th (ft)  | 91    |       | 85    | 41    |
| Queue Length 95th (ft)  | 219   |       | 195   | 118   |
| Internal Link Dist (ft) | 31    |       | 1982  | 873   |
| Turn Bay Length (ft)    |       |       |       |       |
| Base Capacity (vph)     | 1710  |       | 1806  | 1198  |
| Starvation Cap Reductn  | 0     |       | 0     | 0     |
| Spillback Cap Reductn   | 0     |       | 0     | 0     |
| Storage Cap Reductn     | 0     |       | 0     | 0     |
| Reduced v/c Ratio       | 0.35  |       | 0.30  | 0.17  |

Intersection Summary

Cycle Length: 100

Actuated Cycle Length: 44

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

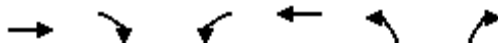
Splits and Phases: 6: John West Rd & SR 8/US 78 (Veterans Memorial Hwy)



HCM 6th Signalized Intersection Summary  
6: John West Rd & SR 8/US 78 (Veterans Memorial Hwy)

2d. No-Build Improved 2035 PM

02/27/2025



| Movement                     | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
|------------------------------|------|------|------|------|------|------|
| Lane Configurations          | →    | ↘    | ↙    | →    | ↙    | ↘    |
| Traffic Volume (veh/h)       | 402  | 138  | 12   | 484  | 174  | 14   |
| Future Volume (veh/h)        | 402  | 138  | 12   | 484  | 174  | 14   |
| Initial Q (Qb), veh          | 0    | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)          |      | 1.00 | 1.00 |      | 1.00 | 1.00 |
| Parking Bus, Adj             | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach        | No   |      |      | No   | No   |      |
| Adj Sat Flow, veh/h/ln       | 1767 | 1900 | 1900 | 1856 | 1900 | 1900 |
| Adj Flow Rate, veh/h         | 442  | 152  | 13   | 532  | 191  | 15   |
| Peak Hour Factor             | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| Percent Heavy Veh, %         | 9    | 0    | 0    | 3    | 0    | 0    |
| Cap, veh/h                   | 598  | 206  | 120  | 867  | 306  | 24   |
| Arrive On Green              | 0.48 | 0.48 | 0.48 | 0.48 | 0.19 | 0.19 |
| Sat Flow, veh/h              | 1257 | 432  | 14   | 1823 | 1655 | 130  |
| Grp Volume(v), veh/h         | 0    | 594  | 545  | 0    | 207  | 0    |
| Grp Sat Flow(s),veh/h/ln     | 0    | 1689 | 1838 | 0    | 1794 | 0    |
| Q Serve(g_s), s              | 0.0  | 9.2  | 0.0  | 0.0  | 3.4  | 0.0  |
| Cycle Q Clear(g_c), s        | 0.0  | 9.2  | 7.1  | 0.0  | 3.4  | 0.0  |
| Prop In Lane                 |      | 0.26 | 0.02 |      | 0.92 | 0.07 |
| Lane Grp Cap(c), veh/h       | 0    | 803  | 988  | 0    | 332  | 0    |
| V/C Ratio(X)                 | 0.00 | 0.74 | 0.55 | 0.00 | 0.62 | 0.00 |
| Avail Cap(c_a), veh/h        | 0    | 3205 | 3549 | 0    | 1522 | 0    |
| HCM Platoon Ratio            | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I)           | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh     | 0.0  | 6.9  | 6.3  | 0.0  | 12.2 | 0.0  |
| Incr Delay (d2), s/veh       | 0.0  | 1.4  | 0.5  | 0.0  | 1.9  | 0.0  |
| Initial Q Delay(d3),s/veh    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%),veh/ln     | 0.0  | 1.3  | 1.0  | 0.0  | 1.2  | 0.0  |
| Unsig. Movement Delay, s/veh |      |      |      |      |      |      |
| LnGrp Delay(d),s/veh         | 0.0  | 8.2  | 6.8  | 0.0  | 14.1 | 0.0  |
| LnGrp LOS                    | A    | A    | A    | A    | B    | A    |
| Approach Vol, veh/h          | 594  |      |      | 545  | 207  |      |
| Approach Delay, s/veh        | 8.2  |      |      | 6.8  | 14.1 |      |
| Approach LOS                 | A    |      |      | A    | B    |      |
| Timer - Assigned Phs         | 2    |      | 4    |      | 8    |      |
| Phs Duration (G+Y+Rc), s     | 11.5 |      | 20.9 |      | 20.9 |      |
| Change Period (Y+Rc), s      | 5.5  |      | 5.5  |      | 5.5  |      |
| Max Green Setting (Gmax), s  | 27.5 |      | 61.5 |      | 61.5 |      |
| Max Q Clear Time (g_c+I1), s | 5.4  |      | 11.2 |      | 9.1  |      |
| Green Ext Time (p_c), s      | 0.6  |      | 4.2  |      | 3.6  |      |

Intersection Summary

|                    |     |
|--------------------|-----|
| HCM 6th Ctrl Delay | 8.6 |
| HCM 6th LOS        | A   |

Notes

User approved volume balancing among the lanes for turning movement.

## **Future “Build” Intersections Analysis**

# Timings

1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)

3a. Build 2035 AM

02/20/2025

|                         | →     | ↘     | ↙     | ←     | ↖     | ↗     |
|-------------------------|-------|-------|-------|-------|-------|-------|
| Lane Group              | EBT   | EBR   | WBL   | WBT   | NBL   | NBR   |
| Lane Configurations     | ↑     | ↑     | ↘     | ↑     | ↘     | ↘     |
| Traffic Volume (vph)    | 794   | 121   | 228   | 660   | 72    | 176   |
| Future Volume (vph)     | 794   | 121   | 228   | 660   | 72    | 176   |
| Lane Group Flow (vph)   | 845   | 129   | 243   | 702   | 77    | 187   |
| Turn Type               | NA    | Perm  | pm+pt | NA    | Prot  | Perm  |
| Protected Phases        | 6     |       | 5     | 2     | 8     |       |
| Permitted Phases        |       | 6     | 2     |       |       | 8     |
| Detector Phase          | 6     | 6     | 5     | 2     | 8     | 8     |
| Switch Phase            |       |       |       |       |       |       |
| Minimum Initial (s)     | 15.0  | 15.0  | 5.0   | 15.0  | 6.0   | 6.0   |
| Minimum Split (s)       | 23.5  | 23.5  | 15.0  | 23.5  | 23.5  | 23.5  |
| Total Split (s)         | 77.0  | 77.0  | 19.0  | 96.0  | 24.0  | 24.0  |
| Total Split (%)         | 64.2% | 64.2% | 15.8% | 80.0% | 20.0% | 20.0% |
| Yellow Time (s)         | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)     | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| Lead/Lag                | Lag   | Lag   | Lead  |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   | Yes   |       |       |       |
| Recall Mode             | Min   | Min   | None  | Min   | None  | None  |
| v/c Ratio               | 0.87  | 0.16  | 0.62  | 0.52  | 0.46  | 0.54  |
| Control Delay           | 28.4  | 2.4   | 17.6  | 6.1   | 52.4  | 13.0  |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay             | 28.4  | 2.4   | 17.6  | 6.1   | 52.4  | 13.0  |
| Queue Length 50th (ft)  | 391   | 1     | 34    | 126   | 43    | 0     |
| Queue Length 95th (ft)  | 649   | 25    | 139   | 243   | 104   | 66    |
| Internal Link Dist (ft) | 295   |       |       | 1352  | 1634  |       |
| Turn Bay Length (ft)    |       |       | 350   |       |       | 285   |
| Base Capacity (vph)     | 1383  | 1121  | 410   | 1625  | 305   | 478   |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0     |
| Spillback Cap Reductn   | 0     | 0     | 0     | 0     | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     | 0     | 0     | 0     | 0     |
| Reduced v/c Ratio       | 0.61  | 0.12  | 0.59  | 0.43  | 0.25  | 0.39  |

## Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 92.2

Natural Cycle: 90

Control Type: Actuated-Uncoordinated

Splits and Phases: 1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)



HCM 6th Signalized Intersection Summary  
1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)

3a. Build 2035 AM  
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|                              | →    | ↘    | ↙    | ←    | ↖    | ↗    |
|------------------------------|------|------|------|------|------|------|
| Movement                     | EBT  | EBR  | WBL  | WBT  | NBL  | NBR  |
| Lane Configurations          | ↑    | ↑    | ↑    | ↑    | ↑    | ↑    |
| Traffic Volume (veh/h)       | 794  | 121  | 228  | 660  | 72   | 176  |
| Future Volume (veh/h)        | 794  | 121  | 228  | 660  | 72   | 176  |
| Initial Q (Qb), veh          | 0    | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)          |      | 1.00 | 1.00 |      | 1.00 | 1.00 |
| Parking Bus, Adj             | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach        | No   |      |      | No   | No   |      |
| Adj Sat Flow, veh/h/ln       | 1781 | 1663 | 1841 | 1796 | 1530 | 1856 |
| Adj Flow Rate, veh/h         | 845  | 0    | 243  | 702  | 77   | 0    |
| Peak Hour Factor             | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, %         | 8    | 16   | 4    | 7    | 25   | 3    |
| Cap, veh/h                   | 1085 |      | 411  | 1383 | 99   |      |
| Arrive On Green              | 0.61 | 0.00 | 0.08 | 0.77 | 0.07 | 0.00 |
| Sat Flow, veh/h              | 1781 | 1409 | 1753 | 1796 | 1457 | 1572 |
| Grp Volume(v), veh/h         | 845  | 0    | 243  | 702  | 77   | 0    |
| Grp Sat Flow(s),veh/h/ln     | 1781 | 1409 | 1753 | 1796 | 1457 | 1572 |
| Q Serve(g_s), s              | 23.9 | 0.0  | 3.1  | 10.0 | 3.5  | 0.0  |
| Cycle Q Clear(g_c), s        | 23.9 | 0.0  | 3.1  | 10.0 | 3.5  | 0.0  |
| Prop In Lane                 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h       | 1085 |      | 411  | 1383 | 99   |      |
| V/C Ratio(X)                 | 0.78 |      | 0.59 | 0.51 | 0.78 |      |
| Avail Cap(c_a), veh/h        | 1877 |      | 619  | 2396 | 397  |      |
| HCM Platoon Ratio            | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I)           | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 |
| Uniform Delay (d), s/veh     | 9.9  | 0.0  | 11.1 | 2.9  | 31.1 | 0.0  |
| Incr Delay (d2), s/veh       | 2.6  | 0.0  | 1.4  | 0.6  | 12.5 | 0.0  |
| Initial Q Delay(d3),s/veh    | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%),veh/ln     | 6.9  | 0.0  | 1.6  | 1.1  | 1.5  | 0.0  |
| Unsig. Movement Delay, s/veh |      |      |      |      |      |      |
| LnGrp Delay(d),s/veh         | 12.5 | 0.0  | 12.5 | 3.6  | 43.6 | 0.0  |
| LnGrp LOS                    | B    |      | B    | A    | D    |      |
| Approach Vol, veh/h          | 845  |      |      | 945  | 77   |      |
| Approach Delay, s/veh        | 12.5 |      |      | 5.8  | 43.6 |      |
| Approach LOS                 | B    |      |      | A    | D    |      |
| Timer - Assigned Phs         | 2    |      | 5    |      | 6    | 8    |
| Phs Duration (G+Y+Rc), s     | 57.8 |      | 10.9 |      | 46.8 | 10.1 |
| Change Period (Y+Rc), s      | 5.5  |      | 5.5  |      | 5.5  | 5.5  |
| Max Green Setting (Gmax), s  | 90.5 |      | 13.5 |      | 71.5 | 18.5 |
| Max Q Clear Time (g_c+I1), s | 12.0 |      | 5.1  |      | 25.9 | 5.5  |
| Green Ext Time (p_c), s      | 12.2 |      | 0.4  |      | 15.4 | 0.1  |

Intersection Summary

|                    |      |
|--------------------|------|
| HCM 6th Ctrl Delay | 10.4 |
| HCM 6th LOS        | B    |

Notes

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

**Intersection**

Int Delay, s/veh 0.2

| Movement                 | EBL  | EBT                                                                               | WBT                                                                               | WBR  | SBL                                                                               | SBR  |
|--------------------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|------|
| Lane Configurations      |      |  |  |      |  |      |
| Traffic Vol, veh/h       | 1    | 609                                                                               | 275                                                                               | 9    | 14                                                                                | 1    |
| Future Vol, veh/h        | 1    | 609                                                                               | 275                                                                               | 9    | 14                                                                                | 1    |
| Conflicting Peds, #/hr   | 0    | 0                                                                                 | 0                                                                                 | 0    | 0                                                                                 | 0    |
| Sign Control             | Free | Free                                                                              | Free                                                                              | Free | Stop                                                                              | Stop |
| RT Channelized           | -    | None                                                                              | -                                                                                 | None | -                                                                                 | None |
| Storage Length           | -    | -                                                                                 | -                                                                                 | -    | 0                                                                                 | -    |
| Veh in Median Storage, # | -    | 0                                                                                 | 0                                                                                 | -    | 0                                                                                 | -    |
| Grade, %                 | -    | 0                                                                                 | 0                                                                                 | -    | 0                                                                                 | -    |
| Peak Hour Factor         | 90   | 90                                                                                | 90                                                                                | 90   | 90                                                                                | 90   |
| Heavy Vehicles, %        | 0    | 8                                                                                 | 15                                                                                | 0    | 25                                                                                | 0    |
| Mvmt Flow                | 1    | 677                                                                               | 306                                                                               | 10   | 16                                                                                | 1    |

| Major/Minor          | Major1 | Major2 | Minor2       |
|----------------------|--------|--------|--------------|
| Conflicting Flow All | 316    | 0      | 0 652 311    |
| Stage 1              | -      | -      | - 311 -      |
| Stage 2              | -      | -      | - 341 -      |
| Critical Hdwy        | 4.1    | -      | - 6.975 6.2  |
| Critical Hdwy Stg 1  | -      | -      | - 5.775 -    |
| Critical Hdwy Stg 2  | -      | -      | - 6.175 -    |
| Follow-up Hdwy       | 2.2    | -      | - 3.7375 3.3 |
| Pot Cap-1 Maneuver   | 1256   | -      | - 375 734    |
| Stage 1              | -      | -      | - 684 -      |
| Stage 2              | -      | -      | - 637 -      |
| Platoon blocked, %   | -      | -      | -            |
| Mov Cap-1 Maneuver   | 1256   | -      | - 375 734    |
| Mov Cap-2 Maneuver   | -      | -      | - 375 -      |
| Stage 1              | -      | -      | - 683 -      |
| Stage 2              | -      | -      | - 637 -      |

| Approach             | EB | WB | SB   |
|----------------------|----|----|------|
| HCM Control Delay, s | 0  | 0  | 14.7 |
| HCM LOS              |    |    | B    |

| Minor Lane/Major Mvmt | EBL   | EBT | WBT | WBR | SBLn1 |
|-----------------------|-------|-----|-----|-----|-------|
| Capacity (veh/h)      | 1256  | -   | -   | -   | 388   |
| HCM Lane V/C Ratio    | 0.001 | -   | -   | -   | 0.043 |
| HCM Control Delay (s) | 7.9   | 0   | -   | -   | 14.7  |
| HCM Lane LOS          | A     | A   | -   | -   | B     |
| HCM 95th %tile Q(veh) | 0     | -   | -   | -   | 0.1   |

**Intersection**

Int Delay, s/veh 2.2

| Movement                 | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations      |      | ↕    |      | ↕    | ↕    |      |      | ↕    |      |      | ↕    |      |
| Traffic Vol, veh/h       | 13   | 466  | 4    | 26   | 781  | 27   | 12   | 1    | 29   | 23   | 1    | 10   |
| Future Vol, veh/h        | 13   | 466  | 4    | 26   | 781  | 27   | 12   | 1    | 29   | 23   | 1    | 10   |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized           | -    | -    | None | -    | -    | None | -    | -    | None | -    | -    | None |
| Storage Length           | -    | -    | -    | 150  | -    | -    | -    | -    | -    | -    | -    | -    |
| Veh in Median Storage, # | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Grade, %                 | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Peak Hour Factor         | 91   | 91   | 91   | 91   | 91   | 91   | 91   | 91   | 91   | 91   | 91   | 91   |
| Heavy Vehicles, %        | 0    | 4    | 0    | 0    | 2    | 0    | 0    | 0    | 4    | 0    | 0    | 0    |
| Mvmt Flow                | 14   | 512  | 4    | 29   | 858  | 30   | 13   | 1    | 32   | 25   | 1    | 11   |

| Major/Minor          | Major1 |   |   | Major2 |   |   | Minor1 |      |       | Minor2 |      |     |
|----------------------|--------|---|---|--------|---|---|--------|------|-------|--------|------|-----|
| Conflicting Flow All | 888    | 0 | 0 | 516    | 0 | 0 | 1479   | 1488 | 514   | 1490   | 1475 | 873 |
| Stage 1              | -      | - | - | -      | - | - | 542    | 542  | -     | 931    | 931  | -   |
| Stage 2              | -      | - | - | -      | - | - | 937    | 946  | -     | 559    | 544  | -   |
| Critical Hdwy        | 4.1    | - | - | 4.1    | - | - | 7.1    | 6.5  | 6.24  | 7.1    | 6.5  | 6.2 |
| Critical Hdwy Stg 1  | -      | - | - | -      | - | - | 6.1    | 5.5  | -     | 6.1    | 5.5  | -   |
| Critical Hdwy Stg 2  | -      | - | - | -      | - | - | 6.1    | 5.5  | -     | 6.1    | 5.5  | -   |
| Follow-up Hdwy       | 2.2    | - | - | 2.2    | - | - | 3.5    | 4    | 3.336 | 3.5    | 4    | 3.3 |
| Pot Cap-1 Maneuver   | 771    | - | - | 1060   | - | - | 105    | 125  | 557   | 103    | 128  | 352 |
| Stage 1              | -      | - | - | -      | - | - | 528    | 523  | -     | 323    | 348  | -   |
| Stage 2              | -      | - | - | -      | - | - | 320    | 343  | -     | 517    | 522  | -   |
| Platoon blocked, %   | -      | - | - | -      | - | - | -      | -    | -     | -      | -    | -   |
| Mov Cap-1 Maneuver   | 771    | - | - | 1060   | - | - | 97     | 119  | 557   | 93     | 121  | 352 |
| Mov Cap-2 Maneuver   | -      | - | - | -      | - | - | 97     | 119  | -     | 93     | 121  | -   |
| Stage 1              | -      | - | - | -      | - | - | 515    | 510  | -     | 315    | 339  | -   |
| Stage 2              | -      | - | - | -      | - | - | 301    | 334  | -     | 474    | 509  | -   |

| Approach             | EB  | WB  | NB   | SB |
|----------------------|-----|-----|------|----|
| HCM Control Delay, s | 0.3 | 0.3 | 24.8 | 48 |
| HCM LOS              |     |     | C    | E  |

| Minor Lane/Major Mvmt | NBLn1 | EBL   | EBT | EBR | WBL   | WBT | WBR | SBLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h)      | 228   | 771   | -   | -   | 1060  | -   | -   | 120   |
| HCM Lane V/C Ratio    | 0.202 | 0.019 | -   | -   | 0.027 | -   | -   | 0.311 |
| HCM Control Delay (s) | 24.8  | 9.8   | 0   | -   | 8.5   | -   | -   | 48    |
| HCM Lane LOS          | C     | A     | A   | -   | A     | -   | -   | E     |
| HCM 95th %tile Q(veh) | 0.7   | 0.1   | -   | -   | 0.1   | -   | -   | 1.2   |

| Intersection             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Int Delay, s/veh         | 1.7                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Movement                 | EBL                                                                               | EBT                                                                               | WBT                                                                               | WBR                                                                               | SBL                                                                               | SBR                                                                               |
| Lane Configurations      |  |  |  |  |  |  |
| Traffic Vol, veh/h       | 113                                                                               | 675                                                                               | 325                                                                               | 38                                                                                | 24                                                                                | 48                                                                                |
| Future Vol, veh/h        | 113                                                                               | 675                                                                               | 325                                                                               | 38                                                                                | 24                                                                                | 48                                                                                |
| Conflicting Peds, #/hr   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Sign Control             | Free                                                                              | Free                                                                              | Free                                                                              | Free                                                                              | Stop                                                                              | Stop                                                                              |
| RT Channelized           | -                                                                                 | None                                                                              | -                                                                                 | Yield                                                                             | -                                                                                 | Yield                                                                             |
| Storage Length           | 155                                                                               | -                                                                                 | -                                                                                 | 175                                                                               | 0                                                                                 | -                                                                                 |
| Veh in Median Storage, # | -                                                                                 | 0                                                                                 | 0                                                                                 | -                                                                                 | 0                                                                                 | -                                                                                 |
| Grade, %                 | -                                                                                 | 0                                                                                 | 0                                                                                 | -                                                                                 | 0                                                                                 | -                                                                                 |
| Peak Hour Factor         | 91                                                                                | 91                                                                                | 91                                                                                | 91                                                                                | 91                                                                                | 91                                                                                |
| Heavy Vehicles, %        | 2                                                                                 | 6                                                                                 | 10                                                                                | 5                                                                                 | 9                                                                                 | 33                                                                                |
| Mvmt Flow                | 124                                                                               | 742                                                                               | 357                                                                               | 42                                                                                | 26                                                                                | 53                                                                                |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Major/Minor              | Major1                                                                            | Major2                                                                            |                                                                                   | Minor2                                                                            |                                                                                   |                                                                                   |
| Conflicting Flow All     | 357                                                                               | 0                                                                                 | -                                                                                 | 0                                                                                 | 1347                                                                              | 357                                                                               |
| Stage 1                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 357                                                                               | -                                                                                 |
| Stage 2                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 990                                                                               | -                                                                                 |
| Critical Hdwy            | 4.12                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | 6.49                                                                              | 6.53                                                                              |
| Critical Hdwy Stg 1      | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 5.49                                                                              | -                                                                                 |
| Critical Hdwy Stg 2      | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 5.49                                                                              | -                                                                                 |
| Follow-up Hdwy           | 2.218                                                                             | -                                                                                 | -                                                                                 | -                                                                                 | 3.581                                                                             | 3.597                                                                             |
| Pot Cap-1 Maneuver       | 1202                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | 161                                                                               | 623                                                                               |
| Stage 1                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 693                                                                               | -                                                                                 |
| Stage 2                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 349                                                                               | -                                                                                 |
| Platoon blocked, %       |                                                                                   | -                                                                                 | -                                                                                 | -                                                                                 |                                                                                   |                                                                                   |
| Mov Cap-1 Maneuver       | 1202                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | 144                                                                               | 623                                                                               |
| Mov Cap-2 Maneuver       | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 144                                                                               | -                                                                                 |
| Stage 1                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 622                                                                               | -                                                                                 |
| Stage 2                  | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 349                                                                               | -                                                                                 |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Approach                 | EB                                                                                | WB                                                                                |                                                                                   | SB                                                                                |                                                                                   |                                                                                   |
| HCM Control Delay, s     | 1.2                                                                               | 0                                                                                 |                                                                                   | 15.2                                                                              |                                                                                   |                                                                                   |
| HCM LOS                  | C                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|                          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minor Lane/Major Mvmt    | EBL                                                                               | EBT                                                                               | WBT                                                                               | WBR                                                                               | SBLn1                                                                             |                                                                                   |
| Capacity (veh/h)         | 1202                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | 432                                                                               |                                                                                   |
| HCM Lane V/C Ratio       | 0.103                                                                             | -                                                                                 | -                                                                                 | -                                                                                 | 0.183                                                                             |                                                                                   |
| HCM Control Delay (s)    | 8.3                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | 15.2                                                                              |                                                                                   |
| HCM Lane LOS             | A                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | C                                                                                 |                                                                                   |
| HCM 95th %tile Q(veh)    | 0.3                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | 0.7                                                                               |                                                                                   |

# Timings

3a. Build 2035 AM

## 5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)

02/20/2025

|                         |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Lane Group              | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 |
| Lane Configurations     |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph)    | 4                                                                                 | 357                                                                               | 226                                                                               | 142                                                                               | 160                                                                               | 88                                                                                | 122                                                                                 | 145                                                                                 | 334                                                                                 | 166                                                                                 | 271                                                                                 |
| Future Volume (vph)     | 4                                                                                 | 357                                                                               | 226                                                                               | 142                                                                               | 160                                                                               | 88                                                                                | 122                                                                                 | 145                                                                                 | 334                                                                                 | 166                                                                                 | 271                                                                                 |
| Lane Group Flow (vph)   | 4                                                                                 | 368                                                                               | 233                                                                               | 146                                                                               | 165                                                                               | 91                                                                                | 126                                                                                 | 149                                                                                 | 344                                                                                 | 171                                                                                 | 295                                                                                 |
| Turn Type               | pm+pt                                                                             | NA                                                                                | Perm                                                                              | pm+pt                                                                             | NA                                                                                | Perm                                                                              | pm+pt                                                                               | NA                                                                                  | Perm                                                                                | pm+pt                                                                               | NA                                                                                  |
| Protected Phases        | 1                                                                                 | 6                                                                                 |                                                                                   | 5                                                                                 | 2                                                                                 |                                                                                   | 3                                                                                   | 8                                                                                   |                                                                                     | 7                                                                                   | 4                                                                                   |
| Permitted Phases        | 6                                                                                 |                                                                                   | 6                                                                                 | 2                                                                                 |                                                                                   | 2                                                                                 | 8                                                                                   |                                                                                     | 8                                                                                   | 4                                                                                   |                                                                                     |
| Detector Phase          | 1                                                                                 | 6                                                                                 | 6                                                                                 | 5                                                                                 | 2                                                                                 | 2                                                                                 | 3                                                                                   | 8                                                                                   | 8                                                                                   | 7                                                                                   | 4                                                                                   |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Minimum Initial (s)     | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                                 | 6.0                                                                                 | 6.0                                                                                 | 5.0                                                                                 | 6.0                                                                                 |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                                | 23.5                                                                                | 23.5                                                                                | 15.0                                                                                | 23.5                                                                                |
| Total Split (s)         | 15.0                                                                              | 52.0                                                                              | 52.0                                                                              | 15.0                                                                              | 52.0                                                                              | 52.0                                                                              | 15.0                                                                                | 38.0                                                                                | 38.0                                                                                | 15.0                                                                                | 38.0                                                                                |
| Total Split (%)         | 12.5%                                                                             | 43.3%                                                                             | 43.3%                                                                             | 12.5%                                                                             | 43.3%                                                                             | 43.3%                                                                             | 12.5%                                                                               | 31.7%                                                                               | 31.7%                                                                               | 12.5%                                                                               | 31.7%                                                                               |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 |
| Lead/Lag                | Lead                                                                              | Lag                                                                               | Lag                                                                               | Lead                                                                              | Lag                                                                               | Lag                                                                               | Lead                                                                                | Lag                                                                                 | Lag                                                                                 | Lead                                                                                | Lag                                                                                 |
| Lead-Lag Optimize?      | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 |
| Recall Mode             | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                                | None                                                                                | None                                                                                | None                                                                                | None                                                                                |
| v/c Ratio               | 0.01                                                                              | 0.45                                                                              | 0.27                                                                              | 0.30                                                                              | 0.17                                                                              | 0.09                                                                              | 0.53                                                                                | 0.39                                                                                | 0.58                                                                                | 0.47                                                                                | 0.79                                                                                |
| Control Delay           | 13.5                                                                              | 26.3                                                                              | 3.9                                                                               | 14.5                                                                              | 15.7                                                                              | 1.8                                                                               | 36.3                                                                                | 43.3                                                                                | 8.0                                                                                 | 33.9                                                                                | 59.8                                                                                |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Total Delay             | 13.5                                                                              | 26.3                                                                              | 3.9                                                                               | 14.5                                                                              | 15.7                                                                              | 1.8                                                                               | 36.3                                                                                | 43.3                                                                                | 8.0                                                                                 | 33.9                                                                                | 59.8                                                                                |
| Queue Length 50th (ft)  | 1                                                                                 | 194                                                                               | 0                                                                                 | 49                                                                                | 57                                                                                | 0                                                                                 | 70                                                                                  | 101                                                                                 | 0                                                                                   | 98                                                                                  | 217                                                                                 |
| Queue Length 95th (ft)  | 7                                                                                 | 315                                                                               | 51                                                                                | 96                                                                                | 132                                                                               | 16                                                                                | 107                                                                                 | 152                                                                                 | 73                                                                                  | 141                                                                                 | 295                                                                                 |
| Internal Link Dist (ft) |                                                                                   | 2443                                                                              |                                                                                   |                                                                                   | 3462                                                                              |                                                                                   |                                                                                     | 2898                                                                                |                                                                                     |                                                                                     | 998                                                                                 |
| Turn Bay Length (ft)    | 300                                                                               |                                                                                   | 225                                                                               | 355                                                                               |                                                                                   | 225                                                                               | 190                                                                                 |                                                                                     | 200                                                                                 | 160                                                                                 |                                                                                     |
| Base Capacity (vph)     | 709                                                                               | 811                                                                               | 850                                                                               | 496                                                                               | 946                                                                               | 962                                                                               | 243                                                                                 | 509                                                                                 | 675                                                                                 | 363                                                                                 | 496                                                                                 |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Reduced v/c Ratio       | 0.01                                                                              | 0.45                                                                              | 0.27                                                                              | 0.29                                                                              | 0.17                                                                              | 0.09                                                                              | 0.52                                                                                | 0.29                                                                                | 0.51                                                                                | 0.47                                                                                | 0.59                                                                                |

### Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 120

Offset: 0 (0%), Referenced to phase 2:WBTL and 6:EBTL, Start of Green

Natural Cycle: 80

Control Type: Actuated-Coordinated

Splits and Phases: 5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| Ø1                                                                                  | Ø2 (R)                                                                              |                                                                                     | Ø3                                                                                  | Ø4                                                                                    |                                                                                       |
| 15 s                                                                                | 52 s                                                                                |                                                                                     | 15 s                                                                                | 38 s                                                                                  |                                                                                       |
|  |  |  |  |  |  |
| Ø5                                                                                  | Ø6 (R)                                                                              |                                                                                     | Ø7                                                                                  | Ø8                                                                                    |                                                                                       |
| 15 s                                                                                | 52 s                                                                                |                                                                                     | 15 s                                                                                | 38 s                                                                                  |                                                                                       |

HCM 6th Signalized Intersection Summary  
5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)

3a. Build 2035 AM  
02/20/2025

|                              |  |  |  |  |  |  |   |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h)       | 4                                                                                 | 357                                                                               | 226                                                                               | 142                                                                               | 160                                                                               | 88                                                                                | 122                                                                                 | 145                                                                                 | 334                                                                                 | 166                                                                                 | 271                                                                                 | 16                                                                                  |
| Future Volume (veh/h)        | 4                                                                                 | 357                                                                               | 226                                                                               | 142                                                                               | 160                                                                               | 88                                                                                | 122                                                                                 | 145                                                                                 | 334                                                                                 | 166                                                                                 | 271                                                                                 | 16                                                                                  |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   | No                                                                                |                                                                                   |                                                                                   | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1900                                                                              | 1796                                                                              | 1870                                                                              | 1826                                                                              | 1707                                                                              | 1900                                                                              | 1885                                                                                | 1885                                                                                | 1856                                                                                | 1900                                                                                | 1870                                                                                | 1559                                                                                |
| Adj Flow Rate, veh/h         | 4                                                                                 | 368                                                                               | 0                                                                                 | 146                                                                               | 165                                                                               | 0                                                                                 | 126                                                                                 | 149                                                                                 | 0                                                                                   | 171                                                                                 | 279                                                                                 | 0                                                                                   |
| Peak Hour Factor             | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                |
| Percent Heavy Veh, %         | 0                                                                                 | 7                                                                                 | 2                                                                                 | 5                                                                                 | 13                                                                                | 0                                                                                 | 1                                                                                   | 1                                                                                   | 3                                                                                   | 0                                                                                   | 2                                                                                   | 23                                                                                  |
| Cap, veh/h                   | 710                                                                               | 928                                                                               |                                                                                   | 544                                                                               | 967                                                                               |                                                                                   | 221                                                                                 | 313                                                                                 |                                                                                     | 322                                                                                 | 322                                                                                 |                                                                                     |
| Arrive On Green              | 0.01                                                                              | 0.52                                                                              | 0.00                                                                              | 0.05                                                                              | 0.57                                                                              | 0.00                                                                              | 0.07                                                                                | 0.17                                                                                | 0.00                                                                                | 0.08                                                                                | 0.17                                                                                | 0.00                                                                                |
| Sat Flow, veh/h              | 1810                                                                              | 1796                                                                              | 1585                                                                              | 1739                                                                              | 1707                                                                              | 1610                                                                              | 1795                                                                                | 1885                                                                                | 1572                                                                                | 1810                                                                                | 1870                                                                                | 0                                                                                   |
| Grp Volume(v), veh/h         | 4                                                                                 | 368                                                                               | 0                                                                                 | 146                                                                               | 165                                                                               | 0                                                                                 | 126                                                                                 | 149                                                                                 | 0                                                                                   | 171                                                                                 | 279                                                                                 | 0                                                                                   |
| Grp Sat Flow(s),veh/h/ln     | 1810                                                                              | 1796                                                                              | 1585                                                                              | 1739                                                                              | 1707                                                                              | 1610                                                                              | 1795                                                                                | 1885                                                                                | 1572                                                                                | 1810                                                                                | 1870                                                                                | 0                                                                                   |
| Q Serve(g_s), s              | 0.1                                                                               | 14.9                                                                              | 0.0                                                                               | 4.5                                                                               | 5.6                                                                               | 0.0                                                                               | 6.9                                                                                 | 8.6                                                                                 | 0.0                                                                                 | 9.5                                                                                 | 17.4                                                                                | 0.0                                                                                 |
| Cycle Q Clear(g_c), s        | 0.1                                                                               | 14.9                                                                              | 0.0                                                                               | 4.5                                                                               | 5.6                                                                               | 0.0                                                                               | 6.9                                                                                 | 8.6                                                                                 | 0.0                                                                                 | 9.5                                                                                 | 17.4                                                                                | 0.0                                                                                 |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 0.00                                                                                |
| Lane Grp Cap(c), veh/h       | 710                                                                               | 928                                                                               |                                                                                   | 544                                                                               | 967                                                                               |                                                                                   | 221                                                                                 | 313                                                                                 |                                                                                     | 322                                                                                 | 322                                                                                 |                                                                                     |
| V/C Ratio(X)                 | 0.01                                                                              | 0.40                                                                              |                                                                                   | 0.27                                                                              | 0.17                                                                              |                                                                                   | 0.57                                                                                | 0.48                                                                                |                                                                                     | 0.53                                                                                | 0.87                                                                                |                                                                                     |
| Avail Cap(c_a), veh/h        | 844                                                                               | 928                                                                               |                                                                                   | 586                                                                               | 967                                                                               |                                                                                   | 232                                                                                 | 511                                                                                 |                                                                                     | 322                                                                                 | 507                                                                                 |                                                                                     |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(l)           | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 0.93                                                                                | 0.93                                                                                | 0.00                                                                                | 1.00                                                                                | 1.00                                                                                | 0.00                                                                                |
| Uniform Delay (d), s/veh     | 13.7                                                                              | 17.6                                                                              | 0.0                                                                               | 12.5                                                                              | 12.5                                                                              | 0.0                                                                               | 38.7                                                                                | 45.3                                                                                | 0.0                                                                                 | 38.1                                                                                | 48.3                                                                                | 0.0                                                                                 |
| Incr Delay (d2), s/veh       | 0.0                                                                               | 1.3                                                                               | 0.0                                                                               | 0.3                                                                               | 0.4                                                                               | 0.0                                                                               | 2.8                                                                                 | 1.0                                                                                 | 0.0                                                                                 | 1.7                                                                                 | 9.4                                                                                 | 0.0                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 0.0                                                                               | 6.1                                                                               | 0.0                                                                               | 1.7                                                                               | 2.1                                                                               | 0.0                                                                               | 3.1                                                                                 | 4.0                                                                                 | 0.0                                                                                 | 4.3                                                                                 | 8.9                                                                                 | 0.0                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 13.7                                                                              | 18.9                                                                              | 0.0                                                                               | 12.8                                                                              | 12.9                                                                              | 0.0                                                                               | 41.5                                                                                | 46.4                                                                                | 0.0                                                                                 | 39.8                                                                                | 57.7                                                                                | 0.0                                                                                 |
| LnGrp LOS                    | B                                                                                 | B                                                                                 |                                                                                   | B                                                                                 | B                                                                                 |                                                                                   | D                                                                                   | D                                                                                   |                                                                                     | D                                                                                   | E                                                                                   |                                                                                     |
| Approach Vol, veh/h          | 372                                                                               |                                                                                   |                                                                                   | 311                                                                               |                                                                                   |                                                                                   | 275                                                                                 |                                                                                     |                                                                                     | 450                                                                                 |                                                                                     |                                                                                     |
| Approach Delay, s/veh        | 18.8                                                                              |                                                                                   |                                                                                   | 12.8                                                                              |                                                                                   |                                                                                   | 44.1                                                                                |                                                                                     |                                                                                     | 50.9                                                                                |                                                                                     |                                                                                     |
| Approach LOS                 | B                                                                                 |                                                                                   |                                                                                   | B                                                                                 |                                                                                   |                                                                                   | D                                                                                   |                                                                                     |                                                                                     | D                                                                                   |                                                                                     |                                                                                     |
| Timer - Assigned Phs         | 1                                                                                 | 2                                                                                 | 3                                                                                 | 4                                                                                 | 5                                                                                 | 6                                                                                 | 7                                                                                   | 8                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 6.1                                                                               | 73.5                                                                              | 14.3                                                                              | 26.1                                                                              | 12.1                                                                              | 67.5                                                                              | 15.0                                                                                | 25.4                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                                 | 5.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 9.5                                                                               | 46.5                                                                              | 9.5                                                                               | 32.5                                                                              | 9.5                                                                               | 46.5                                                                              | 9.5                                                                                 | 32.5                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 2.1                                                                               | 7.6                                                                               | 8.9                                                                               | 19.4                                                                              | 6.5                                                                               | 16.9                                                                              | 11.5                                                                                | 10.6                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 0.0                                                                               | 1.8                                                                               | 0.0                                                                               | 1.2                                                                               | 0.1                                                                               | 4.2                                                                               | 0.0                                                                                 | 0.6                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

Intersection Summary

|                    |      |
|--------------------|------|
| HCM 6th Ctrl Delay | 32.7 |
| HCM 6th LOS        | C    |

Notes

Unsignalized Delay for [NBR, EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

| Intersection             |                                                                                   |      |        |                                                                                   |                                                                                   |      |
|--------------------------|-----------------------------------------------------------------------------------|------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| Int Delay, s/veh         | 2.6                                                                               |      |        |                                                                                   |                                                                                   |      |
| Movement                 | EBT                                                                               | EBR  | WBL    | WBT                                                                               | NBL                                                                               | NBR  |
| Lane Configurations      |  |      |        |  |  |      |
| Traffic Vol, veh/h       | 619                                                                               | 106  | 7      | 285                                                                               | 87                                                                                | 11   |
| Future Vol, veh/h        | 619                                                                               | 106  | 7      | 285                                                                               | 87                                                                                | 11   |
| Conflicting Peds, #/hr   | 0                                                                                 | 0    | 0      | 0                                                                                 | 0                                                                                 | 0    |
| Sign Control             | Free                                                                              | Free | Free   | Free                                                                              | Stop                                                                              | Stop |
| RT Channelized           | -                                                                                 | None | -      | None                                                                              | -                                                                                 | None |
| Storage Length           | -                                                                                 | -    | -      | -                                                                                 | 0                                                                                 | -    |
| Veh in Median Storage, # | 0                                                                                 | -    | -      | 0                                                                                 | 0                                                                                 | -    |
| Grade, %                 | 0                                                                                 | -    | -      | 0                                                                                 | 0                                                                                 | -    |
| Peak Hour Factor         | 91                                                                                | 91   | 91     | 91                                                                                | 91                                                                                | 91   |
| Heavy Vehicles, %        | 7                                                                                 | 1    | 0      | 14                                                                                | 0                                                                                 | 0    |
| Mvmt Flow                | 680                                                                               | 116  | 8      | 313                                                                               | 96                                                                                | 12   |
|                          |                                                                                   |      |        |                                                                                   |                                                                                   |      |
| Major/Minor              | Major1                                                                            |      | Major2 |                                                                                   | Minor1                                                                            |      |
| Conflicting Flow All     | 0                                                                                 | 0    | 796    | 0                                                                                 | 1067                                                                              | 738  |
| Stage 1                  | -                                                                                 | -    | -      | -                                                                                 | 738                                                                               | -    |
| Stage 2                  | -                                                                                 | -    | -      | -                                                                                 | 329                                                                               | -    |
| Critical Hdwy            | -                                                                                 | -    | 4.1    | -                                                                                 | 6.4                                                                               | 6.2  |
| Critical Hdwy Stg 1      | -                                                                                 | -    | -      | -                                                                                 | 5.4                                                                               | -    |
| Critical Hdwy Stg 2      | -                                                                                 | -    | -      | -                                                                                 | 5.4                                                                               | -    |
| Follow-up Hdwy           | -                                                                                 | -    | 2.2    | -                                                                                 | 3.5                                                                               | 3.3  |
| Pot Cap-1 Maneuver       | -                                                                                 | -    | 835    | -                                                                                 | 248                                                                               | 421  |
| Stage 1                  | -                                                                                 | -    | -      | -                                                                                 | 476                                                                               | -    |
| Stage 2                  | -                                                                                 | -    | -      | -                                                                                 | 734                                                                               | -    |
| Platoon blocked, %       | -                                                                                 | -    |        | -                                                                                 |                                                                                   |      |
| Mov Cap-1 Maneuver       | -                                                                                 | -    | 835    | -                                                                                 | 245                                                                               | 421  |
| Mov Cap-2 Maneuver       | -                                                                                 | -    | -      | -                                                                                 | 245                                                                               | -    |
| Stage 1                  | -                                                                                 | -    | -      | -                                                                                 | 476                                                                               | -    |
| Stage 2                  | -                                                                                 | -    | -      | -                                                                                 | 725                                                                               | -    |
|                          |                                                                                   |      |        |                                                                                   |                                                                                   |      |
|                          |                                                                                   |      |        |                                                                                   |                                                                                   |      |
| Approach                 | EB                                                                                |      | WB     |                                                                                   | NB                                                                                |      |
| HCM Control Delay, s     | 0                                                                                 |      | 0.2    |                                                                                   | 28.7                                                                              |      |
| HCM LOS                  |                                                                                   |      |        |                                                                                   | D                                                                                 |      |
|                          |                                                                                   |      |        |                                                                                   |                                                                                   |      |
|                          |                                                                                   |      |        |                                                                                   |                                                                                   |      |
| Minor Lane/Major Mvmt    | NBLn1                                                                             | EBT  | EBR    | WBL                                                                               | WBT                                                                               |      |
| Capacity (veh/h)         | 257                                                                               | -    | -      | 835                                                                               | -                                                                                 |      |
| HCM Lane V/C Ratio       | 0.419                                                                             | -    | -      | 0.009                                                                             | -                                                                                 |      |
| HCM Control Delay (s)    | 28.7                                                                              | -    | -      | 9.4                                                                               | 0                                                                                 |      |
| HCM Lane LOS             | D                                                                                 | -    | -      | A                                                                                 | A                                                                                 |      |
| HCM 95th %tile Q(veh)    | 2                                                                                 | -    | -      | 0                                                                                 | -                                                                                 |      |

# Timings 7: Post Rd & I-20 WB Ramps

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|                         |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group              | WBL                                                                               | WBR                                                                               | NBL                                                                               | NBT                                                                               | SBT                                                                               | SBR                                                                               |
| Lane Configurations     |  |  |  |  |  |  |
| Traffic Volume (vph)    | 173                                                                               | 140                                                                               | 235                                                                               | 436                                                                               | 552                                                                               | 98                                                                                |
| Future Volume (vph)     | 173                                                                               | 140                                                                               | 235                                                                               | 436                                                                               | 552                                                                               | 98                                                                                |
| Lane Group Flow (vph)   | 204                                                                               | 165                                                                               | 276                                                                               | 513                                                                               | 649                                                                               | 115                                                                               |
| Turn Type               | Prot                                                                              | Perm                                                                              | pm+pt                                                                             | NA                                                                                | NA                                                                                | Perm                                                                              |
| Protected Phases        | 3                                                                                 |                                                                                   | 1                                                                                 | 6                                                                                 | 2                                                                                 |                                                                                   |
| Permitted Phases        |                                                                                   | 8                                                                                 | 6                                                                                 |                                                                                   |                                                                                   | 2                                                                                 |
| Detector Phase          | 3                                                                                 | 8                                                                                 | 1                                                                                 | 6                                                                                 | 2                                                                                 | 2                                                                                 |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minimum Initial (s)     | 5.0                                                                               | 6.0                                                                               | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 15.0                                                                              |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 23.5                                                                              |
| Total Split (s)         | 25.0                                                                              | 25.0                                                                              | 20.0                                                                              | 75.0                                                                              | 55.0                                                                              | 55.0                                                                              |
| Total Split (%)         | 25.0%                                                                             | 25.0%                                                                             | 20.0%                                                                             | 75.0%                                                                             | 55.0%                                                                             | 55.0%                                                                             |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               |
| Lead/Lag                |                                                                                   |                                                                                   | Lead                                                                              |                                                                                   | Lag                                                                               | Lag                                                                               |
| Lead-Lag Optimize?      |                                                                                   |                                                                                   | Yes                                                                               |                                                                                   | Yes                                                                               | Yes                                                                               |
| Recall Mode             | None                                                                              | None                                                                              | None                                                                              | C-Min                                                                             | C-Min                                                                             | C-Min                                                                             |
| v/c Ratio               | 0.72                                                                              | 0.42                                                                              | 0.55                                                                              | 0.38                                                                              | 0.63                                                                              | 0.13                                                                              |
| Control Delay           | 54.1                                                                              | 9.1                                                                               | 14.6                                                                              | 5.6                                                                               | 20.1                                                                              | 3.0                                                                               |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Delay             | 54.1                                                                              | 9.1                                                                               | 14.6                                                                              | 5.6                                                                               | 20.1                                                                              | 3.0                                                                               |
| Queue Length 50th (ft)  | 124                                                                               | 0                                                                                 | 58                                                                                | 110                                                                               | 277                                                                               | 0                                                                                 |
| Queue Length 95th (ft)  | 182                                                                               | 45                                                                                | 140                                                                               | 148                                                                               | 399                                                                               | 24                                                                                |
| Internal Link Dist (ft) |                                                                                   |                                                                                   |                                                                                   | 717                                                                               | 2898                                                                              |                                                                                   |
| Turn Bay Length (ft)    |                                                                                   | 400                                                                               | 210                                                                               |                                                                                   |                                                                                   | 345                                                                               |
| Base Capacity (vph)     | 345                                                                               | 441                                                                               | 531                                                                               | 1359                                                                              | 1033                                                                              | 881                                                                               |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Reduced v/c Ratio       | 0.59                                                                              | 0.37                                                                              | 0.52                                                                              | 0.38                                                                              | 0.63                                                                              | 0.13                                                                              |

## Intersection Summary

Cycle Length: 100

Actuated Cycle Length: 100

Offset: 0 (0%), Referenced to phase 2:SBT and 6:NBTL, Start of Green

Natural Cycle: 75

Control Type: Actuated-Coordinated

Splits and Phases: 7: Post Rd & I-20 WB Ramps



# HCM 6th Signalized Intersection Summary

## 7: Post Rd & I-20 WB Ramps

3a. Build 2035 AM

02/20/2025

|                                                                                                               |  |      |     |      |      |      |      |      |      |      |      |      |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------|-----|------|------|------|------|------|------|------|------|------|
| Movement                                                                                                      | EBL                                                                                | EBT  | EBR | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
| Lane Configurations                                                                                           |                                                                                    |      |     | ↰    |      | ↰    | ↰    | ↰    |      |      | ↰    | ↰    |
| Traffic Volume (veh/h)                                                                                        | 0                                                                                  | 0    | 0   | 173  | 0    | 140  | 235  | 436  | 0    | 0    | 552  | 98   |
| Future Volume (veh/h)                                                                                         | 0                                                                                  | 0    | 0   | 173  | 0    | 140  | 235  | 436  | 0    | 0    | 552  | 98   |
| Initial Q (Qb), veh                                                                                           |                                                                                    |      |     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)                                                                                           |                                                                                    |      |     | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj                                                                                              |                                                                                    |      |     | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                                                                                         |                                                                                    |      |     | No   |      |      | No   |      |      |      | No   |      |
| Adj Sat Flow, veh/h/ln                                                                                        |                                                                                    |      |     | 1870 | 0    | 1870 | 1900 | 1870 | 0    | 0    | 1885 | 1796 |
| Adj Flow Rate, veh/h                                                                                          |                                                                                    |      |     | 204  | 0    | 0    | 276  | 513  | 0    | 0    | 649  | 0    |
| Peak Hour Factor                                                                                              |                                                                                    |      |     | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Percent Heavy Veh, %                                                                                          |                                                                                    |      |     | 2    | 0    | 2    | 0    | 2    | 0    | 0    | 1    | 7    |
| Cap, veh/h                                                                                                    |                                                                                    |      |     | 239  | 0    |      | 549  | 1413 | 0    | 0    | 1180 |      |
| Arrive On Green                                                                                               |                                                                                    |      |     | 0.13 | 0.00 | 0.00 | 0.07 | 0.76 | 0.00 | 0.00 | 0.63 | 0.00 |
| Sat Flow, veh/h                                                                                               |                                                                                    |      |     | 1781 | 0    | 1585 | 1810 | 1870 | 0    | 0    | 1885 | 1522 |
| Grp Volume(v), veh/h                                                                                          |                                                                                    |      |     | 204  | 0    | 0    | 276  | 513  | 0    | 0    | 649  | 0    |
| Grp Sat Flow(s),veh/h/ln                                                                                      |                                                                                    |      |     | 1781 | 0    | 1585 | 1810 | 1870 | 0    | 0    | 1885 | 1522 |
| Q Serve(g_s), s                                                                                               |                                                                                    |      |     | 11.2 | 0.0  | 0.0  | 5.0  | 9.2  | 0.0  | 0.0  | 19.6 | 0.0  |
| Cycle Q Clear(g_c), s                                                                                         |                                                                                    |      |     | 11.2 | 0.0  | 0.0  | 5.0  | 9.2  | 0.0  | 0.0  | 19.6 | 0.0  |
| Prop In Lane                                                                                                  |                                                                                    |      |     | 1.00 |      | 1.00 | 1.00 |      | 0.00 | 0.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h                                                                                        |                                                                                    |      |     | 239  | 0    |      | 549  | 1413 | 0    | 0    | 1180 |      |
| V/C Ratio(X)                                                                                                  |                                                                                    |      |     | 0.85 | 0.00 |      | 0.50 | 0.36 | 0.00 | 0.00 | 0.55 |      |
| Avail Cap(c_a), veh/h                                                                                         |                                                                                    |      |     | 347  | 0    |      | 676  | 1413 | 0    | 0    | 1180 |      |
| HCM Platoon Ratio                                                                                             |                                                                                    |      |     | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I)                                                                                            |                                                                                    |      |     | 1.00 | 0.00 | 0.00 | 0.76 | 0.76 | 0.00 | 0.00 | 0.85 | 0.00 |
| Uniform Delay (d), s/veh                                                                                      |                                                                                    |      |     | 42.3 | 0.0  | 0.0  | 8.2  | 4.1  | 0.0  | 0.0  | 10.7 | 0.0  |
| Incr Delay (d2), s/veh                                                                                        |                                                                                    |      |     | 12.8 | 0.0  | 0.0  | 0.5  | 0.6  | 0.0  | 0.0  | 1.6  | 0.0  |
| Initial Q Delay(d3),s/veh                                                                                     |                                                                                    |      |     | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%),veh/ln                                                                                      |                                                                                    |      |     | 5.7  | 0.0  | 0.0  | 1.4  | 2.5  | 0.0  | 0.0  | 7.3  | 0.0  |
| Unsig. Movement Delay, s/veh                                                                                  |                                                                                    |      |     |      |      |      |      |      |      |      |      |      |
| LnGrp Delay(d),s/veh                                                                                          |                                                                                    |      |     | 55.1 | 0.0  | 0.0  | 8.7  | 4.7  | 0.0  | 0.0  | 12.3 | 0.0  |
| LnGrp LOS                                                                                                     |                                                                                    |      |     | E    | A    |      | A    | A    | A    | A    | B    |      |
| Approach Vol, veh/h                                                                                           |                                                                                    |      |     |      | 204  |      |      | 789  |      |      | 649  |      |
| Approach Delay, s/veh                                                                                         |                                                                                    |      |     |      | 55.1 |      |      | 6.1  |      |      | 12.3 |      |
| Approach LOS                                                                                                  |                                                                                    |      |     |      | E    |      |      | A    |      |      | B    |      |
| Timer - Assigned Phs                                                                                          | 1                                                                                  | 2    |     |      |      | 6    |      | 8    |      |      |      |      |
| Phs Duration (G+Y+Rc), s                                                                                      | 13.0                                                                               | 68.1 |     |      |      | 81.1 |      | 18.9 |      |      |      |      |
| Change Period (Y+Rc), s                                                                                       | 5.5                                                                                | 5.5  |     |      |      | 5.5  |      | 5.5  |      |      |      |      |
| Max Green Setting (Gmax), s                                                                                   | 14.5                                                                               | 49.5 |     |      |      | 69.5 |      | 19.5 |      |      |      |      |
| Max Q Clear Time (g_c+I1), s                                                                                  | 7.0                                                                                | 21.6 |     |      |      | 11.2 |      | 13.2 |      |      |      |      |
| Green Ext Time (p_c), s                                                                                       | 0.5                                                                                | 8.6  |     |      |      | 7.3  |      | 0.3  |      |      |      |      |
| <b>Intersection Summary</b>                                                                                   |                                                                                    |      |     |      |      |      |      |      |      |      |      |      |
| HCM 6th Ctrl Delay                                                                                            |                                                                                    |      |     | 14.6 |      |      |      |      |      |      |      |      |
| HCM 6th LOS                                                                                                   |                                                                                    |      |     | B    |      |      |      |      |      |      |      |      |
| <b>Notes</b>                                                                                                  |                                                                                    |      |     |      |      |      |      |      |      |      |      |      |
| Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay. |                                                                                    |      |     |      |      |      |      |      |      |      |      |      |

# Timings 8: Post Rd & I-20 EB Ramps

3a. Build 2035 AM  
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|                         |  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group              | EBL                                                                               | EBR                                                                               | NBT                                                                               | NBR                                                                               | SBL                                                                               | SBT                                                                               |
| Lane Configurations     |  |  |  |  |  |  |
| Traffic Volume (vph)    | 174                                                                               | 354                                                                               | 568                                                                               | 533                                                                               | 290                                                                               | 453                                                                               |
| Future Volume (vph)     | 174                                                                               | 354                                                                               | 568                                                                               | 533                                                                               | 290                                                                               | 453                                                                               |
| Lane Group Flow (vph)   | 189                                                                               | 385                                                                               | 617                                                                               | 579                                                                               | 315                                                                               | 492                                                                               |
| Turn Type               | Prot                                                                              | Perm                                                                              | NA                                                                                | Perm                                                                              | pm+pt                                                                             | NA                                                                                |
| Protected Phases        | 7                                                                                 |                                                                                   | 6                                                                                 |                                                                                   | 5                                                                                 | 2                                                                                 |
| Permitted Phases        |                                                                                   | 4                                                                                 |                                                                                   | 6                                                                                 | 2                                                                                 |                                                                                   |
| Detector Phase          | 7                                                                                 | 4                                                                                 | 6                                                                                 | 6                                                                                 | 5                                                                                 | 2                                                                                 |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minimum Initial (s)     | 5.0                                                                               | 6.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                               | 15.0                                                                              |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              |
| Total Split (s)         | 26.0                                                                              | 26.0                                                                              | 53.0                                                                              | 53.0                                                                              | 21.0                                                                              | 74.0                                                                              |
| Total Split (%)         | 26.0%                                                                             | 26.0%                                                                             | 53.0%                                                                             | 53.0%                                                                             | 21.0%                                                                             | 74.0%                                                                             |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               |
| Lead/Lag                |                                                                                   |                                                                                   | Lag                                                                               | Lag                                                                               | Lead                                                                              |                                                                                   |
| Lead-Lag Optimize?      |                                                                                   |                                                                                   | Yes                                                                               | Yes                                                                               | Yes                                                                               |                                                                                   |
| Recall Mode             | None                                                                              | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                              | C-Min                                                                             |
| v/c Ratio               | 0.68                                                                              | 0.68                                                                              | 0.59                                                                              | 0.50                                                                              | 0.61                                                                              | 0.36                                                                              |
| Control Delay           | 51.9                                                                              | 10.3                                                                              | 18.7                                                                              | 3.0                                                                               | 15.6                                                                              | 5.4                                                                               |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Delay             | 51.9                                                                              | 10.3                                                                              | 18.7                                                                              | 3.0                                                                               | 15.6                                                                              | 5.4                                                                               |
| Queue Length 50th (ft)  | 115                                                                               | 0                                                                                 | 241                                                                               | 0                                                                                 | 53                                                                                | 101                                                                               |
| Queue Length 95th (ft)  | 179                                                                               | 80                                                                                | 430                                                                               | 56                                                                                | 183                                                                               | 178                                                                               |
| Internal Link Dist (ft) |                                                                                   |                                                                                   | 1742                                                                              |                                                                                   |                                                                                   | 717                                                                               |
| Turn Bay Length (ft)    |                                                                                   | 340                                                                               |                                                                                   | 390                                                                               | 275                                                                               |                                                                                   |
| Base Capacity (vph)     | 366                                                                               | 627                                                                               | 1050                                                                              | 1154                                                                              | 563                                                                               | 1368                                                                              |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Reduced v/c Ratio       | 0.52                                                                              | 0.61                                                                              | 0.59                                                                              | 0.50                                                                              | 0.56                                                                              | 0.36                                                                              |

## Intersection Summary

Cycle Length: 100  
 Actuated Cycle Length: 100  
 Offset: 0 (0%), Referenced to phase 2:SBTL and 6:NBT, Start of Green  
 Natural Cycle: 75  
 Control Type: Actuated-Coordinated

Splits and Phases: 8: Post Rd & I-20 EB Ramps



# HCM 6th Signalized Intersection Summary 8: Post Rd & I-20 EB Ramps

3a. Build 2035 AM  
02/20/2025

|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |                                                                                   |  |                                                                                   |                                                                                   |                                                                                   |                                                                                     |  |  |  |  |                                                                                     |
| Traffic Volume (veh/h)       | 174                                                                               | 0                                                                                 | 354                                                                               | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 568                                                                                 | 533                                                                                 | 290                                                                                 | 453                                                                                 | 0                                                                                   |
| Future Volume (veh/h)        | 174                                                                               | 0                                                                                 | 354                                                                               | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 568                                                                                 | 533                                                                                 | 290                                                                                 | 453                                                                                 | 0                                                                                   |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1885                                                                              | 0                                                                                 | 1856                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 1870                                                                                | 1885                                                                                | 1856                                                                                | 1870                                                                                | 0                                                                                   |
| Adj Flow Rate, veh/h         | 189                                                                               | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 617                                                                                 | 0                                                                                   | 315                                                                                 | 492                                                                                 | 0                                                                                   |
| Peak Hour Factor             | 0.92                                                                              | 0.92                                                                              | 0.92                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                |
| Percent Heavy Veh, %         | 1                                                                                 | 0                                                                                 | 3                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 2                                                                                   | 1                                                                                   | 3                                                                                   | 2                                                                                   | 0                                                                                   |
| Cap, veh/h                   | 225                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 1154                                                                                |                                                                                     | 578                                                                                 | 1430                                                                                | 0                                                                                   |
| Arrive On Green              | 0.13                                                                              | 0.00                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                                | 0.62                                                                                | 0.00                                                                                | 0.18                                                                                | 1.00                                                                                | 0.00                                                                                |
| Sat Flow, veh/h              | 1795                                                                              | 0                                                                                 | 1572                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 1870                                                                                | 1598                                                                                | 1767                                                                                | 1870                                                                                | 0                                                                                   |
| Grp Volume(v), veh/h         | 189                                                                               | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 617                                                                                 | 0                                                                                   | 315                                                                                 | 492                                                                                 | 0                                                                                   |
| Grp Sat Flow(s),veh/h/ln     | 1795                                                                              | 0                                                                                 | 1572                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 1870                                                                                | 1598                                                                                | 1767                                                                                | 1870                                                                                | 0                                                                                   |
| Q Serve(g_s), s              | 10.3                                                                              | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                 | 18.8                                                                                | 0.0                                                                                 | 6.7                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Cycle Q Clear(g_c), s        | 10.3                                                                              | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                 | 18.8                                                                                | 0.0                                                                                 | 6.7                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 0.00                                                                                |
| Lane Grp Cap(c), veh/h       | 225                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 1154                                                                                |                                                                                     | 578                                                                                 | 1430                                                                                | 0                                                                                   |
| V/C Ratio(X)                 | 0.84                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                                | 0.53                                                                                |                                                                                     | 0.54                                                                                | 0.34                                                                                | 0.00                                                                                |
| Avail Cap(c_a), veh/h        | 368                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                   | 1154                                                                                |                                                                                     | 689                                                                                 | 1430                                                                                | 0                                                                                   |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 2.00                                                                                | 2.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 0.00                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                                | 1.00                                                                                | 0.00                                                                                | 0.71                                                                                | 0.71                                                                                | 0.00                                                                                |
| Uniform Delay (d), s/veh     | 42.8                                                                              | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                 | 10.9                                                                                | 0.0                                                                                 | 7.1                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Incr Delay (d2), s/veh       | 8.9                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                 | 1.8                                                                                 | 0.0                                                                                 | 0.6                                                                                 | 0.5                                                                                 | 0.0                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 5.1                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                 | 7.1                                                                                 | 0.0                                                                                 | 1.4                                                                                 | 0.2                                                                                 | 0.0                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 51.6                                                                              | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                 | 12.7                                                                                | 0.0                                                                                 | 7.7                                                                                 | 0.5                                                                                 | 0.0                                                                                 |
| LnGrp LOS                    | D                                                                                 | A                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | A                                                                                   | B                                                                                   |                                                                                     | A                                                                                   | A                                                                                   | A                                                                                   |
| Approach Vol, veh/h          | 189                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 617                                                                                 |                                                                                     |                                                                                     | 807                                                                                 |                                                                                     |                                                                                     |
| Approach Delay, s/veh        | 51.6                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 12.7                                                                                |                                                                                     |                                                                                     | 3.3                                                                                 |                                                                                     |                                                                                     |
| Approach LOS                 | D                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | B                                                                                   |                                                                                     |                                                                                     | A                                                                                   |                                                                                     |                                                                                     |
| Timer - Assigned Phs         | 2                                                                                 |                                                                                   |                                                                                   | 4                                                                                 |                                                                                   |                                                                                   | 5                                                                                   |                                                                                     |                                                                                     | 6                                                                                   |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 82.0                                                                              |                                                                                   |                                                                                   | 18.0                                                                              |                                                                                   |                                                                                   | 14.7                                                                                |                                                                                     |                                                                                     | 67.2                                                                                |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 5.5                                                                               |                                                                                   |                                                                                   | 5.5                                                                               |                                                                                   |                                                                                   | 5.5                                                                                 |                                                                                     |                                                                                     | 5.5                                                                                 |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 68.5                                                                              |                                                                                   |                                                                                   | 20.5                                                                              |                                                                                   |                                                                                   | 15.5                                                                                |                                                                                     |                                                                                     | 47.5                                                                                |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 2.0                                                                               |                                                                                   |                                                                                   | 12.3                                                                              |                                                                                   |                                                                                   | 8.7                                                                                 |                                                                                     |                                                                                     | 20.8                                                                                |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 6.9                                                                               |                                                                                   |                                                                                   | 0.3                                                                               |                                                                                   |                                                                                   | 0.5                                                                                 |                                                                                     |                                                                                     | 7.9                                                                                 |                                                                                     |                                                                                     |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th Ctrl Delay           | 12.6                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th LOS                  | B                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

## Notes

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

| Intersection             |                                                                                   |      |      |                                                                                   |                                                                                   |      |
|--------------------------|-----------------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| Int Delay, s/veh         | 6                                                                                 |      |      |                                                                                   |                                                                                   |      |
| Movement                 | EBL                                                                               | EBR  | NBL  | NBT                                                                               | SBT                                                                               | SBR  |
| Lane Configurations      |  |      |      |  |  |      |
| Traffic Vol, veh/h       | 4                                                                                 | 27   | 33   | 8                                                                                 | 7                                                                                 | 5    |
| Future Vol, veh/h        | 4                                                                                 | 27   | 33   | 8                                                                                 | 7                                                                                 | 5    |
| Conflicting Peds, #/hr   | 0                                                                                 | 0    | 0    | 0                                                                                 | 0                                                                                 | 0    |
| Sign Control             | Stop                                                                              | Stop | Free | Free                                                                              | Free                                                                              | Free |
| RT Channelized           | -                                                                                 | None | -    | None                                                                              | -                                                                                 | None |
| Storage Length           | 0                                                                                 | -    | -    | -                                                                                 | -                                                                                 | -    |
| Veh in Median Storage, # | 0                                                                                 | -    | -    | 0                                                                                 | 0                                                                                 | -    |
| Grade, %                 | 0                                                                                 | -    | -    | 0                                                                                 | 0                                                                                 | -    |
| Peak Hour Factor         | 92                                                                                | 92   | 92   | 92                                                                                | 92                                                                                | 92   |
| Heavy Vehicles, %        | 0                                                                                 | 0    | 0    | 0                                                                                 | 0                                                                                 | 0    |
| Mvmt Flow                | 4                                                                                 | 29   | 36   | 9                                                                                 | 8                                                                                 | 5    |

| Major/Minor          | Minor2 | Major1 |      | Major2 |   |   |
|----------------------|--------|--------|------|--------|---|---|
| Conflicting Flow All | 92     | 11     | 13   | 0      | - | 0 |
| Stage 1              | 11     | -      | -    | -      | - | - |
| Stage 2              | 81     | -      | -    | -      | - | - |
| Critical Hdwy        | 6.4    | 6.2    | 4.1  | -      | - | - |
| Critical Hdwy Stg 1  | 5.4    | -      | -    | -      | - | - |
| Critical Hdwy Stg 2  | 5.4    | -      | -    | -      | - | - |
| Follow-up Hdwy       | 3.5    | 3.3    | 2.2  | -      | - | - |
| Pot Cap-1 Maneuver   | 913    | 1076   | 1619 | -      | - | - |
| Stage 1              | 1017   | -      | -    | -      | - | - |
| Stage 2              | 947    | -      | -    | -      | - | - |
| Platoon blocked, %   |        |        |      | -      | - | - |
| Mov Cap-1 Maneuver   | 893    | 1076   | 1619 | -      | - | - |
| Mov Cap-2 Maneuver   | 893    | -      | -    | -      | - | - |
| Stage 1              | 995    | -      | -    | -      | - | - |
| Stage 2              | 947    | -      | -    | -      | - | - |

| Approach             | EB  | NB  | SB |
|----------------------|-----|-----|----|
| HCM Control Delay, s | 8.5 | 5.9 | 0  |
| HCM LOS              | A   |     |    |

| Minor Lane/Major Mvmt | NBL   | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h)      | 1619  | -   | 1048  | -   | -   |
| HCM Lane V/C Ratio    | 0.022 | -   | 0.032 | -   | -   |
| HCM Control Delay (s) | 7.3   | 0   | 8.5   | -   | -   |
| HCM Lane LOS          | A     | A   | A     | -   | -   |
| HCM 95th %tile Q(veh) | 0.1   | -   | 0.1   | -   | -   |

| Intersection             |                                                                                   |          |                                                                                   |       |       |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|-------|-------|-----------------------------------------------------------------------------------|
| Int Delay, s/veh         | 7                                                                                 |          |                                                                                   |       |       |                                                                                   |
| Movement                 | WBL                                                                               | WBR      | NBT                                                                               | NBR   | SBL   | SBT                                                                               |
| Lane Configurations      |  |          |  |       |       |  |
| Traffic Vol, veh/h       | 0                                                                                 | 46       | 6                                                                                 | 0     | 56    | 6                                                                                 |
| Future Vol, veh/h        | 0                                                                                 | 46       | 6                                                                                 | 0     | 56    | 6                                                                                 |
| Conflicting Peds, #/hr   | 0                                                                                 | 0        | 0                                                                                 | 0     | 0     | 0                                                                                 |
| Sign Control             | Stop                                                                              | Stop     | Free                                                                              | Free  | Free  | Free                                                                              |
| RT Channelized           | -                                                                                 | None     | -                                                                                 | None  | -     | None                                                                              |
| Storage Length           | 0                                                                                 | -        | -                                                                                 | -     | -     | -                                                                                 |
| Veh in Median Storage, # | 0                                                                                 | -        | 0                                                                                 | -     | -     | 0                                                                                 |
| Grade, %                 | 0                                                                                 | -        | 0                                                                                 | -     | -     | 0                                                                                 |
| Peak Hour Factor         | 92                                                                                | 92       | 92                                                                                | 92    | 92    | 92                                                                                |
| Heavy Vehicles, %        | 2                                                                                 | 2        | 2                                                                                 | 2     | 2     | 2                                                                                 |
| Mvmt Flow                | 0                                                                                 | 50       | 7                                                                                 | 0     | 61    | 7                                                                                 |
| Major/Minor              | Minor1                                                                            | Major1   | Major2                                                                            |       |       |                                                                                   |
| Conflicting Flow All     | 136                                                                               | 7        | 0                                                                                 | 0     | 7     | 0                                                                                 |
| Stage 1                  | 7                                                                                 | -        | -                                                                                 | -     | -     | -                                                                                 |
| Stage 2                  | 129                                                                               | -        | -                                                                                 | -     | -     | -                                                                                 |
| Critical Hdwy            | 6.42                                                                              | 6.22     | -                                                                                 | -     | 4.12  | -                                                                                 |
| Critical Hdwy Stg 1      | 5.42                                                                              | -        | -                                                                                 | -     | -     | -                                                                                 |
| Critical Hdwy Stg 2      | 5.42                                                                              | -        | -                                                                                 | -     | -     | -                                                                                 |
| Follow-up Hdwy           | 3.518                                                                             | 3.318    | -                                                                                 | -     | 2.218 | -                                                                                 |
| Pot Cap-1 Maneuver       | 857                                                                               | 1075     | -                                                                                 | -     | 1614  | -                                                                                 |
| Stage 1                  | 1016                                                                              | -        | -                                                                                 | -     | -     | -                                                                                 |
| Stage 2                  | 897                                                                               | -        | -                                                                                 | -     | -     | -                                                                                 |
| Platoon blocked, %       |                                                                                   |          | -                                                                                 | -     |       | -                                                                                 |
| Mov Cap-1 Maneuver       | 824                                                                               | 1075     | -                                                                                 | -     | 1614  | -                                                                                 |
| Mov Cap-2 Maneuver       | 824                                                                               | -        | -                                                                                 | -     | -     | -                                                                                 |
| Stage 1                  | 1016                                                                              | -        | -                                                                                 | -     | -     | -                                                                                 |
| Stage 2                  | 863                                                                               | -        | -                                                                                 | -     | -     | -                                                                                 |
| Approach                 | WB                                                                                | NB       |                                                                                   | SB    |       |                                                                                   |
| HCM Control Delay, s     | 8.5                                                                               | 0        |                                                                                   | 6.6   |       |                                                                                   |
| HCM LOS                  | A                                                                                 |          |                                                                                   |       |       |                                                                                   |
| Minor Lane/Major Mvmt    | NBT                                                                               | NBRWBLn1 | SBL                                                                               | SBT   |       |                                                                                   |
| Capacity (veh/h)         | -                                                                                 | -        | 1075                                                                              | 1614  | -     |                                                                                   |
| HCM Lane V/C Ratio       | -                                                                                 | -        | 0.047                                                                             | 0.038 | -     |                                                                                   |
| HCM Control Delay (s)    | -                                                                                 | -        | 8.5                                                                               | 7.3   | 0     |                                                                                   |
| HCM Lane LOS             | -                                                                                 | -        | A                                                                                 | A     | A     |                                                                                   |
| HCM 95th %tile Q(veh)    | -                                                                                 | -        | 0.1                                                                               | 0.1   | -     |                                                                                   |

# Timings

1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)

3b. Build 2035 PM

02/20/2025

|                         | →     | ↘     | ↙     | ←     | ↖     | ↗     |
|-------------------------|-------|-------|-------|-------|-------|-------|
| Lane Group              | EBT   | EBR   | WBL   | WBT   | NBL   | NBR   |
| Lane Configurations     | ↑     | ↑     | ↘     | ↑     | ↘     | ↘     |
| Traffic Volume (vph)    | 798   | 141   | 228   | 820   | 158   | 386   |
| Future Volume (vph)     | 798   | 141   | 228   | 820   | 158   | 386   |
| Lane Group Flow (vph)   | 907   | 160   | 259   | 932   | 180   | 439   |
| Turn Type               | NA    | Perm  | pm+pt | NA    | Prot  | Perm  |
| Protected Phases        | 6     |       | 5     | 2     | 8     |       |
| Permitted Phases        |       | 6     | 2     |       |       | 8     |
| Detector Phase          | 6     | 6     | 5     | 2     | 8     | 8     |
| Switch Phase            |       |       |       |       |       |       |
| Minimum Initial (s)     | 15.0  | 15.0  | 5.0   | 15.0  | 6.0   | 6.0   |
| Minimum Split (s)       | 23.5  | 23.5  | 15.0  | 23.5  | 23.5  | 23.5  |
| Total Split (s)         | 76.0  | 76.0  | 17.0  | 93.0  | 27.0  | 27.0  |
| Total Split (%)         | 63.3% | 63.3% | 14.2% | 77.5% | 22.5% | 22.5% |
| Yellow Time (s)         | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Lost Time (s)     | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| Lead/Lag                | Lag   | Lag   | Lead  |       |       |       |
| Lead-Lag Optimize?      | Yes   | Yes   | Yes   |       |       |       |
| Recall Mode             | Min   | Min   | None  | Min   | None  | None  |
| v/c Ratio               | 0.89  | 0.17  | 0.84  | 0.71  | 0.68  | 0.90  |
| Control Delay           | 32.4  | 3.0   | 44.8  | 12.1  | 57.9  | 39.2  |
| Queue Delay             | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| Total Delay             | 32.4  | 3.0   | 44.8  | 12.1  | 57.9  | 39.2  |
| Queue Length 50th (ft)  | 550   | 6     | 104   | 354   | 130   | 129   |
| Queue Length 95th (ft)  | 734   | 32    | #251  | 474   | 204   | #293  |
| Internal Link Dist (ft) | 295   |       |       | 1352  | 1634  |       |
| Turn Bay Length (ft)    |       |       | 350   |       |       | 285   |
| Base Capacity (vph)     | 1234  | 1084  | 308   | 1476  | 335   | 548   |
| Starvation Cap Reductn  | 0     | 0     | 0     | 0     | 0     | 0     |
| Spillback Cap Reductn   | 0     | 0     | 0     | 0     | 0     | 0     |
| Storage Cap Reductn     | 0     | 0     | 0     | 0     | 0     | 0     |
| Reduced v/c Ratio       | 0.74  | 0.15  | 0.84  | 0.63  | 0.54  | 0.80  |

## Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 106.8

Natural Cycle: 90

Control Type: Actuated-Uncoordinated

# 95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

Splits and Phases: 1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)



HCM 6th Signalized Intersection Summary  
1: SR 5 (Bill Arp Rd) & SR 8/US 78 (Veterans Memorial Hwy)

3b. Build 2035 PM  
02/20/2025

|                              |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Movement                     | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | NBL                                                                               | NBR                                                                               |
| Lane Configurations          |  |  |  |  |  |  |
| Traffic Volume (veh/h)       | 798                                                                               | 141                                                                               | 228                                                                               | 820                                                                               | 158                                                                               | 386                                                                               |
| Future Volume (veh/h)        | 798                                                                               | 141                                                                               | 228                                                                               | 820                                                                               | 158                                                                               | 386                                                                               |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Ped-Bike Adj(A_pbT)          |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   | No                                                                                | No                                                                                |                                                                                   |
| Adj Sat Flow, veh/h/ln       | 1826                                                                              | 1811                                                                              | 1870                                                                              | 1826                                                                              | 1722                                                                              | 1870                                                                              |
| Adj Flow Rate, veh/h         | 907                                                                               | 0                                                                                 | 259                                                                               | 932                                                                               | 180                                                                               | 0                                                                                 |
| Peak Hour Factor             | 0.88                                                                              | 0.88                                                                              | 0.88                                                                              | 0.88                                                                              | 0.88                                                                              | 0.88                                                                              |
| Percent Heavy Veh, %         | 5                                                                                 | 6                                                                                 | 2                                                                                 | 5                                                                                 | 12                                                                                | 2                                                                                 |
| Cap, veh/h                   | 1092                                                                              |                                                                                   | 347                                                                               | 1351                                                                              | 217                                                                               |                                                                                   |
| Arrive On Green              | 0.60                                                                              | 0.00                                                                              | 0.08                                                                              | 0.74                                                                              | 0.13                                                                              | 0.00                                                                              |
| Sat Flow, veh/h              | 1826                                                                              | 1535                                                                              | 1781                                                                              | 1826                                                                              | 1640                                                                              | 1585                                                                              |
| Grp Volume(v), veh/h         | 907                                                                               | 0                                                                                 | 259                                                                               | 932                                                                               | 180                                                                               | 0                                                                                 |
| Grp Sat Flow(s),veh/h/ln     | 1826                                                                              | 1535                                                                              | 1781                                                                              | 1826                                                                              | 1640                                                                              | 1585                                                                              |
| Q Serve(g_s), s              | 34.2                                                                              | 0.0                                                                               | 4.4                                                                               | 23.3                                                                              | 9.2                                                                               | 0.0                                                                               |
| Cycle Q Clear(g_c), s        | 34.2                                                                              | 0.0                                                                               | 4.4                                                                               | 23.3                                                                              | 9.2                                                                               | 0.0                                                                               |
| Prop In Lane                 |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |
| Lane Grp Cap(c), veh/h       | 1092                                                                              |                                                                                   | 347                                                                               | 1351                                                                              | 217                                                                               |                                                                                   |
| V/C Ratio(X)                 | 0.83                                                                              |                                                                                   | 0.75                                                                              | 0.69                                                                              | 0.83                                                                              |                                                                                   |
| Avail Cap(c_a), veh/h        | 1495                                                                              |                                                                                   | 446                                                                               | 1855                                                                              | 409                                                                               |                                                                                   |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Upstream Filter(I)           | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              |
| Uniform Delay (d), s/veh     | 13.8                                                                              | 0.0                                                                               | 17.0                                                                              | 5.9                                                                               | 36.4                                                                              | 0.0                                                                               |
| Incr Delay (d2), s/veh       | 4.4                                                                               | 0.0                                                                               | 5.1                                                                               | 1.4                                                                               | 8.0                                                                               | 0.0                                                                               |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| %ile BackOfQ(50%),veh/ln     | 12.2                                                                              | 0.0                                                                               | 3.4                                                                               | 5.6                                                                               | 4.0                                                                               | 0.0                                                                               |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| LnGrp Delay(d),s/veh         | 18.2                                                                              | 0.0                                                                               | 22.1                                                                              | 7.3                                                                               | 44.4                                                                              | 0.0                                                                               |
| LnGrp LOS                    | B                                                                                 |                                                                                   | C                                                                                 | A                                                                                 | D                                                                                 |                                                                                   |
| Approach Vol, veh/h          | 907                                                                               |                                                                                   |                                                                                   | 1191                                                                              | 180                                                                               |                                                                                   |
| Approach Delay, s/veh        | 18.2                                                                              |                                                                                   |                                                                                   | 10.5                                                                              | 44.4                                                                              |                                                                                   |
| Approach LOS                 | B                                                                                 |                                                                                   |                                                                                   | B                                                                                 | D                                                                                 |                                                                                   |
| Timer - Assigned Phs         | 2                                                                                 |                                                                                   | 5                                                                                 |                                                                                   | 6                                                                                 | 8                                                                                 |
| Phs Duration (G+Y+Rc), s     | 69.2                                                                              |                                                                                   | 12.2                                                                              |                                                                                   | 57.0                                                                              | 16.9                                                                              |
| Change Period (Y+Rc), s      | 5.5                                                                               |                                                                                   | 5.5                                                                               |                                                                                   | 5.5                                                                               | 5.5                                                                               |
| Max Green Setting (Gmax), s  | 87.5                                                                              |                                                                                   | 11.5                                                                              |                                                                                   | 70.5                                                                              | 21.5                                                                              |
| Max Q Clear Time (g_c+I1), s | 25.3                                                                              |                                                                                   | 6.4                                                                               |                                                                                   | 36.2                                                                              | 11.2                                                                              |
| Green Ext Time (p_c), s      | 20.2                                                                              |                                                                                   | 0.3                                                                               |                                                                                   | 15.4                                                                              | 0.3                                                                               |

Intersection Summary

|                    |      |
|--------------------|------|
| HCM 6th Ctrl Delay | 16.3 |
| HCM 6th LOS        | B    |

Notes

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

| Intersection             |        |                                                                                   |                                                                                   |        |                                                                                   |      |
|--------------------------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|------|
| Int Delay, s/veh         | 0.3    |                                                                                   |                                                                                   |        |                                                                                   |      |
| Movement                 | EBL    | EBT                                                                               | WBT                                                                               | WBR    | SBL                                                                               | SBR  |
| Lane Configurations      |        |  |  |        |  |      |
| Traffic Vol, veh/h       | 1      | 434                                                                               | 582                                                                               | 7      | 15                                                                                | 0    |
| Future Vol, veh/h        | 1      | 434                                                                               | 582                                                                               | 7      | 15                                                                                | 0    |
| Conflicting Peds, #/hr   | 0      | 0                                                                                 | 0                                                                                 | 0      | 0                                                                                 | 0    |
| Sign Control             | Free   | Free                                                                              | Free                                                                              | Free   | Stop                                                                              | Stop |
| RT Channelized           | -      | None                                                                              | -                                                                                 | None   | -                                                                                 | None |
| Storage Length           | -      | -                                                                                 | -                                                                                 | -      | 0                                                                                 | -    |
| Veh in Median Storage, # | -      | 0                                                                                 | 0                                                                                 | -      | 0                                                                                 | -    |
| Grade, %                 | -      | 0                                                                                 | 0                                                                                 | -      | 0                                                                                 | -    |
| Peak Hour Factor         | 97     | 97                                                                                | 97                                                                                | 97     | 97                                                                                | 97   |
| Heavy Vehicles, %        | 0      | 8                                                                                 | 4                                                                                 | 0      | 13                                                                                | 0    |
| Mvmt Flow                | 1      | 447                                                                               | 600                                                                               | 7      | 15                                                                                | 0    |
| Major/Minor              | Major1 | Major2                                                                            |                                                                                   | Minor2 |                                                                                   |      |
| Conflicting Flow All     | 607    | 0                                                                                 | -                                                                                 | 0      | 830                                                                               | 604  |
| Stage 1                  | -      | -                                                                                 | -                                                                                 | -      | 604                                                                               | -    |
| Stage 2                  | -      | -                                                                                 | -                                                                                 | -      | 226                                                                               | -    |
| Critical Hdwy            | 4.1    | -                                                                                 | -                                                                                 | -      | 6.795                                                                             | 6.2  |
| Critical Hdwy Stg 1      | -      | -                                                                                 | -                                                                                 | -      | 5.595                                                                             | -    |
| Critical Hdwy Stg 2      | -      | -                                                                                 | -                                                                                 | -      | 5.995                                                                             | -    |
| Follow-up Hdwy           | 2.2    | -                                                                                 | -                                                                                 | -      | 3.6235                                                                            | 3.3  |
| Pot Cap-1 Maneuver       | 981    | -                                                                                 | -                                                                                 | -      | 306                                                                               | 502  |
| Stage 1                  | -      | -                                                                                 | -                                                                                 | -      | 519                                                                               | -    |
| Stage 2                  | -      | -                                                                                 | -                                                                                 | -      | 762                                                                               | -    |
| Platoon blocked, %       |        | -                                                                                 | -                                                                                 | -      |                                                                                   |      |
| Mov Cap-1 Maneuver       | 981    | -                                                                                 | -                                                                                 | -      | 306                                                                               | 502  |
| Mov Cap-2 Maneuver       | -      | -                                                                                 | -                                                                                 | -      | 306                                                                               | -    |
| Stage 1                  | -      | -                                                                                 | -                                                                                 | -      | 518                                                                               | -    |
| Stage 2                  | -      | -                                                                                 | -                                                                                 | -      | 762                                                                               | -    |
| Approach                 | EB     | WB                                                                                |                                                                                   | SB     |                                                                                   |      |
| HCM Control Delay, s     | 0      | 0                                                                                 |                                                                                   | 17.4   |                                                                                   |      |
| HCM LOS                  |        |                                                                                   |                                                                                   | C      |                                                                                   |      |
| Minor Lane/Major Mvmt    | EBL    | EBT                                                                               | WBT                                                                               | WBR    | SBLn1                                                                             |      |
| Capacity (veh/h)         | 981    | -                                                                                 | -                                                                                 | -      | 306                                                                               |      |
| HCM Lane V/C Ratio       | 0.001  | -                                                                                 | -                                                                                 | -      | 0.051                                                                             |      |
| HCM Control Delay (s)    | 8.7    | 0                                                                                 | -                                                                                 | -      | 17.4                                                                              |      |
| HCM Lane LOS             | A      | A                                                                                 | -                                                                                 | -      | C                                                                                 |      |
| HCM 95th %tile Q(veh)    | 0      | -                                                                                 | -                                                                                 | -      | 0.2                                                                               |      |

**Intersection**

Int Delay, s/veh 2.6

| Movement                 | EBL  | EBT                                                                               | EBR  | WBL                                                                               | WBT                                                                               | WBR  | NBL  | NBT                                                                               | NBR  | SBL  | SBT                                                                                 | SBR  |
|--------------------------|------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|------|
| Lane Configurations      |      |  |      |  |  |      |      |  |      |      |  |      |
| Traffic Vol, veh/h       | 8    | 458                                                                               | 4    | 26                                                                                | 757                                                                               | 15   | 13   | 1                                                                                 | 29   | 29   | 1                                                                                   | 12   |
| Future Vol, veh/h        | 8    | 458                                                                               | 4    | 26                                                                                | 757                                                                               | 15   | 13   | 1                                                                                 | 29   | 29   | 1                                                                                   | 12   |
| Conflicting Peds, #/hr   | 0    | 0                                                                                 | 0    | 0                                                                                 | 0                                                                                 | 0    | 0    | 0                                                                                 | 0    | 0    | 0                                                                                   | 0    |
| Sign Control             | Free | Free                                                                              | Free | Free                                                                              | Free                                                                              | Free | Stop | Stop                                                                              | Stop | Stop | Stop                                                                                | Stop |
| RT Channelized           | -    | -                                                                                 | None | -                                                                                 | -                                                                                 | None | -    | -                                                                                 | None | -    | -                                                                                   | None |
| Storage Length           | -    | -                                                                                 | -    | 150                                                                               | -                                                                                 | -    | -    | -                                                                                 | -    | -    | -                                                                                   | -    |
| Veh in Median Storage, # | -    | 0                                                                                 | -    | -                                                                                 | 0                                                                                 | -    | -    | 0                                                                                 | -    | -    | 0                                                                                   | -    |
| Grade, %                 | -    | 0                                                                                 | -    | -                                                                                 | 0                                                                                 | -    | -    | 0                                                                                 | -    | -    | 0                                                                                   | -    |
| Peak Hour Factor         | 90   | 90                                                                                | 90   | 90                                                                                | 90                                                                                | 90   | 90   | 90                                                                                | 90   | 90   | 90                                                                                  | 90   |
| Heavy Vehicles, %        | 0    | 5                                                                                 | 0    | 0                                                                                 | 2                                                                                 | 33   | 0    | 0                                                                                 | 0    | 0    | 0                                                                                   | 0    |
| Mvmt Flow                | 9    | 509                                                                               | 4    | 29                                                                                | 841                                                                               | 17   | 14   | 1                                                                                 | 32   | 32   | 1                                                                                   | 13   |

| Major/Minor          | Major1 |   |   | Major2 |   |   | Minor1 |      |     | Minor2 |      |     |
|----------------------|--------|---|---|--------|---|---|--------|------|-----|--------|------|-----|
| Conflicting Flow All | 858    | 0 | 0 | 513    | 0 | 0 | 1444   | 1445 | 511 | 1454   | 1439 | 850 |
| Stage 1              | -      | - | - | -      | - | - | 529    | 529  | -   | 908    | 908  | -   |
| Stage 2              | -      | - | - | -      | - | - | 915    | 916  | -   | 546    | 531  | -   |
| Critical Hdwy        | 4.1    | - | - | 4.1    | - | - | 7.1    | 6.5  | 6.2 | 7.1    | 6.5  | 6.2 |
| Critical Hdwy Stg 1  | -      | - | - | -      | - | - | 6.1    | 5.5  | -   | 6.1    | 5.5  | -   |
| Critical Hdwy Stg 2  | -      | - | - | -      | - | - | 6.1    | 5.5  | -   | 6.1    | 5.5  | -   |
| Follow-up Hdwy       | 2.2    | - | - | 2.2    | - | - | 3.5    | 4    | 3.3 | 3.5    | 4    | 3.3 |
| Pot Cap-1 Maneuver   | 791    | - | - | 1063   | - | - | 111    | 133  | 567 | 109    | 134  | 363 |
| Stage 1              | -      | - | - | -      | - | - | 537    | 530  | -   | 332    | 357  | -   |
| Stage 2              | -      | - | - | -      | - | - | 329    | 354  | -   | 526    | 529  | -   |
| Platoon blocked, %   | -      | - | - | -      | - | - | -      | -    | -   | -      | -    | -   |
| Mov Cap-1 Maneuver   | 791    | - | - | 1063   | - | - | 103    | 127  | 567 | 99     | 128  | 363 |
| Mov Cap-2 Maneuver   | -      | - | - | -      | - | - | 103    | 127  | -   | 99     | 128  | -   |
| Stage 1              | -      | - | - | -      | - | - | 528    | 522  | -   | 327    | 347  | -   |
| Stage 2              | -      | - | - | -      | - | - | 307    | 344  | -   | 487    | 521  | -   |

| Approach             | EB  |  |  | WB  |  |  | NB   |  |  | SB   |  |  |
|----------------------|-----|--|--|-----|--|--|------|--|--|------|--|--|
| HCM Control Delay, s | 0.2 |  |  | 0.3 |  |  | 24.5 |  |  | 49.5 |  |  |
| HCM LOS              |     |  |  |     |  |  | C    |  |  | E    |  |  |

| Minor Lane/Major Mvmt | NBLn1 | EBL   | EBT | EBR | WBL   | WBT | WBR | SBLn1 |
|-----------------------|-------|-------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h)      | 232   | 791   | -   | -   | 1063  | -   | -   | 126   |
| HCM Lane V/C Ratio    | 0.206 | 0.011 | -   | -   | 0.027 | -   | -   | 0.37  |
| HCM Control Delay (s) | 24.5  | 9.6   | 0   | -   | 8.5   | -   | -   | 49.5  |
| HCM Lane LOS          | C     | A     | A   | -   | A     | -   | -   | E     |
| HCM 95th %tile Q(veh) | 0.8   | 0     | -   | -   | 0.1   | -   | -   | 1.5   |

| Intersection             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Int Delay, s/veh         | 1.6                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Movement                 | EBL                                                                               | EBT                                                                               | WBT                                                                               | WBR                                                                               | SBL                                                                               | SBR                                                                               |
| Lane Configurations      |  |  |  |  |  |  |
| Traffic Vol, veh/h       | 25                                                                                | 516                                                                               | 641                                                                               | 24                                                                                | 38                                                                                | 74                                                                                |
| Future Vol, veh/h        | 25                                                                                | 516                                                                               | 641                                                                               | 24                                                                                | 38                                                                                | 74                                                                                |
| Conflicting Peds, #/hr   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Sign Control             | Free                                                                              | Free                                                                              | Free                                                                              | Free                                                                              | Stop                                                                              | Stop                                                                              |
| RT Channelized           | -                                                                                 | None                                                                              | -                                                                                 | Yield                                                                             | -                                                                                 | Yield                                                                             |
| Storage Length           | 155                                                                               | -                                                                                 | -                                                                                 | 175                                                                               | 0                                                                                 | -                                                                                 |
| Veh in Median Storage, # | -                                                                                 | 0                                                                                 | 0                                                                                 | -                                                                                 | 0                                                                                 | -                                                                                 |
| Grade, %                 | -                                                                                 | 0                                                                                 | 0                                                                                 | -                                                                                 | 0                                                                                 | -                                                                                 |
| Peak Hour Factor         | 86                                                                                | 86                                                                                | 86                                                                                | 86                                                                                | 86                                                                                | 86                                                                                |
| Heavy Vehicles, %        | 0                                                                                 | 7                                                                                 | 2                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Mvmt Flow                | 29                                                                                | 600                                                                               | 745                                                                               | 28                                                                                | 44                                                                                | 86                                                                                |

| Major/Minor          | Major1 | Major2 | Minor2     |
|----------------------|--------|--------|------------|
| Conflicting Flow All | 745    | 0      | 0 1403 745 |
| Stage 1              | -      | -      | - 745 -    |
| Stage 2              | -      | -      | - 658 -    |
| Critical Hdwy        | 4.1    | -      | - 6.4 6.2  |
| Critical Hdwy Stg 1  | -      | -      | - 5.4 -    |
| Critical Hdwy Stg 2  | -      | -      | - 5.4 -    |
| Follow-up Hdwy       | 2.2    | -      | - 3.5 3.3  |
| Pot Cap-1 Maneuver   | 872    | -      | - 156 417  |
| Stage 1              | -      | -      | - 473 -    |
| Stage 2              | -      | -      | - 519 -    |
| Platoon blocked, %   | -      | -      | -          |
| Mov Cap-1 Maneuver   | 872    | -      | - 151 417  |
| Mov Cap-2 Maneuver   | -      | -      | - 151 -    |
| Stage 1              | -      | -      | - 457 -    |
| Stage 2              | -      | -      | - 519 -    |

| Approach             | EB  | WB | SB   |
|----------------------|-----|----|------|
| HCM Control Delay, s | 0.4 | 0  | 16.4 |
| HCM LOS              | C   |    |      |

| Minor Lane/Major Mvmt | EBL   | EBT | WBT | WBR | SBLn1 |
|-----------------------|-------|-----|-----|-----|-------|
| Capacity (veh/h)      | 872   | -   | -   | -   | 445   |
| HCM Lane V/C Ratio    | 0.033 | -   | -   | -   | 0.293 |
| HCM Control Delay (s) | 9.3   | -   | -   | -   | 16.4  |
| HCM Lane LOS          | A     | -   | -   | -   | C     |
| HCM 95th %tile Q(veh) | 0.1   | -   | -   | -   | 1.2   |

# Timings

3b. Build 2035 PM

## 5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)

02/20/2025

|                         |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Lane Group              | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 |
| Lane Configurations     |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (vph)    | 26                                                                                | 246                                                                               | 194                                                                               | 355                                                                               | 431                                                                               | 144                                                                               | 166                                                                                 | 274                                                                                 | 142                                                                                 | 99                                                                                  | 167                                                                                 |
| Future Volume (vph)     | 26                                                                                | 246                                                                               | 194                                                                               | 355                                                                               | 431                                                                               | 144                                                                               | 166                                                                                 | 274                                                                                 | 142                                                                                 | 99                                                                                  | 167                                                                                 |
| Lane Group Flow (vph)   | 28                                                                                | 267                                                                               | 211                                                                               | 386                                                                               | 468                                                                               | 157                                                                               | 180                                                                                 | 298                                                                                 | 154                                                                                 | 108                                                                                 | 194                                                                                 |
| Turn Type               | pm+pt                                                                             | NA                                                                                | Perm                                                                              | pm+pt                                                                             | NA                                                                                | Perm                                                                              | pm+pt                                                                               | NA                                                                                  | Perm                                                                                | pm+pt                                                                               | NA                                                                                  |
| Protected Phases        | 1                                                                                 | 6                                                                                 |                                                                                   | 5                                                                                 | 2                                                                                 |                                                                                   | 3                                                                                   | 8                                                                                   |                                                                                     | 7                                                                                   | 4                                                                                   |
| Permitted Phases        | 6                                                                                 |                                                                                   | 6                                                                                 | 2                                                                                 |                                                                                   | 2                                                                                 | 8                                                                                   |                                                                                     | 8                                                                                   | 4                                                                                   |                                                                                     |
| Detector Phase          | 1                                                                                 | 6                                                                                 | 6                                                                                 | 5                                                                                 | 2                                                                                 | 2                                                                                 | 3                                                                                   | 8                                                                                   | 8                                                                                   | 7                                                                                   | 4                                                                                   |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Minimum Initial (s)     | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                                 | 6.0                                                                                 | 6.0                                                                                 | 5.0                                                                                 | 6.0                                                                                 |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                                | 23.5                                                                                | 23.5                                                                                | 15.0                                                                                | 23.5                                                                                |
| Total Split (s)         | 15.0                                                                              | 38.0                                                                              | 38.0                                                                              | 31.0                                                                              | 54.0                                                                              | 54.0                                                                              | 15.0                                                                                | 36.0                                                                                | 36.0                                                                                | 15.0                                                                                | 36.0                                                                                |
| Total Split (%)         | 12.5%                                                                             | 31.7%                                                                             | 31.7%                                                                             | 25.8%                                                                             | 45.0%                                                                             | 45.0%                                                                             | 12.5%                                                                               | 30.0%                                                                               | 30.0%                                                                               | 12.5%                                                                               | 30.0%                                                                               |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 | 3.5                                                                                 |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 | 2.0                                                                                 |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 | 5.5                                                                                 |
| Lead/Lag                | Lead                                                                              | Lag                                                                               | Lag                                                                               | Lead                                                                              | Lag                                                                               | Lag                                                                               | Lead                                                                                | Lag                                                                                 | Lag                                                                                 | Lead                                                                                | Lag                                                                                 |
| Lead-Lag Optimize?      | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                               | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 | Yes                                                                                 |
| Recall Mode             | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                                | None                                                                                | None                                                                                | None                                                                                | None                                                                                |
| v/c Ratio               | 0.06                                                                              | 0.38                                                                              | 0.29                                                                              | 0.60                                                                              | 0.48                                                                              | 0.18                                                                              | 0.57                                                                                | 0.79                                                                                | 0.35                                                                                | 0.49                                                                                | 0.53                                                                                |
| Control Delay           | 14.7                                                                              | 32.0                                                                              | 5.5                                                                               | 18.5                                                                              | 22.9                                                                              | 3.7                                                                               | 37.8                                                                                | 61.0                                                                                | 6.0                                                                                 | 36.0                                                                                | 46.8                                                                                |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Total Delay             | 14.7                                                                              | 32.0                                                                              | 5.5                                                                               | 18.5                                                                              | 22.9                                                                              | 3.7                                                                               | 37.8                                                                                | 61.0                                                                                | 6.0                                                                                 | 36.0                                                                                | 46.8                                                                                |
| Queue Length 50th (ft)  | 9                                                                                 | 150                                                                               | 0                                                                                 | 151                                                                               | 244                                                                               | 0                                                                                 | 104                                                                                 | 221                                                                                 | 0                                                                                   | 60                                                                                  | 133                                                                                 |
| Queue Length 95th (ft)  | 25                                                                                | 265                                                                               | 59                                                                                | 248                                                                               | 389                                                                               | 40                                                                                | 152                                                                                 | 303                                                                                 | 40                                                                                  | 97                                                                                  | 195                                                                                 |
| Internal Link Dist (ft) |                                                                                   | 2443                                                                              |                                                                                   |                                                                                   | 3462                                                                              |                                                                                   |                                                                                     | 2898                                                                                |                                                                                     |                                                                                     | 998                                                                                 |
| Turn Bay Length (ft)    | 300                                                                               |                                                                                   | 225                                                                               | 355                                                                               |                                                                                   | 225                                                                               | 190                                                                                 |                                                                                     | 200                                                                                 | 160                                                                                 |                                                                                     |
| Base Capacity (vph)     | 474                                                                               | 697                                                                               | 734                                                                               | 693                                                                               | 977                                                                               | 897                                                                               | 317                                                                                 | 478                                                                                 | 519                                                                                 | 226                                                                                 | 476                                                                                 |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Reduced v/c Ratio       | 0.06                                                                              | 0.38                                                                              | 0.29                                                                              | 0.56                                                                              | 0.48                                                                              | 0.18                                                                              | 0.57                                                                                | 0.62                                                                                | 0.30                                                                                | 0.48                                                                                | 0.41                                                                                |

### Intersection Summary

Cycle Length: 120

Actuated Cycle Length: 120

Offset: 0 (0%), Referenced to phase 2:WBTL and 6:EBTL, Start of Green

Natural Cycle: 80

Control Type: Actuated-Coordinated

Splits and Phases: 5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)



# HCM 6th Signalized Intersection Summary

## 5: Post Rd/Mann Rd & SR 8/US 78 (Veterans Memorial Hwy)

3b. Build 2035 PM

02/20/2025

|                              |  |  |  |  |  |  |   |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |  |  |  |  |  |  |  |  |  |  |  |
| Traffic Volume (veh/h)       | 26                                                                                | 246                                                                               | 194                                                                               | 355                                                                               | 431                                                                               | 144                                                                               | 166                                                                                 | 274                                                                                 | 142                                                                                 | 99                                                                                  | 167                                                                                 | 11                                                                                  |
| Future Volume (veh/h)        | 26                                                                                | 246                                                                               | 194                                                                               | 355                                                                               | 431                                                                               | 144                                                                               | 166                                                                                 | 274                                                                                 | 142                                                                                 | 99                                                                                  | 167                                                                                 | 11                                                                                  |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   | No                                                                                |                                                                                   |                                                                                   | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1826                                                                              | 1841                                                                              | 1870                                                                              | 1885                                                                              | 1870                                                                              | 1856                                                                              | 1900                                                                                | 1885                                                                                | 1826                                                                                | 1826                                                                                | 1885                                                                                | 1900                                                                                |
| Adj Flow Rate, veh/h         | 28                                                                                | 267                                                                               | 0                                                                                 | 386                                                                               | 468                                                                               | 0                                                                                 | 180                                                                                 | 298                                                                                 | 0                                                                                   | 108                                                                                 | 182                                                                                 | 0                                                                                   |
| Peak Hour Factor             | 0.92                                                                              | 0.92                                                                              | 0.92                                                                              | 0.92                                                                              | 0.92                                                                              | 0.92                                                                              | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                | 0.92                                                                                |
| Percent Heavy Veh, %         | 5                                                                                 | 4                                                                                 | 2                                                                                 | 1                                                                                 | 2                                                                                 | 3                                                                                 | 0                                                                                   | 1                                                                                   | 5                                                                                   | 5                                                                                   | 1                                                                                   | 0                                                                                   |
| Cap, veh/h                   | 460                                                                               | 800                                                                               |                                                                                   | 685                                                                               | 1021                                                                              |                                                                                   | 297                                                                                 | 338                                                                                 |                                                                                     | 201                                                                                 | 313                                                                                 |                                                                                     |
| Arrive On Green              | 0.03                                                                              | 0.43                                                                              | 0.00                                                                              | 0.14                                                                              | 0.55                                                                              | 0.00                                                                              | 0.08                                                                                | 0.18                                                                                | 0.00                                                                                | 0.07                                                                                | 0.17                                                                                | 0.00                                                                                |
| Sat Flow, veh/h              | 1739                                                                              | 1841                                                                              | 1585                                                                              | 1795                                                                              | 1870                                                                              | 1572                                                                              | 1810                                                                                | 1885                                                                                | 1547                                                                                | 1739                                                                                | 1885                                                                                | 0                                                                                   |
| Grp Volume(v), veh/h         | 28                                                                                | 267                                                                               | 0                                                                                 | 386                                                                               | 468                                                                               | 0                                                                                 | 180                                                                                 | 298                                                                                 | 0                                                                                   | 108                                                                                 | 182                                                                                 | 0                                                                                   |
| Grp Sat Flow(s),veh/h/ln     | 1739                                                                              | 1841                                                                              | 1585                                                                              | 1795                                                                              | 1870                                                                              | 1572                                                                              | 1810                                                                                | 1885                                                                                | 1547                                                                                | 1739                                                                                | 1885                                                                                | 0                                                                                   |
| Q Serve(g_s), s              | 1.1                                                                               | 11.5                                                                              | 0.0                                                                               | 13.5                                                                              | 18.2                                                                              | 0.0                                                                               | 9.5                                                                                 | 18.5                                                                                | 0.0                                                                                 | 6.1                                                                                 | 10.7                                                                                | 0.0                                                                                 |
| Cycle Q Clear(g_c), s        | 1.1                                                                               | 11.5                                                                              | 0.0                                                                               | 13.5                                                                              | 18.2                                                                              | 0.0                                                                               | 9.5                                                                                 | 18.5                                                                                | 0.0                                                                                 | 6.1                                                                                 | 10.7                                                                                | 0.0                                                                                 |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 0.00                                                                                |
| Lane Grp Cap(c), veh/h       | 460                                                                               | 800                                                                               |                                                                                   | 685                                                                               | 1021                                                                              |                                                                                   | 297                                                                                 | 338                                                                                 |                                                                                     | 201                                                                                 | 313                                                                                 |                                                                                     |
| V/C Ratio(X)                 | 0.06                                                                              | 0.33                                                                              |                                                                                   | 0.56                                                                              | 0.46                                                                              |                                                                                   | 0.61                                                                                | 0.88                                                                                |                                                                                     | 0.54                                                                                | 0.58                                                                                |                                                                                     |
| Avail Cap(c_a), veh/h        | 554                                                                               | 800                                                                               |                                                                                   | 821                                                                               | 1021                                                                              |                                                                                   | 297                                                                                 | 479                                                                                 |                                                                                     | 225                                                                                 | 479                                                                                 |                                                                                     |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 0.95                                                                                | 0.95                                                                                | 0.00                                                                                | 1.00                                                                                | 1.00                                                                                | 0.00                                                                                |
| Uniform Delay (d), s/veh     | 17.9                                                                              | 22.4                                                                              | 0.0                                                                               | 14.1                                                                              | 16.5                                                                              | 0.0                                                                               | 39.0                                                                                | 48.0                                                                                | 0.0                                                                                 | 39.0                                                                                | 46.2                                                                                | 0.0                                                                                 |
| Incr Delay (d2), s/veh       | 0.1                                                                               | 1.1                                                                               | 0.0                                                                               | 0.7                                                                               | 1.5                                                                               | 0.0                                                                               | 3.3                                                                                 | 12.3                                                                                | 0.0                                                                                 | 2.2                                                                                 | 1.7                                                                                 | 0.0                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 0.4                                                                               | 5.0                                                                               | 0.0                                                                               | 5.1                                                                               | 7.6                                                                               | 0.0                                                                               | 4.6                                                                                 | 9.6                                                                                 | 0.0                                                                                 | 2.7                                                                                 | 5.1                                                                                 | 0.0                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 17.9                                                                              | 23.5                                                                              | 0.0                                                                               | 14.9                                                                              | 18.0                                                                              | 0.0                                                                               | 42.3                                                                                | 60.3                                                                                | 0.0                                                                                 | 41.3                                                                                | 47.9                                                                                | 0.0                                                                                 |
| LnGrp LOS                    | B                                                                                 | C                                                                                 |                                                                                   | B                                                                                 | B                                                                                 |                                                                                   | D                                                                                   | E                                                                                   |                                                                                     | D                                                                                   | D                                                                                   |                                                                                     |
| Approach Vol, veh/h          | 295                                                                               |                                                                                   |                                                                                   |                                                                                   | 854                                                                               |                                                                                   |                                                                                     |                                                                                     | 478                                                                                 |                                                                                     |                                                                                     |                                                                                     |
| Approach Delay, s/veh        | 23.0                                                                              |                                                                                   |                                                                                   |                                                                                   | 16.6                                                                              |                                                                                   |                                                                                     |                                                                                     | 53.5                                                                                |                                                                                     |                                                                                     |                                                                                     |
| Approach LOS                 | C                                                                                 |                                                                                   |                                                                                   |                                                                                   | B                                                                                 |                                                                                   |                                                                                     |                                                                                     | D                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Timer - Assigned Phs         | 1                                                                                 | 2                                                                                 | 3                                                                                 | 4                                                                                 | 5                                                                                 | 6                                                                                 | 7                                                                                   | 8                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 8.5                                                                               | 71.0                                                                              | 15.0                                                                              | 25.4                                                                              | 21.9                                                                              | 57.7                                                                              | 13.4                                                                                | 27.0                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                                 | 5.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 9.5                                                                               | 48.5                                                                              | 9.5                                                                               | 30.5                                                                              | 25.5                                                                              | 32.5                                                                              | 9.5                                                                                 | 30.5                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 3.1                                                                               | 20.2                                                                              | 11.5                                                                              | 12.7                                                                              | 15.5                                                                              | 13.5                                                                              | 8.1                                                                                 | 20.5                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 0.0                                                                               | 5.6                                                                               | 0.0                                                                               | 0.8                                                                               | 0.8                                                                               | 2.4                                                                               | 0.0                                                                                 | 1.1                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

### Intersection Summary

|                    |      |
|--------------------|------|
| HCM 6th Ctrl Delay | 31.1 |
| HCM 6th LOS        | C    |

### Notes

Unsignalized Delay for [NBR, EBR, WBR, SBR] is excluded from calculations of the approach delay and intersection delay.

| Intersection             |                                                                                   |        |        |                                                                                   |                                                                                   |      |
|--------------------------|-----------------------------------------------------------------------------------|--------|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| Int Delay, s/veh         | 12.3                                                                              |        |        |                                                                                   |                                                                                   |      |
| Movement                 | EBT                                                                               | EBR    | WBL    | WBT                                                                               | NBL                                                                               | NBR  |
| Lane Configurations      |  |        |        |  |  |      |
| Traffic Vol, veh/h       | 432                                                                               | 148    | 12     | 497                                                                               | 178                                                                               | 14   |
| Future Vol, veh/h        | 432                                                                               | 148    | 12     | 497                                                                               | 178                                                                               | 14   |
| Conflicting Peds, #/hr   | 0                                                                                 | 0      | 0      | 0                                                                                 | 0                                                                                 | 0    |
| Sign Control             | Free                                                                              | Free   | Free   | Free                                                                              | Stop                                                                              | Stop |
| RT Channelized           | -                                                                                 | None   | -      | None                                                                              | -                                                                                 | None |
| Storage Length           | -                                                                                 | -      | -      | -                                                                                 | 0                                                                                 | -    |
| Veh in Median Storage, # | 0                                                                                 | -      | -      | 0                                                                                 | 0                                                                                 | -    |
| Grade, %                 | 0                                                                                 | -      | -      | 0                                                                                 | 0                                                                                 | -    |
| Peak Hour Factor         | 91                                                                                | 91     | 91     | 91                                                                                | 91                                                                                | 91   |
| Heavy Vehicles, %        | 9                                                                                 | 0      | 0      | 3                                                                                 | 0                                                                                 | 0    |
| Mvmt Flow                | 475                                                                               | 163    | 13     | 546                                                                               | 196                                                                               | 15   |
|                          |                                                                                   |        |        |                                                                                   |                                                                                   |      |
| Major/Minor              | Major1                                                                            | Major2 | Minor1 |                                                                                   |                                                                                   |      |
| Conflicting Flow All     | 0                                                                                 | 0      | 638    | 0                                                                                 | 1129                                                                              | 557  |
| Stage 1                  | -                                                                                 | -      | -      | -                                                                                 | 557                                                                               | -    |
| Stage 2                  | -                                                                                 | -      | -      | -                                                                                 | 572                                                                               | -    |
| Critical Hdwy            | -                                                                                 | -      | 4.1    | -                                                                                 | 6.4                                                                               | 6.2  |
| Critical Hdwy Stg 1      | -                                                                                 | -      | -      | -                                                                                 | 5.4                                                                               | -    |
| Critical Hdwy Stg 2      | -                                                                                 | -      | -      | -                                                                                 | 5.4                                                                               | -    |
| Follow-up Hdwy           | -                                                                                 | -      | 2.2    | -                                                                                 | 3.5                                                                               | 3.3  |
| Pot Cap-1 Maneuver       | -                                                                                 | -      | 956    | -                                                                                 | 228                                                                               | 534  |
| Stage 1                  | -                                                                                 | -      | -      | -                                                                                 | 578                                                                               | -    |
| Stage 2                  | -                                                                                 | -      | -      | -                                                                                 | 569                                                                               | -    |
| Platoon blocked, %       | -                                                                                 | -      |        | -                                                                                 |                                                                                   |      |
| Mov Cap-1 Maneuver       | -                                                                                 | -      | 956    | -                                                                                 | 223                                                                               | 534  |
| Mov Cap-2 Maneuver       | -                                                                                 | -      | -      | -                                                                                 | 223                                                                               | -    |
| Stage 1                  | -                                                                                 | -      | -      | -                                                                                 | 578                                                                               | -    |
| Stage 2                  | -                                                                                 | -      | -      | -                                                                                 | 558                                                                               | -    |
|                          |                                                                                   |        |        |                                                                                   |                                                                                   |      |
|                          |                                                                                   |        |        |                                                                                   |                                                                                   |      |
| Approach                 | EB                                                                                | WB     |        | NB                                                                                |                                                                                   |      |
| HCM Control Delay, s     | 0                                                                                 | 0.2    |        | 81.3                                                                              |                                                                                   |      |
| HCM LOS                  | F                                                                                 |        |        |                                                                                   |                                                                                   |      |
|                          |                                                                                   |        |        |                                                                                   |                                                                                   |      |
|                          |                                                                                   |        |        |                                                                                   |                                                                                   |      |
| Minor Lane/Major Mvmt    | NBLn1                                                                             | EBT    | EBR    | WBL                                                                               | WBT                                                                               |      |
| Capacity (veh/h)         | 233                                                                               | -      | -      | 956                                                                               | -                                                                                 |      |
| HCM Lane V/C Ratio       | 0.906                                                                             | -      | -      | 0.014                                                                             | -                                                                                 |      |
| HCM Control Delay (s)    | 81.3                                                                              | -      | -      | 8.8                                                                               | 0                                                                                 |      |
| HCM Lane LOS             | F                                                                                 | -      | -      | A                                                                                 | A                                                                                 |      |
| HCM 95th %tile Q(veh)    | 7.6                                                                               | -      | -      | 0                                                                                 | -                                                                                 |      |

# Timings 7: Post Rd & I-20 WB Ramps

3b. Build 2035 PM  
02/20/2025

|                         |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group              | WBL                                                                               | WBR                                                                               | NBL                                                                               | NBT                                                                               | SBT                                                                               | SBR                                                                               |
| Lane Configurations     |  |  |  |  |  |  |
| Traffic Volume (vph)    | 490                                                                               | 248                                                                               | 323                                                                               | 312                                                                               | 565                                                                               | 199                                                                               |
| Future Volume (vph)     | 490                                                                               | 248                                                                               | 323                                                                               | 312                                                                               | 565                                                                               | 199                                                                               |
| Lane Group Flow (vph)   | 505                                                                               | 256                                                                               | 333                                                                               | 322                                                                               | 582                                                                               | 205                                                                               |
| Turn Type               | Prot                                                                              | Perm                                                                              | pm+pt                                                                             | NA                                                                                | NA                                                                                | Perm                                                                              |
| Protected Phases        | 3                                                                                 |                                                                                   | 1                                                                                 | 6                                                                                 | 2                                                                                 |                                                                                   |
| Permitted Phases        |                                                                                   | 8                                                                                 | 6                                                                                 |                                                                                   |                                                                                   | 2                                                                                 |
| Detector Phase          | 3                                                                                 | 8                                                                                 | 1                                                                                 | 6                                                                                 | 2                                                                                 | 2                                                                                 |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minimum Initial (s)     | 5.0                                                                               | 6.0                                                                               | 5.0                                                                               | 15.0                                                                              | 15.0                                                                              | 15.0                                                                              |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 23.5                                                                              |
| Total Split (s)         | 37.0                                                                              | 37.0                                                                              | 19.0                                                                              | 63.0                                                                              | 44.0                                                                              | 44.0                                                                              |
| Total Split (%)         | 37.0%                                                                             | 37.0%                                                                             | 19.0%                                                                             | 63.0%                                                                             | 44.0%                                                                             | 44.0%                                                                             |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               |
| Lead/Lag                |                                                                                   |                                                                                   | Lead                                                                              |                                                                                   | Lag                                                                               | Lag                                                                               |
| Lead-Lag Optimize?      |                                                                                   |                                                                                   | Yes                                                                               |                                                                                   | Yes                                                                               | Yes                                                                               |
| Recall Mode             | None                                                                              | None                                                                              | None                                                                              | C-Min                                                                             | C-Min                                                                             | C-Min                                                                             |
| v/c Ratio               | 0.92                                                                              | 0.39                                                                              | 0.88                                                                              | 0.30                                                                              | 0.79                                                                              | 0.27                                                                              |
| Control Delay           | 58.5                                                                              | 5.1                                                                               | 54.2                                                                              | 11.6                                                                              | 36.2                                                                              | 3.9                                                                               |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Delay             | 58.5                                                                              | 5.1                                                                               | 54.2                                                                              | 11.6                                                                              | 36.2                                                                              | 3.9                                                                               |
| Queue Length 50th (ft)  | 305                                                                               | 0                                                                                 | 165                                                                               | 79                                                                                | 325                                                                               | 0                                                                                 |
| Queue Length 95th (ft)  | #493                                                                              | 55                                                                                | #294                                                                              | 154                                                                               | #483                                                                              | 44                                                                                |
| Internal Link Dist (ft) |                                                                                   |                                                                                   |                                                                                   | 717                                                                               | 2898                                                                              |                                                                                   |
| Turn Bay Length (ft)    |                                                                                   | 400                                                                               | 210                                                                               |                                                                                   |                                                                                   | 345                                                                               |
| Base Capacity (vph)     | 568                                                                               | 679                                                                               | 380                                                                               | 1073                                                                              | 740                                                                               | 753                                                                               |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Reduced v/c Ratio       | 0.89                                                                              | 0.38                                                                              | 0.88                                                                              | 0.30                                                                              | 0.79                                                                              | 0.27                                                                              |

## Intersection Summary

Cycle Length: 100  
 Actuated Cycle Length: 100  
 Offset: 0 (0%), Referenced to phase 2:SBT and 6:NBT, Start of Green  
 Natural Cycle: 90  
 Control Type: Actuated-Coordinated  
 # 95th percentile volume exceeds capacity, queue may be longer.  
 Queue shown is maximum after two cycles.

## Splits and Phases: 7: Post Rd & I-20 WB Ramps



# HCM 6th Signalized Intersection Summary

## 7: Post Rd & I-20 WB Ramps

3b. Build 2035 PM

02/20/2025

|                                                                                                               |  |      |     |                                                                                   |      |                                                                                     |                                                                                     |                                                                                     |      |      |                                                                                     |                                                                                     |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------|-----|-----------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                                                                                                      | EBL                                                                                | EBT  | EBR | WBL                                                                               | WBT  | WBR                                                                                 | NBL                                                                                 | NBT                                                                                 | NBR  | SBL  | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations                                                                                           |                                                                                    |      |     |  |      |  |  |  |      |      |  |  |
| Traffic Volume (veh/h)                                                                                        | 0                                                                                  | 0    | 0   | 490                                                                               | 0    | 248                                                                                 | 323                                                                                 | 312                                                                                 | 0    | 0    | 565                                                                                 | 199                                                                                 |
| Future Volume (veh/h)                                                                                         | 0                                                                                  | 0    | 0   | 490                                                                               | 0    | 248                                                                                 | 323                                                                                 | 312                                                                                 | 0    | 0    | 565                                                                                 | 199                                                                                 |
| Initial Q (Qb), veh                                                                                           |                                                                                    |      |     | 0                                                                                 | 0    | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0    | 0    | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)                                                                                           |                                                                                    |      |     | 1.00                                                                              |      | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00 | 1.00 |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj                                                                                              |                                                                                    |      |     | 1.00                                                                              | 1.00 | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00 | 1.00 | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach                                                                                         |                                                                                    |      |     | No                                                                                |      |                                                                                     | No                                                                                  |                                                                                     |      |      | No                                                                                  |                                                                                     |
| Adj Sat Flow, veh/h/ln                                                                                        |                                                                                    |      |     | 1900                                                                              | 0    | 1885                                                                                | 1885                                                                                | 1841                                                                                | 0    | 0    | 1885                                                                                | 1885                                                                                |
| Adj Flow Rate, veh/h                                                                                          |                                                                                    |      |     | 505                                                                               | 0    | 0                                                                                   | 333                                                                                 | 322                                                                                 | 0    | 0    | 582                                                                                 | 0                                                                                   |
| Peak Hour Factor                                                                                              |                                                                                    |      |     | 0.97                                                                              | 0.97 | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97 | 0.97 | 0.97                                                                                | 0.97                                                                                |
| Percent Heavy Veh, %                                                                                          |                                                                                    |      |     | 0                                                                                 | 0    | 1                                                                                   | 1                                                                                   | 4                                                                                   | 0    | 0    | 1                                                                                   | 1                                                                                   |
| Cap, veh/h                                                                                                    |                                                                                    |      |     | 537                                                                               | 0    |                                                                                     | 422                                                                                 | 1092                                                                                | 0    | 0    | 784                                                                                 |                                                                                     |
| Arrive On Green                                                                                               |                                                                                    |      |     | 0.30                                                                              | 0.00 | 0.00                                                                                | 0.12                                                                                | 0.59                                                                                | 0.00 | 0.00 | 0.42                                                                                | 0.00                                                                                |
| Sat Flow, veh/h                                                                                               |                                                                                    |      |     | 1810                                                                              | 0    | 1598                                                                                | 1795                                                                                | 1841                                                                                | 0    | 0    | 1885                                                                                | 1598                                                                                |
| Grp Volume(v), veh/h                                                                                          |                                                                                    |      |     | 505                                                                               | 0    | 0                                                                                   | 333                                                                                 | 322                                                                                 | 0    | 0    | 582                                                                                 | 0                                                                                   |
| Grp Sat Flow(s),veh/h/ln                                                                                      |                                                                                    |      |     | 1810                                                                              | 0    | 1598                                                                                | 1795                                                                                | 1841                                                                                | 0    | 0    | 1885                                                                                | 1598                                                                                |
| Q Serve(g_s), s                                                                                               |                                                                                    |      |     | 27.2                                                                              | 0.0  | 0.0                                                                                 | 10.1                                                                                | 8.6                                                                                 | 0.0  | 0.0  | 26.1                                                                                | 0.0                                                                                 |
| Cycle Q Clear(g_c), s                                                                                         |                                                                                    |      |     | 27.2                                                                              | 0.0  | 0.0                                                                                 | 10.1                                                                                | 8.6                                                                                 | 0.0  | 0.0  | 26.1                                                                                | 0.0                                                                                 |
| Prop In Lane                                                                                                  |                                                                                    |      |     | 1.00                                                                              |      | 1.00                                                                                | 1.00                                                                                |                                                                                     | 0.00 | 0.00 |                                                                                     | 1.00                                                                                |
| Lane Grp Cap(c), veh/h                                                                                        |                                                                                    |      |     | 537                                                                               | 0    |                                                                                     | 422                                                                                 | 1092                                                                                | 0    | 0    | 784                                                                                 |                                                                                     |
| V/C Ratio(X)                                                                                                  |                                                                                    |      |     | 0.94                                                                              | 0.00 |                                                                                     | 0.79                                                                                | 0.29                                                                                | 0.00 | 0.00 | 0.74                                                                                |                                                                                     |
| Avail Cap(c_a), veh/h                                                                                         |                                                                                    |      |     | 570                                                                               | 0    |                                                                                     | 445                                                                                 | 1092                                                                                | 0    | 0    | 784                                                                                 |                                                                                     |
| HCM Platoon Ratio                                                                                             |                                                                                    |      |     | 1.00                                                                              | 1.00 | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00 | 1.00 | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)                                                                                            |                                                                                    |      |     | 1.00                                                                              | 0.00 | 0.00                                                                                | 0.80                                                                                | 0.80                                                                                | 0.00 | 0.00 | 0.86                                                                                | 0.00                                                                                |
| Uniform Delay (d), s/veh                                                                                      |                                                                                    |      |     | 34.3                                                                              | 0.0  | 0.0                                                                                 | 18.4                                                                                | 10.0                                                                                | 0.0  | 0.0  | 24.7                                                                                | 0.0                                                                                 |
| Incr Delay (d2), s/veh                                                                                        |                                                                                    |      |     | 23.3                                                                              | 0.0  | 0.0                                                                                 | 7.2                                                                                 | 0.6                                                                                 | 0.0  | 0.0  | 5.4                                                                                 | 0.0                                                                                 |
| Initial Q Delay(d3),s/veh                                                                                     |                                                                                    |      |     | 0.0                                                                               | 0.0  | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0  | 0.0  | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln                                                                                      |                                                                                    |      |     | 15.1                                                                              | 0.0  | 0.0                                                                                 | 4.4                                                                                 | 3.2                                                                                 | 0.0  | 0.0  | 11.8                                                                                | 0.0                                                                                 |
| Unsig. Movement Delay, s/veh                                                                                  |                                                                                    |      |     |                                                                                   |      |                                                                                     |                                                                                     |                                                                                     |      |      |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh                                                                                          |                                                                                    |      |     | 57.6                                                                              | 0.0  | 0.0                                                                                 | 25.7                                                                                | 10.6                                                                                | 0.0  | 0.0  | 30.1                                                                                | 0.0                                                                                 |
| LnGrp LOS                                                                                                     |                                                                                    |      |     | E                                                                                 | A    |                                                                                     | C                                                                                   | B                                                                                   | A    | A    | C                                                                                   |                                                                                     |
| Approach Vol, veh/h                                                                                           |                                                                                    |      |     |                                                                                   | 505  |                                                                                     |                                                                                     | 655                                                                                 |      |      | 582                                                                                 |                                                                                     |
| Approach Delay, s/veh                                                                                         |                                                                                    |      |     |                                                                                   | 57.6 |                                                                                     |                                                                                     | 18.3                                                                                |      |      | 30.1                                                                                |                                                                                     |
| Approach LOS                                                                                                  |                                                                                    |      |     |                                                                                   | E    |                                                                                     |                                                                                     | B                                                                                   |      |      | C                                                                                   |                                                                                     |
| Timer - Assigned Phs                                                                                          | 1                                                                                  | 2    |     |                                                                                   |      | 6                                                                                   |                                                                                     | 8                                                                                   |      |      |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s                                                                                      | 17.7                                                                               | 47.1 |     |                                                                                   |      | 64.8                                                                                |                                                                                     | 35.2                                                                                |      |      |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s                                                                                       | 5.5                                                                                | 5.5  |     |                                                                                   |      | 5.5                                                                                 |                                                                                     | 5.5                                                                                 |      |      |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s                                                                                   | 13.5                                                                               | 38.5 |     |                                                                                   |      | 57.5                                                                                |                                                                                     | 31.5                                                                                |      |      |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s                                                                                  | 12.1                                                                               | 28.1 |     |                                                                                   |      | 10.6                                                                                |                                                                                     | 29.2                                                                                |      |      |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s                                                                                       | 0.2                                                                                | 4.3  |     |                                                                                   |      | 3.9                                                                                 |                                                                                     | 0.5                                                                                 |      |      |                                                                                     |                                                                                     |
| <b>Intersection Summary</b>                                                                                   |                                                                                    |      |     |                                                                                   |      |                                                                                     |                                                                                     |                                                                                     |      |      |                                                                                     |                                                                                     |
| HCM 6th Ctrl Delay                                                                                            |                                                                                    |      |     | 33.6                                                                              |      |                                                                                     |                                                                                     |                                                                                     |      |      |                                                                                     |                                                                                     |
| HCM 6th LOS                                                                                                   |                                                                                    |      |     | C                                                                                 |      |                                                                                     |                                                                                     |                                                                                     |      |      |                                                                                     |                                                                                     |
| <b>Notes</b>                                                                                                  |                                                                                    |      |     |                                                                                   |      |                                                                                     |                                                                                     |                                                                                     |      |      |                                                                                     |                                                                                     |
| Unsignalized Delay for [WBR, SBR] is excluded from calculations of the approach delay and intersection delay. |                                                                                    |      |     |                                                                                   |      |                                                                                     |                                                                                     |                                                                                     |      |      |                                                                                     |                                                                                     |

Timings  
8: Post Rd & I-20 EB Ramps

3b. Build 2035 PM  
02/20/2025

|                         |  |  |  |  |  |  |
|-------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Lane Group              | EBL                                                                               | EBR                                                                               | NBT                                                                               | NBR                                                                               | SBL                                                                               | SBT                                                                               |
| Lane Configurations     |  |  |  |  |  |  |
| Traffic Volume (vph)    | 128                                                                               | 348                                                                               | 588                                                                               | 278                                                                               | 206                                                                               | 855                                                                               |
| Future Volume (vph)     | 128                                                                               | 348                                                                               | 588                                                                               | 278                                                                               | 206                                                                               | 855                                                                               |
| Lane Group Flow (vph)   | 136                                                                               | 370                                                                               | 626                                                                               | 296                                                                               | 219                                                                               | 910                                                                               |
| Turn Type               | Prot                                                                              | Perm                                                                              | NA                                                                                | Perm                                                                              | pm+pt                                                                             | NA                                                                                |
| Protected Phases        | 7                                                                                 |                                                                                   | 6                                                                                 |                                                                                   | 5                                                                                 | 2                                                                                 |
| Permitted Phases        |                                                                                   | 4                                                                                 |                                                                                   | 6                                                                                 | 2                                                                                 |                                                                                   |
| Detector Phase          | 7                                                                                 | 4                                                                                 | 6                                                                                 | 6                                                                                 | 5                                                                                 | 2                                                                                 |
| Switch Phase            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| Minimum Initial (s)     | 5.0                                                                               | 6.0                                                                               | 15.0                                                                              | 15.0                                                                              | 5.0                                                                               | 15.0                                                                              |
| Minimum Split (s)       | 15.0                                                                              | 23.5                                                                              | 23.5                                                                              | 23.5                                                                              | 15.0                                                                              | 23.5                                                                              |
| Total Split (s)         | 31.0                                                                              | 31.0                                                                              | 54.0                                                                              | 54.0                                                                              | 15.0                                                                              | 69.0                                                                              |
| Total Split (%)         | 31.0%                                                                             | 31.0%                                                                             | 54.0%                                                                             | 54.0%                                                                             | 15.0%                                                                             | 69.0%                                                                             |
| Yellow Time (s)         | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               | 3.5                                                                               |
| All-Red Time (s)        | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               | 2.0                                                                               |
| Lost Time Adjust (s)    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| Total Lost Time (s)     | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               | 5.5                                                                               |
| Lead/Lag                |                                                                                   |                                                                                   | Lag                                                                               | Lag                                                                               | Lead                                                                              |                                                                                   |
| Lead-Lag Optimize?      |                                                                                   |                                                                                   | Yes                                                                               | Yes                                                                               | Yes                                                                               |                                                                                   |
| Recall Mode             | None                                                                              | None                                                                              | C-Min                                                                             | C-Min                                                                             | None                                                                              | C-Min                                                                             |
| v/c Ratio               | 0.44                                                                              | 0.86                                                                              | 0.60                                                                              | 0.29                                                                              | 0.47                                                                              | 0.68                                                                              |
| Control Delay           | 39.0                                                                              | 39.8                                                                              | 19.5                                                                              | 2.5                                                                               | 8.7                                                                               | 12.1                                                                              |
| Queue Delay             | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.2                                                                               |
| Total Delay             | 39.0                                                                              | 39.8                                                                              | 19.5                                                                              | 2.5                                                                               | 8.7                                                                               | 12.3                                                                              |
| Queue Length 50th (ft)  | 77                                                                                | 128                                                                               | 258                                                                               | 0                                                                                 | 55                                                                                | 301                                                                               |
| Queue Length 95th (ft)  | 125                                                                               | 225                                                                               | 427                                                                               | 42                                                                                | m86                                                                               | m365                                                                              |
| Internal Link Dist (ft) |                                                                                   |                                                                                   | 1742                                                                              |                                                                                   |                                                                                   | 717                                                                               |
| Turn Bay Length (ft)    |                                                                                   | 340                                                                               |                                                                                   | 390                                                                               | 275                                                                               |                                                                                   |
| Base Capacity (vph)     | 422                                                                               | 531                                                                               | 1048                                                                              | 1031                                                                              | 472                                                                               | 1337                                                                              |
| Starvation Cap Reductn  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 53                                                                                |
| Spillback Cap Reductn   | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Storage Cap Reductn     | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Reduced v/c Ratio       | 0.32                                                                              | 0.70                                                                              | 0.60                                                                              | 0.29                                                                              | 0.46                                                                              | 0.71                                                                              |

Intersection Summary

Cycle Length: 100

Actuated Cycle Length: 100

Offset: 0 (0%), Referenced to phase 2:SBTL and 6:NBT, Start of Green

Natural Cycle: 70

Control Type: Actuated-Coordinated

m Volume for 95th percentile queue is metered by upstream signal.

Splits and Phases: 8: Post Rd & I-20 EB Ramps



# HCM 6th Signalized Intersection Summary 8: Post Rd & I-20 EB Ramps

3b. Build 2035 PM  
02/20/2025

|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |                                                                                   |  |                                                                                   |                                                                                   |                                                                                   |                                                                                    |  |  |  |  |                                                                                     |
| Traffic Volume (veh/h)       | 128                                                                               | 0                                                                                 | 348                                                                               | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                  | 588                                                                                 | 278                                                                                 | 206                                                                                 | 855                                                                                 | 0                                                                                   |
| Future Volume (veh/h)        | 128                                                                               | 0                                                                                 | 348                                                                               | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                  | 588                                                                                 | 278                                                                                 | 206                                                                                 | 855                                                                                 | 0                                                                                   |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                               |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                               | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | No                                                                                 |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1767                                                                              | 0                                                                                 | 1885                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1885                                                                                | 1900                                                                                | 1870                                                                                | 1900                                                                                | 0                                                                                   |
| Adj Flow Rate, veh/h         | 136                                                                               | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 626                                                                                 | 0                                                                                   | 219                                                                                 | 910                                                                                 | 0                                                                                   |
| Peak Hour Factor             | 0.94                                                                              | 0.94                                                                              | 0.94                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.94                                                                               | 0.94                                                                                | 0.94                                                                                | 0.94                                                                                | 0.94                                                                                | 0.94                                                                                |
| Percent Heavy Veh, %         | 9                                                                                 | 0                                                                                 | 1                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1                                                                                   | 0                                                                                   | 2                                                                                   | 0                                                                                   | 0                                                                                   |
| Cap, veh/h                   | 168                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1274                                                                                |                                                                                     | 589                                                                                 | 1501                                                                                | 0                                                                                   |
| Arrive On Green              | 0.10                                                                              | 0.00                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                               | 0.68                                                                                | 0.00                                                                                | 0.12                                                                                | 1.00                                                                                | 0.00                                                                                |
| Sat Flow, veh/h              | 1682                                                                              | 0                                                                                 | 1598                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1885                                                                                | 1610                                                                                | 1781                                                                                | 1900                                                                                | 0                                                                                   |
| Grp Volume(v), veh/h         | 136                                                                               | 0                                                                                 | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 626                                                                                 | 0                                                                                   | 219                                                                                 | 910                                                                                 | 0                                                                                   |
| Grp Sat Flow(s),veh/h/ln     | 1682                                                                              | 0                                                                                 | 1598                                                                              |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1885                                                                                | 1610                                                                                | 1781                                                                                | 1900                                                                                | 0                                                                                   |
| Q Serve(g_s), s              | 7.9                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 16.1                                                                                | 0.0                                                                                 | 3.7                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Cycle Q Clear(g_c), s        | 7.9                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 16.1                                                                                | 0.0                                                                                 | 3.7                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                               |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 0.00                                                                                |
| Lane Grp Cap(c), veh/h       | 168                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1274                                                                                |                                                                                     | 589                                                                                 | 1501                                                                                | 0                                                                                   |
| V/C Ratio(X)                 | 0.81                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                               | 0.49                                                                                |                                                                                     | 0.37                                                                                | 0.61                                                                                | 0.00                                                                                |
| Avail Cap(c_a), veh/h        | 429                                                                               | 0                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0                                                                                  | 1274                                                                                |                                                                                     | 653                                                                                 | 1501                                                                                | 0                                                                                   |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 1.00                                                                               | 1.00                                                                                | 1.00                                                                                | 2.00                                                                                | 2.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 0.00                                                                              | 0.00                                                                              |                                                                                   |                                                                                   |                                                                                   | 0.00                                                                               | 1.00                                                                                | 0.00                                                                                | 0.41                                                                                | 0.41                                                                                | 0.00                                                                                |
| Uniform Delay (d), s/veh     | 44.1                                                                              | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 7.9                                                                                 | 0.0                                                                                 | 5.3                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| Incr Delay (d2), s/veh       | 8.9                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 1.4                                                                                 | 0.0                                                                                 | 0.2                                                                                 | 0.8                                                                                 | 0.0                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 3.7                                                                               | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 5.6                                                                                 | 0.0                                                                                 | 0.8                                                                                 | 0.3                                                                                 | 0.0                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 53.0                                                                              | 0.0                                                                               | 0.0                                                                               |                                                                                   |                                                                                   |                                                                                   | 0.0                                                                                | 9.2                                                                                 | 0.0                                                                                 | 5.5                                                                                 | 0.8                                                                                 | 0.0                                                                                 |
| LnGrp LOS                    | D                                                                                 | A                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | A                                                                                  | A                                                                                   |                                                                                     | A                                                                                   | A                                                                                   | A                                                                                   |
| Approach Vol, veh/h          | 136                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 626                                                                                |                                                                                     |                                                                                     | 1129                                                                                |                                                                                     |                                                                                     |
| Approach Delay, s/veh        | 53.0                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 9.2                                                                                |                                                                                     |                                                                                     | 1.7                                                                                 |                                                                                     |                                                                                     |
| Approach LOS                 | D                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | A                                                                                  |                                                                                     |                                                                                     | A                                                                                   |                                                                                     |                                                                                     |
| Timer - Assigned Phs         | 2                                                                                 |                                                                                   |                                                                                   | 4                                                                                 |                                                                                   |                                                                                   | 5                                                                                  |                                                                                     |                                                                                     | 6                                                                                   |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 84.5                                                                              |                                                                                   |                                                                                   | 15.5                                                                              |                                                                                   |                                                                                   | 11.4                                                                               |                                                                                     |                                                                                     | 73.1                                                                                |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 5.5                                                                               |                                                                                   |                                                                                   | 5.5                                                                               |                                                                                   |                                                                                   | 5.5                                                                                |                                                                                     |                                                                                     | 5.5                                                                                 |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 63.5                                                                              |                                                                                   |                                                                                   | 25.5                                                                              |                                                                                   |                                                                                   | 9.5                                                                                |                                                                                     |                                                                                     | 48.5                                                                                |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 2.0                                                                               |                                                                                   |                                                                                   | 9.9                                                                               |                                                                                   |                                                                                   | 5.7                                                                                |                                                                                     |                                                                                     | 18.1                                                                                |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 19.1                                                                              |                                                                                   |                                                                                   | 0.3                                                                               |                                                                                   |                                                                                   | 0.2                                                                                |                                                                                     |                                                                                     | 8.4                                                                                 |                                                                                     |                                                                                     |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th Ctrl Delay           | 7.9                                                                               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th LOS                  | A                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

| Intersection             |                                                                                   |      |      |                                                                                   |                                                                                   |      |
|--------------------------|-----------------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| Int Delay, s/veh         | 6.2                                                                               |      |      |                                                                                   |                                                                                   |      |
| Movement                 | EBL                                                                               | EBR  | NBL  | NBT                                                                               | SBT                                                                               | SBR  |
| Lane Configurations      |  |      |      |  |  |      |
| Traffic Vol, veh/h       | 5                                                                                 | 35   | 15   | 8                                                                                 | 7                                                                                 | 2    |
| Future Vol, veh/h        | 5                                                                                 | 35   | 15   | 8                                                                                 | 7                                                                                 | 2    |
| Conflicting Peds, #/hr   | 0                                                                                 | 0    | 0    | 0                                                                                 | 0                                                                                 | 0    |
| Sign Control             | Stop                                                                              | Stop | Free | Free                                                                              | Free                                                                              | Free |
| RT Channelized           | -                                                                                 | None | -    | None                                                                              | -                                                                                 | None |
| Storage Length           | 0                                                                                 | -    | -    | -                                                                                 | -                                                                                 | -    |
| Veh in Median Storage, # | 0                                                                                 | -    | -    | 0                                                                                 | 0                                                                                 | -    |
| Grade, %                 | 0                                                                                 | -    | -    | 0                                                                                 | 0                                                                                 | -    |
| Peak Hour Factor         | 92                                                                                | 92   | 92   | 92                                                                                | 92                                                                                | 92   |
| Heavy Vehicles, %        | 0                                                                                 | 0    | 0    | 0                                                                                 | 0                                                                                 | 0    |
| Mvmt Flow                | 5                                                                                 | 38   | 16   | 9                                                                                 | 8                                                                                 | 2    |

| Major/Minor          | Minor2 | Major1 |      | Major2 |   |   |
|----------------------|--------|--------|------|--------|---|---|
| Conflicting Flow All | 50     | 9      | 10   | 0      | - | 0 |
| Stage 1              | 9      | -      | -    | -      | - | - |
| Stage 2              | 41     | -      | -    | -      | - | - |
| Critical Hdwy        | 6.4    | 6.2    | 4.1  | -      | - | - |
| Critical Hdwy Stg 1  | 5.4    | -      | -    | -      | - | - |
| Critical Hdwy Stg 2  | 5.4    | -      | -    | -      | - | - |
| Follow-up Hdwy       | 3.5    | 3.3    | 2.2  | -      | - | - |
| Pot Cap-1 Maneuver   | 964    | 1079   | 1623 | -      | - | - |
| Stage 1              | 1019   | -      | -    | -      | - | - |
| Stage 2              | 987    | -      | -    | -      | - | - |
| Platoon blocked, %   |        |        |      | -      | - | - |
| Mov Cap-1 Maneuver   | 954    | 1079   | 1623 | -      | - | - |
| Mov Cap-2 Maneuver   | 954    | -      | -    | -      | - | - |
| Stage 1              | 1009   | -      | -    | -      | - | - |
| Stage 2              | 987    | -      | -    | -      | - | - |

| Approach             | EB  | NB  | SB |
|----------------------|-----|-----|----|
| HCM Control Delay, s | 8.5 | 4.7 | 0  |
| HCM LOS              | A   |     |    |

| Minor Lane/Major Mvmt | NBL  | NBT | EBLn1 | SBT | SBR |
|-----------------------|------|-----|-------|-----|-----|
| Capacity (veh/h)      | 1623 | -   | 1062  | -   | -   |
| HCM Lane V/C Ratio    | 0.01 | -   | 0.041 | -   | -   |
| HCM Control Delay (s) | 7.2  | 0   | 8.5   | -   | -   |
| HCM Lane LOS          | A    | A   | A     | -   | -   |
| HCM 95th %tile Q(veh) | 0    | -   | 0.1   | -   | -   |

| Intersection             |                                                                                   |      |                                                                                   |      |      |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|------|------|-----------------------------------------------------------------------------------|
| Int Delay, s/veh         | 7.2                                                                               |      |                                                                                   |      |      |                                                                                   |
| Movement                 | WBL                                                                               | WBR  | NBT                                                                               | NBR  | SBL  | SBT                                                                               |
| Lane Configurations      |  |      |  |      |      |  |
| Traffic Vol, veh/h       | 0                                                                                 | 60   | 6                                                                                 | 0    | 26   | 6                                                                                 |
| Future Vol, veh/h        | 0                                                                                 | 60   | 6                                                                                 | 0    | 26   | 6                                                                                 |
| Conflicting Peds, #/hr   | 0                                                                                 | 0    | 0                                                                                 | 0    | 0    | 0                                                                                 |
| Sign Control             | Stop                                                                              | Stop | Free                                                                              | Free | Free | Free                                                                              |
| RT Channelized           | -                                                                                 | None | -                                                                                 | None | -    | None                                                                              |
| Storage Length           | 0                                                                                 | -    | -                                                                                 | -    | -    | -                                                                                 |
| Veh in Median Storage, # | 0                                                                                 | -    | 0                                                                                 | -    | -    | 0                                                                                 |
| Grade, %                 | 0                                                                                 | -    | 0                                                                                 | -    | -    | 0                                                                                 |
| Peak Hour Factor         | 92                                                                                | 92   | 92                                                                                | 92   | 92   | 92                                                                                |
| Heavy Vehicles, %        | 2                                                                                 | 2    | 2                                                                                 | 2    | 2    | 2                                                                                 |
| Mvmt Flow                | 0                                                                                 | 65   | 7                                                                                 | 0    | 28   | 7                                                                                 |

| Major/Minor          | Minor1 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 70     | 7      | 0      |
| Stage 1              | 7      | -      | -      |
| Stage 2              | 63     | -      | -      |
| Critical Hdwy        | 6.42   | 6.22   | -      |
| Critical Hdwy Stg 1  | 5.42   | -      | -      |
| Critical Hdwy Stg 2  | 5.42   | -      | -      |
| Follow-up Hdwy       | 3.518  | 3.318  | -      |
| Pot Cap-1 Maneuver   | 934    | 1075   | -      |
| Stage 1              | 1016   | -      | -      |
| Stage 2              | 960    | -      | -      |
| Platoon blocked, %   |        | -      | -      |
| Mov Cap-1 Maneuver   | 918    | 1075   | -      |
| Mov Cap-2 Maneuver   | 918    | -      | -      |
| Stage 1              | 1016   | -      | -      |
| Stage 2              | 944    | -      | -      |

| Approach             | WB  | NB | SB  |
|----------------------|-----|----|-----|
| HCM Control Delay, s | 8.6 | 0  | 5.9 |
| HCM LOS              | A   |    |     |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL   | SBT   |
|-----------------------|-----|----------|-------|-------|
| Capacity (veh/h)      | -   | -        | 1075  | 1614  |
| HCM Lane V/C Ratio    | -   | -        | 0.061 | 0.018 |
| HCM Control Delay (s) | -   | -        | 8.6   | 7.3   |
| HCM Lane LOS          | -   | -        | A     | A     |
| HCM 95th %tile Q(veh) | -   | -        | 0.2   | 0.1   |

Intersection: 3: S. Baggett Rd/N. Baggett Rd & SR 8/US 78 (Veterans Memorial Hwy)

| Movement              | EB   | WB  | NB   | SB  |
|-----------------------|------|-----|------|-----|
| Directions Served     | LTR  | LTR | LTR  | LTR |
| Maximum Queue (ft)    | 483  | 49  | 100  | 87  |
| Average Queue (ft)    | 84   | 35  | 37   | 27  |
| 95th Queue (ft)       | 308  | 52  | 80   | 68  |
| Link Distance (ft)    | 3487 | 31  | 1042 | 733 |
| Upstream Blk Time (%) | 8    |     |      |     |
| Queuing Penalty (veh) | 29   |     |      |     |
| Storage Bay Dist (ft) |      |     |      |     |
| Storage Blk Time (%)  |      |     |      |     |
| Queuing Penalty (veh) |      |     |      |     |

Intersection: 9: N. Baggett Rd & Site Drwy 1

| Movement              | EB  |
|-----------------------|-----|
| Directions Served     | LR  |
| Maximum Queue (ft)    | 31  |
| Average Queue (ft)    | 19  |
| 95th Queue (ft)       | 43  |
| Link Distance (ft)    | 696 |
| Upstream Blk Time (%) |     |
| Queuing Penalty (veh) |     |
| Storage Bay Dist (ft) |     |
| Storage Blk Time (%)  |     |
| Queuing Penalty (veh) |     |

Zone Summary

|                               |
|-------------------------------|
| Zone wide Queuing Penalty: 29 |
|-------------------------------|

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Intersection: 3: S. Baggett Rd/N. Baggett Rd & SR 8/US 78 (Veterans Memorial Hwy)

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| Movement              | EB   | WB  | NB   | SB  |
|-----------------------|------|-----|------|-----|
| Directions Served     | LTR  | LTR | LTR  | LTR |
| Maximum Queue (ft)    | 238  | 42  | 54   | 62  |
| Average Queue (ft)    | 42   | 18  | 27   | 21  |
| 95th Queue (ft)       | 151  | 43  | 57   | 45  |
| Link Distance (ft)    | 3487 | 31  | 1042 | 733 |
| Upstream Blk Time (%) |      | 2   |      |     |
| Queuing Penalty (veh) |      | 15  |      |     |
| Storage Bay Dist (ft) |      |     |      |     |
| Storage Blk Time (%)  |      |     |      |     |
| Queuing Penalty (veh) |      |     |      |     |

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Intersection: 9: N. Baggett Rd & Site Drwy 1

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| Movement              | EB  |
|-----------------------|-----|
| Directions Served     | LR  |
| Maximum Queue (ft)    | 53  |
| Average Queue (ft)    | 22  |
| 95th Queue (ft)       | 44  |
| Link Distance (ft)    | 696 |
| Upstream Blk Time (%) |     |
| Queuing Penalty (veh) |     |
| Storage Bay Dist (ft) |     |
| Storage Blk Time (%)  |     |
| Queuing Penalty (veh) |     |

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Zone Summary

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Zone wide Queuing Penalty: 15

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## **Future “Build” Intersections Analysis with Improvements**

Timings  
6: John West Rd & SR 8/US 78 (Veterans Memorial Hwy)

4 a. Build 2035 Improved AM

02/27/2025



| Lane Group              | EBT   | WBL   | WBT   | NBL   |
|-------------------------|-------|-------|-------|-------|
| Lane Configurations     | →     | ↰     | →     | ↰     |
| Traffic Volume (vph)    | 619   | 7     | 285   | 87    |
| Future Volume (vph)     | 619   | 7     | 285   | 87    |
| Lane Group Flow (vph)   | 796   | 0     | 321   | 108   |
| Turn Type               | NA    | Perm  | NA    | Prot  |
| Protected Phases        | 4     |       | 8     | 2     |
| Permitted Phases        |       | 8     |       |       |
| Detector Phase          | 4     | 8     | 8     | 2     |
| Switch Phase            |       |       |       |       |
| Minimum Initial (s)     | 5.0   | 5.0   | 5.0   | 5.0   |
| Minimum Split (s)       | 23.5  | 23.5  | 23.5  | 23.5  |
| Total Split (s)         | 74.0  | 74.0  | 74.0  | 26.0  |
| Total Split (%)         | 74.0% | 74.0% | 74.0% | 26.0% |
| Yellow Time (s)         | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)    | 0.0   |       | 0.0   | 0.0   |
| Total Lost Time (s)     | 5.5   |       | 5.5   | 5.5   |
| Lead/Lag                |       |       |       |       |
| Lead-Lag Optimize?      |       |       |       |       |
| Recall Mode             | None  | None  | None  | Min   |
| v/c Ratio               | 0.78  |       | 0.34  | 0.33  |
| Control Delay           | 13.9  |       | 6.3   | 22.6  |
| Queue Delay             | 0.0   |       | 0.0   | 0.0   |
| Total Delay             | 13.9  |       | 6.3   | 22.6  |
| Queue Length 50th (ft)  | 132   |       | 37    | 24    |
| Queue Length 95th (ft)  | 296   |       | 85    | 81    |
| Internal Link Dist (ft) | 31    |       | 1982  | 873   |
| Turn Bay Length (ft)    |       |       |       |       |
| Base Capacity (vph)     | 1745  |       | 1631  | 813   |
| Starvation Cap Reductn  | 0     |       | 0     | 0     |
| Spillback Cap Reductn   | 0     |       | 0     | 0     |
| Storage Cap Reductn     | 0     |       | 0     | 0     |
| Reduced v/c Ratio       | 0.46  |       | 0.20  | 0.13  |

Intersection Summary

Cycle Length: 100

Actuated Cycle Length: 48.5

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

Splits and Phases: 6: John West Rd & SR 8/US 78 (Veterans Memorial Hwy)



HCM 6th Signalized Intersection Summary  
6: John West Rd & SR 8/US 78 (Veterans Memorial Hwy)

4 a. Build 2035 Improved AM

02/27/2025

|                                                                      |  |  |  |  |  |  |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Movement                                                             | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | NBL                                                                               | NBR                                                                               |
| Lane Configurations                                                  |  |                                                                                   |                                                                                   |  |  |                                                                                   |
| Traffic Volume (veh/h)                                               | 619                                                                               | 106                                                                               | 7                                                                                 | 285                                                                               | 87                                                                                | 11                                                                                |
| Future Volume (veh/h)                                                | 619                                                                               | 106                                                                               | 7                                                                                 | 285                                                                               | 87                                                                                | 11                                                                                |
| Initial Q (Qb), veh                                                  | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Ped-Bike Adj(A_pbT)                                                  |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |
| Parking Bus, Adj                                                     | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Work Zone On Approach                                                | No                                                                                |                                                                                   |                                                                                   | No                                                                                | No                                                                                |                                                                                   |
| Adj Sat Flow, veh/h/ln                                               | 1796                                                                              | 1885                                                                              | 1900                                                                              | 1693                                                                              | 1900                                                                              | 1900                                                                              |
| Adj Flow Rate, veh/h                                                 | 680                                                                               | 116                                                                               | 8                                                                                 | 313                                                                               | 96                                                                                | 12                                                                                |
| Peak Hour Factor                                                     | 0.91                                                                              | 0.91                                                                              | 0.91                                                                              | 0.91                                                                              | 0.91                                                                              | 0.91                                                                              |
| Percent Heavy Veh, %                                                 | 7                                                                                 | 1                                                                                 | 0                                                                                 | 14                                                                                | 0                                                                                 | 0                                                                                 |
| Cap, veh/h                                                           | 863                                                                               | 147                                                                               | 104                                                                               | 960                                                                               | 208                                                                               | 26                                                                                |
| Arrive On Green                                                      | 0.58                                                                              | 0.58                                                                              | 0.58                                                                              | 0.58                                                                              | 0.13                                                                              | 0.13                                                                              |
| Sat Flow, veh/h                                                      | 1495                                                                              | 255                                                                               | 10                                                                                | 1664                                                                              | 1573                                                                              | 197                                                                               |
| Grp Volume(v), veh/h                                                 | 0                                                                                 | 796                                                                               | 321                                                                               | 0                                                                                 | 109                                                                               | 0                                                                                 |
| Grp Sat Flow(s),veh/h/ln                                             | 0                                                                                 | 1750                                                                              | 1674                                                                              | 0                                                                                 | 1786                                                                              | 0                                                                                 |
| Q Serve(g_s), s                                                      | 0.0                                                                               | 13.3                                                                              | 0.0                                                                               | 0.0                                                                               | 2.1                                                                               | 0.0                                                                               |
| Cycle Q Clear(g_c), s                                                | 0.0                                                                               | 13.3                                                                              | 3.7                                                                               | 0.0                                                                               | 2.1                                                                               | 0.0                                                                               |
| Prop In Lane                                                         |                                                                                   | 0.15                                                                              | 0.02                                                                              |                                                                                   | 0.88                                                                              | 0.11                                                                              |
| Lane Grp Cap(c), veh/h                                               | 0                                                                                 | 1010                                                                              | 1063                                                                              | 0                                                                                 | 236                                                                               | 0                                                                                 |
| V/C Ratio(X)                                                         | 0.00                                                                              | 0.79                                                                              | 0.30                                                                              | 0.00                                                                              | 0.46                                                                              | 0.00                                                                              |
| Avail Cap(c_a), veh/h                                                | 0                                                                                 | 3171                                                                              | 3067                                                                              | 0                                                                                 | 968                                                                               | 0                                                                                 |
| HCM Platoon Ratio                                                    | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Upstream Filter(I)                                                   | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 0.00                                                                              |
| Uniform Delay (d), s/veh                                             | 0.0                                                                               | 6.2                                                                               | 4.2                                                                               | 0.0                                                                               | 15.2                                                                              | 0.0                                                                               |
| Incr Delay (d2), s/veh                                               | 0.0                                                                               | 1.4                                                                               | 0.2                                                                               | 0.0                                                                               | 1.4                                                                               | 0.0                                                                               |
| Initial Q Delay(d3),s/veh                                            | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| %ile BackOfQ(50%),veh/ln                                             | 0.0                                                                               | 1.7                                                                               | 0.4                                                                               | 0.0                                                                               | 0.8                                                                               | 0.0                                                                               |
| Unsig. Movement Delay, s/veh                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| LnGrp Delay(d),s/veh                                                 | 0.0                                                                               | 7.6                                                                               | 4.3                                                                               | 0.0                                                                               | 16.6                                                                              | 0.0                                                                               |
| LnGrp LOS                                                            | A                                                                                 | A                                                                                 | A                                                                                 | A                                                                                 | B                                                                                 | A                                                                                 |
| Approach Vol, veh/h                                                  | 796                                                                               |                                                                                   |                                                                                   | 321                                                                               | 109                                                                               |                                                                                   |
| Approach Delay, s/veh                                                | 7.6                                                                               |                                                                                   |                                                                                   | 4.3                                                                               | 16.6                                                                              |                                                                                   |
| Approach LOS                                                         | A                                                                                 |                                                                                   |                                                                                   | A                                                                                 | B                                                                                 |                                                                                   |
| Timer - Assigned Phs                                                 | 2                                                                                 |                                                                                   | 4                                                                                 |                                                                                   | 8                                                                                 |                                                                                   |
| Phs Duration (G+Y+Rc), s                                             | 10.5                                                                              |                                                                                   | 27.3                                                                              |                                                                                   | 27.3                                                                              |                                                                                   |
| Change Period (Y+Rc), s                                              | 5.5                                                                               |                                                                                   | 5.5                                                                               |                                                                                   | 5.5                                                                               |                                                                                   |
| Max Green Setting (Gmax), s                                          | 20.5                                                                              |                                                                                   | 68.5                                                                              |                                                                                   | 68.5                                                                              |                                                                                   |
| Max Q Clear Time (g_c+I1), s                                         | 4.1                                                                               |                                                                                   | 15.3                                                                              |                                                                                   | 5.7                                                                               |                                                                                   |
| Green Ext Time (p_c), s                                              | 0.2                                                                               |                                                                                   | 6.5                                                                               |                                                                                   | 1.9                                                                               |                                                                                   |
| Intersection Summary                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| HCM 6th Ctrl Delay                                                   |                                                                                   |                                                                                   | 7.6                                                                               |                                                                                   |                                                                                   |                                                                                   |
| HCM 6th LOS                                                          |                                                                                   |                                                                                   | A                                                                                 |                                                                                   |                                                                                   |                                                                                   |
| Notes                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| User approved pedestrian interval to be less than phase max green.   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| User approved volume balancing among the lanes for turning movement. |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |

Timings  
6: John West Rd & SR 8/US 78 (Veterans Memorial Hwy)

4b. Build 2035 Improved PM

02/27/2025



| Lane Group              | EBT   | WBL   | WBT   | NBL   |
|-------------------------|-------|-------|-------|-------|
| Lane Configurations     | →     | ↵     | ↵     | ↵     |
| Traffic Volume (vph)    | 432   | 12    | 497   | 178   |
| Future Volume (vph)     | 432   | 12    | 497   | 178   |
| Lane Group Flow (vph)   | 638   | 0     | 559   | 211   |
| Turn Type               | NA    | Perm  | NA    | Prot  |
| Protected Phases        | 4     |       | 8     | 2     |
| Permitted Phases        |       | 8     |       |       |
| Detector Phase          | 4     | 8     | 8     | 2     |
| Switch Phase            |       |       |       |       |
| Minimum Initial (s)     | 5.0   | 5.0   | 5.0   | 5.0   |
| Minimum Split (s)       | 23.5  | 23.5  | 23.5  | 23.5  |
| Total Split (s)         | 68.0  | 68.0  | 68.0  | 32.0  |
| Total Split (%)         | 68.0% | 68.0% | 68.0% | 32.0% |
| Yellow Time (s)         | 3.5   | 3.5   | 3.5   | 3.5   |
| All-Red Time (s)        | 2.0   | 2.0   | 2.0   | 2.0   |
| Lost Time Adjust (s)    | 0.0   |       | 0.0   | 0.0   |
| Total Lost Time (s)     | 5.5   |       | 5.5   | 5.5   |
| Lead/Lag                |       |       |       |       |
| Lead-Lag Optimize?      |       |       |       |       |
| Recall Mode             | None  | None  | None  | Min   |
| v/c Ratio               | 0.72  |       | 0.61  | 0.47  |
| Control Delay           | 14.1  |       | 11.7  | 20.8  |
| Queue Delay             | 0.0   |       | 0.0   | 0.0   |
| Total Delay             | 14.1  |       | 11.7  | 20.8  |
| Queue Length 50th (ft)  | 105   |       | 90    | 45    |
| Queue Length 95th (ft)  | 251   |       | 207   | 131   |
| Internal Link Dist (ft) | 31    |       | 1982  | 873   |
| Turn Bay Length (ft)    |       |       |       |       |
| Base Capacity (vph)     | 1692  |       | 1785  | 1091  |
| Starvation Cap Reductn  | 0     |       | 0     | 0     |
| Spillback Cap Reductn   | 0     |       | 0     | 0     |
| Storage Cap Reductn     | 0     |       | 0     | 0     |
| Reduced v/c Ratio       | 0.38  |       | 0.31  | 0.19  |

Intersection Summary

Cycle Length: 100

Actuated Cycle Length: 46.9

Natural Cycle: 60

Control Type: Actuated-Uncoordinated

Splits and Phases: 6: John West Rd & SR 8/US 78 (Veterans Memorial Hwy)



HCM 6th Signalized Intersection Summary  
6: John West Rd & SR 8/US 78 (Veterans Memorial Hwy)

4b. Build 2035 Improved PM

02/27/2025

|                              |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Movement                     | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | NBL                                                                               | NBR                                                                               |
| Lane Configurations          |  |                                                                                   |                                                                                   |  |  |                                                                                   |
| Traffic Volume (veh/h)       | 432                                                                               | 148                                                                               | 12                                                                                | 497                                                                               | 178                                                                               | 14                                                                                |
| Future Volume (veh/h)        | 432                                                                               | 148                                                                               | 12                                                                                | 497                                                                               | 178                                                                               | 14                                                                                |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 |
| Ped-Bike Adj(A_pbT)          |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Work Zone On Approach        | No                                                                                |                                                                                   |                                                                                   | No                                                                                | No                                                                                |                                                                                   |
| Adj Sat Flow, veh/h/ln       | 1767                                                                              | 1900                                                                              | 1900                                                                              | 1856                                                                              | 1900                                                                              | 1900                                                                              |
| Adj Flow Rate, veh/h         | 475                                                                               | 163                                                                               | 13                                                                                | 546                                                                               | 196                                                                               | 15                                                                                |
| Peak Hour Factor             | 0.91                                                                              | 0.91                                                                              | 0.91                                                                              | 0.91                                                                              | 0.91                                                                              | 0.91                                                                              |
| Percent Heavy Veh, %         | 9                                                                                 | 0                                                                                 | 0                                                                                 | 3                                                                                 | 0                                                                                 | 0                                                                                 |
| Cap, veh/h                   | 626                                                                               | 215                                                                               | 114                                                                               | 907                                                                               | 304                                                                               | 23                                                                                |
| Arrive On Green              | 0.50                                                                              | 0.50                                                                              | 0.50                                                                              | 0.50                                                                              | 0.18                                                                              | 0.18                                                                              |
| Sat Flow, veh/h              | 1257                                                                              | 432                                                                               | 14                                                                                | 1824                                                                              | 1659                                                                              | 127                                                                               |
| Grp Volume(v), veh/h         | 0                                                                                 | 638                                                                               | 559                                                                               | 0                                                                                 | 212                                                                               | 0                                                                                 |
| Grp Sat Flow(s),veh/h/ln     | 0                                                                                 | 1689                                                                              | 1837                                                                              | 0                                                                                 | 1794                                                                              | 0                                                                                 |
| Q Serve(g_s), s              | 0.0                                                                               | 10.5                                                                              | 0.0                                                                               | 0.0                                                                               | 3.8                                                                               | 0.0                                                                               |
| Cycle Q Clear(g_c), s        | 0.0                                                                               | 10.5                                                                              | 7.5                                                                               | 0.0                                                                               | 3.8                                                                               | 0.0                                                                               |
| Prop In Lane                 |                                                                                   | 0.26                                                                              | 0.02                                                                              |                                                                                   | 0.92                                                                              | 0.07                                                                              |
| Lane Grp Cap(c), veh/h       | 0                                                                                 | 840                                                                               | 1021                                                                              | 0                                                                                 | 329                                                                               | 0                                                                                 |
| V/C Ratio(X)                 | 0.00                                                                              | 0.76                                                                              | 0.55                                                                              | 0.00                                                                              | 0.64                                                                              | 0.00                                                                              |
| Avail Cap(c_a), veh/h        | 0                                                                                 | 3060                                                                              | 3385                                                                              | 0                                                                                 | 1378                                                                              | 0                                                                                 |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              |
| Upstream Filter(I)           | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 0.00                                                                              |
| Uniform Delay (d), s/veh     | 0.0                                                                               | 7.0                                                                               | 6.2                                                                               | 0.0                                                                               | 13.0                                                                              | 0.0                                                                               |
| Incr Delay (d2), s/veh       | 0.0                                                                               | 1.4                                                                               | 0.5                                                                               | 0.0                                                                               | 2.1                                                                               | 0.0                                                                               |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               |
| %ile BackOfQ(50%),veh/ln     | 0.0                                                                               | 1.6                                                                               | 1.1                                                                               | 0.0                                                                               | 1.3                                                                               | 0.0                                                                               |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| LnGrp Delay(d),s/veh         | 0.0                                                                               | 8.4                                                                               | 6.7                                                                               | 0.0                                                                               | 15.1                                                                              | 0.0                                                                               |
| LnGrp LOS                    | A                                                                                 | A                                                                                 | A                                                                                 | A                                                                                 | B                                                                                 | A                                                                                 |
| Approach Vol, veh/h          | 638                                                                               |                                                                                   |                                                                                   | 559                                                                               | 212                                                                               |                                                                                   |
| Approach Delay, s/veh        | 8.4                                                                               |                                                                                   |                                                                                   | 6.7                                                                               | 15.1                                                                              |                                                                                   |
| Approach LOS                 | A                                                                                 |                                                                                   |                                                                                   | A                                                                                 | B                                                                                 |                                                                                   |
| Timer - Assigned Phs         | 2                                                                                 |                                                                                   | 4                                                                                 |                                                                                   | 8                                                                                 |                                                                                   |
| Phs Duration (G+Y+Rc), s     | 11.8                                                                              |                                                                                   | 22.7                                                                              |                                                                                   | 22.7                                                                              |                                                                                   |
| Change Period (Y+Rc), s      | 5.5                                                                               |                                                                                   | 5.5                                                                               |                                                                                   | 5.5                                                                               |                                                                                   |
| Max Green Setting (Gmax), s  | 26.5                                                                              |                                                                                   | 62.5                                                                              |                                                                                   | 62.5                                                                              |                                                                                   |
| Max Q Clear Time (g_c+I1), s | 5.8                                                                               |                                                                                   | 12.5                                                                              |                                                                                   | 9.5                                                                               |                                                                                   |
| Green Ext Time (p_c), s      | 0.6                                                                               |                                                                                   | 4.6                                                                               |                                                                                   | 3.7                                                                               |                                                                                   |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| HCM 6th Ctrl Delay           |                                                                                   |                                                                                   | 8.8                                                                               |                                                                                   |                                                                                   |                                                                                   |
| HCM 6th LOS                  |                                                                                   |                                                                                   | A                                                                                 |                                                                                   |                                                                                   |                                                                                   |
| Notes                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |

## **Traffic Volume Worksheets**

**24-071 - Stream Data Center (DRI # 4334) - Douglas County, GA**  
**Traffic Volumes**

**A&R Engineering**  
**March 2025**

**1. SR 8 (VMH) @ SR 5 (Bill Arp)**

**A.M. Peak Hour**

| Condition                     | SR 5 (Bill Arp Road) |   |     |     | -          |   |   |     | SR 8 / US 78<br>(Veterans Memorial Highway) |     |     |     | SR 8 / US 78<br>(Veterans Memorial Highway) |     |   |     |
|-------------------------------|----------------------|---|-----|-----|------------|---|---|-----|---------------------------------------------|-----|-----|-----|---------------------------------------------|-----|---|-----|
|                               | Northbound           |   |     |     | Southbound |   |   |     | Eastbound                                   |     |     |     | Westbound                                   |     |   |     |
|                               | L                    | T | R   | Tot | L          | T | R | Tot | L                                           | T   | R   | Tot | L                                           | T   | R | Tot |
| Existing 2025 Traffic Counts: | 48                   | 0 | 147 | 195 | 0          | 0 | 0 | 0   | 0                                           | 649 | 92  | 741 | 190                                         | 534 | 0 | 724 |
| Growth Factor (%):            | 2                    | 2 | 2   |     | 2          | 2 | 2 |     | 2                                           | 2   | 2   |     | 2                                           | 2   | 2 |     |
| No-Build 2035 Volumes:        | 58                   | 0 | 176 | 234 | 0          | 0 | 0 | 0   | 0                                           | 779 | 110 | 889 | 228                                         | 641 | 0 | 869 |
| Total New Trips:              | 14                   | 0 | 0   | 14  | 0          | 0 | 0 | 0   | 0                                           | 15  | 11  | 26  | 0                                           | 19  | 0 | 19  |
| Future 2035 Traffic Volumes:  | 72                   | 0 | 176 | 248 | 0          | 0 | 0 | 0   | 0                                           | 794 | 121 | 915 | 228                                         | 660 | 0 | 888 |

**P.M. Peak Hour**

| Condition                     | SR 5 (Bill Arp Road) |   |     |     | -          |   |   |     | SR 8 / US 78<br>(Veterans Memorial Highway) |     |     |     | SR 8 / US 78<br>(Veterans Memorial Highway) |     |   |      |
|-------------------------------|----------------------|---|-----|-----|------------|---|---|-----|---------------------------------------------|-----|-----|-----|---------------------------------------------|-----|---|------|
|                               | Northbound           |   |     |     | Southbound |   |   |     | Eastbound                                   |     |     |     | Westbound                                   |     |   |      |
|                               | L                    | T | R   | Tot | L          | T | R | Tot | L                                           | T   | R   | Tot | L                                           | T   | R | Tot  |
| Existing 2025 Traffic Counts: | 127                  | 0 | 322 | 449 | 0          | 0 | 0 | 0   | 0                                           | 648 | 105 | 753 | 190                                         | 676 | 0 | 866  |
| Growth Factor (%):            | 2                    | 2 | 2   |     | 2          | 2 | 2 |     | 2                                           | 2   | 2   |     | 2                                           | 2   | 2 |      |
| No-Build 2035 Volumes:        | 152                  | 0 | 386 | 538 | 0          | 0 | 0 | 0   | 0                                           | 778 | 126 | 904 | 228                                         | 811 | 0 | 1039 |
| Total New Trips:              | 6                    | 0 | 0   | 6   | 0          | 0 | 0 | 0   | 0                                           | 20  | 15  | 35  | 0                                           | 9   | 0 | 9    |
| Future 2035 Traffic Volumes:  | 158                  | 0 | 386 | 544 | 0          | 0 | 0 | 0   | 0                                           | 798 | 141 | 939 | 228                                         | 820 | 0 | 1048 |

**24-071 - Stream Data Center (DRI # 4334) - Douglas County, GA**  
**Traffic Volumes**

**A&R Engineering**  
**March 2025**

**2. SR 8 @ N. Baggett Rd (E)**

**A.M. Peak Hour**

| Condition                     | -          |   |   |     | N. Baggett Road (East End) |   |   |     | SR 8 / US 78<br>(Veterans Memorial Highway) |     |   |     | SR 8 / US 78<br>(Veterans Memorial Highway) |     |   |     |
|-------------------------------|------------|---|---|-----|----------------------------|---|---|-----|---------------------------------------------|-----|---|-----|---------------------------------------------|-----|---|-----|
|                               | Northbound |   |   |     | Southbound                 |   |   |     | Eastbound                                   |     |   |     | Westbound                                   |     |   |     |
|                               | L          | T | R | Tot | L                          | T | R | Tot | L                                           | T   | R | Tot | L                                           | T   | R | Tot |
| Existing 2025 Traffic Counts: | 0          | 0 | 0 | 0   | 8                          | 0 | 1 | 9   | 1                                           | 488 | 0 | 489 | 0                                           | 206 | 3 | 209 |
| Growth Factor (%):            | 2          | 2 | 2 |     | 2                          | 2 | 2 |     | 2                                           | 2   | 2 |     | 2                                           | 2   | 2 |     |
| No-Build 2035 Volumes:        | 0          | 0 | 0 | 0   | 10                         | 0 | 1 | 11  | 1                                           | 586 | 0 | 587 | 0                                           | 247 | 4 | 251 |
| Total New Trips:              | 0          | 0 | 0 | 0   | 4                          | 0 | 0 | 4   | 0                                           | 23  | 0 | 23  | 0                                           | 28  | 5 | 33  |
| Future 2035 Traffic Volumes:  | 0          | 0 | 0 | 0   | 14                         | 0 | 1 | 15  | 1                                           | 609 | 0 | 610 | 0                                           | 275 | 9 | 284 |

**P.M. Peak Hour**

| Condition                     | -          |   |   |     | N. Baggett Road (East End) |   |   |     | SR 8 / US 78<br>(Veterans Memorial Highway) |     |   |     | SR 8 / US 78<br>(Veterans Memorial Highway) |     |   |     |
|-------------------------------|------------|---|---|-----|----------------------------|---|---|-----|---------------------------------------------|-----|---|-----|---------------------------------------------|-----|---|-----|
|                               | Northbound |   |   |     | Southbound                 |   |   |     | Eastbound                                   |     |   |     | Westbound                                   |     |   |     |
|                               | L          | T | R | Tot | L                          | T | R | Tot | L                                           | T   | R | Tot | L                                           | T   | R | Tot |
| Existing 2025 Traffic Counts: | 0          | 0 | 0 | 0   | 8                          | 0 | 0 | 8   | 1                                           | 337 | 0 | 338 | 0                                           | 474 | 4 | 478 |
| Growth Factor (%):            | 2          | 2 | 2 |     | 2                          | 2 | 2 |     | 2                                           | 2   | 2 |     | 2                                           | 2   | 2 |     |
| No-Build 2035 Volumes:        | 0          | 0 | 0 | 0   | 10                         | 0 | 0 | 10  | 1                                           | 404 | 0 | 405 | 0                                           | 569 | 5 | 574 |
| Total New Trips:              | 0          | 0 | 0 | 0   | 5                          | 0 | 0 | 5   | 0                                           | 30  | 0 | 30  | 0                                           | 13  | 2 | 15  |
| Future 2035 Traffic Volumes:  | 0          | 0 | 0 | 0   | 15                         | 0 | 0 | 15  | 1                                           | 434 | 0 | 435 | 0                                           | 582 | 7 | 589 |

**24-071 - Stream Data Center (DRI # 4334) - Douglas County, GA**  
**Traffic Volumes**

**A&R Engineering**  
**March 2025**

**3. SR 8 @ N-S Baggett Rd**

**A.M. Peak Hour**

| Condition                     | S. Baggett Road<br>Northbound |   |    |     | N. Baggett Road<br>Southbound |   |    |     | SR 8 / US 78<br>(Veterans Memorial Highway)<br>Eastbound |     |   |     | SR 8 / US 78<br>(Veterans Memorial Highway)<br>Westbound |     |    |     |
|-------------------------------|-------------------------------|---|----|-----|-------------------------------|---|----|-----|----------------------------------------------------------|-----|---|-----|----------------------------------------------------------|-----|----|-----|
|                               | L                             | T | R  | Tot | L                             | T | R  | Tot | L                                                        | T   | R | Tot | L                                                        | T   | R  | Tot |
| Existing 2025 Traffic Counts: | 10                            | 1 | 24 | 35  | 3                             | 1 | 2  | 6   | 3                                                        | 379 | 3 | 385 | 22                                                       | 639 | 3  | 664 |
| Growth Factor (%):            | 2                             | 2 | 2  |     | 2                             | 2 | 2  |     | 2                                                        | 2   | 2 |     | 2                                                        | 2   | 2  |     |
| No-Build 2035 Volumes:        | 12                            | 1 | 29 | 42  | 4                             | 1 | 2  | 7   | 4                                                        | 455 | 4 | 463 | 26                                                       | 767 | 4  | 797 |
| Total New Trips:              | 0                             | 0 | 0  | 0   | 19                            | 0 | 8  | 27  | 9                                                        | 11  | 0 | 20  | 0                                                        | 14  | 23 | 37  |
| Future 2035 Traffic Volumes:  | 12                            | 1 | 29 | 42  | 23                            | 1 | 10 | 34  | 13                                                       | 466 | 4 | 483 | 26                                                       | 781 | 27 | 834 |

**P.M. Peak Hour**

| Condition                     | S. Baggett Road<br>Northbound |   |    |     | N. Baggett Road<br>Southbound |   |    |     | SR 8 / US 78<br>(Veterans Memorial Highway)<br>Eastbound |     |   |     | SR 8 / US 78<br>(Veterans Memorial Highway)<br>Westbound |     |    |     |
|-------------------------------|-------------------------------|---|----|-----|-------------------------------|---|----|-----|----------------------------------------------------------|-----|---|-----|----------------------------------------------------------|-----|----|-----|
|                               | L                             | T | R  | Tot | L                             | T | R  | Tot | L                                                        | T   | R | Tot | L                                                        | T   | R  | Tot |
| Existing 2025 Traffic Counts: | 11                            | 1 | 24 | 36  | 3                             | 1 | 2  | 6   | 3                                                        | 369 | 3 | 375 | 22                                                       | 626 | 3  | 651 |
| Growth Factor (%):            | 2                             | 2 | 2  |     | 2                             | 2 | 2  |     | 2                                                        | 2   | 2 |     | 2                                                        | 2   | 2  |     |
| No-Build 2035 Volumes:        | 13                            | 1 | 29 | 43  | 4                             | 1 | 2  | 7   | 4                                                        | 443 | 4 | 451 | 26                                                       | 751 | 4  | 781 |
| Total New Trips:              | 0                             | 0 | 0  | 0   | 25                            | 0 | 10 | 35  | 4                                                        | 15  | 0 | 19  | 0                                                        | 6   | 11 | 17  |
| Future 2035 Traffic Volumes:  | 13                            | 1 | 29 | 43  | 29                            | 1 | 12 | 42  | 8                                                        | 458 | 4 | 470 | 26                                                       | 757 | 15 | 798 |

**24-071 - Stream Data Center (DRI # 4334) - Douglas County, GA**  
**Traffic Volumes**

**A&R Engineering**  
**March 2025**

**4. SR 8 @ Strawn Rd**

**A.M. Peak Hour**

| Condition                     | -          |   |   |     | Strawn Road |   |    | SR 8 / US 78<br>(Veterans Memorial Highway) |     |     | SR 8 / US 78<br>(Veterans Memorial Highway) |     |     |
|-------------------------------|------------|---|---|-----|-------------|---|----|---------------------------------------------|-----|-----|---------------------------------------------|-----|-----|
|                               | Northbound |   |   | Tot | Southbound  |   |    | Eastbound                                   |     |     | Westbound                                   |     |     |
|                               | L          | T | R | Tot | L           | T | R  | Tot                                         | L   | T   | R                                           | Tot | Tot |
| Existing 2025 Traffic Counts: | 0          | 0 | 0 | 0   | 11          | 0 | 12 | 23                                          | 59  | 555 | 0                                           | 614 | 284 |
| Growth Factor (%):            | 2          | 2 | 2 |     | 2           | 2 | 2  |                                             | 2   | 2   | 2                                           |     | 2   |
| No-Build 2035 Volumes:        | 0          | 0 | 0 | 0   | 13          | 0 | 14 | 27                                          | 71  | 666 | 0                                           | 737 | 341 |
| Total New Trips:              | 0          | 0 | 0 | 0   | 11          | 0 | 34 | 45                                          | 42  | 9   | 0                                           | 51  | 22  |
| Future 2035 Traffic Volumes:  | 0          | 0 | 0 | 0   | 24          | 0 | 48 | 72                                          | 113 | 675 | 0                                           | 788 | 363 |

**P.M. Peak Hour**

| Condition                     | -          |   |   |     | Strawn Road |   |    | SR 8 / US 78<br>(Veterans Memorial Highway) |    |     | SR 8 / US 78<br>(Veterans Memorial Highway) |     |     |
|-------------------------------|------------|---|---|-----|-------------|---|----|---------------------------------------------|----|-----|---------------------------------------------|-----|-----|
|                               | Northbound |   |   | Tot | Southbound  |   |    | Eastbound                                   |    |     | Westbound                                   |     |     |
|                               | L          | T | R | Tot | L           | T | R  | Tot                                         | L  | T   | R                                           | Tot | Tot |
| Existing 2025 Traffic Counts: | 0          | 0 | 0 | 0   | 19          | 0 | 24 | 43                                          | 5  | 427 | 0                                           | 432 | 541 |
| Growth Factor (%):            | 2          | 2 | 2 |     | 2           | 2 | 2  |                                             | 2  | 2   | 2                                           |     | 2   |
| No-Build 2035 Volumes:        | 0          | 0 | 0 | 0   | 23          | 0 | 29 | 52                                          | 6  | 512 | 0                                           | 518 | 649 |
| Total New Trips:              | 0          | 0 | 0 | 0   | 15          | 0 | 45 | 60                                          | 19 | 4   | 0                                           | 23  | 16  |
| Future 2035 Traffic Volumes:  | 0          | 0 | 0 | 0   | 38          | 0 | 74 | 112                                         | 25 | 516 | 0                                           | 541 | 665 |

**24-071 - Stream Data Center (DRI # 4334) - Douglas County, GA**  
**Traffic Volumes**

**A&R Engineering**  
**March 2025**

**5. SR 8 @ Post Rd-Mann Rd**

**A.M. Peak Hour**

| Condition                     | Post Road<br>Northbound |     |     |     | Mann Road<br>Southbound |     |    |     | SR 8 / US 78<br>(Veterans Memorial Highway)<br>Eastbound |     |     |     | SR 8 / US 78<br>(Veterans Memorial Highway)<br>Westbound |     |    |     |
|-------------------------------|-------------------------|-----|-----|-----|-------------------------|-----|----|-----|----------------------------------------------------------|-----|-----|-----|----------------------------------------------------------|-----|----|-----|
|                               | L                       | T   | R   | Tot | L                       | T   | R  | Tot | L                                                        | T   | R   | Tot | L                                                        | T   | R  | Tot |
| Existing 2025 Traffic Counts: | 102                     | 121 | 251 | 474 | 134                     | 226 | 13 | 373 | 3                                                        | 286 | 188 | 477 | 96                                                       | 124 | 70 | 290 |
| Growth Factor (%):            | 2                       | 2   | 2   |     | 2                       | 2   | 2  |     | 2                                                        | 2   | 2   |     | 2                                                        | 2   | 2  |     |
| No-Build 2035 Volumes:        | 122                     | 145 | 301 | 568 | 161                     | 271 | 16 | 448 | 4                                                        | 343 | 226 | 573 | 115                                                      | 149 | 84 | 348 |
| Total New Trips:              | 0                       | 0   | 33  | 33  | 5                       | 0   | 0  | 5   | 0                                                        | 14  | 0   | 14  | 27                                                       | 11  | 4  | 42  |
| Future 2035 Traffic Volumes:  | 122                     | 145 | 334 | 601 | 166                     | 271 | 16 | 453 | 4                                                        | 357 | 226 | 587 | 142                                                      | 160 | 88 | 390 |

**P.M. Peak Hour**

| Condition                     | Post Road<br>Northbound |     |     |     | Mann Road<br>Southbound |     |    |     | SR 8 / US 78<br>(Veterans Memorial Highway)<br>Eastbound |     |     |     | SR 8 / US 78<br>(Veterans Memorial Highway)<br>Westbound |     |     |     |
|-------------------------------|-------------------------|-----|-----|-----|-------------------------|-----|----|-----|----------------------------------------------------------|-----|-----|-----|----------------------------------------------------------|-----|-----|-----|
|                               | L                       | T   | R   | Tot | L                       | T   | R  | Tot | L                                                        | T   | R   | Tot | L                                                        | T   | R   | Tot |
| Existing 2025 Traffic Counts: | 138                     | 228 | 106 | 472 | 81                      | 139 | 9  | 229 | 22                                                       | 200 | 162 | 384 | 267                                                      | 347 | 116 | 730 |
| Growth Factor (%):            | 2                       | 2   | 2   |     | 2                       | 2   | 2  |     | 2                                                        | 2   | 2   |     | 2                                                        | 2   | 2   |     |
| No-Build 2035 Volumes:        | 166                     | 274 | 127 | 567 | 97                      | 167 | 11 | 275 | 26                                                       | 240 | 194 | 460 | 320                                                      | 416 | 139 | 875 |
| Total New Trips:              | 0                       | 0   | 15  | 15  | 2                       | 0   | 0  | 2   | 0                                                        | 6   | 0   | 6   | 35                                                       | 15  | 5   | 55  |
| Future 2035 Traffic Volumes:  | 166                     | 274 | 142 | 582 | 99                      | 167 | 11 | 277 | 26                                                       | 246 | 194 | 466 | 355                                                      | 431 | 144 | 930 |

**24-071 - Stream Data Center (DRI # 4334) - Douglas County, GA**  
**Traffic Volumes**

**A&R Engineering**  
**March 2025**

**6. SR 8 @ John West Rd**

**A.M. Peak Hour**

| Condition                     | John West Road |   |    |     | -          |   |   |     | SR 8 / US 78<br>(Veterans Memorial Highway) |     |     |     | SR 8 / US 78<br>(Veterans Memorial Highway) |     |   |     |
|-------------------------------|----------------|---|----|-----|------------|---|---|-----|---------------------------------------------|-----|-----|-----|---------------------------------------------|-----|---|-----|
|                               | Northbound     |   |    |     | Southbound |   |   |     | Eastbound                                   |     |     |     | Westbound                                   |     |   |     |
|                               | L              | T | R  | Tot | L          | T | R | Tot | L                                           | T   | R   | Tot | L                                           | T   | R | Tot |
| Existing 2025 Traffic Counts: | 65             | 0 | 9  | 74  | 0          | 0 | 0 | 0   | 0                                           | 497 | 82  | 579 | 6                                           | 214 | 0 | 220 |
| Growth Factor (%):            | 2              | 2 | 2  |     | 2          | 2 | 2 |     | 2                                           | 2   | 2   |     | 2                                           | 2   | 2 |     |
| No-Build 2035 Volumes:        | 78             | 0 | 11 | 89  | 0          | 0 | 0 | 0   | 0                                           | 596 | 98  | 694 | 7                                           | 257 | 0 | 264 |
| Total New Trips:              | 9              | 0 | 0  | 9   | 0          | 0 | 0 | 0   | 0                                           | 23  | 8   | 31  | 0                                           | 28  | 0 | 28  |
| Future 2035 Traffic Volumes:  | 87             | 0 | 11 | 98  | 0          | 0 | 0 | 0   | 0                                           | 619 | 106 | 725 | 7                                           | 285 | 0 | 292 |

**P.M. Peak Hour**

| Condition                     | John West Road |   |    |     | -          |   |   |     | SR 8 / US 78<br>(Veterans Memorial Highway) |     |     |     | SR 8 / US 78<br>(Veterans Memorial Highway) |     |   |     |
|-------------------------------|----------------|---|----|-----|------------|---|---|-----|---------------------------------------------|-----|-----|-----|---------------------------------------------|-----|---|-----|
|                               | Northbound     |   |    |     | Southbound |   |   |     | Eastbound                                   |     |     |     | Westbound                                   |     |   |     |
|                               | L              | T | R  | Tot | L          | T | R | Tot | L                                           | T   | R   | Tot | L                                           | T   | R | Tot |
| Existing 2025 Traffic Counts: | 145            | 0 | 12 | 157 | 0          | 0 | 0 | 0   | 0                                           | 335 | 115 | 450 | 10                                          | 403 | 0 | 413 |
| Growth Factor (%):            | 2              | 2 | 2  |     | 2          | 2 | 2 |     | 2                                           | 2   | 2   |     | 2                                           | 2   | 2 |     |
| No-Build 2035 Volumes:        | 174            | 0 | 14 | 188 | 0          | 0 | 0 | 0   | 0                                           | 402 | 138 | 540 | 12                                          | 484 | 0 | 496 |
| Total New Trips:              | 4              | 0 | 0  | 4   | 0          | 0 | 0 | 0   | 0                                           | 30  | 10  | 40  | 0                                           | 13  | 0 | 13  |
| Future 2035 Traffic Volumes:  | 178            | 0 | 14 | 192 | 0          | 0 | 0 | 0   | 0                                           | 432 | 148 | 580 | 12                                          | 497 | 0 | 509 |

**24-071 - Stream Data Center (DRI # 4334) - Douglas County, GA**  
**Traffic Volumes**

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**7. Post Rd @ I-20 WB Ramps**

**A.M. Peak Hour**

| Condition                     | Post Road  |     |   | Post Road  |   |     | I-20 Westbound On-Ramp |     |   | I-20 Westbound Off-Ramp |   |     |
|-------------------------------|------------|-----|---|------------|---|-----|------------------------|-----|---|-------------------------|---|-----|
|                               | Northbound |     |   | Southbound |   |     | Eastbound              |     |   | Westbound               |   |     |
|                               | L          | T   | R | Tot        | L | T   | R                      | Tot | L | T                       | R | Tot |
| Existing 2025 Traffic Counts: | 196        | 344 | 0 | 540        | 0 | 451 | 69                     | 520 | 0 | 0                       | 0 | 0   |
| Growth Factor (%):            | 2          | 2   | 2 |            | 2 | 2   | 2                      |     | 2 | 2                       | 2 |     |
| No-Build 2035 Volumes:        | 235        | 413 | 0 | 648        | 0 | 541 | 83                     | 624 | 0 | 0                       | 0 | 0   |
| Total New Trips:              | 0          | 23  | 0 | 23         | 0 | 11  | 15                     | 26  | 0 | 0                       | 0 | 0   |
| Future 2035 Traffic Volumes:  | 235        | 436 | 0 | 671        | 0 | 552 | 98                     | 650 | 0 | 0                       | 0 | 0   |

**P.M. Peak Hour**

| Condition                     | Post Road  |     |   | Post Road  |   |     | I-20 Westbound On-Ramp |     |   | I-20 Westbound Off-Ramp |   |     |
|-------------------------------|------------|-----|---|------------|---|-----|------------------------|-----|---|-------------------------|---|-----|
|                               | Northbound |     |   | Southbound |   |     | Eastbound              |     |   | Westbound               |   |     |
|                               | L          | T   | R | Tot        | L | T   | R                      | Tot | L | T                       | R | Tot |
| Existing 2025 Traffic Counts: | 269        | 251 | 0 | 520        | 0 | 458 | 149                    | 607 | 0 | 0                       | 0 | 0   |
| Growth Factor (%):            | 2          | 2   | 2 |            | 2 | 2   | 2                      |     | 2 | 2                       | 2 |     |
| No-Build 2035 Volumes:        | 323        | 301 | 0 | 624        | 0 | 550 | 179                    | 729 | 0 | 0                       | 0 | 0   |
| Total New Trips:              | 0          | 11  | 0 | 11         | 0 | 15  | 20                     | 35  | 0 | 0                       | 0 | 0   |
| Future 2035 Traffic Volumes:  | 323        | 312 | 0 | 635        | 0 | 565 | 199                    | 764 | 0 | 0                       | 0 | 0   |

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**Traffic Volumes**

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**8. Post Rd @ I-20 EB Ramps**

**A.M. Peak Hour**

| Condition                     | Post Road<br>Northbound |     |     | Post Road<br>Southbound |     |     | I-20 Eastbound Off-Ramp<br>Eastbound |     |     | I-20 Eastbound On-Ramp<br>Westbound |     |     |
|-------------------------------|-------------------------|-----|-----|-------------------------|-----|-----|--------------------------------------|-----|-----|-------------------------------------|-----|-----|
|                               | L                       | T   | R   | Tot                     | L   | T   | R                                    | Tot | L   | T                                   | R   | Tot |
| Existing 2025 Traffic Counts: | 0                       | 469 | 444 | 913                     | 235 | 374 | 0                                    | 609 | 129 | 0                                   | 295 | 424 |
| Growth Factor (%):            | 2                       | 2   | 2   |                         | 2   | 2   | 2                                    |     | 2   | 2                                   | 2   |     |
| No-Build 2035 Volumes:        | 0                       | 563 | 533 | 1096                    | 282 | 449 | 0                                    | 731 | 155 | 0                                   | 354 | 509 |
| Total New Trips:              | 0                       | 5   | 0   | 5                       | 8   | 4   | 0                                    | 12  | 19  | 0                                   | 0   | 19  |
| Future 2035 Traffic Volumes:  | 0                       | 568 | 533 | 1101                    | 290 | 453 | 0                                    | 743 | 174 | 0                                   | 354 | 528 |

**P.M. Peak Hour**

| Condition                     | Post Road<br>Northbound |     |     | Post Road<br>Southbound |     |     | I-20 Eastbound Off-Ramp<br>Eastbound |      |     | I-20 Eastbound On-Ramp<br>Westbound |     |     |
|-------------------------------|-------------------------|-----|-----|-------------------------|-----|-----|--------------------------------------|------|-----|-------------------------------------|-----|-----|
|                               | L                       | T   | R   | Tot                     | L   | T   | R                                    | Tot  | L   | T                                   | R   | Tot |
| Existing 2025 Traffic Counts: | 0                       | 488 | 232 | 720                     | 163 | 708 | 0                                    | 871  | 99  | 0                                   | 290 | 389 |
| Growth Factor (%):            | 2                       | 2   | 2   |                         | 2   | 2   | 2                                    |      | 2   | 2                                   | 2   |     |
| No-Build 2035 Volumes:        | 0                       | 586 | 278 | 864                     | 196 | 850 | 0                                    | 1046 | 119 | 0                                   | 348 | 467 |
| Total New Trips:              | 0                       | 2   | 0   | 2                       | 10  | 5   | 0                                    | 15   | 9   | 0                                   | 0   | 9   |
| Future 2035 Traffic Volumes:  | 0                       | 588 | 278 | 866                     | 206 | 855 | 0                                    | 1061 | 128 | 0                                   | 348 | 476 |

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9. N. Baggett Rd @ Drwy 1

**A.M. Peak Hour**

| Condition                     | N. Baggett Road |   |   |     | N. Baggett Road |   |   |     | Site Driveway 1 |   |    |     | -         |   |   |     |
|-------------------------------|-----------------|---|---|-----|-----------------|---|---|-----|-----------------|---|----|-----|-----------|---|---|-----|
|                               | Northbound      |   |   |     | Southbound      |   |   |     | Eastbound       |   |    |     | Westbound |   |   |     |
|                               | L               | T | R | Tot | L               | T | R | Tot | L               | T | R  | Tot | L         | T | R | Tot |
| Existing 2025 Traffic Counts: | 0               | 7 | 0 | 7   | 0               | 6 | 0 | 6   | 0               | 0 | 0  | 0   | 0         | 0 | 0 | 0   |
| Growth Factor (%):            | 2               | 2 | 2 |     | 2               | 2 | 2 |     | 2               | 2 | 2  |     | 2         | 2 | 2 |     |
| No-Build 2035 Volumes:        | 0               | 8 | 0 | 8   | 0               | 7 | 0 | 7   | 0               | 0 | 0  | 0   | 0         | 0 | 0 | 0   |
| Total New Trips:              | 33              | 0 | 0 | 33  | 0               | 0 | 5 | 5   | 4               | 0 | 27 | 31  | 0         | 0 | 0 | 0   |
| Future 2035 Traffic Volumes:  | 33              | 8 | 0 | 41  | 0               | 7 | 5 | 12  | 4               | 0 | 27 | 31  | 0         | 0 | 0 | 0   |

**P.M. Peak Hour**

| Condition                     | N. Baggett Road |   |   |     | N. Baggett Road |   |   |     | Site Driveway 1 |   |    |     | -         |   |   |     |
|-------------------------------|-----------------|---|---|-----|-----------------|---|---|-----|-----------------|---|----|-----|-----------|---|---|-----|
|                               | Northbound      |   |   |     | Southbound      |   |   |     | Eastbound       |   |    |     | Westbound |   |   |     |
|                               | L               | T | R | Tot | L               | T | R | Tot | L               | T | R  | Tot | L         | T | R | Tot |
| Existing 2025 Traffic Counts: | 0               | 7 | 0 | 7   | 0               | 6 | 0 | 6   | 0               | 0 | 0  | 0   | 0         | 0 | 0 | 0   |
| Growth Factor (%):            | 2               | 2 | 2 |     | 2               | 2 | 2 |     | 2               | 2 | 2  |     | 2         | 2 | 2 |     |
| No-Build 2035 Volumes:        | 0               | 8 | 0 | 8   | 0               | 7 | 0 | 7   | 0               | 0 | 0  | 0   | 0         | 0 | 0 | 0   |
| Total New Trips:              | 15              | 0 | 0 | 15  | 0               | 0 | 2 | 2   | 5               | 0 | 35 | 40  | 0         | 0 | 0 | 0   |
| Future 2035 Traffic Volumes:  | 15              | 8 | 0 | 23  | 0               | 7 | 2 | 9   | 5               | 0 | 35 | 40  | 0         | 0 | 0 | 0   |

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10. Jason Ind. Pkwy @ Drwy 2

**A.M. Peak Hour**

| Condition                     | Jason Industrial Parkway |   |   |     | Jason Industrial Parkway |   |   |     | -         |   |   |     | Site Driveway 2 |   |    |     |
|-------------------------------|--------------------------|---|---|-----|--------------------------|---|---|-----|-----------|---|---|-----|-----------------|---|----|-----|
|                               | Northbound               |   |   |     | Southbound               |   |   |     | Eastbound |   |   |     | Westbound       |   |    |     |
|                               | L                        | T | R | Tot | L                        | T | R | Tot | L         | T | R | Tot | L               | T | R  | Tot |
| Existing 2025 Traffic Counts: | 0                        | 5 | 0 | 5   | 0                        | 5 | 0 | 5   | 0         | 0 | 0 | 0   | 0               | 0 | 0  | 0   |
| Growth Factor (%):            | 2                        | 2 | 2 |     | 2                        | 2 | 2 |     | 2         | 2 | 2 |     | 2               | 2 | 2  |     |
| No-Build 2035 Volumes:        | 0                        | 6 | 0 | 6   | 0                        | 6 | 0 | 6   | 0         | 0 | 0 | 0   | 0               | 0 | 0  | 0   |
| Total New Trips:              | 0                        | 0 | 0 | 0   | 56                       | 0 | 0 | 56  | 0         | 0 | 0 | 0   | 0               | 0 | 46 | 46  |
| Future 2035 Traffic Volumes:  | 0                        | 6 | 0 | 6   | 56                       | 6 | 0 | 62  | 0         | 0 | 0 | 0   | 0               | 0 | 46 | 46  |

**P.M. Peak Hour**

| Condition                     | Jason Industrial Parkway |   |   |     | Jason Industrial Parkway |   |   |     | -         |   |   |     | Site Driveway 2 |   |    |     |
|-------------------------------|--------------------------|---|---|-----|--------------------------|---|---|-----|-----------|---|---|-----|-----------------|---|----|-----|
|                               | Northbound               |   |   |     | Southbound               |   |   |     | Eastbound |   |   |     | Westbound       |   |    |     |
|                               | L                        | T | R | Tot | L                        | T | R | Tot | L         | T | R | Tot | L               | T | R  | Tot |
| Existing 2025 Traffic Counts: | 0                        | 5 | 0 | 5   | 0                        | 5 | 0 | 5   | 0         | 0 | 0 | 0   | 0               | 0 | 0  | 0   |
| Growth Factor (%):            | 2                        | 2 | 2 |     | 2                        | 2 | 2 |     | 2         | 2 | 2 |     | 2               | 2 | 2  |     |
| No-Build 2035 Volumes:        | 0                        | 6 | 0 | 6   | 0                        | 6 | 0 | 6   | 0         | 0 | 0 | 0   | 0               | 0 | 0  | 0   |
| Total New Trips:              | 0                        | 0 | 0 | 0   | 26                       | 0 | 0 | 26  | 0         | 0 | 0 | 0   | 0               | 0 | 60 | 60  |
| Future 2035 Traffic Volumes:  | 0                        | 6 | 0 | 6   | 26                       | 6 | 0 | 32  | 0         | 0 | 0 | 0   | 0               | 0 | 60 | 60  |