Transportation Analysis

Chastain Meadows DRI #3940

Cobb County, Georgia

June 2023

Prepared for:

Strategic Real Estate Partners, LLC

Prepared by:

Kimley-Horn and Associates, Inc. 11720 Amber Park Drive, Suite 600 Alpharetta, Georgia 30009 013805014

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EXECUTIVE SUMMARY

This report presents the analysis of the anticipated traffic impacts of the proposed *Chastain Meadows* development located in unincorporated Cobb County, Georgia. The approximate 57.28-acre site is located south of Chastain Road, west of Chastain Meadows Parkway, north of Big Shanty Road, and east of I-575. The proposed development will consist of the following land uses and densities contained in **Table 1**. The project is expected to be completed by 2025 (approximately 2 years).

Table 1: Proposed Land Use and Density					
Land Use	Proposed				
Light Industrial	425,000 SF				
Age-Restricted Multifamily Residential	220 units				
Townhomes	140 units				
Retail	7,500 SF				
Restaurant	22,500 SF				

The DRI analysis includes an estimation of the overall vehicle trips projected to be generated by the development, also known as gross trips. Mixed-use, alternative transportation mode, and pass-by reductions to gross trips are also included in the trip generation, as outlined in the Georgia Regional Transportation Authority (GRTA) Letter of Understanding (dated April 21, 2023).

Capacity analyses were performed for the study intersections under the Existing 2023 conditions, the Projected 2025 No-Build conditions, and the Projected 2025 Build conditions.

- Existing 2023 conditions represent current traffic volumes that were collected in April 2023. (Note: Traffic Count methodology was outlined in the methodology meeting packet).
- Projected 2025 No-Build conditions represent the Existing 2023 traffic volumes grown for two (2) years using a 2.0% per year growth rate, plus the addition of the project trips associated with the *Chastain Logistics Center* development and the *Edison Chastain Meadows Phase II* development.
- Projected 2025 Build conditions represent the Projected 2025 No-Build conditions plus the addition of the project trips that are anticipated to be generated by the *Chastain Meadows* development.

No-Build 2025 (System Improvements)

All study intersections currently operate at an acceptable overall intersection LOS. Any approaches operating at LOS F could be improved to an acceptable approach LOS with signal timing adjustments in lieu of physical improvements. Therefore, no system improvements recommended for the study intersections.

Build 2025 (Site Access Improvements)

Any approaches operating at LOS F could be improved to an acceptable approach LOS with signal timing adjustments as specified in the GRTA DRI review procedures. In order to serve the *Chastain Meadows* development, the following intersection improvements are recommended (to serve development traffic, shown in blue on **Figure 18**):

- Chastain Road at Chastain Meadows Parkway/Private Driveway (Intersection 4)
 - Pull the nose of the median along the south leg of Chastain Meadows Parkway back approximately 60 feet and replace with striping.
- Chastain Road at Site Driveway A (Intersection 6)
 - On the site, construct a northbound exclusive right-turn lane exiting the site.
 - Construct an exclusive eastbound right-turn lane along Chastain Road entering the site.
- Chastain Road at Chastain Lakes Drive/Site Driveway B (Intersection 7)
 - On the site, construct a northbound shared left-turn/through lane and a northbound exclusive right-turn lane exiting the site.
 - Utilize the existing westbound U-turn/left-turn lane along Chastain Road to enter the site.
 - Construct an exclusive eastbound right-turn lane along Chastain Road entering the site.
- Chastain Meadows Parkway at Site Driveway C (Intersection 8)
 - On the site, construct an eastbound driveway that connects to the existing stub along Chastain Meadows Parkway with one ingress lane entering the site and one egress lane exiting the site.
- Chastain Meadows Parkway at Site Driveway D (Intersection 9)
 - On the site, construct an eastbound exclusive left-turn lane and an eastbound exclusive right-turn lane exiting the site.
 - Utilize the existing northbound U-turn/left-turn lane along Chastain Meadows Parkway to enter the site.
 - Construct an exclusive southbound right-turn lane along Chastain Meadows Parkway entering the site.

Intersection	Movement	Storage Length	Projected Build Queue Length (AM / PM)	Recommendation
1. Chastain Road at George Busbee Parkway	SBL*	125	237 / 200 (50 th) 393 / 312 (95 th)	<i>No-Build (System Improvement):</i> Consider extending SBL lane storage.
4. Chastain Road at Chastain	NBL**	175	36 / <mark>191</mark> (50 th) 81 / <mark>366</mark> (95 th)	No-Build (System Improvement): Consider extending NBL lane storage.
Meadows Parkway/Private Driveway	WBL	175	57 / 44 (50 th) <mark>233</mark> / 112 (95 th)	Consider extending WBL lane storage.
5. Chastain Meadows Parkway at Big Shanty Road	EBL**	250	83 / 147 (50 th) 150 / <mark>289</mark> (95 th)	<i>No-Build (System Improvement):</i> Consider extending EBL lane storage.

Impacted Queue Lengths Exceeding Storage

* Exceeds available storage in Existing 2023 conditions

** Exceeds available storage in Projected 2025 No-Build Conditions

Other movements where the projected queueing exceeds the available storage are not impacted by the proposed development traffic.

1.0 PROJECT DESCRIPTION

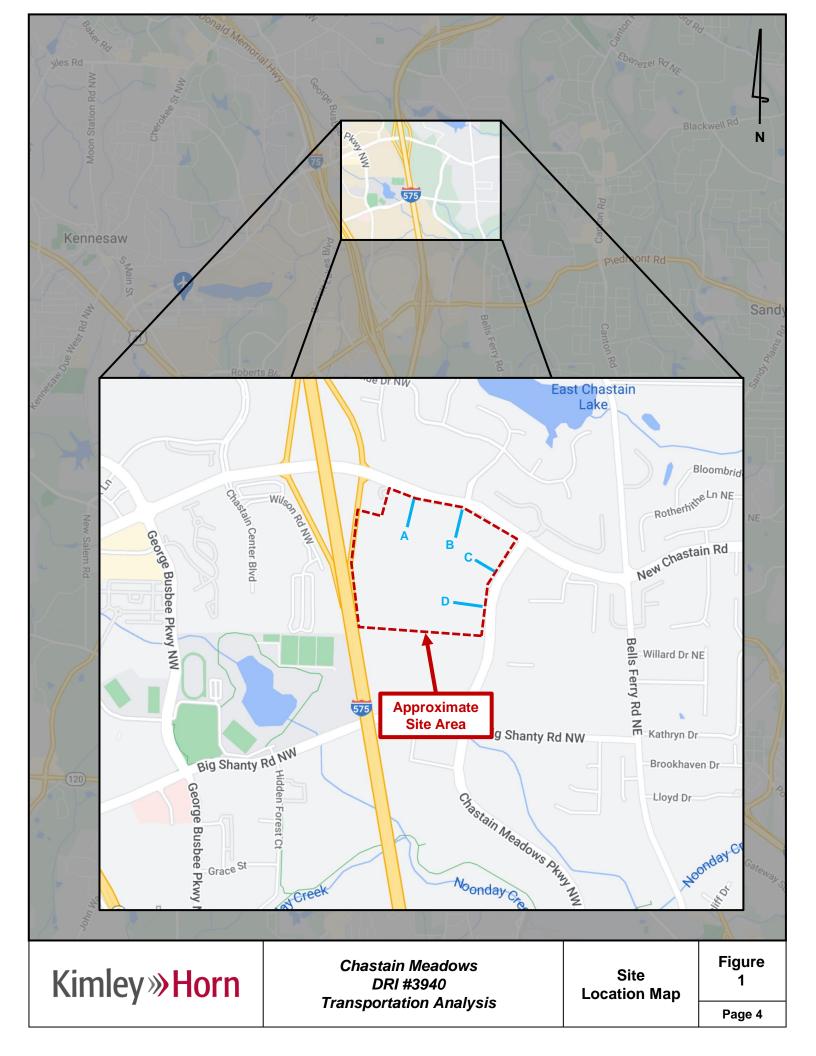
1.1 Introduction

This report presents the analysis of the anticipated traffic impacts of the proposed *Chastain Meadows* development located in unincorporated Cobb County, Georgia. The approximate 57.28-acre site is located south of Chastain Road, west of Chastain Meadows Parkway, north of Big Shanty Road, and east of I-575. The project site is currently zoned a combination of R-20 (Single-Family Residential), GC (General Commercial), NS (Neighborhood Shopping), OS (Office/Service), RA-4 (Single-Family Attached/Detached Residential), and O&I (Office Institutional). The site is proposed to be rezoned to PVC (Planned Village Community), and OS (Office/Service) to accommodate the proposed land-uses, and the rezoning application was filed on March 3, 2023. **Figure 1** provides a location map of the project site. **Figure 2** provides an aerial view of the project site and surrounding area. The proposed development will consist of the following land uses and densities contained in **Table 2**. The project is expected to be completed by 2025 (approximately 2 years).

Table 2: Proposed Land Use and Density					
Land Use	Proposed				
Light Industrial	425,000 SF				
Age-Restricted Multifamily Residential	220 units				
Townhomes	140 units				
Retail	7,500 SF				
Restaurant	22,500 SF				

A reference of the proposed site plan is provided in **Appendix A**. A full-sized site plan consistent with GRTA's Site Plan Guidelines is also being submitted as part of the review package.

The project is considered a Development of Regional Impact (DRI) and is subject to Georgia Regional Transportation Authority (GRTA) and Atlanta Regional Commission (ARC) review due to the project size exceeding 600,000 SF of new mixed-use development in *Regional Employment Corridor* and *Regional Center* area per the Atlanta Region's Plan *Unified Growth Policy Map*. The DRI was formally triggered with the filing of the Initial DRI Information (Form 1) on March 13, 2023 by Cobb County. The rezoning application was filed with Cobb County on March 3, 2023. This transportation analysis includes all inputs and methodologies discussed at the DRI Methodology Meeting with GRTA, ARC, and other stakeholders. The inputs and methodologies are outlined in the GRTA Letter of Understanding (LOU).





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Chastain Meadows DRI #3940 Transportation Analysis

Site Aerial Figure 2 Page 5

1.2 Site Access

As currently envisioned, the proposed development will be accessible via four (4) total access points (1 existing, 3 proposed). No new median openings are proposed.

- Site Driveway A an existing, unsignalized, right-in/right-out driveway located along Chastain Road approximately 620 feet east of the I-575 Northbound Ramps. Site Driveway A is proposed to provide access to the residential, retail, and restaurant buildings of the development.
- 2. Site Driveway B a proposed, unsignalized, full movement driveway located along Chastain Road approximately 1,340' east of the I-575 Northbound Ramps and 835' west of Chastain Meadows Parkway, aligning with Chastain Lakes Drive. Site Driveway B will create the 4th (south) leg of the intersection of Chastain Road and Chastain Lakes Drive. Site Driveway B is proposed to provide access to the residential, retail, and restaurant buildings of the development. Site Driveway B is located at an existing median opening.
- Site Driveway C a proposed, unsignalized, full movement driveway located at the existing driveway stub along Chastain Meadows Parkway approximately 420' south of Chastain Road. Site Driveway C is proposed to provide access to the residential, retail, and restaurant buildings of the development. Site Driveway C is located at an existing median opening.
- 4. Site Driveway D a proposed, unsignalized, full movement driveway located along Chastain Meadows Parkway approximately 900' south of Chastain Road. Site Driveway D will create the 4th (west) leg of the intersection of Chastain Meadows Parkway and a Private Driveway for 3300 Chastain Meadows Parkway. Site Driveway D will provide access to the light industrial buildings of the development. Site Driveway D is located at an existing median opening.

1.3 Internal Circulation Analysis

Internal roadways throughout the site provide vehicular access to all buildings and parking on the site. See referenced site plan in **Appendix A** for a visual representation of vehicular access and circulation throughout the proposed development. Pedestrian facilities are currently under consideration along internal streets between the various land uses, and will be developed per Cobb County requirements.

The site is comprised of two (2) main areas: Mixed-Use and Light Industrial. There is no vehicular connectivity between the Mixed-Use and Light Industrial areas of the site. Site access and connectivity for each site area is summarized below:

- Mixed-Use: The Mixed-Use area includes all the residential, retail, and restaurant buildings. The Mixed-Use area is located in the northern portion of the site along Chastain Road and Chastain Meadows Parkway. This area can be accessed from Site Driveway A, Site Driveway B, and Site Driveway C. The internal roadways throughout this portion of the site provides access between the residential, retail, and restaurant buildings.
- Light Industrial: The Light Industrial area includes all the industrial buildings. The Light Industrial area is located in the southern portion of the site along Chastain Meadows Parkway. This area can be accessed from Site Driveway D.

1.4 Parking

The current number of total site parking spaces to be provided are listed below in **Table 3**. The required number of parking spaces is provided in the <u>Cobb County code</u>.

Table 3: Proposed Parking					
Land Use	Required	Proposed			
Warehouse (>250K SF)	213 1 per 2,000 SF	433 1 per 1,360 SF			
Retail/Restaurant	150 1 per 200 SF	204 1 per 119 SF			
Age-Restricted Multifamily Residential	330 1.5 per dwelling	330 1.5 per dwelling			
Townhomes	280 2 per dwelling	280 2 per dwelling			
Total	973 spaces	1,247 spaces			

A total of 1,247 parking spaces are proposed for the site, proposed to be located in surface lots at each building of the development. The site development is currently in progress and the number of parking provided is subject to change.

1.5 Alternative Transportation Facilities

Pedestrian sidewalk facilities are currently provided along at least one side of the roadway along the site frontages. Pedestrian and bicycle facilities internal to the site connect to each land use. A connection from the internal pedestrian and bicycle facilities to the greater transportation network is currently under consideration and will be implemented as required by Cobb County.

There are no transit stops located on the site or on the site frontage. The Town Center Park and Ride is located approximately 1 mile southwest of the project site. The Park and Ride is served by Cobb Linc and GRTA Xpress bus routes.

The Cobb County Trails Master Plan and Town Center CID identifies that there is a multi-use path that is anticipate along the north and east frontage of the site. The multi-use path is planned to run along the west side of Chastain Meadows Parkway and the south side of Chastain Road. Additionally, the developer has the opportunity to participate in the Town Center CID bike share program.

1.6 Enhanced Focus Area for Dense Urban Environments

Per Section 3.2.4.2 of the GRTA *Development of Regional Impact Review Procedures* the *Chastain Meadows* development does not qualify for a "Dense Urban Environment Enhanced Focus Area" review, due to its location within Cobb County.

1.7 Heavy Vehicle Enhanced Focus Area

Per Section 3.2.4.1 of the GRTA Development of Regional Impact Review Procedures, *the Chastain Meadows* development qualifies for a "Heavy Vehicle Enhanced Focus Area" review, due to the development generating heavy vehicles.

1.7.1 Heavy Vehicle Routing

Figure 3 depicts the proposed truck routes that will serve project traffic (highlighted blue). The following segments are included in the Enhanced Focus Area (highlighted yellow):

• Chastain Meadows Parkway between Chastain Road and Big Shanty Road

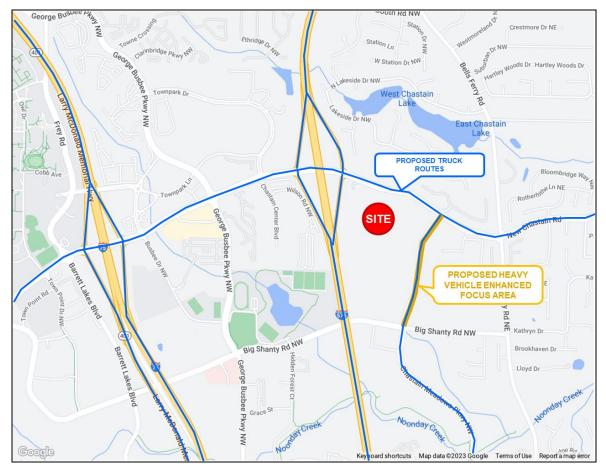


Figure 3: Heavy Vehicle Routing

1.7.2 Pavement Condition

A site visit was conducted on May 30, 2023. Pavement conditions within the Enhanced Focus Area were noted during the site visit. Pavement within the Heavy Vehicle focus area is generally in good condition. Repaired pavement distress was observed in one (1) location, pavement cracking was observed in one (1) location, and a stormwater grate was observed in one (1) location, as outlined in **Table 4**. No pavement distress was noted at locations between intersections. A relocation of the stormwater grate should be considered during the Big Shanty Road Widening project (Cobb SPLOST X2411).

Figure 4 shows repaired pavement cracking along Chastain Road. Figure 5 shows a minor pavement crack along Chastain Meadows Parkway. Figure 6 shows a stormwater grate in the intersection of Chastain Meadows Road at Big Shanty Road.

Table 4: Pavement Condition Observations						
Number	Roadway	Location	Observed Distress			
1	Chastain Road	Along Chastain Road at Chastain Meadows Parkway	Repaired Pavement Cracking			
2	Chastain Meadows Parkway	Along Chastain Meadows Parkway approximately 660 feet south of Chastain Road	Minor Pavement Cracking			
3	Intersection of Chastain Meadows Parkway at Big Shanty Road	Intersection of Chastain Meadows Parkway at Big Shanty Road	Stormwater Grate			



Figure 4: Chastain Road Repaired Pavement Cracking



Figure 5: Chastain Meadows Parkway Southbound Turn Lane Minor Cracking



Figure 6: Chastain Meadows Parkway at Big Shanty Road Stormwater Grate

1.7.3 Roadway Width

The lane widths for the Enhanced Focus Area are shown in **Table 5**. The Cobb County right-of-way standards were taken from the <u>Cobb County Development Standard</u> document, which notes that roadways with arterial classifications use the minimum right-of-way width of 100' to 110'. Roadways with the major collector classification use the minimum right-of-way width of 80'. Roadways with the minor collector classification have a minimum right-of-way with of 60'. Roadways that are non-residential are to have a lane width of 12'.

Lane width dimensions were measured on NearMap.

Table 5: Roadway Widths					
Roadway	Lane Width	ROW Width Standard (Cobb County)	Lane Width Standard (Cobb County)		
Chastain Meadows Parkway	12 ft	110 ft	12 ft desirable		

1.7.4 Corner Radii

The corner radii of one (1) study intersection was analyzed along the Enhanced Focus Area:

1. Chastain Road at Chastain Meadows Parkway/Private Driveway

The corner radii for the intersection of Chastain Meadows Parkway at Big Shanty Road was not analyzed, as Big Shanty is not a designated truck route.

Note: The GDOT Regulations for Driveway and Encroachment Control outlines minimum corner radii for trucks as 75 feet.

Chastain Road at Chastain Meadows Parkway/Private Driveway (Entering)

Figure 7 outlines the anticipated wheel-path for a WB-67 vehicle entering the site by making an eastbound right-turn from Chastain Road onto Chastain Meadows Parkway. The existing curb radius is approximately 43 feet. The WB-67 truck does not impede traffic along Chastain Meadows Parkway to make the maneuver, however the wheel path of the truck is projected to run over the south leg median of the intersection. The nose of the median should be pulled back 60' to allow the maneuver and the median should be designated through pavement striping.

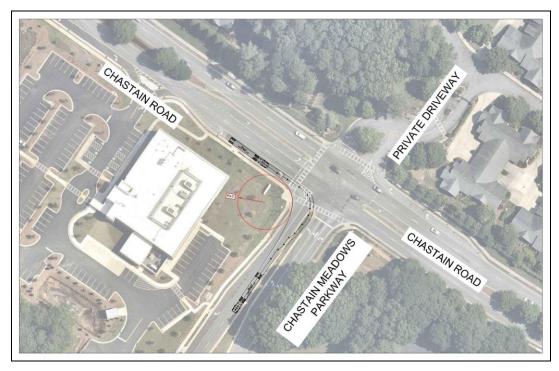


Figure 7: Chastain Road at Chastain Meadows Parkway/Private Driveway – Eastbound Right (Entering Truck)

Chastain Road at Chastain Meadows Parkway/Private Driveway (Exiting)

Figure 8 outlines the anticipated wheel-path for a WB-67 vehicle exiting the site by making a northbound left-turn from Chastain Meadows Parkway onto Chastain Road. The existing curb radius is approximately 43 feet. The WB-67 truck does not impede traffic to make the maneuver.

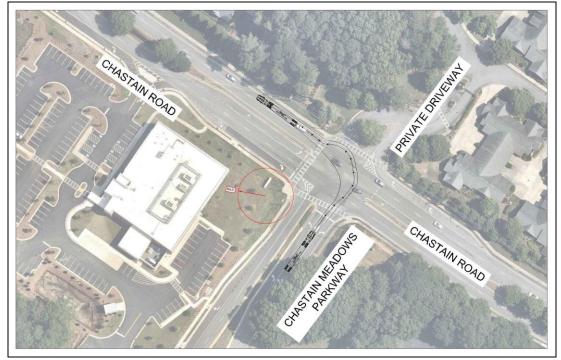


Figure 8: Chastain Road at Chastain Meadows Parkway/Private Driveway – Northbound Left (Exiting Truck)

1.7.5 Heavy Vehicle Staging

The site plan includes a designated truck court to accommodate heavy vehicle queueing, staging, and overflow. **Figure 9** indicates the designated truck staging/overflow areas on the site plan, circled in red.



Figure 9: Heavy Vehicle Staging

2.0 TRAFFIC ANALYSES, METHODOLOGY AND ASSUMPTIONS

2.1 Study Network Determination

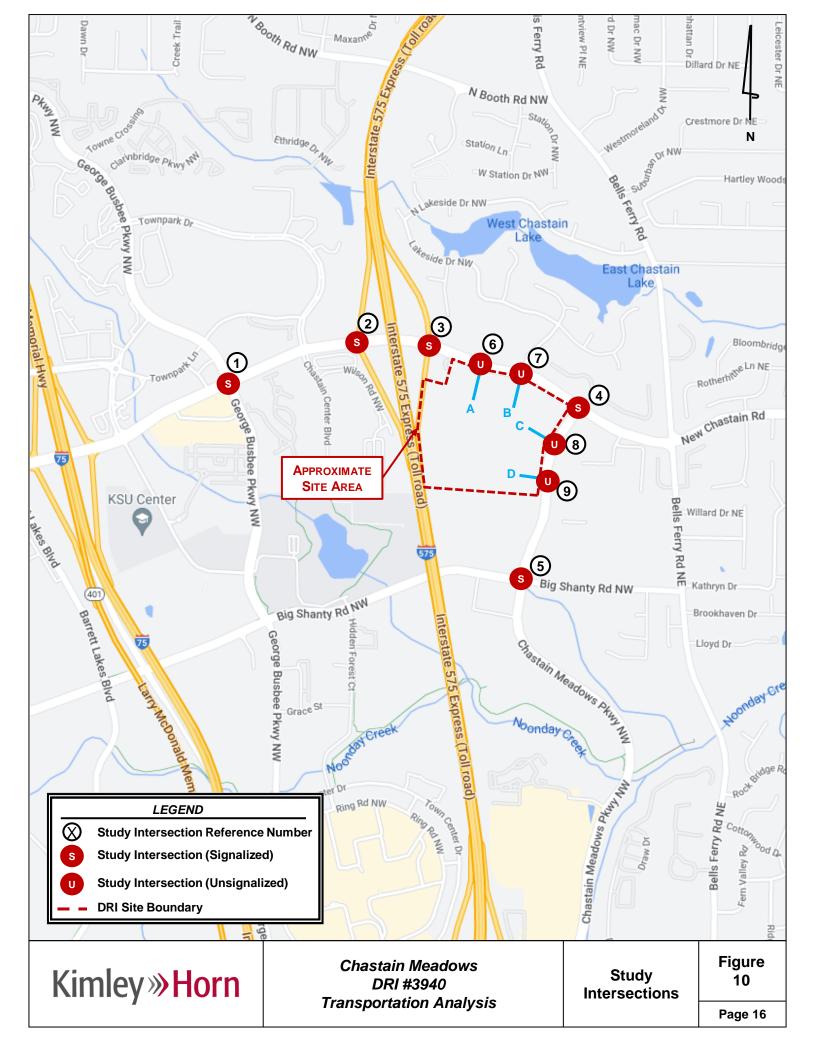
The study area was determined at the methodology meeting with input from GRTA, ARC, and other local agency stakeholders. The study includes the following five (5) off-site intersections plus four (4) site driveways described in **Table 6** and is shown visually in **Figure 10**.

	Table 6: Intersection Control Summary						
	Intersection Jurisdiction Control						
1.	Chastain Road at George Busbee Parkway	Cobb	Signal				
2.	Chastain Road at I-575 SB Ramps	Cobb/GDOT	Signal				
3.	Chastain Road at I-575 NB Ramps	Cobb/GDOT	Signal				
4.	Chastain Road at Chastain Meadows Parkway/Private Driveway	Cobb	Signal				
5.	Chastain Meadows Parkway at Big Shanty Road	Cobb	Signal				
6.	Chastain Road at Site Driveway A	Cobb	TWSC				
7.	Chastain Road at Chastain Lakes Drive/Site Driveway B	Cobb	TWSC				
8.	Chastain Meadows Parkway at Site Driveway C	Cobb	TWSC				
9.	Chastain Meadows Parkway at Private Driveway/Site Driveway D	Cobb	TWSC				

2.2 Existing Roadway Facilities

Roadway classification descriptions and estimated Annual Average Daily Traffic (AADT) for roadway segments within the study network are provided in **Table 7** (bolded roadways are adjacent to the site).

Table 7: Roadway Classifications						
Roadway	Lanes	AADT	Cobb County Functional Class	GDOT Functional Classification		
Chastain Road	4	17,600	Arterial	Minor Arterial		
Chastain Meadows Parkway	4	13,900	Arterial	Local Road		
I-575	4	97,000	Interstate	Interstate		
George Busbee Parkway	4	14,300	Arterial	Major Collector		
Big Shanty Road	2	N/A	Major Collector	Local Road		



2.3 Traffic Data Collection and Calibration

New traffic counts were collected at the existing study intersections on Wednesday, April 26, 2023. Per GDOT Policy issued on July 15, 2022, traffic forecasts based on new traffic count data collected after the start of the Fall 2022 school year will no longer be required to follow COVID-19 policy procedures. Therefore, no COVID adjustment factor was applied. The traffic count methodologies used in this analysis were outlined in the Methodology Meeting Packet.

	Table 8: Traffic Count Summary						
	Intersection	Count Date	AM Peak Hour	PM Peak Hour			
1.	Chastain Road at George Busbee Parkway	4/2023	7:45 – 8:45 AM	4:45 – 5:45 PM			
2.	Chastain Road at I-575 Southbound Ramp	4/2023	7:30 – 8:30 AM	4:30 – 5:30 PM			
3.	Chastain Road at I-575 Northbound Ramp	4/2023	7:15 – 8:15 AM	4:30 – 5:30 PM			
4.	Chastain Road at Chastain Meadows Parkway/Private Driveway	4/2023	7:30 – 8:30 AM	4:45 – 5:45 PM			
5.	Chastain Meadows Parkway at Big Shanty Road	4/2023	7:45 – 8:45 AM	5:00 – 6:00 PM			
7.	Chastain Road at Chastain Lakes Drive/Site Driveway B	4/2023	7:15 – 8:15 AM	4:45 – 5:45 PM			
8.	Chastain Meadows Parkway at Site Driveway C	4/2023	7:30 – 8:30 AM	4:45 – 5:45 PM			
9.	Chastain Road at Private Driveway/Site Driveway D	4/2023	7:30 – 8:30 AM	5:00 – 6:00 PM			

Traffic count peak hours for all the study intersections are shown in **Table 8**.

The collected peak hour turning movement traffic counts are available upon request.

2.4 Background Growth

Background traffic is defined as expected traffic on the roadway network in future year(s) absent the construction and opening of the proposed *Chastain Meadows* development. Background traffic can include a base growth rate based on historical count data and population growth data as well as trips anticipated from nearby or adjacent other projects.

Based on methodology outlined in the GRTA Letter of Understanding (LOU), a 2.0% per year background traffic growth rate from 2023 to 2025 (2 years) was used for all roadways. The Projected 2025 No-Build conditions represent the Existing 2023 traffic volumes grown for two (2) years at 2.0% per year throughout the study network, plus project trips associated with the *Chastain Logistics Center* development and the *Edison Chastain Meadows Phase II* development.

The Projected 2025 Build conditions represent the project trips generated by the *Chastain Meadows* development (discussed in Section 3.0 and 4.0) added to the Projected 2025 No-Build Conditions.

2.5 Programmed and Planned Projects

Programmed and planned projects near the project site were researched to account for any improvements or modifications within the study network before or by the build-out year of the development. The programmed and planned projects were discussed in the methodology meeting with GRTA, ARC, and other local stakeholders. Project information was obtained from GeoPI (GDOT) and the Atlanta Region's Plan (ARC), and Cobb County SPLOST Project List. The projects shown in **Table 9** and **Table 10** are programmed or planned to occur near the development beyond the build-out year of the proposed development and are not anticipated to affect the study network.

	Table 9: Programmed Projects											
Project Name	From / To Points:	Sponsor	GDOT PI #	ARC ID # (TIP)	Design FY	ROW / UTL FY	CST FY					
Big Shanty Road Widening	Chastain Meadows Parkway to Bells Ferry Road	Cobb County (X2411)	<u>0019616</u>	<u>CO-</u> 297B	2023	2025	2026					

	Table 10: Planned Projects											
Project Name	From / To Points:	Potential Sponsor	Project ID #	Project Timeline	Planning Document							
Connect Cobb/Northwest Atlanta High Capacity Premium Transit Service	Kennesaw State University to Cumberland Activity Center	Cobb County	<u>AR-475</u>	2050	ARC Fact Sheet							
Cobb County Multi- Use Path Extension	Along Chastain Meadows Parkway and Shanty Road	Town Center CID	-	-	Town Center CID Master Plan							

Available fact sheets for projects listed in the tables above can be found in Appendix D.

2.6 Level-of-Service Overview

Level-of-service (LOS) is used to describe the operating characteristics of a road segment or intersection in relation to its capacity. LOS is defined as a qualitative measure that describes operational conditions and motorists' perceptions within a traffic stream. The *Highway Capacity Manual* defines six levels-of-service, LOS A through LOS F, with A being the best and F being the worst. LOS analyses were conducted at all intersections within the study network using *Synchro 11*. Existing traffic signal phasing and timing data was provided by Cobb County for available intersections.

LOS for signalized intersections are reported for the intersection as a whole. One or more movements at an intersection may experience a low LOS, while the intersection as a whole may operate acceptably.

LOS for unsignalized intersections, with stop control on the minor street only, is reported for the side street approaches and the major street left-turn movements. Low LOS for side street approaches is not uncommon, as vehicles may experience delays in turning onto a major roadway.

2.7 Level-of-Service Standards

For the purposes of this traffic analysis, a LOS standard of E was assumed for all study intersections, due to their location within a *Regional Employment Corridor* and *Regional Center* area per the ARC Unified Growth Policy Map, per section 3.2.2.1 of the GRTA *Development of Regional Impact Review Procedures.*

3.0 TRIP GENERATION

Gross trips associated with the proposed development were estimated using the *Institute of Transportation Engineers' (ITE) Trip Generation Manual, 11th Edition, 2021, using equations where available. Reductions to gross trips are also considered in the analysis, including mixed-use reductions and alternative transportation mode reductions.*

Mixed-use reductions occur when a site has a combination of different land uses that interact with one another. For example, people living in a residential development may walk to the restaurants and retail instead of driving off-site or to the site. This reduces the number of vehicle trips that will be made on the roadway, thus reducing traffic congestion.

Alternative modes reductions are taken when a site can be accessed by modes other than vehicles (walking, bicycling, transit, etc.). Alternative mode reductions were taken at 2% per the LOU.

Pass-by reductions are taken for a site when traffic normally traveling along a roadway may choose to visit a retail or restaurant establishment that is along the vehicle's path. These trips were already on the road and would therefore only be new trips on the driveways.

Table 11 summarizes the gross trip generation, reductions, net trip generation, and driveway volumes for the proposed *Chastain Meadows* development.

	٦	Table 11:	Trip Gene	ration					
Land Use	Density	D	aily Traffi	C	AM Pea	k Hour	PM Peak Hour		
Land Use	Density	Total	Enter	Exit	Enter	Exit	Enter	Exit	
110 – General Light Industrial	° 4/5 000 SE			824	258	35	39	237	
215 – Single Family Attached Housing	1,016	508	508	17	50	47	33		
252 – Senior Adult Housing - Attached			330	330	15	28	31	24	
822 – Strip Retail (<40K SF)	7,500 SF	546	273	273	14	10	32	31	
932 – High-Turnover (Sit-Down) Restaurant	22,500 SF	2,412	1,206	1,206	118	97	124	80	
Gross Project Tr	ips	6,282	3,141	3,141	422	220	273	405	
Mixed-U	-592	-296	-296	-22	-22	-60	-60		
Alternative Me	-112	-56	-56	-8	-4	-4	-7		
Pass	-By Reductions	-1,078	-539	-539	-0	-0	-37	-37	
Net New Trips	5	4,500	2,250	2,250	392	194	172	301	

A more detailed trip generation analysis summary table is provided in **Appendix B**.

4.0 TRIP DISTRIBUTION AND ASSIGNMENT

The distribution of new project trips was based on the project land uses, a review of land use densities and road facilities in the area, engineering judgement, and methodology discussions with GRTA, ARC, and other local stakeholders.

The anticipated distribution and assignment of the trips throughout the study roadway network is shown for residential land uses in **Figure 11**; retail land uses in **Figure 12**; heavy vehicle (truck) warehouse uses in **Figure 13**; and for employee (car) warehouse uses in **Figure 14**. The peak hour project trips are shown by turning movement throughout the study network in **Figure 15**.

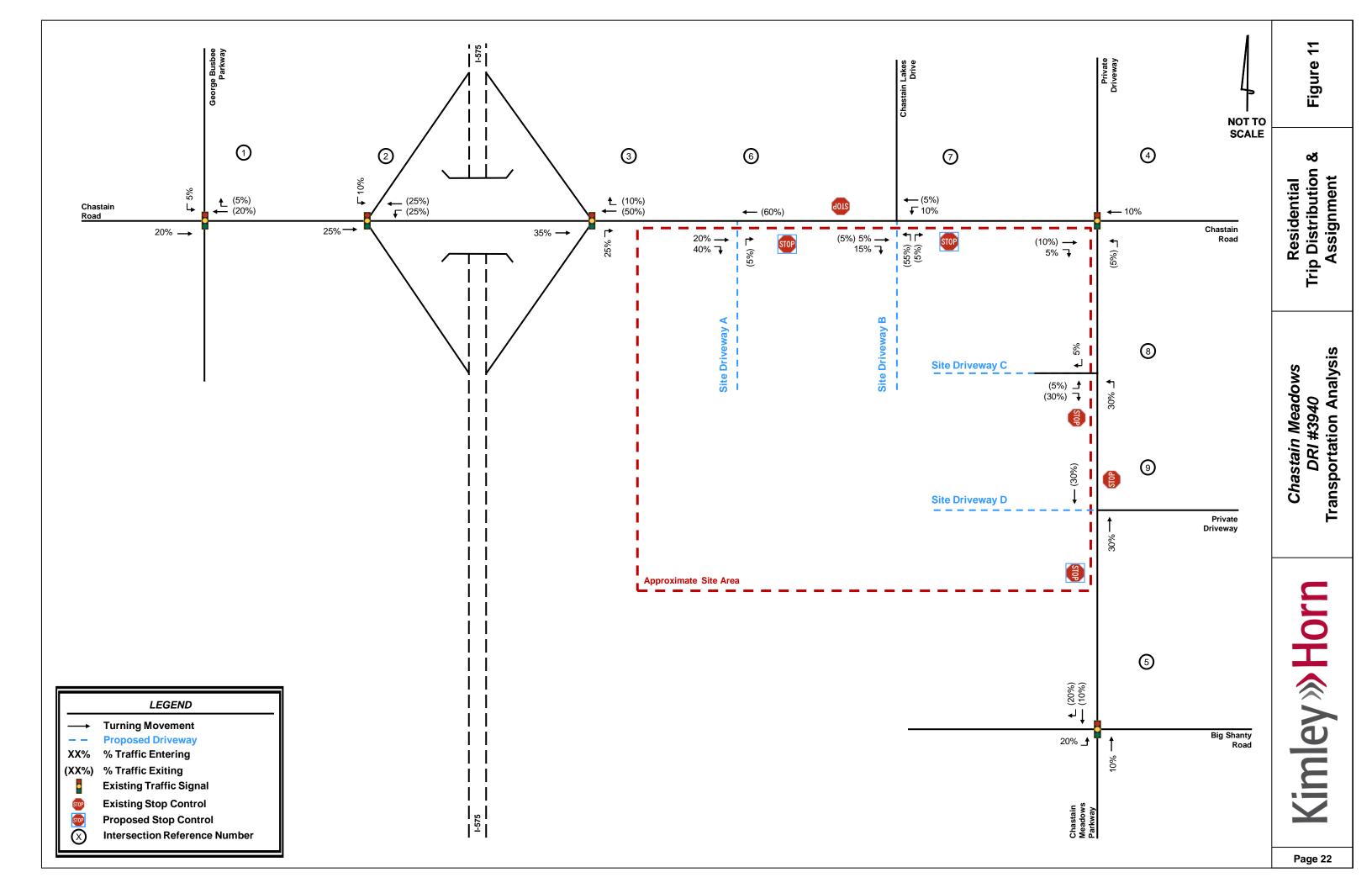
Detailed intersection volume worksheets are provided in Appendix C.

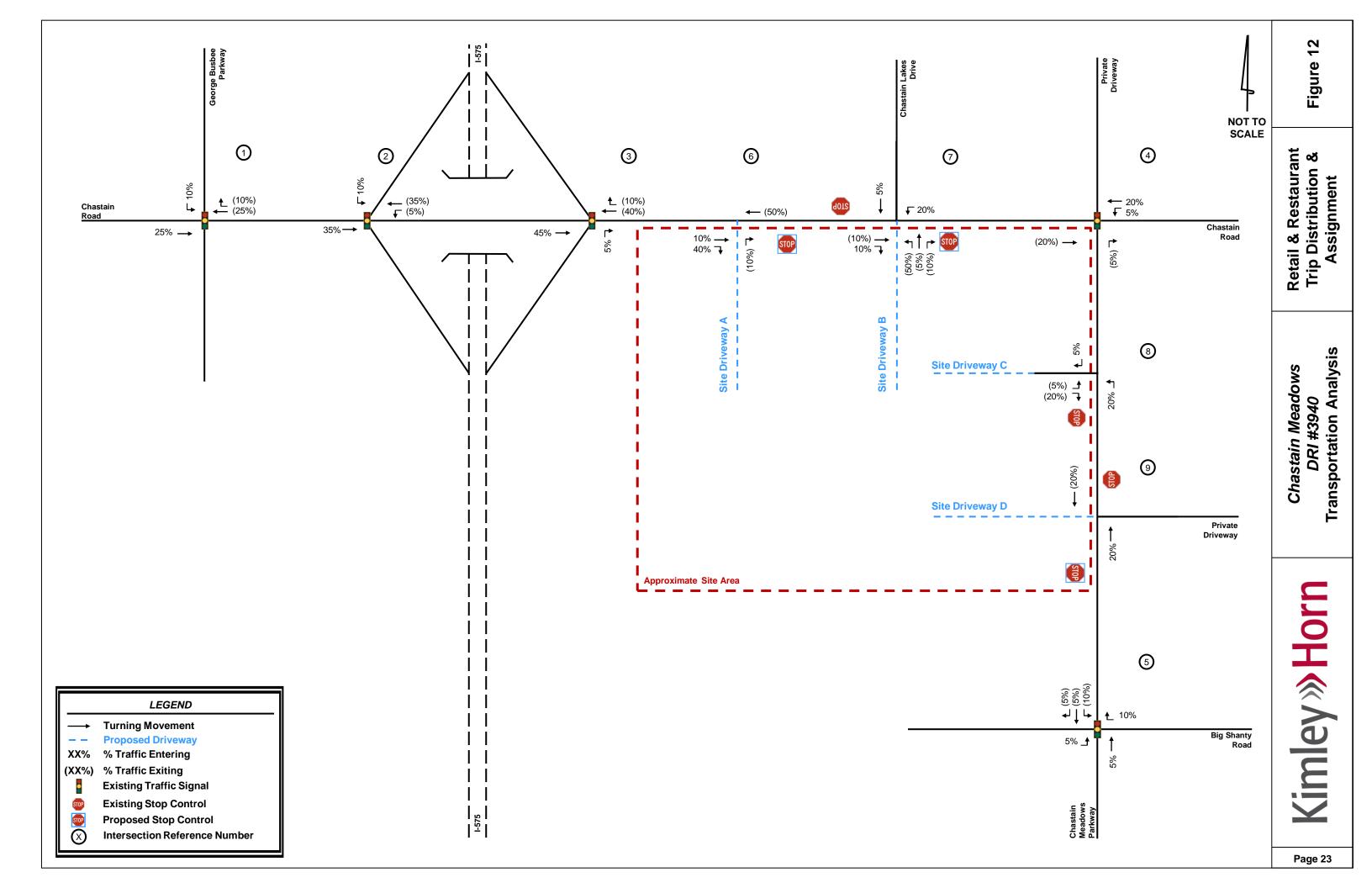
5.0 TRAFFIC ANALYSIS

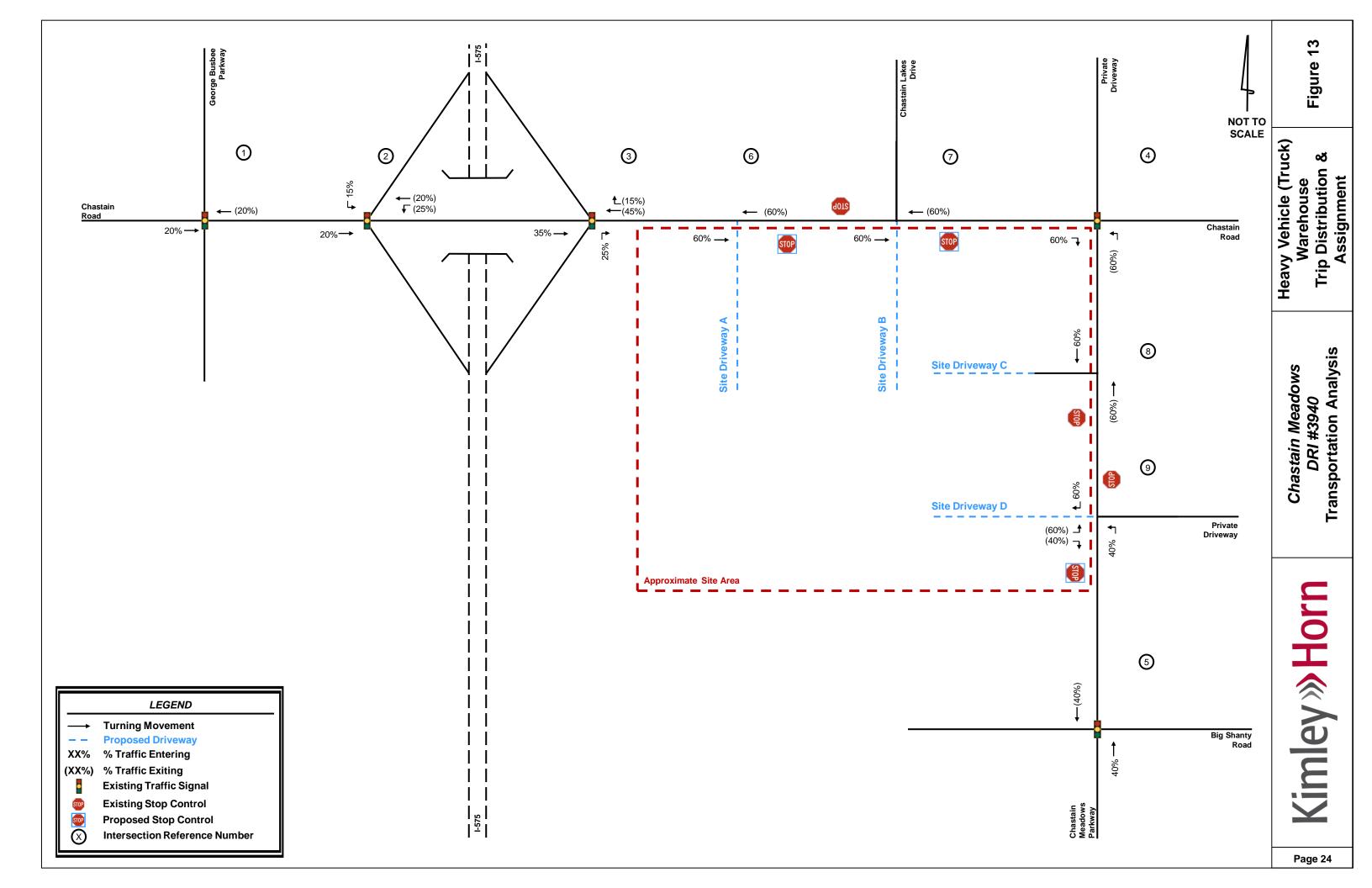
Capacity analyses were performed using *Synchro 11* for the AM and PM peak hours under Existing 2023 conditions, Projected 2025 No-Build conditions, and Projected 2025 Build conditions. The capacity analyses were performed using methodologies from the *Highway Capacity Manual (HCM), 6*th *Edition.*

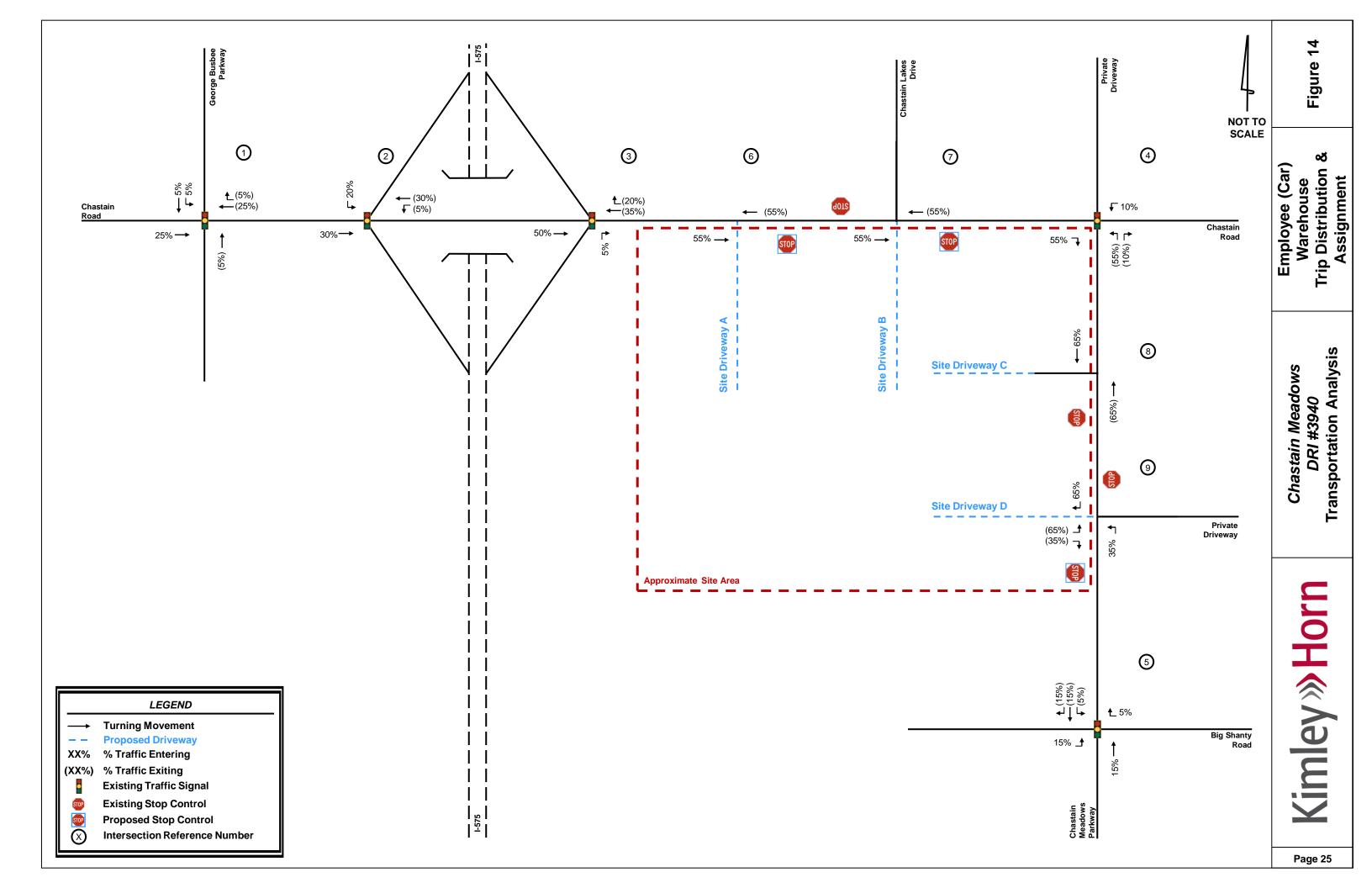
These analyses included existing roadway laneage and signal timing data for each of the scenarios. The traffic volumes and roadway laneage used for each scenario are shown visually in **Figure 16** for Existing 2023 conditions, **Figure 17** for Projected 2025 No-Build conditions, and **Figure 18** for Projected 2025 Build conditions.

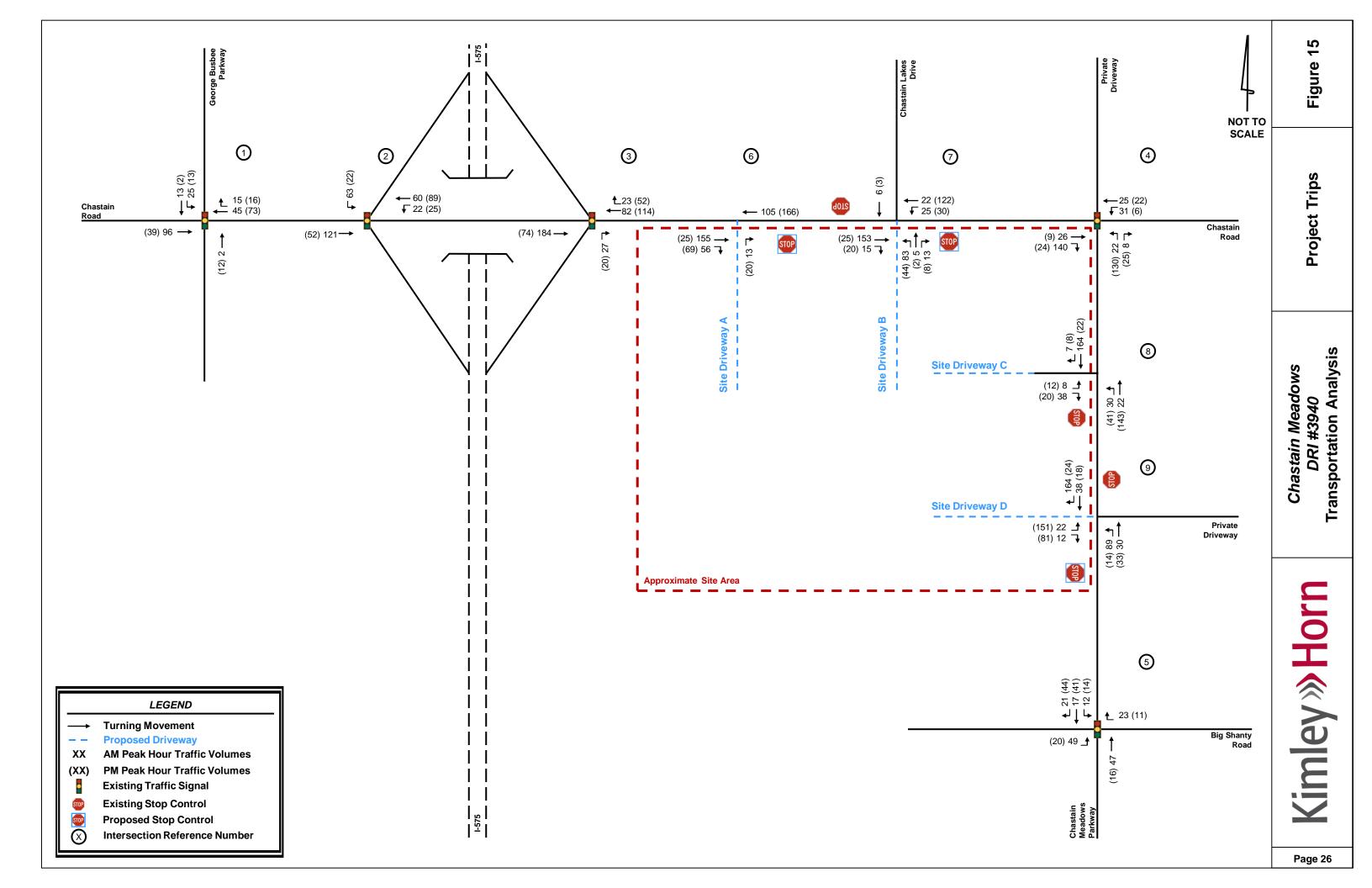
Sections 5.1 – 5.9 provide the results of the capacity analyses are presented for each intersection and include projected LOS, delay, and queue lengths.











5.1	Chastain Road at George Busbee Parkway (Intersection 1))
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		_OS Standard: E LOS Standard: E		orge Bus Parkway	/		orge Bus Parkway	/		astain R		Chastain Road		
, .pp	reach			orthbour		. Se	outhbou		E	astboun		. N	/estbour	
			L	Т	R	L	Т	R	L	Т	R	L		R
	Ļ	Overall LOS				1		D (3				1		
(T	-	Approach LOS		E (62.4)			E (64.1)			<u>C (31.0)</u>			<u>C (26.2)</u>	
EXISTING (SIGNAL)	AM	Storage	150		150	125			400		250	525		275
	Ļ	50th Queue	17	63	0	198	86		157	216	0	242	145	2
(S		95th Queue	36	97	70	315	127		228	291	0	186	133	3
5 2		Overall LOS						D (4	1.9)					
Ē		Approach LOS		E (78.5)			E (55.7)			D (35.7)			C (30.8)	1
(IS	Μd	Storage	150		150	125			400		250	525		275
ш	_	50th Queue	29	183	1	173	191		163	216	0	230	262	47
		95th Queue	54	261	89	253	254		235	280	3	180	193	18
		Overall LOS						D (3	8.0)					
Ê		Approach LOS		E (62.8)		E (75.4)			C (31.8)				C (26.6))
Ă	AM	Storage	150		150	125			400		250	525		275
ß		50th Queue	18	65	0	219	91		164	247	0	265	160	0
s)	Ī	95th Queue	37	100	70	365	132		236	324	0	196	122	0
NO-BUILD (SIGNAL)		Overall LOS				•	•	D (4	3.0)			•	•	
I.	-	Approach LOS		E (79.5)		E (55.8)			D (37.3)					
E -	M	Storage	150		150	125			400		250	525		275
ž	-	50th Queue	30	193	10	188	200		170	239	0	273	296	0
	Ī	95th Queue	55	277	105	273	264		243	305	5	222	221	0
		Overall LOS						D (3	8.6)					
		Approach LOS		E (62.9)			E (73.8)			C (33.3)			C (27.5)	
AL)	AM	Storage	150		150	125			400		250	525		275
Ň		50th Queue	18	66	0	237	94		164	285	0	267	148	0
00		95th Queue	37	101	70	393	136		236	369	0	215	144	0
) (;		Overall LOS						D (4						
	_	Approach LOS		E (77.9)			E (56.8)			D (38.2)			C (33.4)	
BUILD (SIGNAL)	РМ	Storage	150		150	125			400		250	525		275
		50th Queue	30	201	15	200	201		170	253	0	274	293	0
		95th Queue	55	281	110	312	265		243	321	5	237	243	0

The intersection of Chastain Road at George Busbee Parkway (Intersection 1) is projected to operate at an acceptable <u>overall</u> LOS under the Existing 2023, Projected 2025 No-Build, and Projected 2025 Build conditions. Due to the increase in volume on the intersection, the northbound and southbound approaches failed during the AM and PM peak hours. To accommodate the increase in traffic, the split time for the approaches were adjusted to accommodate the additional demand, per the GRTA DRI Review Procedures. As a result, the northbound and southbound approaches operate at an acceptable LOS under Projected 2025 Build conditions. Since a change in signal timing would improve the northbound and southbound approaches to an acceptable LOS, no physical improvements are recommended to be conditioned.

		LOS Standard: E LOS Standard: E		5 Southb Ramps			Southb Ramps			astain R			astain R	
				orthbou	R		outhbou	R		astboun T	a R		/estbour	R
		Overall LOS	-	•			•	B (1	2.6)	•		-	•	
\cap		Approach LOS				F (81.4)			A (9.4)			A (4.8)		
Į	AM	Storage						250				350		
Ū	1	50th Queue					143	1347		57	0	3	6	
(S		95th Queue					235	1612		101	3	41	8	
EXISTING (SIGNAL)		Overall LOS		A (6.1)									•	
Ē		Approach LOS					F (80.1)			A (5.9)			A (2.2)	
(IS	Μd	Storage						250				350		
ŵ	-	50th Queue					58	1293		110	0	9	71	
		95th Queue					109	1556		117	1	60	163	
		Overall LOS						B (1	8.0)					
Î		Approach LOS				ŀ	F (111.5)		B (11.4)			A (6.3)	
NO-BUILD (SIGNAL)	AM	Storage						250				350		
Ū		50th Queue					202	1460		66	0	33	103	
s)		95th Queue					362	1725		109	3	52	127	
2		Overall LOS	A (8.1)											
۳.		Approach LOS					F (87.8)			A (7.3)			A (3.0)	
H ا ا	Μd	Storage						250				350		
ž		50th Queue					92	1439		116	0	15	117	
		95th Queue					157	1704		130	0	25	138	
		Overall LOS				-		C (2						
	5	Approach LOS		-	-		E (77.8)			<u>B (17.3)</u>			B (11.0)	
AL	AM	Storage						250				350		
U U U		50th Queue					244	1478		513	0	71	159	
Si		95th Queue					374	1743		634	4	157	195	
BUILD (SIGNAL)		Overall LOS				-		A (9	9.2)				A (4 C)	
	5	Approach LOS		r	r		E (79.4)			A (8.5)		250	A (4.0)	
В	ΜЧ	Storage					100	250 1460		556	0	350	178	
		50th Queue 95th Queue					109 178	1460		556 686	0	26 71	210	
							1/0	1720		000	3	11	210	

The intersection of Chastain Road at I-575 Southbound Ramps (Intersection 2) is projected to operate at an acceptable <u>overall</u> LOS under the Existing 2023, Projected 2025 No-Build, and Projected 2025 Build conditions. However, the southbound approach fails under all studied scenarios. Due to the increase in volume on the southbound movement during the AM and PM peak hour, the split time for the approach was adjusted to accommodate the additional demand, per the GRTA DRI Review Procedures. As a result, the southbound approach operates at an acceptable LOS under Projected 2025 Build conditions. Since a change in signal timing would improve the southbound approach to an acceptable LOS, no physical improvements are recommended to be conditioned.

Significant queueing is projected along the southbound free-flow right-turn movement. The Town Center CID is investigating a new right-turn slip lane from the I-575 Southbound Ramp to Townpark Drive, which will alleviate the queueing on this movement. The *Chastain Meadows* development will not be adding any additional traffic to the southbound right-turn movement of Intersection 2 and will not further impact the southbound right-turn queueing.

		OS Standard: E		5 Northbo Ramps			5 Northb Ramps		-	astain R		_	Chastain Road		
7.PP	louon		N	orthbour		. So	outhbou		E	astbour		V	Vestbour		
			L	Т	R	L	Т	R	L	Т	R	L	Т	R	
	-	Overall LOS						C (2	,			1			
(T)	-	Approach LOS		E (63.0)			r	1		C (19.7)			B (13.7)		
NA	AM	Storage	425						400					175	
Ð		50th Queue	87		0				243	67			160	0	
(S		95th Queue	125		54				309	178			244	4	
EXISTING (SIGNAL)		Overall LOS						C (2	8.6)						
Ē	_	Approach LOS		E (72.1)						C (25.7)			C (21.9)		
XIS	M	Storage	425						400					175	
Ê		50th Queue	121		0				270	18			282	25	
		95th Queue	164		64				316	21			396	77	
		Overall LOS						C (2	4.9)						
L L		Approach LOS		E (63.3)				·		C (24.2)			B (15.0)		
A	AM	Storage	425						400					175	
Ð		50th Queue	91		0				259	89			177	0	
s)		95th Queue	129		58				306	130			267	15	
NO-BUILD (SIGNAL)		Overall LOS						C (3	2.6)						
ŝ		Approach LOS		E (72.2)						C (31.6)			C (24.8)		
-E	M	Storage	425						400					175	
ž	_	50th Queue	126		0				419	95			350	49	
		95th Queue	170		67				466	137			486	123	
		Overall LOS						C (2	5.0)						
		Approach LOS		E (67.4)						C (24.0)			B (15.5)		
AL)	AM	Storage	425						400					175	
Ň		50th Queue	98		14				280	120			213	3	
210		95th Queue	138		82				329	170			312	32	
BUILD (SIGNAL)		Overall LOS						C (3							
	_	Approach LOS		E (72.2)			-			C (32.0)			C (25.5)		
BU	Μd	Storage	425						400					175	
		50th Queue	126		0				421	107			412	66	
		95th Queue	170		72				470	153			566	155	

5.3 Chastain Road at I-575 Northbound Ramps (Intersection 3)

The intersection of Chastain Road at I-575 Northbound Ramps (Intersection 3) is projected to operate at an acceptable <u>overall</u>LOS under the Existing 2023, Projected 2025 No-Build, and Projected 2025 Build conditions. Each approach of the intersection is projected to operate acceptably under all studied scenarios. No improvements are recommended to be conditioned.

5.4 Chastain Road at Chastain Meadows Parkway/Private Driveway (Intersection 4)

		_OS Standard: E LOS Standard: E		tain Mea Parkway	/		ate Drive	,	_	astain R			astain R	
			L	orthbour	R	50	outhboui T	R		astboun	a R		/estbour	R
		Overall LOS	L	1	Γ	L	I			1	Γ	L	1	n.
		Approach LOS		D (45.1)	1	A (8 D (53.8)			B (9.7)			A (5.6)		
AL	AΜ	Storage	175	D (45.1)			D (33.8)	50	150	<u>ы (ө.т)</u>	125	175	A (5.0)	200
EXISTING (SIGNAL)	<	50th Queue	175	16	0		5	0	130	78	0	42	47	200
Sic		95th Queue	44	44	40		19	0	5	145	35	128	124	0
U U		Overall LOS	44	44	40		19	0 C (1		145	- 30	120	124	0
ž								U (1					A (7 O)	
ST	Σd	Approach LOS		D (49.4)			D (52.6)	50		B (12.9)	405	475	A (7.0)	200
X	┛	Storage	175	00	75			50	150	400	125	175	<u></u>	200
		50th Queue	82	82	75		6 23	0	3 15	136	0 3	32	63	0
		95th Queue	147	145	274		23	-	-	252	3	89	142	0
		Overall LOS				r		B (1		B (10.4)			A (7 O)	
AL.	5	Approach LOS		D (44.7)			D (53.8)			B (10.4)			A (7.9)	
Ž	AM	Storage	175	07	0			50	150	07	125	175	50	200
Sig		50th Queue	27	27	0	1	5	0	1	87	0	51	50	0
NO-BUILD (SIGNAL)		95th Queue	63	65	51		19	0	5	151	43	169	130	0
		Overall LOS				C (2			· · ·			A (9.6)		
BU	5	Approach LOS		E (68.8)			D (52.6)			<u>B (15.4)</u>	105		A (8.6)	
þ	Μd	Storage	175	4.40	474			50	150		125	175		200
z		50th Queue	140	140	171		6	0	3	144	4	37	67	0
		95th Queue	280	281	381		23	0	15	264	45	100	148	0
		Overall LOS					D (D 0)	B (1		D ((D D)			-	
Î	5	Approach LOS		D (45.0)			D (53.8)	50		<u>B (10.9)</u>	405		B (11.8)	000
Į	AM	Storage	175	07	0			50	150		125	175	50	200
ð		50th Queue	36	37	0		5	0	1	98	0	57	52	0
(SI		95th Queue	81	81	59		19	v	•	158	48	233	135	0
Ą		Overall LOS Approach LOS		E (65.3)			D (52.6)	U (2	29.0) B (17.9)			D (10.2)		
BUILD (SIGNAL)	Σd	Storage	175	E (05.5)			D (52.6)	50	150	Б (17.9) Г	125	175	B (10.3)	200
B	₫.	50th Queue	191	189	188		6	0	3	163	125	44	80	200
		95th Queue	366	362	402		23	0	16	284	60	112	168	0
			000	002	704		20	0	10	207	00	114	100	0

The intersection of Chastain Road at Chastain Meadows Parkway/Private Driveway (Intersection 4) is projected to operate at an acceptable <u>overall</u> LOS under the Existing 2023, Projected 2025 No-Build, and Projected 2025 Build conditions. However, the northbound approach fails under the Projected 2025 Build conditions. Due to the increase in volume on the northbound movement during the PM peak hour, the split time for the approach was adjusted to accommodate the additional demand, per the GRTA DRI Review Procedures. As a result, the northbound approach operates at an acceptable LOS under Projected 2025 Build conditions. Since a change in signal timing would improve the northbound approach to an acceptable LOS, no physical improvements are recommended to be conditioned.

It is recommended to pull the nose of the median along the south leg of Chastain Meadows Parkway back approximately 60 feet and replace with striping. This is to enable the heavy vehicles entering the site to make a right-turn from Chastain Road to Chastain Meadows Parkway.

-		-OS Standard: E LOS Standard: E		tain Mea Parkway			tain Mea Parkway	/)	Shanty F		Big Shanty Road		
				orthboun		So So	outhbou		E	astboun	d	. N	/estbour	
			L	Т	R	L	Т	R		Т	R	L	Т	R
	-	Overall LOS		B (10 0)		1		C (2		<u> </u>		1	<u> </u>	
EXISTING (SIGNAL)	5	Approach LOS		<u>B (10.4)</u>			B (14.1)			C (32.7)			C (33.8)	
Ž	AM	Storage	175			150			250			200		
5		50th Queue	22	10		1	44		52	81	0	20	44	
S)		95th Queue	44	30		7	76		94	145	47	45	73	
U Z		Overall LOS						C (3	,					
Ē	_	Approach LOS		B (13.0)			B (16.3)			E (55.2)			D (38.5)	
N X IS	ΡM	Storage	175			150			250			200		
Ê		50th Queue	102	48		1	28		120	87	0	13	69	
		95th Queue	182	98		4	57		236	171	50	34	108	
		Overall LOS					C (24							
Î		Approach LOS		B (11.1)		B (15.4)			C (32.9)				C (34.6)	
Ă	AM	Storage	175			150			250			200		
Ū		50th Queue	24	13		2	64		60	85	0	26	47	
s)		95th Queue	47	36		8	102		107	160	50	55	78	
NO-BUILD (SIGNAL)		Overall LOS		C (34.3)										
D		Approach LOS		B (14.9)		B (16.7)			E (67.4)			D (39.3)		
Ë	M	Storage	175			150			250			200		
ž	_	50th Queue	119	62		2	33		139	90	0	14	73	
	-	95th Queue	260	124		10	64		271	181	51	36	114	
		Overall LOS						C (2	4.8)					
_		Approach LOS		B (11.8)			B (15.5)		, î	D (35.3)			C (35.0)	
₽	AM	Storage	175			150			250			200		
Ž		50th Queue	24	20		5	68		83	85	0	26	50	
00		95th Queue	47	49		15	108		150	160	50	55	82	
BUILD (SIGNAL)		Overall LOS					D (3							
	_	Approach LOS		B (17.2)			B (17.8)			E (64.9)		D (39.8)		
BU	Μd	Storage	175			150			250			200		
		50th Queue	122	66		6	43		147	89	0	14	75	
		95th Queue	311	134		18	79		289	175	51	35	117	

5.5 Chastain Meadows Parkway at Big Shanty Road (Intersection 5)

The intersection of Chastain Meadows Parkway at Big Shanty Road (Intersection 5) is projected to operate at an acceptable <u>overall</u> LOS under the Existing 2023, Projected 2025 No-Build, and Projected 2025 Build conditions. However, the eastbound approach fails under the Projected 2025 Build conditions. Due to the increase in volume on the eastbound movement during the PM peak hour, the split time for the approach was adjusted to accommodate the additional demand, per the GRTA DRI Review Procedures. As a result, the eastbound approach operates at an acceptable LOS under Projected 2025 Build conditions. Since a change in signal timing would improve the eastbound approach to an acceptable LOS, no physical improvements are recommended to be conditioned. Additionally, the planned Big Shanty Road widening project (Cobb SPLOST X2411) will improve the LOS at this intersection.

0	verall	LOS Standard: E	Site	Drivewa	ay A				Ch	astain R	oad	Cha	astain R	oad
Ap	proach	n LOS Standard: E	N	orthbour	nd	S	outhbou	nd	E	astbour	nd	N	/estbour	nd
			L	Т	R	L	Т	R	L	Т	R	L	Т	R
		Overall LOS						(0	.1)					
		Approach LOS		B (11.2)										
ត	AM	Storage												
(TWSC)		50th Queue												
₽.		95th Queue			3									
		Overall LOS						(0	.1)					
BUILD		Approach LOS		B (10.7)										
ā	ΡM	Storage												
		50th Queue												
		95th Queue			3									

5.6 Chastain Road at Site Driveway A (Intersection 6)

The intersection of Chastain Road at Site Driveway A (Intersection 6) is projected to operate at an acceptable <u>overall</u> LOS under the Projected 2025 Build conditions. Each approach of the intersection is projected to operate acceptably under all studied scenarios. The following laneage configuration is recommended for the intersection (shown in blue on **Figure 18**):

- On the site, construct a northbound exclusive right-turn lane exiting the site.
- Construct an exclusive eastbound right-turn lane along Chastain Road entering the site.

5.7 Chastain Road at Chastain Lakes Drive/Site Driveway B (Intersection 7)

-		LOS Standard: E		Drivew			ain Lake			astain R			astain R	
Арр	broach	LOS Standard: E		orthbou		S	outhbour		E	astbour		V	/estbour	
			L	Т	R	L	Т	R	L	Т	R	L	T	R
		Overall LOS				_		(0.	.6)					
	_	Approach LOS			-		B (11.7)			A (8.7)			A (8.7)	
SC	AM	Storage												
≥		50th Queue												
EXISTING (TWSC)		95th Queue					8		3			0		
Ĭ		Overall LOS						(0.	.5)					
ST		Approach LOS					B (12.2)			A (8.8)			A (8.7)	
X	Μd	Storage												
		50th Queue												
		95th Queue					8		5			0		
		Overall LOS						(0.	.6)					
^		Approach LOS					B (12.3)			A (8.7)			A (9.2)	
sc	AM	Storage												
NO-BUILD (TWSC)		50th Queue												
		95th Queue					10		3			0		
		Overall LOS						(0.	.5)					
BU		Approach LOS					B (13.1)			A (9.1)			A (9.0)	
ò	Μd	Storage												
z	-	50th Queue												
	Ĩ	95th Queue					8		5			0		
		Overall LOS						(1.	.7)					
		Approach LOS		C (22.6))		B (14.5)			A (8.8)			A (9.1)	
ŝ	AM	Storage												
/SC		50th Queue												
Ě	Ĩ	95th Queue	38		3		15		3		1	3		
BUILD (TWSC)		Overall LOS						(1.	0)					
		Approach LOS		C (20.2)		C (15.2)			A (9.6)			A (8.8)	
Bl	M	Storage												
	-	50th Queue												
		95th Queue	123		0		68		5			3		

The intersection of Chastain Road at Chastain Lakes Drive/Site Driveway B (Intersection 7) is projected to operate at an acceptable <u>overall</u> LOS under the Existing 2023, Projected 2025 No-Build, and Projected 2025 Build conditions. Each approach of the intersection is projected to operate acceptably under all studied scenarios. Site Driveway B will be constructed as the 4th leg of the existing T-intersection. The following laneage configuration is recommended for the intersection (shown in blue on **Figure 18**):

- On the site, construct a northbound shared left-turn/through lane and a northbound exclusive right-turn lane exiting the site.
- Utilize the existing westbound U-turn/left-turn lane along Chastain Road to enter the site.
- Construct an exclusive eastbound right-turn lane along Chastain Road entering the site.

		_OS Standard: E LOS Standard: E		tain Mea Parkway	/		tain Mea Parkway	/		Drivewa	•			
				orthbour		S	outhbou		E	Eastbour		V	Vestbou	
		0 1100	L	Т	R	L	Т	R		Т	R	L	Т	R
		Overall LOS		A (0.4)				(0	.1)					
ត	5	Approach LOS		A (8.1)				1		B (10.5)			1	1
/S(AM	Storage												
Ě		50th Queue	_							-				
EXISTING (TWSC)		95th Queue	0							0				
Ž		Overall LOS						(0	.2)			1		
ISI	5	Approach LOS		A (0.0)			-	k		B (10.5)			1	
Ш	М	Storage												
		50th Queue												
		95th Queue	0							3				
		Overall LOS						(0	.1)					
ŝ	-	Approach LOS		A (8.4)						B (11.4)				
isc	AM	Storage												
l₽		50th Queue												
ă		95th Queue	0							0				
NO-BUILD (TWSC)		Overall LOS						(0	.1)					
ы Б	_	Approach LOS		A (0.0)						B (11.3)				
ġ	ΡM	Storage												
~		50th Queue												
		95th Queue	0							3				
		Overall LOS						(0	.9)					
		Approach LOS		A (9.1)						B (15.8)				
ប	AM	Storage												
VS		50th Queue												
E		95th Queue	3							8				
BUILD (TWSC)		Overall LOS						(0	.7)					
		Approach LOS		A (7.8)						B (17.1)				
Ξ	M	Storage												
		50th Queue												
		95th Queue	3							8				

5.8 Chastain Meadows Parkway at Site Driveway C (Intersection 8)

The intersection of Chastain Meadows Parkway at Site Driveway C (Intersection 8) is projected to operate at an acceptable <u>overall</u> LOS under the Existing 2023, Projected 2025 No-Build, and Projected 2025 Build conditions. Each approach of the intersection is projected to operate acceptably under all studied scenarios. Site Driveway C will be constructed to connect to an existing stub to an opening along Chastain Meadows Parkway. The following laneage configuration is recommended for the intersection (shown in blue on **Figure 18**):

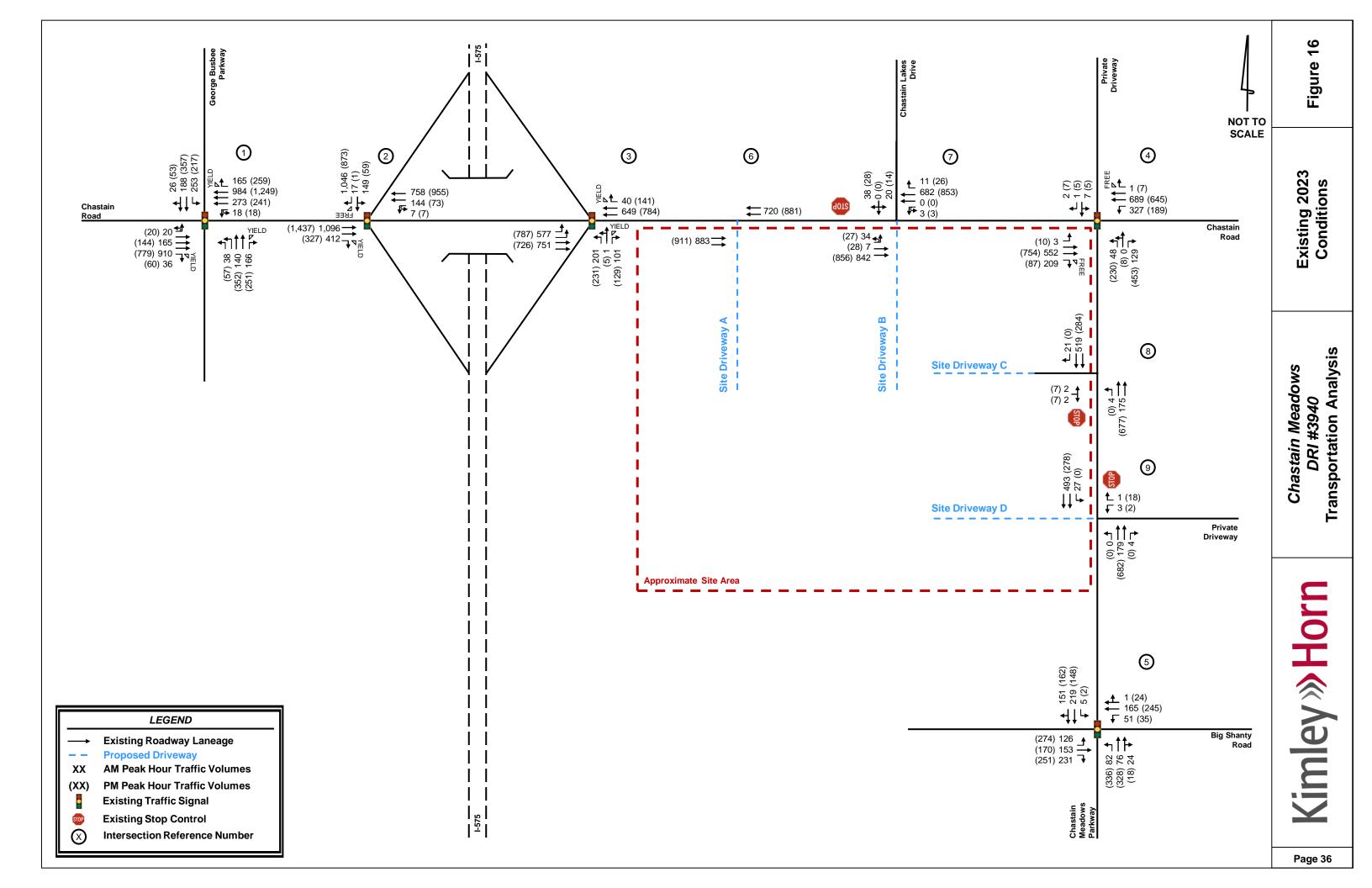
• On the site, construct an eastbound driveway that connects to the existing stub along Chastain Meadows Parkway with one ingress lane entering the site and one egress lane exiting the site.

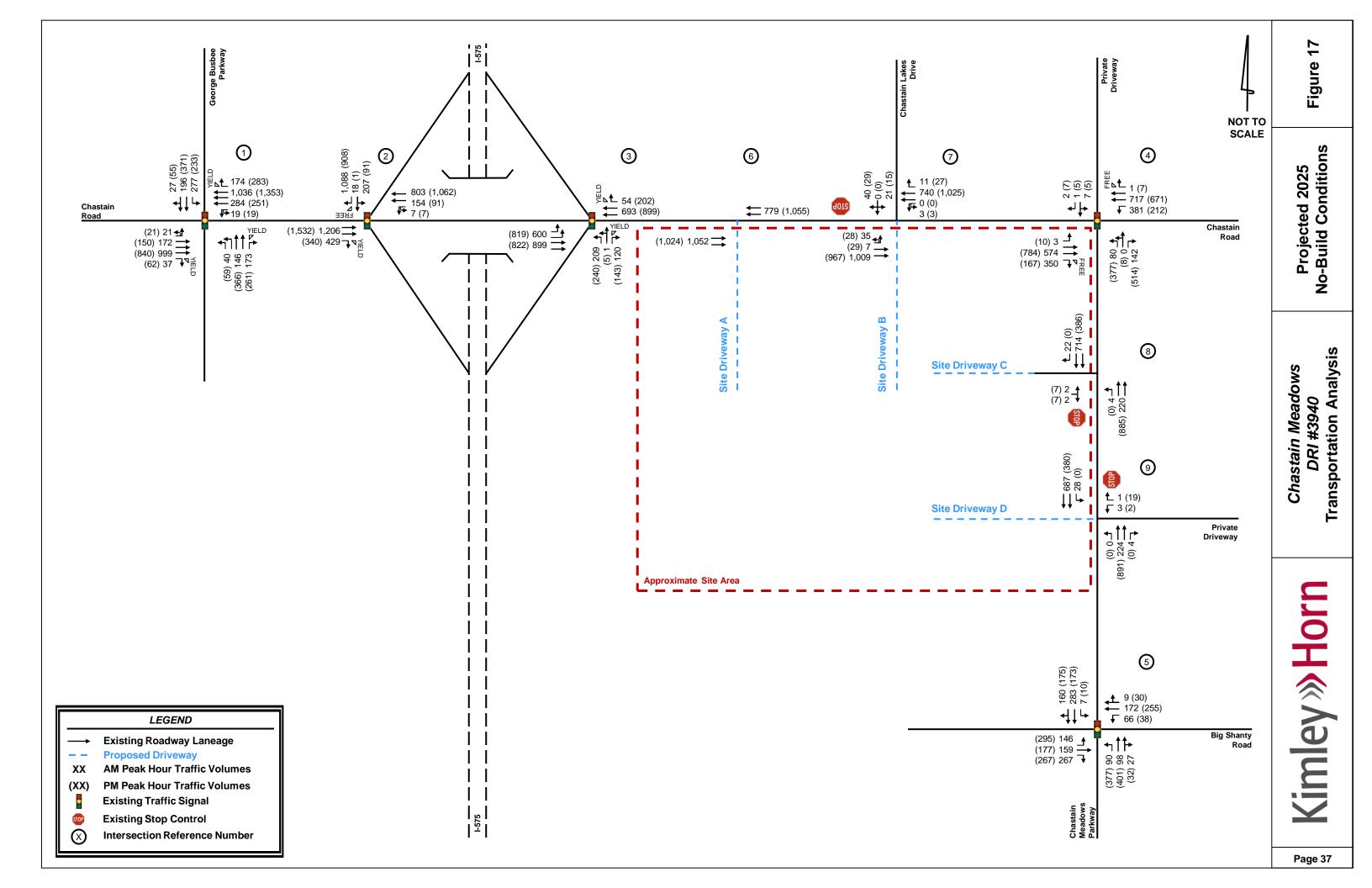
		LOS Standard: E I LOS Standard: E		stain Mea Parkway	/		tain Mea Parkway	/		Drivew	•		ate Drive	-
				lorthboui	R	5	outhbou	na R		astbour	R	v v	Vestbour	R
		Overall LOS				–			.4)			L .		IX.
		Approach LOS		A (0.0)			A (7.8)	(0					B (10.8)	
Û	AM	Storage									1			
NS S	◄	50th Queue												
E		95th Queue	0			3						0		0
EXISTING (TWSC)		Overall LOS	Ŭ			Ŭ		()	.2)			Ŭ		Ŭ
Ē		Approach LOS		A (0.0)			A (0.0)	(0	,				B (11.5)	
NIX I	Σd	Storage									1			
ш	–	50th Queue					1				1			
		95th Queue	0			0						0		3
		Overall LOS	-			-		(0	.3)			Ţ		
_		Approach LOS		A (0.0)			A (7.9)						B (11.6)	
SC	AM	Storage												
Ž	1	50th Queue												
NO-BUILD (TWSC)		95th Queue	0			3						0		0
		Overall LOS		•	•			. (0	.2)	•				
BU	ĺ	Approach LOS		A (0.0)			A (0.0)						B (13.0)	
ģ	M	Storage												
z	-	50th Queue												
		95th Queue	0			0						0		3
		Overall LOS						(1	.3)					
		Approach LOS		A (9.9)			A (8.0)			C (16.4)		C (15.1)	
ត	AM	Storage												
VS(50th Queue												
Ě		95th Queue	10			3				10		0		0
Ā		Overall LOS						(3	.1)					
BUILD (TWSC)		Approach LOS		A (7.8)			A (0.0)			C (19.8)		B (13.7)	
ā	M	Storage												
		50th Queue												
		95th Queue	0			0				95		0		3

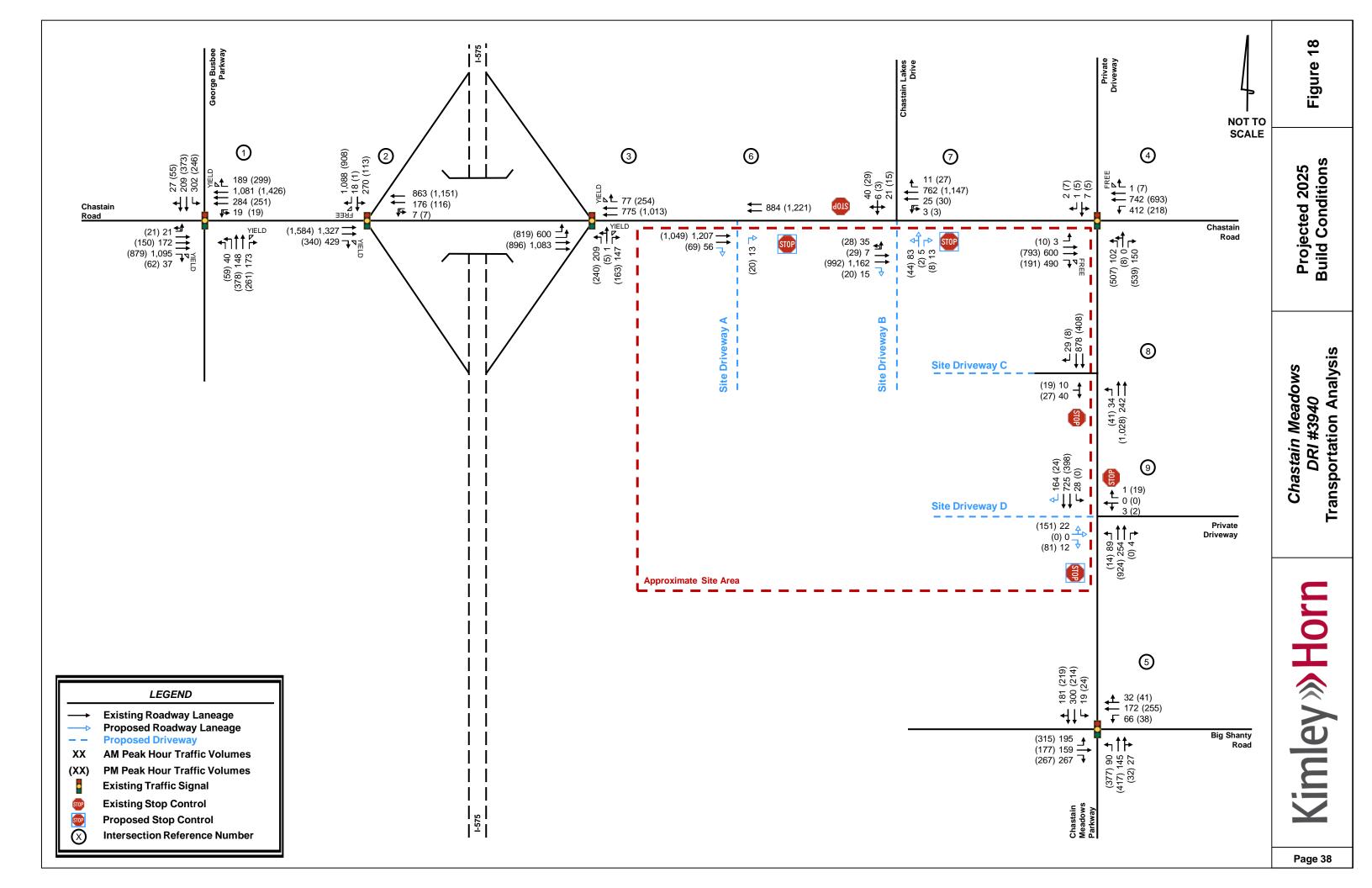
5.9 Chastain Meadows Parkway at Private Driveway/Site Driveway D (Intersection 9)

The intersection of Chastain Meadows Parkway at Private Driveway/Site Driveway D (Intersection 9) is projected to operate at an acceptable <u>overall</u> LOS under the Existing 2023, Projected 2025 No-Build, and Projected 2025 Build conditions. Each approach of the intersection is projected to operate acceptably under all studied scenarios. Site Driveway D will be constructed as the 4th leg of the existing T-intersection. The following laneage configuration is recommended for the intersection (shown in blue on **Figure 18**):

- On the site, construct an eastbound exclusive left-turn lane and an eastbound exclusive right-turn lane exiting the site.
- Utilize the existing northbound U-turn/left-turn lane along Chastain Meadows Parkway to enter the site.
- Construct an exclusive southbound right-turn lane along Chastain Meadows Parkway entering the site.

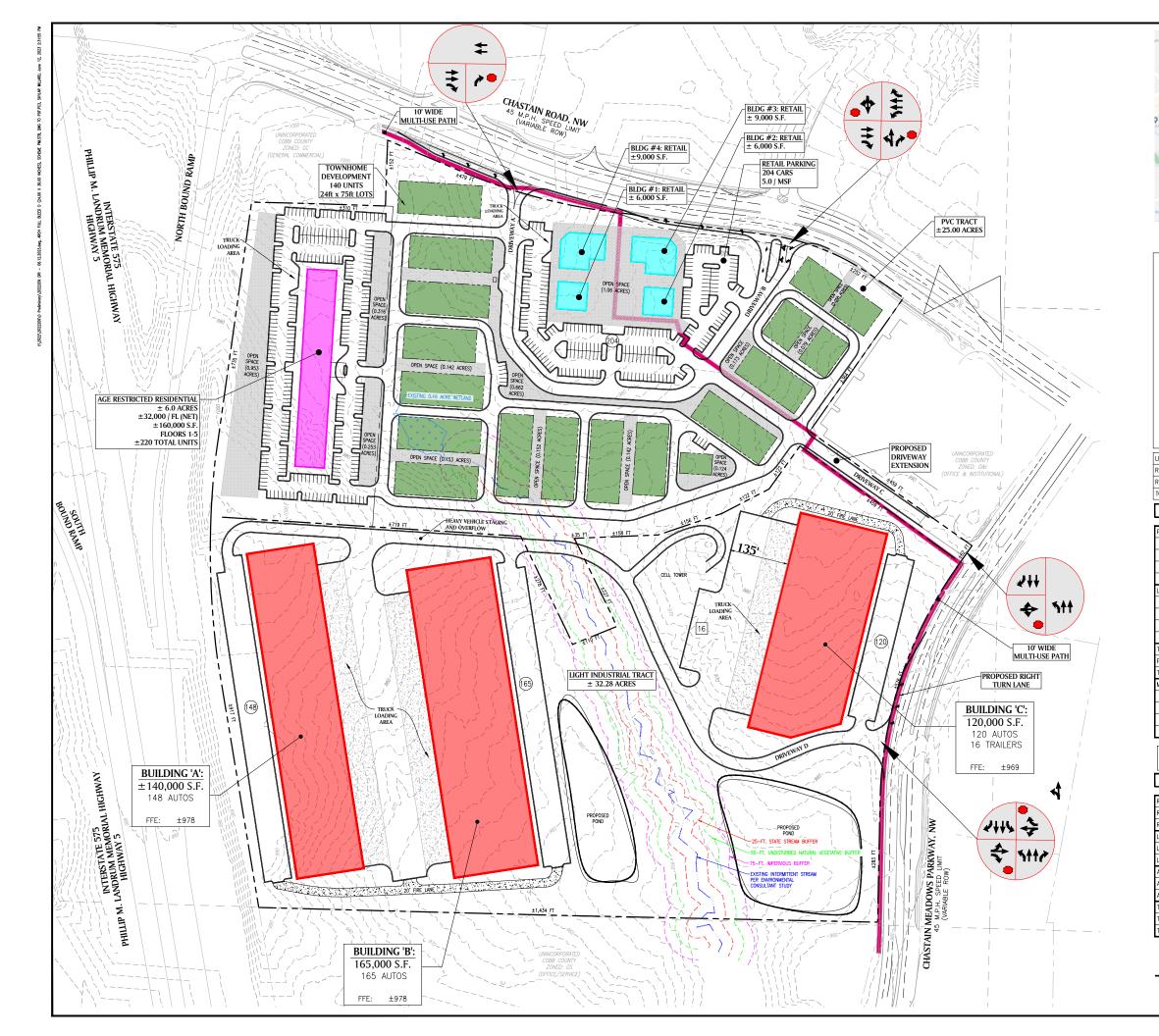




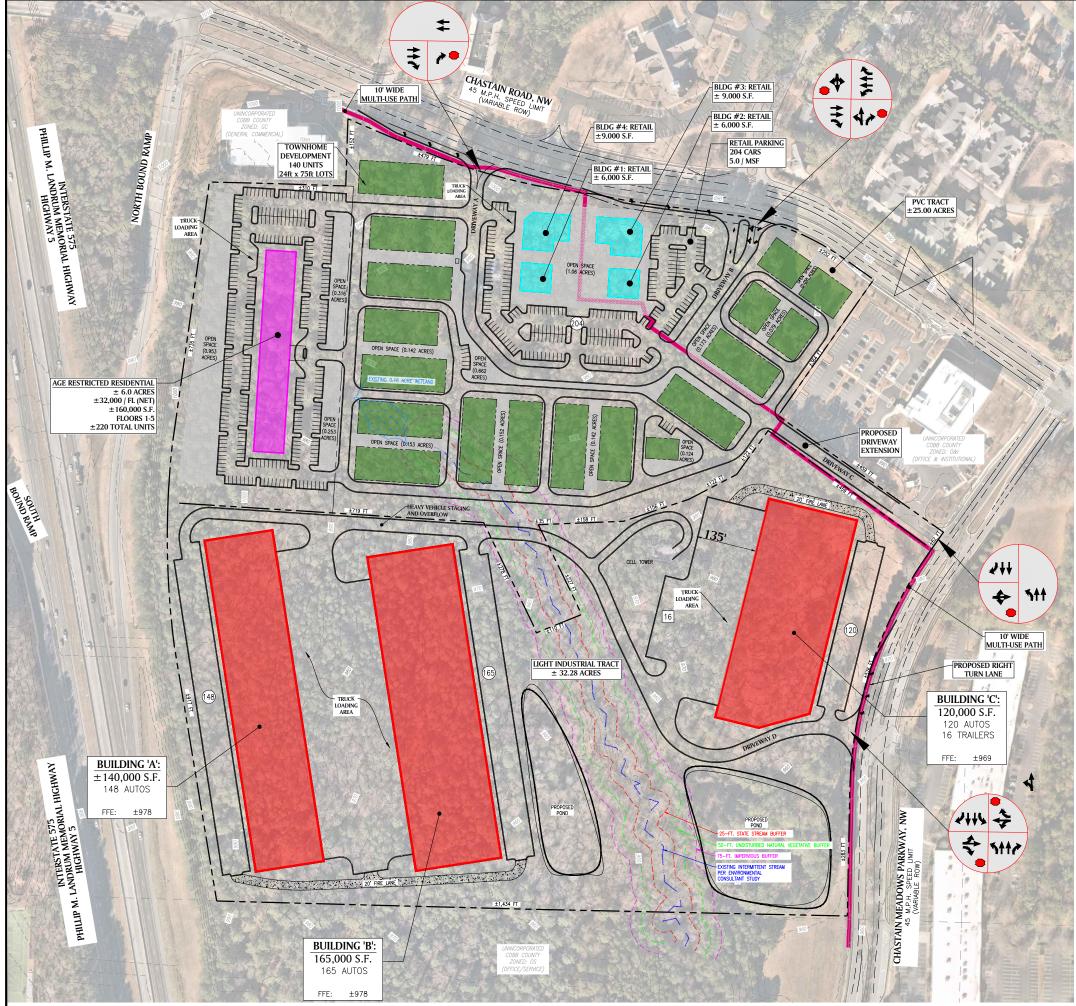


APPENDIX A

Proposed Site Plan



<complex-block></complex-block>	NMICHEL Incorporated - Sunverge Transportation Incorporated Surf 200 Surf 200 Rennel, Street Surf 200 Rennel, Street Rennel, S
CLIENT: STRATEGIC REAL ESTATE PARTNERS, LLC PHONE: (404) 836-4841 CONTACT: J.R. WRICHT, JR ADDRESS: 3715 NORTHSIDE PARKWAY BUILDING 400, SUITE 425 ATLANTA, GA 30327 TRAFFIC ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC. PHONE: (770) 619-4280 CONTACT: JOHN WALKER, PTOE HARRISON FORDER, P.E. (GA, AL) ADDRESS: 11720 AMBER PARK DRIVE SUITE 600 CONTACT: JOHN WICHELL, INC. PHONE: (770) 650-7685 CONTACT: JOHN WISE ADDRESS: 85-A MILL STREET SUITE 200 ROSWELL, GA 30075	PROJECT: CHASTAIN MEADOWS DRI #3940 CHASTAIN ROAD UNINCORPORATED COBB COUNTY, GEORGIA
LIGHT INDUSTRIAL RED RETAIL BLUE RESIDENTIAL MAGENTA TOWNHOME GREEN SITE ANALYSIS	EDR: STRATEGIC STALEBARE PARTNERS, LLC 3715 NORTHSIDE PARKWAY BUILDING 400, SUITE 425 ATLANTA, GEORGIA 30327
RETAIL ±30,000 S.F. AGE RESTRICTED RESIDENTIAL (±6.0 AC) ±220 UNITS TOWNHOME LOTS (24fk/75ft) 140 LOTS TOTAL OPEN SPACE AREA ±178,000 S.F. LICHT INDUSTRIAL TRACT ±32.28 ACRES BUILDING A ±140,000 S.F. BUILDING B ±165,000 S.F. BUILDING C ±120,000 S.F. TOTAL BUILDING AREA ±425,000 S.F. TOTAL BUILDING AREA ±425,000 S.F. TOTAL SITE AREA ±57.28 ACRES PROPOSED DEDICATED R.O.W. ±0.15 ACRES TOTAL SITE AREA (NET) ±57.13 ACRES MINIMUM PARKING REQUIREMENTS (NO MAXIMUM REQUIREMENTS) COMMUNITY RETAIL: (1 SP/200 S.F.) 204 SPACES PROVIDED INDEPENDENT LIVING FACILITIES: (1.5 SP/UNIT) 330 SPACES PROVIDED TOWNHOUSES: (2 SP/UNIT) 280 SPACES PROVIDED WAREHOUSES: (1 SP/2,000 S.F.) 433 SPACES PROVIDED	REVISIONS
OPEN SPACE: PVC REQUIRED: 323 UNITS \$ 550 SF /UNIT = 177,650 S.F. (4.08 ACRES) PROVIDED: ± 178,000 S.F. SITE DENSITY RETAIL PROPOSED ±30,000 S.F. RETAIL LAND AREA ±5.0 ACRES RETAIL FAR 0.14 FAR LIGHT INDUSTRIAL PROPOSED ±425,000 S.F. LIGHT INDUSTRIAL LAND AREA ±32.28 ACRES LIGHT INDUSTRIAL FAR 0.30 FAR ACE RESTRICTED UNITS PROPOSED ACE RESTRICTED UNITS PROPOSED ACE RESTRICTED UNITS PROPOSED AGE RESTRICTED UNITS PROPOSED TOWNHOME DENSITY TOWNHOME DENSITY TOWNHOME DENSITY TOWNHOME DENSITY	Record Control
0 50 100 200 400 SCALE: 1 = 100	sheet EX-1



<complex-block></complex-block>	NMICHEL Incorporated - Sunverge Transportation Incorporated Surf 200 Surf 200 Rennel, Street Surf 200 Rennel, Street Rennel, S
CLIENT: STRATEGIC REAL ESTATE PARTNERS, LLC PHONE: (404) 836-4841 CONTACT: J.R. WRICHT, JR ADDRESS: 3715 NORTHSIDE PARKWAY BUILDING 400, SUITE 425 ATLANTA, GA 30327 TRAFFIC ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC. PHONE: (770) 619-4280 CONTACT: JOHN WALKER, PTOE HARRISON FORDER, P.E. (GA, AL) ADDRESS: 11720 AMBER PARK DRIVE SUITE 600 CONTACT: JOHN WICHELL, INC. PHONE: (770) 650-7685 CONTACT: JOHN WISE ADDRESS: 85-A MILL STREET SUITE 200 ROSWELL, GA 30075	PROJECT: CHASTAIN MEADOWS DRI #3940 CHASTAIN ROAD UNINCORPORATED COBB COUNTY, GEORGIA
LIGHT INDUSTRIAL RED RETAIL BLUE RESIDENTIAL MAGENTA TOWNHOME GREEN SITE ANALYSIS	EDR: STRATEGIC STALEBARE PARTNERS, LLC 3715 NORTHSIDE PARKWAY BUILDING 400, SUITE 425 ATLANTA, GEORGIA 30327
RETAIL ±30,000 S.F. AGE RESTRICTED RESIDENTIAL (±6.0 AC) ±220 UNITS TOWNHOME LOTS (24fk/75ft) 140 LOTS TOTAL OPEN SPACE AREA ±178,000 S.F. LICHT INDUSTRIAL TRACT ±32.28 ACRES BUILDING A ±140,000 S.F. BUILDING B ±165,000 S.F. BUILDING C ±120,000 S.F. TOTAL BUILDING AREA ±425,000 S.F. TOTAL BUILDING AREA ±425,000 S.F. TOTAL SITE AREA ±57.28 ACRES PROPOSED DEDICATED R.O.W. ±0.15 ACRES TOTAL SITE AREA (NET) ±57.13 ACRES MINIMUM PARKING REQUIREMENTS (NO MAXIMUM REQUIREMENTS) COMMUNITY RETAIL: (1 SP/200 S.F.) 204 SPACES PROVIDED INDEPENDENT LIVING FACILITIES: (1.5 SP/UNIT) 330 SPACES PROVIDED TOWNHOUSES: (2 SP/UNIT) 280 SPACES PROVIDED WAREHOUSES: (1 SP/2,000 S.F.) 433 SPACES PROVIDED	REVISIONS
OPEN SPACE: PVC REQUIRED: 323 UNITS \$ 550 SF /UNIT = 177,650 S.F. (4.08 ACRES) PROVIDED: ± 178,000 S.F. SITE DENSITY RETAIL PROPOSED ±30,000 S.F. RETAIL LAND AREA ±5.0 ACRES RETAIL FAR 0.14 FAR LIGHT INDUSTRIAL PROPOSED ±425,000 S.F. LIGHT INDUSTRIAL LAND AREA ±32.28 ACRES LIGHT INDUSTRIAL FAR 0.30 FAR ACE RESTRICTED UNITS PROPOSED ACE RESTRICTED UNITS PROPOSED ACE RESTRICTED UNITS PROPOSED TOWNHOME DENSITY TOWNHOME DENSITY TOWNHOME DENSITY TOWNHOME DENSITY TOWNHOME DENSITY TOWNHOME DEN	Record Control
0 50 100 200 400 SCALE: 1 = 100	sheet EX-1

APPENDIX B

Trip Generation Analysis

	Cobb County, Georgia							
and Use	Intensity	Daily	AN	I Peak H	our	PM	l Peak H	lour
		Trips	Total	In	Out	Total	In	Out
roposed Site Traffic								
110 General Light Industrial	425,000 s.f.	1,648	293	258	35	276	39	237
215 Single-Family Attached Housing	140 d.u.	1,016	67	17	50	80	47	33
252 Senior Adult Housing - Attached	220 occ. d.u.	660	43	15	28	55	31	24
822 Strip Retail Plaza (<40k)	7,500 s.f. gross leasable area	546	24	14	10	63	32	31
932 High-Turnover (Sit-Down) Restaurant	22,500 s.f.	2,412	215	118	97	204	124	80
Gross Trips		6,282	642	422	220	678	273	405
Residential Trips		1,676	110	32	78	135	78	57
Mixed-Use Reductions		-296	-20	-3	-17	-35	-20	-15
Alternative Mode Reductions		-28	-2	-1	-1	-2	-1	-1
Adjusted Residential Trips		1,352	88	28	60	98	57	41
Retail Trips		546	24	14	10	63	32	31
Mixed-Use Reductions		-54	-4	-2	-2	-36	-19	-17
Alternative Mode Reductions		-10	0	0	0	-1	0	0
Pass By Reductions (Based on ITE Rates)		-164	0	0	0	-8	-4	-4
Adjusted Retail Trips		318	20	12	8	18	9	10
Restaurant Trips		2,412	215	118	97	204	124	80
Mixed-Use Reductions		-242	-20	-17	-3	-49	-21	-28
Alternative Mode Reductions		-44	-4	-2	-2	-3	-2	-1
Pass By Reductions (Based on ITE Rates)		-914	0	0	0	-66	-33	-33
Adjusted Restaurant Trips		1,212	191	99	92	86	68	18
Light Industrial Employee (Car) Trips		1,542	289	256	33	272	37	235
Mixed-Use Reductions		0	0	0	0	0	0	0
Alternative Mode Reductions		-30	-6	-5	-1	-5	-1	-5
Adjusted Other Non-Residential Trips		1,512	283	251	32	267	36	230
Light Industrial Heavy Vehicle (Truck) Trips		106	4	2	2	4	2	2
Mixed-Use Reductions		0	0	0	0	0	0	0
Alternative Mode Reductions		0	0	0	0	0	0	0
Adjusted Other Non-Residential Trips		106	4	2	2	4	2	2
Mixed-Use Reductions - TOTAL		-592	-44	-22	-22	-120	-60	-60
Alternative Mode Reductions - TOTAL		-112	-12	-8	-4	-11	-4	-7
Pass-By Reductions - TOTAL		-1,078	0	0	0	-74	-37	-37
New Trips		4,500	586	392	194	473	172	301
Driveway Volumes		5,578	586	392	194	547	209	338

APPENDIX C

Intersection Volume Worksheets

Intersection #1: Chastain Road @ George Busbee Parkway AM PEAK HOUR

		Busbee P			Busbee H				in Road oound				in Road bound	
Description	Left	Through	Right	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
Observed 2023 Traffic Volumes	38	140	166	253	188	26	20	165	910	36	18	273	984	165
Pedestrians	30	0	100	235	0	20	20	105	910	30	10		90 4	105
Conflicting Pedestrians	1	U	0	0	0	1	0	0	1	0	0	0		0
Heavy Vehicles	0	3	8	9	4	1	0	2	66	2	0	4	37	3
Heavy Vehicle %	2%	2%	5%	4%	2%	4%	2%	2%	7%	6%	2%	2%	4%	2%
Peak Hour Factor	2.70	0.96	J 70	++ 70	0.96	470	270		96	070	270		.96	2.70
Adjustment		0.90			0.90	1		0.	90	-		0	.90	1
Adjustment Adjusted 2023 Volumes	38	140	166	253	188	26	20	165	910	36	18	273	984	165
Adjusted 2023 Volumes Annual Growth Rate	2.0%	2.0%	2.0%	253	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Growth Factor	1.040	2.0%	1.040	2.0%	1.040	1.040	1.040	1.040	2.0%	1.040	1.040	1.040	1.040	1.040
New Road Adjustment	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
	_			11					42				10	2
Chastain Logistics Crossing (Car)	_			11					42				10	2
Chastain Logistics Crossing (Truck) Edison Chastain Meadows Phase II	_			3					10				2	
	40	146	173	277	196	27	21	172	999	37	19	284	1.036	174
2025 Background Traffic		2%		3%		4%				57	2%	284	4%	
2025 No-Build Heavy Vehicle %	2%	2%	5%	3%	2%	4%	2%	2%	7%	6%	2%	2%	4%	2%
Project Trips														
Trip Distribution IN				5%					20%					
Trip Distribution OUT													20%	5%
Residential Trips	0	0	0	1	0	0	0	0	6	0	0	0	12	3
Trip Distribution IN	_			10%					25%					
Trip Distribution OUT				1070					2370				25%	10%
Retail Trips	0	0	0	1	0	0	0	0	3	0	0	0	2.3%	10%
Retail Trips	0	0	0	1	0	0	0	0	3	0	0	0	2	1
Trip Distribution IN				10%					25%					
Trip Distribution OUT													25%	10%
Restaurant Trips	0	0	0	10	0	0	0	0	25	0	0	0	23	9
Trip Distribution IN									20%					
Trip Distribution AV									2070				20%	
Light Industrial Trips (Trucks)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
						-								
Trip Distribution IN				5%	5%				25%					
Trip Distribution OUT		5%											25%	5%
Light Industrial Trips (Cars)	0	2	0	13	13	0	0	0	63	0	0	0	8	2
Pass-By Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project Trips Balance									-1					
Total Project Trips	0	2	0	25	13	0	0	0	96	0	0	0	45	15
2025 Buildout Total	40	148	173	302	209	27	21	172	1,095	37	19	284	1,081	189
2025 Build Heavy Vehicle %	2%	2%	5%	3%	2%	4%	2%	2%	6%	6%	2%	2%	4%	2%

		Busbee P			e Busbee P				in Road				in Road	
		orthbour			Southboun				bound				bound	
Description	Left	Through	Right	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
Observed 2023 Traffic Volumes	57	352	251	217	357	53	20	144	779	60	18	241	1.249	259
Pedestrians		4			0				1				4	
Conflicting Pedestrians	1		4	4		1	0	0		4	0	4	1	0
Heavy Vehicles	0	1	1	2	2	2	0	1	22	1	0	0	32	1
Heavy Vehicle %	2%	2%	2%	2%	2%	4%	2%	2%	3%	2%	2%	2%	3%	2%
Peak Hour Factor		0.96			0.96			0.	.96			0	.96	
Adjustment														
Adjusted 2023 Volumes	57	352	251	217	357	53	20	144	779	60	18	241	1249	259
Annual Growth Rate	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Growth Factor	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
New Road Adjustment														
Chastain Logistics Crossing (Car)				7					28				44	11
Chastain Logistics Crossing (Truck)														
Edison Chastain Meadows Phase II									2				10	3
2025 Background Traffic	59	366	261	233	371	55	21	150	840	62	19	251	1,353	283
2025 No-Build Heavy Vehicle %	2%	2%	2%	2%	2%	4%	2%	2%	3%	2%	2%	2%	2%	2%
Project Trips														
Trip Distribution IN				5%					20%					
Trip Distribution OUT													20%	5%
Residential Trips	0	0	0	3	0	0	0	0	11	0	0	0	8	2
Trip Distribution IN				10%					25%					
Trip Distribution OUT													25%	10%
Retail Trips	0	0	0	1	0	0	0	0	2	0	0	0	3	1
Trip Distribution IN	_			10%					25%					
Trip Distribution OUT													25%	10%
Restaurant Trips	0	0	0	7	0	0	0	0	17	0	0	0	5	2
Trip Distribution IN									20%					
Trip Distribution OUT													20%	
Light Industrial Trips (Trucks)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trip Distribution IN				5%	5%		<u> </u>		25%		<u> </u>			
Trip Distribution OUT		5%		270	- 10		1		2010		1		25%	5%
Light Industrial Trips (Cars)	0	12	0	2	2	0	0	0	9	0	0	0	58	12
Pass-By Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 ass-by 111ps	0	5	0	0	0	5	0	0	0	0	0	0	0	0
Project Trips Balance						-				-			-1	-1
Total Project Trips	0	12	0	13	2	0	0	0	39	0	0	0	73	16
2025 Buildout Total	59	378	261	246	373	55	21	150	879	62	19	251	1,426	299
2025 Build Heavy Vehicle %	2%	2%	2%	2%	2%	4%	2%	2%	3%	2%	2%	2%	2%	2%

Intersection #2: Chastain Road @ I-575 Southbound Ramp AM PEAK HOUR

		outhboun orthbour			outhbound			hastain Ro Eastbound				in Road bound	
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	U-Turn	Left	Through	Right
Observed 2023 Traffic Volumes	0	0	0	149	17	1.046	0	1,096	412	7	144	758	0
Pedestrians		0	· ·	147	0	1,010	~	0	412			0	
Conflicting Pedestrians	0		0	0		0	0		0	0	0	Ĭ	0
Heavy Vehicles	0	0	0	2	2	31	0	35	25	0	1	24	0
Heavy Vehicle %	0%	0%	0%	2%	12%	3%	0%	3%	6%	2%	2%	3%	0%
Peak Hour Factor	070	0.94	070	270	0.94	576	070	0.94	070	270		94	070
Adjustment		0.74			0.74			0.74			0.	1	
Adjusted 2023 Volumes	0	0	0	149	17	1046	0	1096	412	7	144	758	0
Annual Growth Rate	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Growth Factor	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
New Road Adjustment	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
Chastain Logistics Crossing (Car)				42				53			2	12	
Chastain Logistics Crossing (Car) Chastain Logistics Crossing (Truck)				42				35			2	12	
Edison Chastain Meadows Phase II				10				13			1	2	
	0	0	0	207	18	1.088	0	1.206	429	7	154	803	0
2025 Background Traffic No-Build Heavy Vehicle %	0%	0%	0%	207	18	1,088	0%	1,206	429	2%	3%	803 3%	0%
No-Build Heavy Vehicle %	0%	0%	0%	2%	12%	5%	0%	3%	6%	2%	3%	3%	0%
Project Trips													
Trip Distribution IN				10%				25%					
Trip Distribution OUT											25%	25%	
Residential Trips	0	0	0	3	0	0	0	7	0	0	15	15	0
Trip Distribution IN				10%				35%					
Trip Distribution OUT											5%	35%	
Retail Trips	0	0	0	1	0	0	0	4	0	0	0	3	0
iccuii iiips	0	Ū	0		0	0	0	-	0	0	0	5	0
Trip Distribution IN				10%				35%					
Trip Distribution OUT											5%	35%	
Restaurant Trips	0	0	0	10	0	0	0	35	0	0	5	32	0
Trip Distribution IN				15%				20%					
Trip Distribution OUT											25%	20%	
Light Industrial Trips (Trucks)	0	0	0	0	0	0	0	0	0	0	0	0	0
Trip Distribution IN				20%				30%					
				20%				30%				2011	
Trip Distribution OUT					0				0		5% 2	30% 10	0
Light Industrial Trips (Cars)	0	0	0	50	0	0	0	75	0	0	2	10	0
Pass-By Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
Project Trips Balance				-1									
Total Project Trips	0	0	0	63	0	0	0	121	0	0	22	60	0
2025 Buildout Total	0	0	0	270	18	1,088	0	1,327	429	7	176	863	0
Build Heavy Vehicle %	0%	0%	0%	2%	12%	3%	0%	3%	6%	2%	2%	3%	0%

		Southboun			Southboun		C	hastain Ro	ad			in Road	
		Northbour			Southbour			Eastbound				bound	
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	U-Turn	Left	Through	Right
Observed 2023 Traffic Volumes	0	0	0	59	1	873	0	1.437	327	7	73	955	0
Pedestrians		0			3			0				0	
Conflicting Pedestrians	0		0	0		0	3		0	0	0		3
Heavy Vehicles	0	0	0	0	0	24	0	29	2	0	0	12	0
Heavy Vehicle %	0%	0%	0%	2%	2%	3%	0%	2%	2%	2%	2%	2%	0%
Peak Hour Factor		0.96			0.96			0.96			0.	96	
Adjustment													
Adjusted 2023 Volumes	0	0	0	59	1	873	0	1437	327	7	73	955	0
Annual Growth Rate	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Growth Factor	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
New Road Adjustment													
Chastain Logistics Crossing (Car)				28				35			11	55	
Chastain Logistics Crossing (Truck)											1		
Edison Chastain Meadows Phase II				2				2			3	13	
2025 Background Traffic	0	0	0	91	1	908	0	1,532	340	7	91	1,062	0
No-Build Heavy Vehicle %	0%	0%	0%	2%	2%	3%	0%	2%	2%	2%	3%	2%	0%
Project Trips	_												
Trip Distribution IN				10%				25%					
Trip Distribution IN				10%				25%			25%	25%	
Residential Trips	0	0	0	6	0	0	0	14	0	0	10	10	0
Residential Trips	0	0	0	0	U	0	0	14	0	0	10	10	0
Trip Distribution IN				10%				35%					
Trip Distribution OUT											5%	35%	
Retail Trips	0	0	0	1	0	0	0	3	0	0	1	4	0
Trip Distribution IN				10%				35%					
Trip Distribution OUT				1070				3370			5%	35%	
Restaurant Trips	0	0	0	7	0	0	0	24	0	0	1	6	0
residuant rrips		0	0	,	0	0	0	2.1	0	0		0	0
Trip Distribution IN				15%				20%					
Trip Distribution OUT											25%	20%	
Light Industrial Trips (Trucks)	0	0	0	0	0	0	0	0	0	0	1	0	0
Trip Distribution IN				20%				30%					
Trip Distribution OUT				2070				30%			5%	30%	
Light Industrial Trips (Cars)	0	0	0	7	0	0	0	11	0	0	12	69	0
Pass-By Trips	0	0	0	0	0	0	0	0	0	0	0	0	0
Project Trips Balance				1									
Total Project Trips	0	0	0	22	0	0	0	52	0	0	25	89	0
2025 Buildout Total	0	0	0	113	1	908	0	1,584	340	7	116	1,151	0
Build Heavy Vehicle %	0%	0%	0%	2%	2%	3%	0%	2%	2%	2%	3%	2%	0%

Intersection #3: Chastain Road @ I-575 Northbound Ramp AM PEAK HOUR

-		Northboun			Northboun			nastain Ro			hastain Ro	
	N	lorthbour	nd	5	Southboun	d	1	Eastboun	<u>d</u>	1	Westboun	d
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
Observed 2023 Traffic Volumes	201	1	101	0	0	0	577	751	0	0	649	40
Pedestrians		0			0			0			0	
Conflicting Pedestrians	0		0	0		0	0		0	0		0
Heavy Vehicles	2	0	0	0	0	0	13	18	0	0	26	0
Heavy Vehicle %	2%	2%	2%	0%	0%	0%	2%	2%	0%	0%	4%	2%
Peak Hour Factor	2.70	0.97	270	0.0	0.97	070	270	0.97	0.0	070	0.97	270
Adjustment		0.77			0.77			0.77			0.77	
Adjustment Adjusted 2023 Volumes	201	1	101	0	0	0	577	751	0	0	649	40
Annual Growth Rate	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Growth Factor	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
New Road Adjustment	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
			11					95			14	10
Chastain Logistics Crossing (Car)								95				10
Chastain Logistics Crossing (Truck) Edison Chastain Meadows Phase II			1					23		l	1	2
							100					
2025 Background Traffic	209	1	120	0	0	0	600	899	0	0	693	54
No-Build Heavy Vehicle %	2%	2%	3%	0%	0%	0%	2%	2%	0%	0%	4%	2%
Project Trips												
Trip Distribution IN			25%					35%				
Trip Distribution OUT											50%	10%
Residential Trips	0	0	7	0	0	0	0	10	0	0	30	6
Trip Distribution IN			5%					45%				
Trip Distribution OUT											40%	10%
Retail Trips	0	0	1	0	0	0	0	5	0	0	3	1
rectain rinps	Ū	Ū		0	0	0	0	2	Ŭ		5	
Trip Distribution IN			5%					45%				
Trip Distribution OUT											40%	10%
Restaurant Trips	0	0	5	0	0	0	0	45	0	0	37	9
Trip Distribution IN			25%					35%				
Trip Distribution OUT											45%	15%
Light Industrial Trips (Trucks)	0	0	1	0	0	0	0	1	0	0	1	0
Eight Industrial Trips (Tracks)	Ŭ	0		0	0	0	0		0	0		Ū
Trip Distribution IN			5%					50%				
Trip Distribution OUT											35%	20%
Light Industrial Trips (Cars)	0	0	13	0	0	0	0	125	0	0	11	6
Pass-By Trips	0	0	0	0	0	0	0	0	0	0	0	0
Project Trips Balance								-2				1
riojeet trips batance								-2				1
Total Project Trips	0	0	27	0	0	0	0	184	0	0	82	23
2025 Buildout Total	209	1	147	0	0	0	600	1,083	0	0	775	77
Build Heavy Vehicle %	2%	2%	3%	0%	0%	0%	2%	2%	0%	0%	4%	2%

	I-575 I	Northboun	d Ramp	I-575 1	Northboun	d Ramp	C	hastain Ro	ad	C	hastain Ro	ad
	1	Northbour	nd	5	Southboun	d		Eastbound	1	1	Westboun	d
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
Observed 2023 Traffic Volumes	231		129	0	0	0	787	726	0	0	784	141
Pedestrians	231	5	129	0		0	/8/		0	0		141
		0		0	1			0			0	
Conflicting Pedestrians	0		0	0		0	1		0	0		1
Heavy Vehicles	0	0	1	0	0	0	13	20	0	0	13	1
Heavy Vehicle %	2%	2%	2%	0%	0%	0%	2%	3%	0%	0%	2%	2%
Peak Hour Factor		0.94	r		0.94			0.94			0.94	
Adjustment												
Adjusted 2023 Volumes	231	5	129	0	0	0	787	726	0	0	784	141
Annual Growth Rate	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Growth Factor	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
New Road Adjustment												
Chastain Logistics Crossing (Car)			7					63			66	44
Chastain Logistics Crossing (Truck)			1								1	
Edison Chastain Meadows Phase II			1					4			16	11
2025 Background Traffic	240	5	143	0	0	0	819	822	0	0	899	202
No-Build Heavy Vehicle %	2%	2%	3%	0%	0%	0%	2%	3%	0%	0%	2%	2%
Project Trips												
Trip Distribution IN			25%					35%				
Trip Distribution OUT											50%	10%
Residential Trips	0	0	14	0	0	0	0	20	0	0	21	4
Trip Distribution IN	_		5%					45%				
Trip Distribution OUT											40%	10%
Retail Trips	0	0	0	0	0	0	0	4	0	0	4	1
Trip Distribution IN	_		5%					45%				
Trip Distribution OUT											40%	10%
Restaurant Trips	0	0	3	0	0	0	0	31	0	0	7	2
Trip Distribution IN			25%					35%				
Trip Distribution AV	_		2070					3370			45%	15%
Light Industrial Trips (Trucks)	0	0	1	0	0	0	0	1	0	0	4,3 %	0
Light industrial (Tips (Trucks)	0	0		0	0	0	0		0	0		0
Trip Distribution IN			5%					50%				
Trip Distribution OUT											35%	20%
Light Industrial Trips (Cars)	0	0	2	0	0	0	0	18	0	0	81	46
Pass-By Trips	0	0	0	0	0	0	0	0	0	0	0	0
	0		0		3	3			3	0	3	
Project Trips Balance												-1
Total Project Trips	0	0	20	0	0	0	0	74	0	0	114	52
2025 Buildout Total	240	5	163	0	0	0	819	896	0	0	1,013	254
Build Heavy Vehicle %	2%	2%	3%	0%	0%	0%	2%	2%	0%	0%	2%	2%

Intersection #4: Chastain Road @ Chastain Meadows Parkway / Private Driveway AM PEAK HOUR

Description Left Observed 2023 Traffic Volumes 48 Pedestrians 0 Heavy Vehicles 1 Heavy Vehicles 1 Heavy Vehicles 2% Peak Hour Factor 4 Adjustnent 4 Adjustnet 1 Adjustoft 2023 Volumes 48 Annual Growth Rate 2.0% Growth Factor 1.040 New Road Adjustment 1 Chastain Logistics Crossing (Car) 24 Chastain Logistics Crossing (Truck) 1 Edicon Chastian Meadows Phase II 5 2025 Background Traffic 80 No-Build Heavy Vehicle % 3% Project Trijs 1 Trip Distribution N 5% Residential Trips 0 Trip Distribution OUT 60% Trip Distribution OUT 6% Restaurant Trips 0 Trip Distribution OUT 6% Trip Distribution OUT 6% Trip Distribution OUT 6%	0 0 0 0 0 0 0 0.94 0 2.0% 1.040 0	Right 129 0 7 5% 129 2.0% 1.040 3 5 142 5%	Left 7 0 0 2% 7 2.0% 1.040 7 7 2%	Through 1 0 2% 0.94 1 2.0% 1.040 1 2%	Right 2 0 2% 2 2% 2 2% 2 2 2% 2 2% 2 2% 2 2% 2%	Left 3 0 0 2% 3 2.0% 1.040 3 3	Through 552 0 23 4% 0.94 552 2.0% 1.040	Right 209 0 1 2% 209 2.0% 1.040 106 1 26	Left 327 0 9 3% 327 2.0% 1.040 15	Through 689 0 25 4% 0.94 689 2.0% 1.040	Right 1 0 2% 1 2.0% 1.040
Pedestrians 0 Conflicting Pedestrians 0 Heavy Vehicle % 1 Heavy Vehicle % 2% Peak Hour Factor 2% Adjustment 44 Annual Growth Rate 2.0% Growth Factor 1.040 New Road Adjustment 24 Chastain Logistics Crossing (Truck) 1 Edison Chastain Meadows Phase II 5 2025 Background Traffic 80 No-Build Heavy Vehicle % 3% Project Trips 7% Trip Distribution IN 5% Trip Distribution IN 7% Trip Distribution OUT 8 Trip Distribution OUT 7% Residential Trips 0 Trip Distribution OUT 60% Trip Distribution IN 7% Trip Distribution OUT 60% Trip Distribution OUT 60% Trip Distribution IN 7% Trip Distribution OUT 60% Trip Distribution OUT 1 Trip Distrib	0 0% 0.94 0 2.0% 1.040	0 7 5% 129 2.0% 1.040 3 5 142	0 0 2% 7 2.0% 1.040 7	0 2% 0.94 1 2.0% 1.040	0 0 2% 2.0% 1.040 2	0 0 2% 3 2.0% 1.040	0 23 4% 0.94 552 2.0%	0 1 2% 209 2.0% 1.040 106 1	0 9 3% 327 2.0% 1.040	0 25 4% 0.94 689 2.0%	0 2% 1 2.0%
Pedestrians 0 Conflicting Pedestrians 0 Heavy Vehicle % 1 Heavy Vehicle % 2% Peak Hour Factor 2% Adjustment 44 Annual Growth Rate 2.0% Growth Factor 1.040 New Road Adjustment 24 Chastain Logistics Crossing (Truck) 1 Edison Chastain Meadows Phase II 5 2025 Background Traffic 80 No-Build Heavy Vehicle % 3% Project Trips 7% Trip Distribution IN 5% Trip Distribution IN 7% Trip Distribution OUT 8 Trip Distribution OUT 7% Residential Trips 0 Trip Distribution OUT 60% Trip Distribution IN 7% Trip Distribution OUT 60% Trip Distribution OUT 60% Trip Distribution IN 7% Trip Distribution OUT 60% Trip Distribution OUT 1 Trip Distrib	0 0% 0.94 0 2.0% 1.040	0 7 5% 129 2.0% 1.040 3 5 142	0 0 2% 7 2.0% 1.040 7	0 2% 0.94 1 2.0% 1.040	0 0 2% 2.0% 1.040 2	0 0 2% 3 2.0% 1.040	0 23 4% 0.94 552 2.0%	0 1 2% 209 2.0% 1.040 106 1	0 9 3% 327 2.0% 1.040	0 25 4% 0.94 689 2.0%	0 2% 1 2.0%
Conflicting Pedestrians 0 Reavy Vehicles 1 Heavy Vehicles 2% Peak Hour Factor 4 Adjustment 4 Adjustmet 4 Market 2023 Volumes 48 Annual Growth Rate 2.0% Row Road Adjustment 1 Chastain Logistics Crossing (Car) 24 Dastain Logistics Crossing (Car) 1 Edison Chastain Meadows Phase II 5 O225 Background Traffic 80 No-Build Heavy Vehicle % 3% Project Trips 7 Trip Distribution UN 5% Residential Trips 3 Trip Distribution OUT 5% Residential Trips 0 Trip Distribution OUT 60% Trip Distribution OUT<	0 0% 0.94 0 2.0% 1.040	7 5% 129 2.0% 1.040 3 5 142	0 2% 7 2.0% 1.040 7	0 2% 0.94 1 2.0% 1.040	0 2% 2.0% 1.040 2	0 2% 3 2.0% 1.040	23 4% 0.94 552 2.0%	1 2% 209 2.0% 1.040 106 1	9 3% 327 2.0% 1.040	25 4% 0.94 689 2.0%	0 2% 1 2.0%
Heavy Vehicles 1 Heavy Vehicles 2% Peak Hour Factor Adjustment 4 Adjusted 2023 Volumes 48 Annual Growth Factor 1.040 New Road Adjustment 2.0% Growth Factor 1.040 New Road Adjustment 2 Chastain Logistics Crossing (Truck) 1 Edison Chastain Meadows Phase II 5 2025 Background Traffic 80 No-Build Heavy Vehicle % Project Trips 7 Trip Distribution IN Trip Distribution IN Trip Distribution OUT 5% Residential Trips 0 Trip Distribution OUT 5% Restaurant Trips 0 Trip Distribution OUT 60% Trip Distribution OUT 60% Trip Distribution OUT 60% Trip Distribution OUT 60% Trip Distribution IN 7 Trip Distribution IN 7 Trip Distribution IN 7 Trip Distribution OUT 60% Trip Distribution IN 7 Trip Dis	0% 0.94 0 2.0% 1.040	7 5% 129 2.0% 1.040 3 5 142	0 2% 7 2.0% 1.040 7	2% 0.94 1 2.0% 1.040	0 2% 2.0% 1.040 2	0 2% 3 2.0% 1.040	4% 0.94 552 2.0%	1 2% 209 2.0% 1.040 106 1	9 3% 327 2.0% 1.040	4% 0.94 689 2.0%	0 2% 1 2.0%
Heavy Vehicle % 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2	0% 0.94 0 2.0% 1.040	5% 129 2.0% 1.040 3 5 142	2% 7 2.0% 1.040 7	2% 0.94 1 2.0% 1.040	2% 2.0% 1.040 2	2% 3 2.0% 1.040	4% 0.94 552 2.0%	2% 209 2.0% 1.040 106 1	3% 327 2.0% 1.040	4% 0.94 689 2.0%	2% 1 2.0%
Peak Hour Factor Adjusted 2023 Volumes Adjusted 2023 Volumes 48 Annual Growth Factor 1.040 New Road Adjustment 48 Chastain Logistics Crossing (Car) 24 Chastain Logistics Crossing (Truck) 1 Edison Chastin Mealows Phase II 5 2025 Background Traffic 80 No-Build Heavy Vehicle % 3% Project Trips 7 Trip Distribution IN 5% Residential Trips 3 Trip Distribution OUT 5% Residential Trips 0 Trip Distribution IN 7 Trip Distribution OUT 60% Light Industrial Trips (Trucks) 1 Trip Distribution IN 60% Trip Distribution IN 7 Trip Distribution IN 60% Trip Distribution IN 7 Trip Distribution IN 60% Trip Distribution IN 7 Trip Distribution IN 7 Trip Distribution IN 7 Trip Distribution IN 7 Trip Distribution IN	0.94 0 2.0% 1.040 0	129 2.0% 1.040 3 5 142	7 2.0% 1.040 7	0.94 1 2.0% 1.040	2 2.0% 1.040	3 2.0% 1.040	0.94 552 2.0%	209 2.0% 1.040 106 1	327 2.0% 1.040	0.94 689 2.0%	1 2.0%
Adjustment 48 Adjusted 2023 Volumes 48 Annal Growth Rate 2.0% Growth Factor 1.040 New Road Adjustment 1.040 Chastin Logistics Crossing (Car) 24 Chastin Logistics Crossing (Truck) 1 Edison Chastain Meadows Phase II 5 2025 Background Traffic 80 No-Build Heavy Vehicle % 3% Project Trips 7 Trip Distribution IN 7 Trip Distribution OUT 5% Residential Trips 3 Trip Distribution IN 7 Trip Distribution OUT 60 Trip Distribution OUT 60% Trip Distribution OUT 60% Trip Distribution OUT 60% Trip Distribution OUT 60% Trip Distribution IN 60% Trip Distribution IN 60% Trip Distribution IN 7 Trip Distribution IN 7 Trip Distribution OUT 60% Trip Distribution IN 7 Trip Distribution OUT 60% <	0 2.0% 1.040 0	2.0% 1.040 3 5 142	2.0% 1.040 7	1 2.0% 1.040	2.0% 1.040	2.0%	552 2.0%	2.0% 1.040 106 1	2.0% 1.040	689 2.0%	2.0%
Adjusted 2023 Volumes 48 Annual Growth Rate 2.0% Growth Factor 1.040 New Road Adjustment 1.040 Ibastain Logistics Crossing (Car) 24 Chastin Logistics Crossing (Truck) 1 Edison Chastain Meadows Phuse II 5 2025 Background Traffic 80 No-Build Heavy Vehicle % 3% Project Trips 7 Trip Distribution N 5% Trip Distribution N 7 Trip Distribution N 7 Trip Distribution OUT 8 Trip Distribution N 7 Trip Distribution IN 7 Trip Distribut	2.0% 1.040 0	2.0% 1.040 3 5 142	2.0% 1.040 7	2.0% 1.040 1	2.0% 1.040	2.0%	2.0%	2.0% 1.040 106 1	2.0% 1.040	2.0%	2.0%
Annual Growth Rate 2.0% Growth Factor 1.040 New Road Adjustment 1.040 Chastain Logistics Crossing (Car) 24 Chastain Logistics Crossing (Truck) 1 Edison Chastain Meadows Phase II 5 2025 Background Traffic 80 No-Build Heavy Vehicle % 3% Project Trips 7 Trip Distribution IN 7 Trip Distribution IN 7 Trip Distribution IN 7 Trip Distribution IN 7 Trip Distribution OUT 5% Residential Trips 0 Trip Distribution OUT 7% Residential Trips 0 Trip Distribution OUT 60% Trip Distribution OUT 60% Light Industrial Trips (Trucks) 1 Trip Distribution IN 60% Trip Distribution IN 60% Trip Distribution IN 60% Trip Distribution IN 60% Trip Distribution IN 7 Trip Distribution OUT 60% <td>2.0% 1.040 0</td> <td>2.0% 1.040 3 5 142</td> <td>2.0% 1.040 7</td> <td>2.0% 1.040 1</td> <td>2.0% 1.040</td> <td>2.0%</td> <td>2.0%</td> <td>2.0% 1.040 106 1</td> <td>2.0% 1.040</td> <td>2.0%</td> <td>2.0%</td>	2.0% 1.040 0	2.0% 1.040 3 5 142	2.0% 1.040 7	2.0% 1.040 1	2.0% 1.040	2.0%	2.0%	2.0% 1.040 106 1	2.0% 1.040	2.0%	2.0%
Growth Factor 1.040 New Road Adjustment 1 Chastain Logistics Crossing (Car) 24 Chastain Logistics Crossing (Truck) 1 Edison Chastain Meadows Phase II 5 D2S Background Traffie 80 No-Baild Heavy Vehice % 3% Project Trips 7 Trip Distribution UT 5% Residential Trips 3 Trip Distribution N 7 Trip Distribution OUT 7 Residential Trips 0 Trip Distribution N 7 Trip Distribution N 7 Trip Distribution OUT 8 Restaurant Trips 0 Trip Distribution N 7 Trip Distribution OUT 60% Light Industrial Trips (Trucks) 1 Trip Distribution IN 1	0	1.040 3 5 142	1.040	1.040	1.040	1.040		1.040 106 1	1.040		
New Road Adjustment Chastain Logistics Crossing (Car) 24 Chastain Logistics Crossing (Truck) 1 Edison Chastain Meadows Phase II 5 2025 Background Traffic 80 No-Build Heavy Vehicle % 3% Project Trips 7 Trip Distribution IN 5% Residential Trips 3 Trip Distribution OUT 5% Retail Trips 0 Trip Distribution IN 7 Trip Distribution OUT 8 Trip Distribution OUT 7 Retaurant Trips 0 Trip Distribution OUT 60% Light Industrial Trips (Trucks) 1 Trip Distribution IN 60% Light Industrial Trips (Trucks) 1	0	3 5 142	7	1	2		1.040	106		1.040	1.040
Chastin Logistics Crossing (Carr) 24 Chastin Logistics Consing (Truck) 1 Editor Chastain Meadows Phase II 5 2025 Background Traffic 80 No-Build Heavy Vehicle % 3% Project Trips 7 Trip Distribution IN 7 Trip Distribution IN 7 Trip Distribution OUT 5% Residential Trips 3 Trip Distribution IN 7 Trip Distribution OUT 60% Trip Distribution OUT 60% Light Industrial Trips 0 Trip Distribution OUT 60% Light Industrial Trips (Trucks) 1 Trip Distribution OUT 60% Light Industrial Trips (Trucks) 1		5 142				3		1	15		
Chastan Logistics Crossing (Truck) 1 Edition Chastain Meadows Phase II 5 2025 Background Traffic 80 No-Build Heavy Vehicle % 3% Project Trips 3% Trip Distribution IN 5% Residential Trips 3 Trip Distribution OUT 5% Residential Trips 0 Trip Distribution OUT 7% Retail Trips 0 Trip Distribution OUT 7% Restaurant Trips 0 Trip Distribution OUT 60% Light Industrial Trips (Trucks) 1 Trip Distribution IN 60% Light Industrial Trips (Trucks) 1		5 142				3		1	15		
Edison Chastain Meadows Phase II 5 2025 Background Traffic 80 No-Build Heavy Vehicle % 3% Project Trips 3% Project Trips 7% Trip Distribution UIT 5% Residential Trips 3 Trip Distribution OUT 5% Retail Trips 0 Trip Distribution OUT 60% Trip Distribution OUT 1		142				3					
2025 Background Traffic 80 No-Baid Heavy Vehicle % 3% Project Trips 3% Trip Distribution IN 5% Residential Trips 3 Trip Distribution OUT 5% Residential Trips 3 Trip Distribution OUT Retail Trips Trip Distribution OUT Retail Trips Trip Distribution OUT 7 Restaurant Trips 0 Trip Distribution OUT 60% Light Industrial Trips (Trucks) 1 Trip Distribution IN 1		142				3			-		
No-Build Heavy Vehicle % 3% Project Trips 3% Trip Distribution UN 5% Residential Trips 3 Trip Distribution OUT 5% Retail Trips 0 Trip Distribution OUT 7% Retail Trips 0 Trip Distribution OUT 7 Retail Trips 0 Trip Distribution OUT 60% Trip Distribution OUT 60% Trip Distribution OUT 60% Trip Distribution OUT 1 Trip Distribution OUT 1 Trip Distribution OUT 1						3			26		
Project Trips Image: Construction of the image: Construction o	0%	5%	2%	2%	2%		574	350	381	717	1
Trip Distribution IN 5% Residential Trips 3 Trip Distribution IN 7 Trip Distribution QUT 8 Retail Trips 0 Trip Distribution QUT 7 Retail Trips 0 Trip Distribution QUT 7 Restaurant Trips 0 Trip Distribution IN 7 Trip Distribution IN 7 Trip Distribution IN 60% Light Industrial Trips (Trucks) 1 Trip Distribution IN 1						2%	4%	2%	2%	4%	2%
Trip Distribution OUT 5% Residential Trips 3 Trip Distribution IN 7 Trip Distribution OUT 8 Retal Trips 0 Trip Distribution OUT 7 Restaurant Trips 0 Trip Distribution OUT 60% Light Industrial Trips (Trucks) 1 Trip Distribution IN 1											_
Residential Trips 3 Trip Distribution IN 1 Trip Distribution OUT 0 Retail Trips 0 Trip Distribution IN 1 Trip Distribution OUT 7 Restaurant Trips 0 Trip Distribution IN 1 Trip Distribution OUT 60% Light Industrial Trips (Trucks) 1 Trip Distribution IN 1								5%		10%	
Trip Distribution IN Trip Distribution OUT Retail Trips 0 Trip Distribution IN Trip Distribution OUT Restaurant Trips 0 Trip Distribution IN Trip Distribution OUT Light Industrial Trips (Trucks) 1 Trip Distribution IN							10%				
Trip Distribution OUT Retail Trips 0 Trip Distribution IN Trip Distribution OUT Restaurant Trips 0 Trip Distribution IN Trip Distribution OUT 60% 1 Light Industrial Trips (Trucks) 1 1 1 Trip Distribution IN 0 1 1	0	0	0	0	0	0	6	1	0	3	0
Retail Trips 0 Trip Distribution IN 1 Trip Distribution OUT 0 Restaurant Trips 0 Trip Distribution IN 60% Light Industrial Trips (Trucks) 1 Trip Distribution IN 1									5%	20%	
Trip Distribution IN Trip Distribution OUT Restaurant Trips 0 Trip Distribution IN Trip Distribution IN Light Industrial Trips (Trucks) 1 Trip Distribution IN		5%					20%				
Trip Distribution OUT Restaurant Trips 0 Trip Distribution IN Trip Distribution OUT 60% Light Industrial Trips (Trucks) 1 Trip Distribution IN	0	0	0	0	0	0	2	0	1	2	0
Trip Distribution OUT Restaurant Trips 0 Trip Distribution IN Trip Distribution OUT 60% Light Industrial Trips (Trucks) 1 Trip Distribution IN									5%	20%	
Restaurant Trips 0 Trip Distribution IN Trip Distribution OUT Expl Industrial Trips (Trucks) 1 Trip Distribution IN		5%					20%				
Trip Distribution OUT 60% Light Industrial Trips (Trucks) 1 Trip Distribution IN 1	0	5	0	0	0	0	18	0	5	20	0
Trip Distribution OUT 60% Light Industrial Trips (Trucks) 1 Trip Distribution IN 1								60%			
Light Industrial Trips (Trucks) 1 Trip Distribution IN								00%			
	0	0	0	0	0	0	0	1	0	0	0
									1000		
		10%						55%	10%		
	0		0	0	0	0	0	138	25	0	0
Light Industrial Trips (Cars) 18	0	3	0	0	0	0	0	138	25	0	0
Pass-By Trips 0	0	0	0	0	0	0	0	0	0	0	0
Project Trips Balance											
Total Project Trips 22		8	0	0	0	0	26	140	31	25	0
2025 Buildout Total 102	0	0			2	3	600	490	412	742	1
Build Heavy Vehicle % 3%		150	7	1				490	412		

	Chastain	Meadows	Parkway	Pri	vate Drive	way	C	hastain Ro	ad	C	hastain Ro	ad
		Northboun	ıd	5	outhboun	d		Eastbound	1	1	Vestboun	đ
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
Observed 2023 Traffic Volumes	230	8	453	5	5	7	10	754	87	189	645	7
Pedestrians		0			0			0			0	
Conflicting Pedestrians	0		0	0		0	0		0	0		0
Heavy Vehicles	3	0	5	0	0	0	0	18	0	2	9	0
Heavy Vehicle %	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Peak Hour Factor		0.92			0.92			0.92			0.92	
Adjustment												
Adjusted 2023 Volumes	230	8	453	5	5	7	10	754	87	189	645	7
Annual Growth Rate	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Growth Factor	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
New Road Adjustment												
Chastain Logistics Crossing (Car)	110		16						70	10		
Chastain Logistics Crossing (Truck)	1								1			
Edison Chastain Meadows Phase II	27		27						5	5		
2025 Background Traffic	377	8	514	5	5	7	10	784	167	212	671	7
No-Build Heavy Vehicle %	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Project Trips												
Trip Distribution IN									5%		10%	
Trip Distribution OUT	5%							10%				
Residential Trips	2	0	0	0	0	0	0	4	3	0	6	0
Trip Distribution IN										5%	20%	
Trip Distribution OUT			5%					20%				
Retail Trips	0	0	1	0	0	0	0	2	0	0	2	0
Trip Distribution IN										5%	20%	
Trip Distribution OUT			5%					20%				
Restaurant Trips	0	0	1	0	0	0	0	4	0	3	14	0
Trip Distribution IN									60%			
Trip Distribution OUT	60%								0070			
Light Industrial Trips (Trucks)	1	0	0	0	0	0	0	0	1	0	0	0
Trip Distribution IN	_								55%	10%		
Trip Distribution IN	55%		10%		<u> </u>				3370	1070		
Light Industrial Trips (Cars)	127	0	23	0	0	0	0	0	20	4	0	0
D D. T.'	0	0	0	0		0	0	0	0	0	0	0
Pass-By Trips	0	0	0	0	0	0	0	0	0	0	0	0
Project Trips Balance								-1		-1		
Total Project Trips	130	0	25	0	0	0	0	9	24	6	22	0
2025 Buildout Total	507	8	539	5	5	7	10	793	191	218	693	7
Build Heavy Vehicle %	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%

Intersection #5: Big Shanty Road @ Chastain Meadows Parkway AM PEAK HOUR

ws Parkway adows Parkwa Big Shanty Road Eastbound Big Shanty Roa Westbound Northbound Southbound Left Through Right Left Through Right Left Through Right Left Through Right Description 5 219 151 51 165 126 153 231 82 76 24 oserved 2023 Traffic Volumes 5 0 5 6
 0
 0
 0

 4
 1
 0
 0

 5%
 2%
 2%
 2%
 0 onflicting Pedestrians 3 3 0 eavy Vehicles 3 0 Heavy Vehicle % 2% 2% 4% 2% 2% 2% 2% 2% 2% ak Hour Factor
 0.89
 0.89

 82
 76
 24
 5
 219
 151

 2.0%
 2.0%
 2.0%
 2.0%
 2.0%
 2.0%

 1.040
 1.040
 1.040
 1.040
 1.040
 1.040
 djustment djusted 2023 Volumes nnual Growth Rate Т
 126
 153
 231

 2.0%
 2.0%
 2.0%

 1.040
 1.040
 1.040

 51
 165
 1

 2.0%
 2.0%
 2.0%

 1.040
 1.040
 1.040
 rowth Factor ew Road Adjustment Kew Koad Aufustment Enastain Logistics Crossing (Car) Enastain Logistics Crossing (Truck) Edison Chastain Meadows Phase II 2025 Background Traffic No-Build Heavy Vehicle % 8 2 2 3 15 8 27 267 2% 10 98 3% 2 27 2%
 1
 52

 7
 283
 160

 2%
 2%
 4%
 13 66 172 2% 2% 5 90 146 159 2% 2% 9 2% 5% Project Trips Trip Distribution IN 10% 10% 20% Trip Distribution OUT 6 3 0 0 0 0 0 0 Residential Trips 0 6 12 0 Trip Distribution IN 5% 5% 10% Prip Distribution OUT Retail Trips 10% 1 5% 0 5% 0 1 0 0 0 0 0 1 0 1 Trip Distribution IN 5% 5% 10% 10% 5% 5% Trip Distribution OUT 5 5 10 0 5 0 0 0 estaurant Trips 0 9 5 0 Trip Distribution IN 40% 40% Trip Distribution OUT Light Industrial Trips (Trucks) 0 1 0 0 1 0 0 0 0 0 0 0 Trip Distribution IN 5% 15% 15% Trip Distribution OUT Light Industrial Trips (Cars) 5% 15% 15% 2 5 5 38 38 0 0 0 0 0 0 0 0 0 0 Pass-By Trips 0 0 Project Trips Balance -1 -1 -1 -1 Total Project Trips 47 0 12 17 21 49 0 0 0 0 23 0 2025 Buildout Total Build Heavy Vehicle % 300 145 19 181 195 159 267 66 172

					Meadows			g Shanty R			g Shanty R	
		orthbour			Southboun	-		Eastbound			Westboun	
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
Observed 2023 Traffic Volumes	336	328	18	2	148	162	274	170	251	35	245	24
Pedestrians	550	3	10	-	0	102	274	0	231	35	0	24
Conflicting Pedestrians	0	3	0	0	0	0	0	0	3	3	0	0
Heavy Vehicles	0	2	0	0	0	3	2	3	1	1	1	0
Heavy Vehicle %	2%	2%	2%	2%	2%	2%	2%	2%	2%	3%	2%	2%
Peak Hour Factor	2 70	0.92	270	270	0.92	2 70	2.70	0.92	270	370	0.92	2.70
Adjustment		0.92	r		0.92			0.92			0.92	
Adjusted 2023 Volumes	336	328	18	2	148	162	274	170	251	35	245	24
Annual Growth Rate	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Growth Factor	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
New Road Adjustment	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
Chastain Logistics Crossing (Car)	-	5		8	8	6	10					5
Chastain Logistics Crossing (Car)	-	1		0	1	0	10					3
Edison Chastain Meadows Phase II	27	54	13		10			+	6	2	-	
2025 Background Traffic	377	401	32	10	173	175	295	177	267	38	255	30
No-Build Heavy Vehicle %	2%	2%	2%	2%	2%	2%	295	2%	2%	3%	255	2%
No-Build Heavy Venetic //	270	2.70	270	2 /0	270	270	270	270	270	370	270	270
Project Trips												
Trip Distribution IN		10%					20%					
Trip Distribution OUT		1070			10%	20%	2070					
Residential Trips	0	6	0	0	4	8	11	0	0	0	0	0
	-		, in the second s									
Trip Distribution IN		5%					5%					10%
Trip Distribution OUT				10%	5%	5%						
Retail Trips	0	0	0	1	1	1	0	0	0	0	0	1
Trip Distribution IN		5%					5%					10%
Trip Distribution OUT				10%	5%	5%						
Restaurant Trips	0	3	0	2	1	1	3	0	0	0	0	7
*												
Trip Distribution IN		40%										
Trip Distribution OUT					40%							
Light Industrial Trips (Trucks)	0	1	0	0	1	0	0	0	0	0	0	0
Trip Distribution IN		15%					15%					5%
Trip Distribution OUT				5%	15%	15%						
Light Industrial Trips (Cars)	0	5	0	12	35	35	5	0	0	0	0	2
Pass-By Trips	0	0	0	0	0	0	0	0	0	0	0	0
Project Trips Balance		1		-1	-1	-1	1					1
Total Project Trips	0	16	0	14	41	44	20	0	0	0	0	11
2025 Buildout Total	377	417	32	24	214	219	315	177	267	38	255	41
Build Heavy Vehicle %	2%	417	2%	24	214	219	2%	2%	207	38	255	2%
kimley-hom.com/so_alp/alp_tpto/013805014_chastain mea												

Intersection #6: Chastain Road @ Site Driveway A AM PEAK HOUR

Description		e Drivewa Northbour Through		<u>S</u> Left	outhbour Through			hastain Ro Eastboun Through			hastain Ro Westboun Through	d
Description	Lett	Inrougn	Right	Len	Inrougn	Right	Lett	Inrough	Right	Left	Inrougn	Right
Observed 2023 Traffic Volumes	0	0	0	0	0	0	0	883	0	0	720	0
Pedestrians		0			0			0			0	
Conflicting Pedestrians	0		0	0		0	0		0	0		0
Heavy Vehicles	0	0	0	0	0	0	0	20	0	0	25	0
Heavy Vehicle %	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%	3%	0%
Peak Hour Factor		0.94			0.94			0.94			0.94	
Adjustment												
Adjusted 2023 Volumes	0	0	0	0	0	0	0	883	0	0	720	0
Annual Growth Rate	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Growth Factor	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
New Road Adjustment												
Chastain Logistics Crossing (Car)								106			24	
Chastain Logistics Crossing (Truck)								1			1	
Edison Chastain Meadows Phase II								26			5	
2025 Background Traffic	0	0	0	0	0	0	0	1,052	0	0	779	0
No-Build Heavy Vehicle %	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%	3%	0%
Project Trips												
Trip Distribution IN								20%	40%			
Trip Distribution OUT			5%								60%	
Residential Trips	0	0	3	0	0	0	0	6	11	0	36	0
Trip Distribution IN	-							10%	40%			
Trip Distribution OUT			10%								50%	
Retail Trips	0	0	1	0	0	0	0	1	5	0	4	0
Trip Distribution IN								10%	40%			
Trip Distribution OUT			10%					10/0	4070		50%	
Restaurant Trips	0	0	9	0	0	0	0	10	40	0	46	0
Trip Distribution IN								60%				
Trip Distribution OUT	-							00%			60%	
Light Industrial Trips (Trucks)	0	0	0	0	0	0	0	1	0	0	1	0
Trip Distribution IN								55%		I		<u> </u>
Trip Distribution OUT											55%	
Light Industrial Trips (Cars)	0	0	0	0	0	0	0	138	0	0	18	0
Pass-By Trips	0	0	0	0	0	0	0	0	0	0	0	0
Project Trips Balance								-1				<u> </u>
Total Project Trips	0	0	13	0	0	0	0	155	56	0	105	0
2025 Buildout Total	0	0	13	0	0	0	0	1,207	56	0	884	0
Build Heavy Vehicle %	0%	0%	2%	0%	0%	0%	0%	2%	2%	0%	3%	0%

	Sit	te Drivewa	y A				С	hastain Ro	ad	C	hastain Ro	ad
	1	Northbour	nd	5	Southbour	ıd		Eastbound	1	1	Vestboun	d
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
Observed 2023 Traffic Volumes	0	0	0	0	0	0	0	911	0	0	881	0
Pedestrians		0			0			0			0	
Conflicting Pedestrians	0		0	0		0	0		0	0		0
Heavy Vehicles	0	0	0	0	0	0	0	18	0	0	12	0
Heavy Vehicle %	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%	2%	0%
Peak Hour Factor		0.96			0.96			0.96			0.96	
Adjustment												
Adjusted 2023 Volumes	0	0	0	0	0	0	0	911	0	0	881	0
Annual Growth Rate	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Growth Factor	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
New Road Adjustment												
Chastain Logistics Crossing (Car)								70			110	
Chastain Logistics Crossing (Truck)								1			1	
Edison Chastain Meadows Phase II								5			27	
2025 Background Traffic	0	0	0	0	0	0	0	1,024	0	0	1,055	0
No-Build Heavy Vehicle %	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%	2%	0%
Project Trips												
Trip Distribution IN								20%	40%			
Trip Distribution OUT			5%								60%	
Residential Trips	0	0	2	0	0	0	0	11	23	0	25	0
Trip Distribution IN								10%	40%			
Trip Distribution OUT			10%								50%	
Retail Trips	0	0	1	0	0	0	0	1	4	0	5	0
Trip Distribution IN								10%	40%			
Trip Distribution OUT			10%								50%	
Restaurant Trips	0	0	2	0	0	0	0	7	27	0	9	0
Trip Distribution IN								60%				
Trip Distribution OUT											60%	
Light Industrial Trips (Trucks)	0	0	0	0	0	0	0	1	0	0	1	0
Trip Distribution IN	_							55%				
Trip Distribution OUT		1	+		1			5570			55%	-
Light Industrial Trips (Cars)	0	0	0	0	0	0	0	20	0	0	127	0
Pass-By Trips	0	0	15	0	0	0	0	-15	15	0	0	0
1 ass-by 111ps	0	0	15	0	0	0	0	-15	15	5	5	0
Project Trips Balance	_										-1	_
Total Project Trips	0	0	20	0	0	0	0	25	69	0	166	0
2025 Buildout Total	0	0	20	0	0	0	0	1,049	69	0	1,221	0
Build Heavy Vehicle %	0%	0%	2%	0%	0%	0%	0%	2%	2%	0%	2%	0%

Intersection #7: Chastain Road @ Site Driveway B / Chastain Lakes Drive AM PEAK HOUR

		e Drivewa lorthbour			ain Lakes outhbour				in Road oound				in Road bound	
Description	Left	Through	Right	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
Observed 2023 Traffic Volumes	0	0	0	20	0	38	34	7	842	0	3	0	682	11
Pedestrians		0	v	20	2	50	54		042	~	~		0	
Conflicting Pedestrians	0		0	0	-	0	0	2		0	0	0	Ĭ	2
Heavy Vehicles	0	0	0	0	0	1	0	0	20	0	0	0	24	3
Heavy Vehicle %	0%	0%	0%	2%	0%	3%	2%	2%	2%	0%	2%	0%	4%	27%
Peak Hour Factor	070	0.94	070	270	0.94	570	270	2.0		070	270		.94	2170
Adjustment		0.74			0.74			0.	24			0		
Adjustment Adjusted 2023 Volumes	0	0	0	20	0	38	34	7	842	0	3	0	682	11
Annual Growth Rate	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Growth Factor	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
New Road Adjustment	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
Chastain Logistics Crossing (Car)									106				24	
Chastain Logistics Crossing (Car) Chastain Logistics Crossing (Truck)		<u> </u>					 		106		1		24	
Edison Chastain Meadows Phase II									26		1		5	
2025 Background Traffic	0	0	0	21	0	40	35	7	1.009	0	3	0	740	11
2025 No-Build Heavy Vehicle %	0%	0%	0%	2%	0%	3%	2%	2%	2%	0%	2%	0%	4%	28%
2023 No-Bullu Heavy Venicle %	076	076	0%	2 70	0%	.370	2 70	270	2.70	0%	270	070	49.70	2070
Project Trips														
Trip Distribution IN									5%	5%		10%		
Trip Distribution OUT	55%		5%						5%				15%	
Residential Trips	33	0	3	0	0	0	0	0	4	1	0	3	9	0
Trip Distribution IN					5%					10%		20%		
Trip Distribution OUT	50%	5%	10%		576				10%	1070		2070		
Retail Trips	4	0	1	0	1	0	0	0	1	1	0	2	0	0
iccum mps	-	0		0		0	0	0			0	~	0	0
Trip Distribution IN					5%					10%		20%		
Trip Distribution OUT	50%	5%	10%						10%					
Restaurant Trips	46	5	9	0	5	0	0	0	9	10	0	20	0	0
Trip Distribution IN									60%					
									00%				1011	
Trip Distribution OUT	0	0	0	0	0	0	0	0			0	0	60%	
Light Industrial Trips (Trucks)	0	0	0	0	0	0	0	0	1	0	0	0	1	0
Trip Distribution IN									55%					
Trip Distribution OUT													55%	
Light Industrial Trips (Cars)	0	0	0	0	0	0	0	0	138	0	0	0	18	0
Pass-By Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1 ass-by 111ps	0	0	J	0	0	0	0	J	0	0	0	0	0	0
Project Trips Balance														
Total Project Trips	83	5	13	0	6	0	0	0	153	12	0	25	28	0
rotar rioject trips	83	5	15	U	0	U	U	U	155	12	U	25	28	U
2025 Buildout Total	83	5	13	21	6	40	35	7	1,162	12	3	25	768	11
2025 Build Heavy Vehicle %	2%	2%	2%	2%	2%	3%	2%	2%	2%	2%	2%	2%	4%	28%

	Sit	e Drivewa	y B	Chas	tain Lakes	Drive		Chasta	in Road			Chasta	in Road	
	N	lorthbour	ıd	5	Southboun	d		East	bound			West	bound	
Description	Left	Through	Right	Left	Through	Right	U-Turn	Left	Through	Right	U-Turn	Left	Through	Right
Observed 2023 Traffic Volumes	0	0	0	14	0	28	27	28	856	0	3	0	853	26
Pedestrians		0			1				0				0	
Conflicting Pedestrians	0		0	0		0	0	1		0	0	0		1
Heavy Vehicles	0	0	0	0	0	1	0	0	18	0	0	0	11	0
Heavy Vehicle %	0%	0%	0%	2%	0%	4%	2%	2%	2%	0%	2%	0%	2%	2%
Peak Hour Factor		0.96			0.96			0.	.96			0	.96	
Adjustment														
Adjusted 2023 Volumes	0	0	0	14	0	28	27	28	856	0	3	0	853	26
Annual Growth Rate	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Growth Factor	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
New Road Adjustment														
Chastain Logistics Crossing (Car)									70				110	
Chastain Logistics Crossing (Truck)									1				1	
Edison Chastain Meadows Phase II									5				27	
2025 Background Traffic	0	0	0	15	0	29	28	29	967	0	3	0	1,025	27
2025 No-Build Heavy Vehicle %	0%	0%	0%	2%	0%	4%	2%	2%	2%	0%	2%	0%	2%	2%
r														
Project Trips														
Trip Distribution IN									5%	5%		10%		
Trip Distribution OUT	55%		5%						5%				15%	
Residential Trips	23	0	2	0	0	0	0	0	5	3	0	6	6	0
1														
Trip Distribution IN					5%					10%		20%		
Trip Distribution OUT	50%	5%	10%						10%					
Retail Trips	5	1	1	0	0	0	0	0	1	1	0	2	0	0
	-	-	-					-	-	-		-		
Trip Distribution IN					5%					10%		20%		
Trip Distribution OUT	50%	5%	10%		570				10%	1070		2070		
Restaurant Trips	9	1	2	0	3	0	0	0	2	7	0	14	0	0
testation inpo	· · ·	•	-	0		0	0	0	-	,	0	14	0	Ŭ
Trip Distribution IN	_								60%					
Trip Distribution OUT									0070				60%	
Light Industrial Trips (Trucks)	0	0	0	0	0	0	0	0	1	0	0	0	1	0
Light industrial frips (frucks)	0	0	0	0	0	0	0	0	1	0	0	0	1	0
Trip Distribution IN					+		<u> </u>		55%		<u> </u>			
Trip Distribution IN					+		<u> </u>		3370		<u> </u>		55%	
Light Industrial Trips (Cars)	0	0	0	0	0	0	0	0	20	0	0	0	127	0
ragin moustriar rrips (Cars)	U	U	U	0	U	U	U	U	20	U	U	U	127	U
Pass-By Trips	8	0	4	0	0	0	0	0	-4	4	0	8	-8	0
ass-by trips	0	U	*	0	U	U	U	U	-4	4	U	0	-0	U
Project Trips Balance	-1		-1		1		l			-1	l			
rioject trips balance	-1		-1		1		l			-1	l			
Total Designt Trins	44	2	8	0	3	0	0	0	25	14	0	30	126	0
Total Project Trips	44	2	δ	U	3	U	U	U	25	14	U	30	120	U
2025 Buildout Total		2		15	3	29	28	29	992		3	30	1,151	27
	44 2%	2 2%	8 2%	2%	3 2%	29 4%		29	992 2%	14			2%	27
2025 Build Heavy Vehicle % kinley-hom.com/so_alp/alp_spto/013805014_chastain meau							2%			2%	2%	2%	2% 6/7/202	

Intersection #8: Chastain Meadows Parkway @ Site Driveway C

		Meadows Iorthboun			n Meadows Southboun			e Driveway Eastbound			Westbound	4
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
Observed 2023 Traffic Volumes	4	175	0	0	519	21	2	0	2	0	0	0
Pedestrians	-	0	0	· ·	0	~.	~	0	~	0	0	
Conflicting Pedestrians	0		0	0		0	0		0	0		0
Heavy Vehicles	0	8	0	0	10	0	0	0	0	0	0	0
Heavy Vehicle %	2%	5%	0%	0%	2%	2%	2%	0%	2%	0%	0%	0%
Peak Hour Factor	270	0.82	070	070	0.82	270	270	0.82	270	070	0.82	070
Adjustment		0.02			0.02			0.02			0.02	
Adjusted 2023 Volumes	4	175	0	0	519	21	2	0	2	0	0	0
Annual Growth Rate	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Growth Factor	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
New Road Adjustment	1.040											
Chastain Logistics Crossing (Car)		27			121						1	
Chastain Logistics Crossing (Truck)		1			1							
Edison Chastain Meadows Phase II		10			52							
2025 Background Traffic	4	220	0	0	714	22	2	0	2	0	0	0
No-Build Heavy Vehicle %	2%	4%	0%	0%	2%	2%	2%	0%	2%	0%	0%	0%
No-band Heavy Venicie //	270	47/0	070	070	270	2.70	2.70	070	270	070	0/0	070
Project Trips												
Trip Distribution IN	30%					5%						
Trip Distribution OUT							5%		30%			
Residential Trips	8	0	0	0	0	1	3	0	18	0	0	0
Trip Distribution IN	20%					5%						
Trip Distribution OUT							5%		20%			
Retail Trips	2	0	0	0	0	1	0	0	2	0	0	0
Trip Distribution IN	20%					5%						
Trip Distribution OUT							5%		20%			
Restaurant Trips	20	0	0	0	0	5	5	0	18	0	0	0
Trip Distribution IN	-				60%							
Trip Distribution OUT		60%			-							
Light Industrial Trips (Trucks)	0	1	0	0	1	0	0	0	0	0	0	0
Trip Distribution IN					65%							
Trip Distribution OUT		65%										
Light Industrial Trips (Cars)	0	21	0	0	163	0	0	0	0	0	0	0
Pass-By Trips	0	0	0	0	0	0	0	0	0	0	0	0
D.'	_				I							
Project Trips Balance	_											
Total Project Trips	30	22	0	0	164	7	8	0	38	0	0	0
2 T		1		-	1			-			1	

PM PEAK HOUR

2025 Buildout Total Build Heavy Vehicle %

		Meadows						e Drivewa				
	1	Northbour	nd	5	Southboun	d		Eastbound	1	1	Vestboun	d
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
Observed 2023 Traffic Volumes	0	677	0	0	284	0	7	0	7	0	0	0
Pedestrians		0	r		0	r		0			0	
Conflicting Pedestrians	0		0	0		0	0		0	0		0
Heavy Vehicles	0	8	0	0	3	0	0	0	0	0	0	0
Heavy Vehicle %	0%	2%	0%	0%	2%	0%	2%	0%	2%	0%	0%	0%
Peak Hour Factor		0.89			0.89			0.89			0.89	
Adjustment												
Adjusted 2023 Volumes	0	677	0	0	284	0	7	0	7	0	0	0
Annual Growth Rate	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Growth Factor	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
New Road Adjustment												
Chastain Logistics Crossing (Car)		126			80							
Chastain Logistics Crossing (Truck)		1			1							
Edison Chastain Meadows Phase II		54			10							
2025 Background Traffic	0	885	0	0	386	0	7	0	7	0	0	0
No-Build Heavy Vehicle %	0%	2%	0%	0%	2%	0%	2%	0%	2%	0%	0%	0%
Project Trips												
Trip Distribution IN	30%					5%						
Trip Distribution OUT							5%		30%			
Residential Trips	17	0	0	0	0	3	2	0	12	0	0	0
Trip Distribution IN	20%					5%						
Trip Distribution OUT							5%		20%			
Retail Trips	2	0	0	0	0	0	1	0	2	0	0	0
Trip Distribution IN	20%					5%						
Trip Distribution OUT							5%		20%			
Restaurant Trips	14	0	0	0	0	3	1	0	4	0	0	0
Trip Distribution IN	-				60%							
Trip Distribution OUT		60%										
Light Industrial Trips (Trucks)	0	1	0	0	1	0	0	0	0	0	0	0
Trip Distribution IN					65%							
Trip Distribution OUT		65%										
Light Industrial Trips (Cars)	0	150	0	0	23	0	0	0	0	0	0	0
Pass-By Trips	8	-8	0	0	-2	2	8	0	2	0	0	0
Project Trips Balance												
Total Project Trips	41	143	0	0	22	8	12	0	20	0	0	0
* *												
2025 Buildout Total	41	1,028	0	0	408	8	19	0	27	0	0	0
Build Heavy Vehicle % /kimley-horm.com/so_alp/alp_tpto/013805014_chastain mea	2%	2%	0%	0%	2%	2%	2%	0%	2%	0%	0%	0%

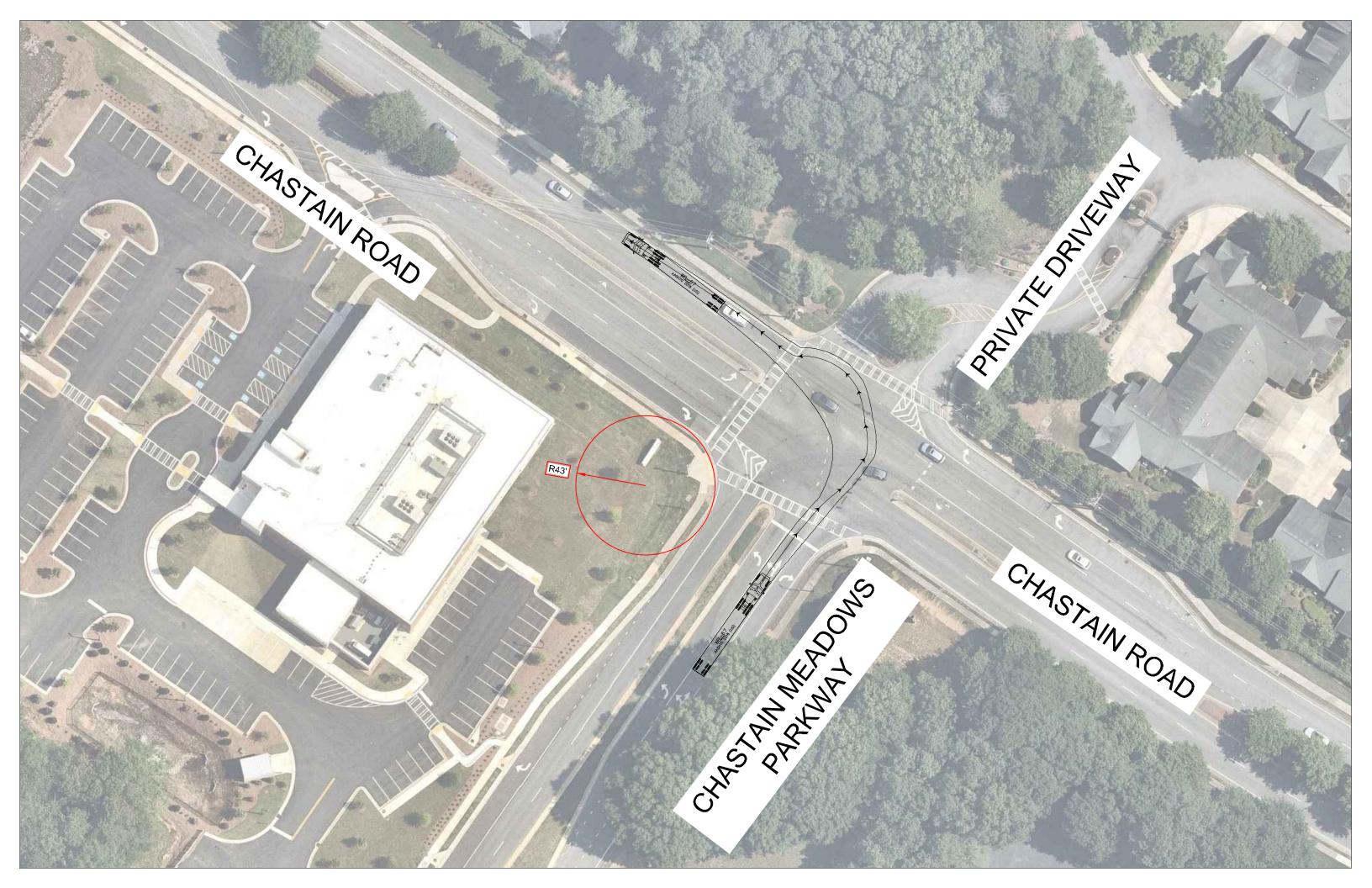
Intersection #9: Chastain Meadows Parkway @ Site Driveway D / Private Driveway AM PEAK HOUR

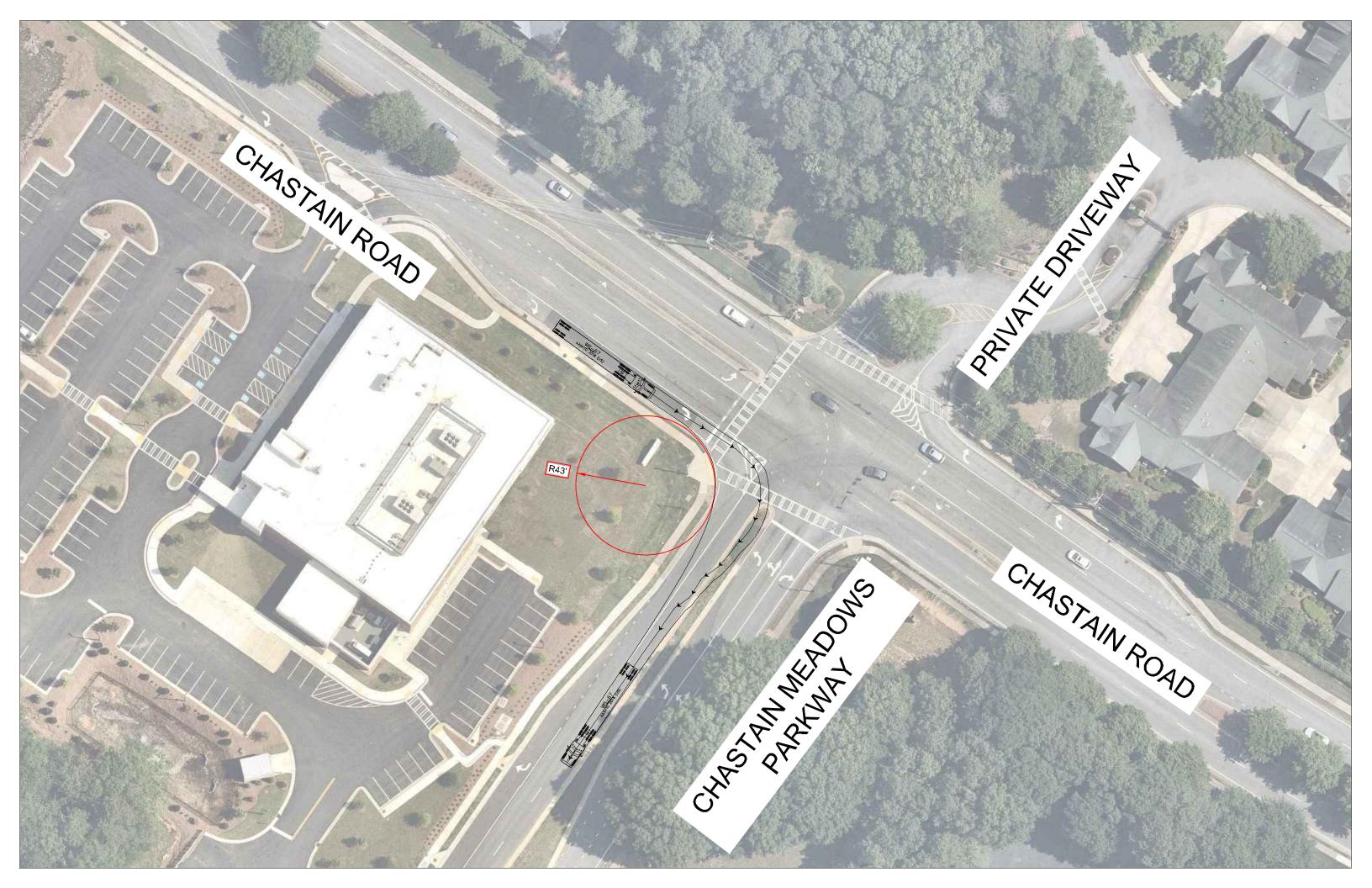
		Meadows orthboun			Meadows			e Driveway Eastbound			vate Drive Westboun	
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
Observed 2023 Traffic Volumes	0	179	4	27	493	0	0	0	0	3	0	1
Pedestrians		0			0			0			1	
Conflicting Pedestrians	0		1	1		0	0		0	0		0
Heavy Vehicles	0	7	0	0	11	0	0	0	0	0	0	0
Heavy Vehicle %	0%	4%	2%	2%	2%	0%	0%	0%	0%	2%	0%	2%
Peak Hour Factor		0.82			0.82			0.82			0.82	
Adjustment												
Adjusted 2023 Volumes	0	179	4	27	493	0	0	0	0	3	0	1
Annual Growth Rate	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Growth Factor	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
New Road Adjustment												
Chastain Logistics Crossing (Car)		27			121							
Chastain Logistics Crossing (Truck)		1			1							
Edison Chastain Meadows Phase II		10			52							
2025 Background Traffic	0	224	4	28	687	0	0	0	0	3	0	1
No-Build Heavy Vehicle %	0%	4%	2%	2%	2%	0%	0%	0%	0%	2%	0%	2%
Project Trips												
Trip Distribution IN		30%										
Trip Distribution OUT		5070			30%							
Residential Trips	0	8	0	0	18	0	0	0	0	0	0	0
residential Trips	0	0	0	0	10	0	0	Ū	0	0	0	Ū
Trip Distribution IN		20%										
Trip Distribution OUT					20%							
Retail Trips	0	2	0	0	2	0	0	0	0	0	0	0
1												
Trip Distribution IN		20%										
Trip Distribution OUT					20%							
Restaurant Trips	0	20	0	0	18	0	0	0	0	0	0	0
*												
Trip Distribution IN	40%					60%						
Trip Distribution OUT							60%		40%			
Light Industrial Trips (Trucks)	1	0	0	0	0	1	1	0	1	0	0	0
Trip Distribution IN	35%					65%						
Trip Distribution OUT	5576					0070	65%		35%			
Light Industrial Trips (Cars)	88	0	0	0	0	163	21	0	11	0	0	0
Eight Industrial Trips (Cars)	00	0	0	0	0	105	21	0		0	0	0
Pass-By Trips	0	0	0	0	0	0	0	0	0	0	0	0
Project Trips Balance												
Total Project Trips	89	30	0	0	38	164	22	0	12	0	0	0
2025 Buildout Total	89	254	4	28	725	164	22	0	12	3	0	1
Build Heavy Vehicle %	2%	254	4 2%	28	2%	2%	22 5%	0%	8%	 2%	0%	2%

	Chastain	Meadows	Parkway	Chastain	Meadows	Parkway	Sit	e Driveway	/ D	Pri	vate Drive	way
		Northbour	nd	5	Southbour	d		Eastbound	I.	1	Vestboun	d
Description	Left	Through	Right	Left	Through	Right	Left	Through	Right	Left	Through	Right
Observed 2023 Traffic Volumes	0	682	0	0	278	0	0	0	0	2	0	18
Pedestrians		. 0			0			0			0	
Conflicting Pedestrians	0		0	0		0	0		0	0		0
Heavy Vehicles	0	5	0	0	2	0	0	0	0	0	0	0
Heavy Vehicle %	0%	2%	0%	0%	2%	0%	0%	0%	0%	2%	0%	2%
Peak Hour Factor		0.88			0.88			0.88			0.88	
Adjustment												
Adjusted 2023 Volumes	0	682	0	0	278	0	0	0	0	2	0	18
Annual Growth Rate	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Growth Factor	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
New Road Adjustment												
Chastain Logistics Crossing (Car)		126			80							
Chastain Logistics Crossing (Truck)		1			1							
Edison Chastain Meadows Phase II		54			10							
2025 Background Traffic	0	891	0	0	380	0	0	0	0	2	0	19
No-Build Heavy Vehicle %	0%	2%	0%	0%	2%	0%	0%	0%	0%	2%	0%	2%
Project Trips												
Trip Distribution IN		30%										
Trip Distribution OUT					30%							
Residential Trips	0	17	0	0	12	0	0	0	0	0	0	0
Trip Distribution IN		20%										
Trip Distribution OUT					20%							
Retail Trips	0	2	0	0	2	0	0	0	0	0	0	0
Trip Distribution IN	_	20%										
Trip Distribution OUT					20%							
Restaurant Trips	0	14	0	0	4	0	0	0	0	0	0	0
Trip Distribution IN	40%					60%						
Trip Distribution OUT							60%		40%			
Light Industrial Trips (Trucks)	1	0	0	0	0	1	1	0	1	0	0	0
Trip Distribution IN	35%					65%						
Trip Distribution OUT		1			1		65%	1	35%			
Light Industrial Trips (Cars)	13	0	0	0	0	23	150	0	81	0	0	0
Pass-By Trips	0	0	0	0	0	0	0	0	0	0	0	0
Project Trips Balance									-1			
* 4												
Total Project Trips	14	33	0	0	18	24	151	0	81	0	0	0
2025 Buildout Total	14	924	0	0	398	24	151	0	81	2	0	19
Build Heavy Vehicle %	7%	2%	0%	0%	2%	4%	2%	0%	2%	2%	0%	2%

APPENDIX E

Full Page Truck Exhibits





APPENDIX D

Programmed Project Fact Sheets



<u> </u>		
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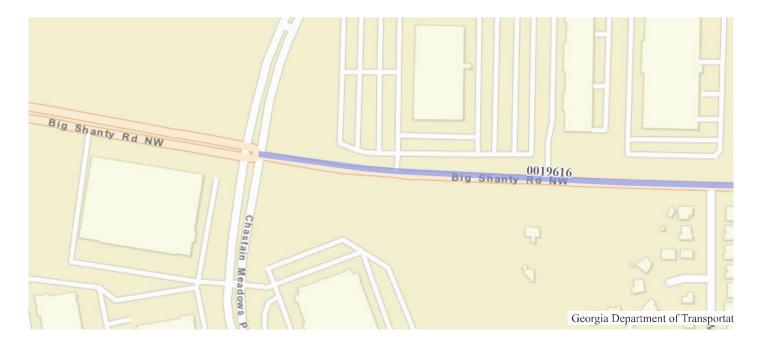
ews Contact Us

BIG SHANTY RD FROM CHASTAIN MEADOWS PKWY TO BELLS FERRY RD

Project ID:	0019616	Notice to Proceed Date:		
Project Manager:	Lily Slaughter	Construction Percent % Complete:		
Office:	Program Delivery	Current Completion Date:		
County:	Cobb	Work Completion Date:		
Congressional District:	011	Construction Contract Amount:		
State Senate District .:	032	Construction Contractor:		
State House District:	035	Preconstruction Status Report		
Project Type:	Reconstruction/Rehabilitation	Construction Status Report		
Project Status:	Construction Work Program			
Right of Way Authorization:		Contact Us		

Project Description:

Activity	Program Year	Cost Estimate	Date of Last Estimate
PE (Preliminary Engineering)	2023	\$2,500,000.00	
ROW (Right of Way)	2025	\$2,350,000.00	
CST (Construction)	2026	\$11,550,000.00	



Project Documents

There are no items to show in this view.



Georgia Department of Transportation One Georgia Center 600 West Peachtree NW Atlanta, GA 30308 (404) 631-1990 Main Office Contact Us Employment Privacy Policy

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AR-475	Atlanta Region's Plan RTP (20	020) PROJECT FACT SHEET			
Short Title	CONNECT COBB / NORTHWEST ATLANTA HIGH CAPACITY PREMIUM TRANSIT SERVICE FROM KENNESAW STATE UNIVERSITY TO MIDTOWN ATLANTA	Kennesaw Ros Mari etta			
GDOT Project No.	N/A	Sandy Springs			
Federal ID No.	N/A	Smyrna			
Status	Long Range	der Ings No			
Service Type	Transit / BRT Capital	THE ALL AND			
Sponsor	Cobb County	5 Mableton			
Jurisdiction	Regional - Northwest	00.51 Miles			
Analysis Level	In the Region's Air Quality Conformity Analysis				
Existing Thru Lane	N/A LCI	Network Year 2050			
Planned Thru Lane	N/A Flex	Corridor Length 25.3 miles			
Detailed Description	and Justification				
include the contruction of d	esaw University in Cobb County to midtown Atlanta via BRT c ledicated guideway on US 41 rom Kennesaw State University edicated guideway, continue onto the I-75 North managed la	to the Cumberland Activity Center. The new BRT service			

Pha	se Status & Funding	FISCAL	TOTAL PHASE	BREAKDOWN OF TOTAL PHASE COST BY FUNDING SOURCE				
Information		YEAR	COST	FEDERAL	STATE	BONDS	LOCAL/PRIVATE	
PE	STP - Urban (>200K) (ARC)	AUTH	2012	\$1,700,000	\$1,266,667	\$0,000	\$0,000	\$433,333
ALL	New Starts		LR 2041- 2050	\$491,000,000	\$171,850,000	\$0,000	\$0,000	\$319,150,000
				\$492,700,000	\$173,116,667	\$0,000	\$0,000	\$319,583,333

and 17th Street. The project also includes transit improvements in Midtown Atlanta are and Arts Center MARTA station to accommodate the new

SCP: Scoping PE: Preliminary engineering / engineering / design / planning PE-OV: GDOT oversight services for engineering ROW: Right-of-way Acquistion UTL: Utility relocation CST: Construction / Implementation ALL: Total estimated cost, inclusive of all phases

? For additional information about this project, please call (404) 463-3100 or email transportation@atlantaregional.com.

BRT vehicles and service.

СО-297В	Atlanta Region's Plan RTP (2020) PROJECT FACT SHEET						
Short Title	BIG SHANTY ROAD WIDENING - PHASE IV FROM CHASTAIN MEADOWS PARKWAY TO BELLS FERRY ROAD	Wilson Athen Steeling AL Sector And All Sector And					
GDOT Project No.	0019616	Dr. Ne					
Federal ID No.	N/A	Con Preuma					
Status	Programmed	Bid shanty Rd L					
Service Type	Roadway / General Purpose Capacity	Brookhaven.Dr.N. Brookhaven.Dr.N. Brookhaven.Dr.N. Brookhaven.Dr.N.					
Sponsor	Cobb County	TUS NIN					
Jurisdiction	Cobb County	0 250500 Feet					
Analysis Level	In the Region's Air Quality Conformity Analysis	Copyright 2005 Aero Surveys of Georgia, Inc. Reproduced by permission of the copyright owner. Contact http://www.aeroatlas.com					
Existing Thru Lane	2 LCI	Network Year 2030					
Planned Thru Lane	4 Flex	Corridor Length 0.4 miles					
Detailed Description a	Detailed Description and Justification						

This project involves adding one general purpose lane in each direction along Big Shanty Road between Chastain Meadows Parkway and Bells Ferry Road. Georgia Transportation Infrastructure Bank (GTIB) funding is being utilized to match federal earmark funding on this project.

Phas	se Status & Funding	Status	FISCAL	TOTAL PHASE	BREAKDOWN OF TOTAL PHASE COST BY FUNDING SOURCE			
Information			YEAR COST		FEDERAL	STATE	BONDS	LOCAL/PRIVATE
	Congressionally Directed Spending - FY 2022		2023	\$2,000,000	\$2,000,000	\$0,000	\$0,000	\$0,000
PE	Georgia Transportation Infrastructure Bank		2023	\$500,000	\$0,000	\$0,000	\$500,000	\$0,000
ROW	Local Jurisdiction/Municipality Funds		2025	\$2,350,000	\$0,000	\$0,000	\$0,000	\$2,350,000
CST	Local Jurisdiction/Municipality Funds		2026	\$11,550,000	\$0,000	\$0,000	\$0,000	\$11,550,000
				\$16,400,000	\$2,000,000	\$0,000	\$500,000	\$13,900,000

SCP: Scoping PE: Preliminary engineering / engineering / design / planning PE-OV: GDOT oversight services for engineering ROW: Right-of-way Acquistion UTL: Utility relocation CST: Construction / Implementation ALL: Total estimated cost, inclusive of all phases

?

For additional information about this project, please call (404) 463-3100 or email transportation@atlantaregional.com.