


DATE: DECEMBER 4, 2019

ARC REVIEW CODE: V1912042

TO: Chairman Mike Boyce, Cobb County
ATTN TO: David W. Breden, Cobb County, Cobb County Water System
FROM: Douglas R. Hooker, Executive Director, ARC


Digital signature
Original on file

The Atlanta Regional Commission (ARC) has received the following proposal and is initiating a regional review to seek comments from potentially impacted jurisdictions and agencies. The ARC requests your comments related to the proposal not addressed by the Commission's regional plans and policies.

Name of Proposal: RC-19-03CC Fulton-Cobb Diversion Line

Review Type: Metro River

MRPA Code: RC-19-03CC

Description: The proposed project is for a new pump station and force main needed by Fulton County Department of Public Works to temporarily divert wastewater for treatment in Cobb County while the Big Creek Water Reclamation Facility is expanded. The new pipeline will comprise 30-inch and 24-inch pipes connecting to an existing Cobb County Water System manhole just west of the Chattahoochee River near Johnson Ferry Road and will extend to the proposed Riverside Diversion Pump Station. Project completion is expected in late August 2020. This application was filed by Cobb County on behalf of Fulton County.

Preliminary Finding: ARC staff has begun the review of the application for a MRPA Certificate for this proposed project in the Chattahoochee River Corridor. ARC's preliminary finding is that the proposed project is consistent with the Chattahoochee River Corridor Plan.

Submitting Local Government: Cobb County

Land Lot: 218, 219, 220, 282, 283, 284, 285 **District:** 1 **Section:** 2

Date Opened: December 4, 2019

Deadline for Comments: December 14, 2019

Earliest the Regional Review can be Completed: December 14, 2019 (next business day after deadline for comments).

THE FOLLOWING LOCAL GOVERNMENTS AND AGENCIES ARE RECEIVING NOTICE OF THIS REVIEW:

ARC COMMUNITY DEVELOPMENT
NATIONAL PARK SERVICE/CRNRA
FULTON COUNTY

ARC NATURAL RESOURCES
CHATTAHOOCHEE RIVERKEEPER
CITY OF SANDY SPRINGS

GEORGIA DEPARTMENT OF NATURAL RESOURCES
GEORGIA CONSERVANCY

If you have any questions regarding this review, please contact Greg Giuffrida at ggiuffrida@atlantaregional.org or (470) 378-1531. If ARC staff does not receive comments from you on or before **Saturday, December 14, 2019**, we will assume that your agency has no additional comments and will close the review. Comments by email are strongly encouraged. **The ARC review website is located at:** <http://www.atlantaregional.org/land-use/planreviews>.

Attached is information concerning this review.

ARC STAFF NOTICE OF REGIONAL REVIEW AND COMMENT FORM

DATE: DECEMBER 14, 2019

ARC REVIEW CODE: V1912042

TO: ARC Community Development and Natural Resources Managers

FROM: Greg Giuffrida, 470-378-1531

Reviewing staff by Jurisdiction:

Community Development: Smith, Andrew

Natural Resources: Santo, Jim

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Review Type: Metro River

Description: The proposed project is for a new pump station and force main needed by Fulton County Department of Public Works to temporarily divert wastewater for treatment in Cobb County while the Big Creek Water Reclamation Facility is expanded. The new pipeline will comprise 30-inch and 24-inch pipes connecting to an existing Cobb County Water System manhole just west of the Chattahoochee River near Johnson Ferry Road and will extend to the proposed Riverside Diversion Pump Station. Project completion is expected in late August 2020. This application was filed by Cobb County on behalf of Fulton County.

Submitting Local Government: Cobb County

Date Opened: DECEMBER 4, 2019

Deadline for Comments: December 14, 2019

Earliest the Regional Review can be Completed:

Response:

- 1) Proposal is **CONSISTENT** with the following regional development guide listed in the comment section.
- 2) While neither specifically consistent nor inconsistent, the proposal relates to the following regional development guide listed in the comment section.
- 3) The proposal is **INCONSISTENT** with the following regional development guide listed in the comment section.
- 4) The proposal does **NOT** relate to any development guide for which this division is responsible.
- 5) Staff wishes to confer with the applicant for the reasons listed in the comment section.

COMMENTS:

[illegible]



COBB COUNTY WATER SYSTEM

Field Operations Center
680 South Cobb Drive
Marietta, Georgia 30060-3113

Steve D. McCullers, P. E.
Director

DIVISIONS:
Business Services
Customer Services
Engineering & Records
Stormwater Management
System Maintenance
Water Protection

October 10, 2019

Mr. Jim Santo
Atlanta Regional Commission
229 Peachtree Street, NE
Suite 100
Atlanta, Georgia 30303

RE: Application for MRPA Certificate
Fulton-Cobb Diversion Line & Pump Station
Hyde Road
Land Lots 218, 219, 220, 282, 283, 284 & 285, 1st District, 2nd Section
Cobb County, Georgia

Dear Mr. Santo:

Cobb County is requesting a formal review of the referenced application for a certificate under the provisions of the Metropolitan River Protection Act. The application for the submittal is by the applicant, Freese and Nichols, on behalf of the Fulton County Public Works. This submittal contains the application form and proposed site plans.

If you have any questions, please give me a call at 770-419-6454.

Sincerely,

David W. Breden, PE
Stormwater Management Division
Cobb County Water System

Enclosures

Cc: ARC File



March 8, 2019

Sandy Springs MRPA Project Number:

R2T Project Number: #G055-0005

David Breaden, P.E.

Stormwater Division Manager Cobb County

678 South Cobb Drive

Marietta, GA 30060

Re: Request for Review MRPA Application for National Park Service Johnson Ferry Road.

Mr. Breaden:

On behalf of Fulton County Department of Public Works (DPW) this letter is submitted to gain concurrence with a review of disturbance associated with project work within the National Park Service near Johnson Ferry Road Unit for the following project described below.

To accommodate an increase in wastewater treatment demand, Fulton County is looking to expand the Big Creek Water Reclamation Facility (BCWRF). Until project completion, water currently flowing into BCWRF will need to be redirected to Cobb County for treatment by constructing a new pump station and force main. The new pipeline, consisting of 30" and 24" pipes, will be laid using horizontal directional drill (HDD), Jack & Bore, and open cut methods. It will connect to an existing Cobb County Water System manhole just west of the Chattahoochee River near Johnson Ferry Road and will extend to the proposed Riverside Diversion Pump Station (RDPS). The RDPS will be constructed at the same site as the Riverside Road Pump Station (575 Riverside Road). The RDPS is intended to pump a flow range from 3.5 to 10 MGD. Project completion is expected to be late August 2020.

The pipeline will be constructed using HDD below the Chattahoochee River near upstream of Johnson Ferry Road (33.96361°N 84.38222°W to 33.96361°N 84.38361°W) from Cobb County into the City of Sandy Springs near 7600 Roswell Road (near the Fulton DPW Morgan Falls Pump Station at the end of Morgan Falls Road). The new pipeline easement will include the following temporary disturbance as indicated in Table 1 and shown in Figure 1 on the National Park Service property and one other.

Table 1 - ARC Clearing and Coverage for National Park Service

Existing Disturbance (Colonial Pipeline/Cobb County Sewer)					
Zone	Total Acres	Allowed Clearing	Proposed Clearing	Allowed Coverage	Proposed Coverage
Upgraded Area					
C	41.77	29.24	6.26	18.80	0.00
D	1.51	0.75	0.32	0.68	0.00
E	149.03	44.71	4.74	67.07	0.00

New Disturbance from Fulton-Cobb Diversion Line

Zone	Total Acres	Allowed Clearing	Proposed Clearing	Allowed Coverage	Proposed Coverage
Upgraded Area					
C	41.77	29.24	7.96	18.80	0.00
D	1.51	0.75	0.38	0.68	0.00
E	149.03	44.71	1.59	67.07	0.00

Total MRPA Disturbance

Zone	Total Acres	Allowed Clearing	Proposed Clearing	Allowed Coverage	Proposed Coverage
Upgraded Area					
C	41.77	29.24	14.22	18.80	0.00
D	1.51	0.75	0.70	0.68	0.00
E	149.03	44.71	6.33	67.07	0.00
Total	192.31	74.70	21.26	86.54	0.00

Sincerely,



Amanda Lester, P.E.

c/c Will Hackett Jr., P.E.

APPLICATION FOR METROPOLITAN RIVER PROTECTION ACT CERTIFICATE

1. Name of Local Government: Cobb County
2. Owner(s) of Record of Property to be Reviewed:
Name(s): United States National Park Service
Mailing Address: 1978 Island Ford Parkway
City: Sandy Springs State: GA Zip: 30350
Contact Phone Numbers (w/Area Code):
Daytime Phone: 678-538-1200 Fax: _____
Other Numbers: 678-538-1326
3. Applicant(s) or Applicant's Agent(s):
Name(s): Will Hackett Jr. P.E. CDT
Mailing Address: 360 Interstate North Parkway Suite 250
City: Atlanta State: GA Zip: 30339
Contact Phone Numbers (w/Area Code):
Daytime Phone: 770-627-7592 Fax: _____
Other Numbers: 229-886-0744
4. Proposed Land or Water Use:
Name of Development: Fulton-Cobb Diversion Line and Pump Station Project
Description of Proposed Use: Installation of sanitary sewer pipeline
5. Property Description (Attach Legal Description and Vicinity Map):
Land Lot(s), District, Section, County: 218, 219, 220, 282, 283, 284, 285 District 1
Subdivision, Lot, Block, Street and Address, Distance to Nearest Intersection: _____
Hyde Road
Size of Development (Use as Applicable):
Acres: Inside Corridor: 170.84
Outside Corridor: _____
Total: 170.84
Lots: Inside Corridor: _____
Outside Corridor: _____
Total: _____
Units: Inside Corridor: _____
Outside Corridor: _____
Total: _____
Other Size Descriptor (i.e., Length and Width of Easement):
Inside Corridor: _____
Outside Corridor: _____
Total: _____

6. Related Chattahoochee Corridor Development:

- A. Does the total development include additional land in the Chattahoochee Corridor that is not part of this application?** Yes

If "yes", describe the additional land and any development plans: _____

Pipeline installation in City of Sandy Springs and City of Roswell

- B. Has any part of the property in this application, or any right-of-way or easement bordering this land, previously received a certificate or any other Chattahoochee Corridor review approval?** Yes

If "yes", please identify the use(s), the review identification number(s), and the date(s) of the review(s): Colonial Pipeline 77-78 November 1977

7. How Will Sewage from this Development be Treated?

- A. Septic tank** NA

Note: For proposals with septic tanks, the application must include the appropriate local government health department approval for the selected site.

- B. Public sewer system** NA

8. Summary of Vulnerability Analysis of Proposed Land or Water Use:

Vulnerability Category	Total Acreage (or Sq. Footage)		Total Acreage (or Sq. Footage) Land Disturbance		Total Acreage (or Sq. Footage) Imperv. Surface	Percent Land Disturb. (Maximums Shown In Parentheses)	Percent Imperv. Surf. (Maximums Shown In Parentheses)
A						(90)	(75)
B						(80)	(60)
C	0.16	Acres	0.00	Acres	0.00 Acres	(70) ⁰	(45) ⁰
D	0.00	Acres	0.00	Acres	0.00 Acres	(50) ⁰	(30) ⁰
E	170.68	Acres	29.50	Acres	0.00 Acres	(30) ¹⁷	(15) ⁰
F						(10)	(2)
Total:	170.84	Acres	29.50	Acres	0.00 Acres	N/A	N/A

9. Is any of this Land within the 100-Year Floodplain of the Chattahoochee River? Yes
If "yes", indicate the 100-year floodplain elevation: 810
NOTE: For this review, river floodplain is determined from the U.S. Army Corps of Engineers' "Floodplain Information - Chattahoochee River, Buford Dam to Whitesburg, Georgia", November, 1973 and its Supplement of March, 1982.
NOTE: All river 100-year floodplain is assigned to the "E" Category; its allowable allocations can be combined with those of other "E" land in the review. Also, 100-year floodplain cannot be reanalyzed and cannot accept transfers.
10. Is any of this land within the 500-year floodplain of the Chattahoochee River? Yes
If "yes", indicate the 500-year flood plain elevation: 812
NOTE: Plan Standards include a 35-foot height limit above the pre-construction grade within the 500-year floodplain (includes the 100-year floodplain). Adherence to this standard must be noted on the submitted plans (see Part 2.B.(4) of the Chattahoochee Corridor Plan).
11. The following is a checklist of information required to be attached as part of the application. Individual items may be combined.

FOR ALL APPLICATIONS:

- X Description of land in the application and any additional land in the project (attach legal description or surveyed boundaries).
- X Name, address, and phone number(s) of owner(s) of record of the land in the application. (Space provided on this form)
- X Written consent of all owners to this application. (Space provided on this form)
- X Name, address, and phone number(s) of applicant or applicant's agent. (Space provided on this form)
- X Description of proposed use(s). (Space provided on this form)
- X Existing vegetation plan.
- X Proposed grading plan.
- Certified as-builts of all existing land disturbance and impervious surfaces.
- X Approved erosion control plan.
- X Detailed table of land-disturbing activities. (Both on this form and on the plans)

☒ Plat-level plan showing (as applicable): lot boundaries; any other sub-areas; all easements and rights-of-way; 100- and 500-year river floodplains; vulnerability category boundaries; topography; any other information that will clarify the review.

☐ Documentation on adjustments, if any.

☐ Cashier's check or money order (for application fee).

FOR SINGLE-STEP APPLICATIONS (NON-SUBDIVISION):

☐ Site plan.

☒ Land-disturbance plan.

FOR TWO-STEP SINGLE-FAMILY SUBDIVISION APPLICATIONS ONLY:

☐ Concept plan.

☐ Lot-by-lot and non-lot allocation tables.

12. I (we), the undersigned, authorize and request review of this application for a certificate under the provisions of the Metropolitan River Protection Act: (use additional sheets as necessary)

National Park Service

DEANNA GRECO

Digitally signed by DEANNA GRECO
Date: 2019.10.09 08:07:45 -04'00'

Signature(s) of Owner(s) of Record

Date

13. I (we), the undersigned, authorize and request review of this application for a certificate under the provisions of the Metropolitan River Protection Act:

See attached for applicant signature *INS 11/3/19*

Signature(s) of Applicant(s) or Agent(s)

Date

14. The governing authority of Cobb County requests review by the Atlanta Regional Commission of the above-described use under the Provisions of the Metropolitan River Protection Act.

David W. Bearden

Signature of Chief Elected Official or Official's Designee

10-10-19

Date

☒ Plat-level plan showing (as applicable): lot boundaries; any other sub-areas; all easements and rights-of-way; 100- and 500-year river floodplains; vulnerability category boundaries; topography; any other information that will clarify the review.

____ Documentation on adjustments, if any.

____ Cashier's check or money order (for application fee).

FOR SINGLE-STEP APPLICATIONS (NON-SUBDIVISION):

____ Site plan.

☒ Land-disturbance plan.

FOR TWO-STEP SINGLE-FAMILY SUBDIVISION APPLICATIONS ONLY:

____ Concept plan.

____ Lot-by-lot and non-lot allocation tables.

12. I (we), the undersigned, authorize and request review of this application for a certificate under the provisions of the Metropolitan River Protection Act: (use additional sheets as necessary)

SIMEON SOLOMERU, JR. JMS 12/3/19 see ap/10/19
[Signature] 06/20/19
Signature(s) of Owner(s) of Record Date

13. I (we), the undersigned, authorize and request review of this application for a certificate under the provisions of the Metropolitan River Protection Act:

Will Hackett JMS 12/3/19
Will [Signature] 6/20/19
Signature(s) of Applicant(s) or Agent(s) Date

FOR APPLICANT SIGNATURE ONLY

14. The governing authority of Cobb County requests review by the Atlanta Regional Commission of the above-described use under the Provisions of the Metropolitan River Protection Act.

[Signature] 7-3-19
Signature of Chief Elected Official or Official's Designee Date
Super added
see attached
JMS 12/3/19

PRIMARY PERMITTEE ENGINEER
OWNER/DEVELOPER: 24 HOUR CONTACT:
FULTON COUNTY DEPARTMENT OF AMANDA LESTER, P.E.
PUBLIC WORKS R21 INC.
141 PLYMOUTH STREET, ATLANTA GA 580 W. CROSSVILLE RD, STE 101
30303 ROSWELL, GA 30075
PHONE (404) 612-4000 PHONE (770) 569-7038

SECONDARY PERMITTEE: NONE

SYMBOLS & LINES

- LIMIT OF LAND DISTURBANCE (Rd) ROCK DAM
— SILT FENCE (SENSITIVE) (Sb) STREAMBANK STABILIZATION
— SILT FENCE (NON SENSITIVE) (Sb) SEDIMENT BARRIER (HAYBALES)
— TREE PROTECTION FENCE (ORANGE BARRIER FENCE) (Sb) SEDIMENT BARRIER (NON SENSITIVE)
— BUFFER ZONE (Bf) SEDIMENT BARRIER (SENSITIVE)
— CHECK DAM (Cd) INLET SEDIMENT TRAP (FILTER FABRIC)
— CONSTRUCTION EXIT (Ct) INLET SEDIMENT TRAP (CURB INLET)
— DISTURBED AREA STABILIZATION (MULCHING ONLY) (Dn) TEMPORARY STREAM CROSSING
— DISTURBED AREA STABILIZATION (TEMPORARY SEEDING) (Dn) SLOPE STABILIZATION (PERMANENT SEEDING)
— DISTURBED AREA STABILIZATION (PERMANENT SEEDING) (Dn) TURBIDITY CURTAIN
— DUST CONTROL (Dc) TREE PROTECTION
— DIVERSION (Dv)

SOIL SURVEY LEGEND

- SYMBOL MAP UNIT NAME
ALTAVISTA SANDY LOAM
BUNCOMBE LOAMY SAND, OCCASIONALLY FLOODED
CARTECAY-TOCOSA COMPLEX, OCCASIONALLY FLOODED
CARTECAY FINE SANDY LOAM, FREQUENTLY FLOODED
CECIL SANDY LOAM, MODERATELY ERODED
CONGAREE-CARTECAY COMPLEX, OCCASIONALLY FLOODED
CARTECAY SILT LOAM, SILTY VARIANT
GROVER MOUNTAIN PARK COMPLEX, STONY
GROVER MOUNTAIN PARK COMPLEX, STONY
PITS, QUARRY
NION SANDY LOAM
NION SANDY LOAM
TUCKER SANDY LOAM, OCCASIONALLY FLOODED
URBAN LAND
URBAN LAND-CECIL COMPLEX, MODERATELY ERODED
URBAN LAND-NION COMPLEX
WATER
WEHARREE-CARTECAY COMPLEX, OCCASIONALLY FLOODED

MRPA VULNERABILITY

LEGEND

VULNERABILITY CATEGORY



EROSION CONTROL NOTES

- UNLESS OTHERWISE INDICATED, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE GOOD PRACTICES OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
- THE DISTURBED AREA IS WITHIN THE 100 YEAR FLOOD HAZARD ZONE (FEMA FLOOD INSURANCE RATE MAP (FIRM) 1306702134, DATED MARCH 4, 2011, FIRM MAPS 131210003G & 131210134G, DATED SEPTEMBER 18, 2013).
- EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY TO ENSURE PROPER FUNCTIONING. ANY NECESSARY REPAIRS TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND CLEARANCE OF SEDIMENTATION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE IMMEDIATELY.
- INSPECTIONS BY QUALIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH ORDINANCE.
- WITHIN 72 SEVEN DAYS OF FINISHING INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. FAILURE OF OBTAINING THIS INSPECTION IS A DIRECT VIOLATION OF THE PERMIT.
- WHILE EROSION CONTROL MEASURES ARE IN PLACE, THE CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL MEASURES WITH THE RESOURCES OF THE DEVELOPMENT PERMIT AND ENDING WHEN THE PROJECT IS RELEASED BY THE INSPECTOR.
- DISTURBED AREA STABILIZATION SHALL BE ACHIEVED UTILIZING SEED MIX AND APPLICATION RATE AS DIRECTED BY OWNER.
- SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 372.1 SILT FENCE OF THE GEORGIA D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ANY ADDITIONAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION IF DETERMINED NECESSARY BY ON SITE INSPECTION.
- THE CONSTRUCTION OF THE SITE WILL INITIATE WITH INSTALLATION OF EROSION CONTROL MEASURES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL MEASURES WITH THE RESOURCES OF THE DEVELOPMENT PERMIT AND ENDING WHEN THE PROJECT IS RELEASED BY THE INSPECTOR.
- PERMANENT VEGETATION AND STREAMBANK STABILIZATION SHALL WORK IN CONJUNCTION WITH THE STREAM BUFFERS TO PERMANENTLY STABILIZE THE CONSTRUCTION SITE AND LIMIT POLLUTANTS ENTERING ADJACENT STATE WATERS AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED.
- ALL STRUCTURAL MEASURES MUST BE CLEANED OUT OR RECONSTRUCTED WHEN SEDIMENT VOLUMES EXCEED 1/3 THE STORAGE CAPACITY OF THE MEASURE. SEDIMENT EXCEED OUT SHOULD BE SPREAD IN UPLAND AREAS MIXED WITH TOPSOIL AND IMMEDIATELY OR RECONSTRUCTED. DO NOT SPUR IN AREAS WHERE STRUCTURAL FILLS ARE REQUIRED (SUCH AS PAVEMENT, BUILDING FOOTPRINTS, ETC.).
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO OCSA STANDARDS.
- ANY UNPROMISED WATER RUNOFF FROM LOTS BY PASSING WATER QUALITY POND MUST BE TREATED ON A LOT BY LOT BASIS.
- A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DETERMINED NECESSARY BY ON-SITE INSPECTION BY THE ISSUING AUTHORITY.
- WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE:
 - THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY OTHER EXCAVATION SPOTS, DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC. FROM THE DRAINAGE COURSE.
 - THE CONTRACTOR HEREBY AGREES TO STOP ALL WORK AND RESTORE THE AREAS IMMEDIATELY UPON NOTIFICATION BY THE OCSA INSPECTOR AND/OR THE PROFESSIONAL ENGINEER.
 - APPLICABLE EROSION, SEDIMENT AND POLLUTION CONTROL PLAN CHECKLIST ESTABLISHED BY THE COMMISSION AS OF JANUARY 3 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED.
 - USE OF ALTERNATIVE BMAPS WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE EQUIVALENT TO OR SUPERIOR TO CONVENTIONAL BMAPS AS CERTIFIED BY DESIGN PROFESSIONAL (UNLESS DISAPPROVED BY EDP OR THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION). PLEASE REFER TO THE ALTERNATIVE BMAP GUIDANCE FOUND AT WWW.GAEPCC.GEORGIA.GOV.
 - USE OF ALTERNATIVE BMAP FOR APPLICATION TO THE EQUIVALENT BMAP LIST. PLEASE REFER TO APPENDIX A-2 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA 2016 EDITION.
 - IF STREAMS ARE ON YOUR SITE, FULTON COUNTY WILL REQUIRE THAT THE STREAM BUFFERS BE LEFT UNDISTURBED AND A CONSERVATION EASEMENT OR A RESTRICTIVE COVENANT BE PLACED ON THAT PROPERTY FOR MORE INFORMATION, PLEASE CALL TOLL FREE TO CONTACT JASON GAINES WITH THE PLANNING DIVISION @ 770-528-2130 OR JASON.GAINES@FULTONCOUNTY.GA.GOV.

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL AND LOCAL CODES AND ALL NECESSARY PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER.
- DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT THE PRIOR CONSENT OF THE ENGINEER MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE TO THE ENGINEER.
- THE CONTRACTOR WARRANTS THAT HIS EMPLOYEES, AGENTS, AND SUBCONTRACTORS POSSESS THE EXPERIENCE, KNOWLEDGE AND CHARACTER NECESSARY TO QUALIFY THE INDIVIDUAL FOR THE PARTICULAR CONSTRUCTION TECHNIQUES THEY PERSONALLY ENGAGE IN CONJUNCTION WITH THE TASK TO BE PERFORMED UNDER THIS CONTRACT. THE CONTRACTOR SHALL INSURE THAT ALL CONSTRUCTION IS PERFORMED IN STRICT COMPLIANCE WITH ALL OSHA, STATE AND LOCAL HEALTH AND SAFETY CODES.
- THE CONTRACTOR OR OTHER RESPONSIBLE PARTY IS TO TAKE IMMEDIATE ACTION UPON DISCOVERY OF DEFICIENCIES, WHETHER INCLUDED IN AN INSPECTION REPORT OR NOT. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY DEFICIENCIES ARE FOUND IN THE SURVEY DATA AND ACTUALLY FIELD CONDITIONS.

- CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES BEFORE CONSTRUCTION STARTS. EXISTING UTILITIES ARE SHOWN USING THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS EXPECTED TO COORDINATE ALL WORK WITH THE OWNER AND UTILITY COMPANIES TO MINIMIZE DISRUPTION AND DAMAGE TO THE PROPERTY.
- CONSTRUCTION STAGING AREAS, SITE ACCESS AND LIMITS OF CONSTRUCTION SHALL BE COORDINATED WITH ANY SECONDARY OR TERTIARY PERMITTEES.

BEST MANAGEMENT PRACTICES

- STRIPPING OF VEGETATION, REGRADING, AND OTHER DEVELOPMENT ACTIVITIES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO MINIMIZE EROSION.
- CUT AND FILL OPERATIONS SHALL BE KEPT TO A MINIMUM.
- DEVELOPMENT PLANS MUST CONFORM TO TOPOGRAPHY AND SOIL TYPE, SO AS TO CREATE THE LOWEST PRACTICABLE EROSION POTENTIAL.
- WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED, AND SUPPLEMENTED.
- DISTURBED SOIL SHALL BE STABILIZED AS QUICKLY AS PRACTICABLE.
- PERMANENT VEGETATION AND STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICABLE.
- TO THE EXTENT NECESSARY, SEDIMENT IN RUNOFF WATER SHALL BE TRAPPED BY THE USE OF DEBRIS, BARRIERS, SILT TRAPS, OR SIMILAR MEASURES UNTIL THE DISTURBED AREA IS STABILIZED.
- ADEQUATE PROVISIONS SHALL BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACES OF EXCAVATIONS OR THE SLOPING SURFACES OF FILLS. ALL FILLS SLOPES SHALL HAVE SALT FLUSHES AT THE TOE.
- GRADING EQUIPMENT SHALL CROSS FLOWING STREAMS BY THE MEANS OF BRIDGES OR CULVERTS, EXCEPT WHEN SUCH METHODS ARE NOT FEASIBLE. PROVIDED IN ANY CASE THAT SUCH CROSSINGS SHALL BE KEPT TO A MINIMUM.
- FILLS SHALL NOT ENROACH UPON NATURAL WATER COURSES OR CONSTRUCTED CHANNELS IN A MANNER SO AS TO ADVERSELY AFFECT OTHER PROPERTY OWNERS.
- PROVISIONS SHALL BE PROVIDED FOR TREATMENT OR CONTROL OF ANY SOURCE OF SEDIMENTS AND ADEQUATE SEDIMENTATION CONTROL FACILITIES TO RETAIN SEDIMENTS ON SITE OR PRECLUDE SEDIMENTATION OF ADJACENT WATERS BEYOND THE LEVELS SPECIFIED IN THIS PERMIT.
- OFF SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. THE PLAN SHALL INCLUDE THE BEST MANAGEMENT PRACTICE TO BE IMPLEMENTED AT THE SITE OR COMMON TO DEVELOPMENT.
- VELOCITY DISPERSION DEVICES SHALL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL FOR THE PURPOSE OF PROVIDING A NON-EROSIVE VELOCITY LOW FROM THE STRUCTURE TO A WATER COURSE SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED (E.G. NO SIGNIFICANT CHANGES IN THE HYDROLOGICAL REGIME OR THE RECEIVING WATERS).
- DEFLECTION FACILITIES AND EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO START OF OTHER CONSTRUCTION AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. THE DEVICES SHALL BE MONITORED AND ADJUSTED AS NEEDED TO KEEP A FUNCTIONING SYSTEM THROUGHOUT CONSTRUCTION. EROSION CONTROL MEASURES INCLUDE (BUT ARE NOT LIMITED TO): CONSTRUCTION EXITS, SILT FENCE, STORM INLET/OUTLET PROTECTION, MACHINERY BARRIERS, AND TEMPORARY GRASSING.
- NO WASTE MATERIALS INCLUDING BUT NOT LIMITED TO WASTE BUILDING MATERIALS, CONSTRUCTION AND DEMOLITION DEBRIS, CONCRETE WASHOUT OR EXCAVATED SEDIMENT, SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- ALL PERMITTEES SHALL INSURE AND DEMONSTRATE THAT THEIR PLAN IS IN COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL.

SILT FENCE NOTES

- SILT CONTROL SHALL BE IN EFFECT PRIOR TO ANY GRADING OR CONSTRUCTION.
- SEDIMENT BARRIERS SHALL BE INSTALLED ALONG CONTOURS TO THE MAXIMUM EXTENT PRACTICAL.
- SPLINED JOINTS SHALL OVERLAP 18" MIN. WITH MATCHING POST.
- DRIVE 48" DIA. POSTS 18" MIN. INTO THE SOIL.
- DIG DITCH 2'-4" WIDE & 4" DEEP. LAY FABRIC 6" & DEEP. THEN BACKFILL.
- ALLOW ALL STATE WATERS AND OTHER SENSITIVE AREAS, TWO ROWS OF TYPE 5 SEDIMENT BARRIERS SHALL BE USED.
- SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER.
- ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.
- SEDIMENT BARRIERS SHALL BE REPLACED WHENEVER IT HAS DETERMINED THAT THE SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY 1/2 SIZE MONTHS). ON THE HEIGHT OF THE PRODUCT IS NOT MAINTAINING 80% OF IT PROPERLY INSTALLED HEIGHT.
- TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

LAND DISTURBANCE CONSTRUCTION ACTIVITY SEQUENCE

THE FOLLOWING SEQUENCES ARE TO BE IMPLEMENTED IN THE ORDER SHOWN, UNLESS INCLEMENT WEATHER, SITE CONDITIONS, REVISIONS, PRE-CONSTRUCTION CONFERENCE, ETC. DICTATES A DEVIATION FROM THIS SCHEDULE. IF A DEVIATION IS UNDERTAKEN OR ANTICIPATED, THE ENGINEER SHALL BE NOTIFIED AND THE CHANGE OF SEQUENCE SHALL BE INCORPORATED IN THE DAILY LOG.

CLEARING & GRUBBING (IN PHASE 1)

- OBTAIN AND POST COPY OF LAND DISTURBANCE PERMIT ON SITE.
- PRIOR TO LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING AT THE SITE. THE CONTRACTOR, OWNER'S REPRESENTATIVE, PROJECT DESIGN TEAM, AND COUNTY INSPECTOR SHALL REVIEW THE EROSION CONTROL, RECLAMATION AND SITE WORK CONSTRUCTION DOCUMENTS.
- SET UP A DAILY INSPECTION LOG FOR THE BMAP INSPECTIONS TO BE KEPT IN THE CONSTRUCTION TRUCK OR AT A NEARBY ACCESSIBLE LOCATION (SALES

- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.

- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE WILL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE.

- IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.

- TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITY.

- WITHIN SEVEN (7) DAYS AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE DESIGN PROFESSIONAL APPROVES THE INSTALLATIONS.

- AFTER APPROVAL OF INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. ALL CLEARED MATERIAL TO BE WAHLED OUT OR STOCKPILED FOR CHIPPING OR TUB GRINDING, IF PERMITTED.

- THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BUSH. SEDIMENT CONTROL WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR WITHIN SEVEN (7) DAYS OF LAND DISTURBANCE, ALL DISTURBED AREAS LEFT UNMULCH MORE THAN THIRTY (30) DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
- CONSTRUCT ALL REPAIRING STRUCTURAL BMAPS SHOWN ON E&P/C CONCURRENT WITH CLEARING AND GRUBBING OPERATIONS.

NOTE:

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 30 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

NO WASTE MATERIALS INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

NON-STORM WATER DISCHARGE

IT IS NOT ANTICIPATED THAT ANY NON-STORM WATER DISCHARGES WILL BE MADE TO ANY OFF-SITE WATERS. IF IT IS DETERMINED THAT NON-STORM WATER DISCHARGES WILL BE MADE, INCLUDING CHANGES FROM THE EXISTING ACTIVITIES, THE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE DESIGN PROFESSIONAL APPROVES THE INSTALLATIONS.

AFTER APPROVAL OF INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. ALL CLEARED MATERIAL TO BE WAHLED OUT OR STOCKPILED FOR CHIPPING OR TUB GRINDING, IF PERMITTED.

THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BUSH. SEDIMENT CONTROL WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR WITHIN SEVEN (7) DAYS OF LAND DISTURBANCE, ALL DISTURBED AREAS LEFT UNMULCH MORE THAN THIRTY (30) DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.

ANTICIPATED BEGINNING OF CONSTRUCTION: APRIL 2019
ANTICIPATED END OF INITIAL CONSTRUCTION: JULY 2019

DESCRIPTION	SCHEDULE OF MAJOR ACTIVITIES											
	1	2	3	4	5	6	7	8	9	10	11	12
INSTALLATION & MAINTENANCE OF TREE PROTECTION AND EROSION CONTROL MEASURES												
ENGINEER'S INSPECTION												
PHASE 1: CLEARING AND GRUBBING												
PHASE 2: TEMPORARY VEGETATION												
UTILITY INSTALLATION												
PHASE 3: PERMANENT VEGETATION												
MAINTENANCE OF EROSION CONTROL DEVICES												
FINAL LANDSCAPING												
ALMOST SEDIMENT CONTROL STRUCTURES												

* SEDIMENT AND EROSION CONTROL MEASURES TO BE INSPECTED DAILY MAINTAIN BMAPS THROUGHOUT LAND DISTURBING ACTIVITIES.

AGS/CC
Level II Certified Design Professional
24 HOUR CONTACT
FULTON DPW
(404) 612-7348



FULTON COUNTY DEPARTMENT OF PUBLIC WORKS
FULTON-COBB DIVERSION LINE
AND PUMP STATION
EROSION CONTROL
NARRATIVE PLAN

ES-3
FULTON DPW
(404) 612-7348

SAMPLE POINTS

FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR ALL OUTFALLS INTO SUCH STREAMS AND OTHER WATER BODIES, OR A COMBINATION THEREOF. HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV C.2 (2) OF THIS PERMIT, PRIMARY PERMITTEE'S ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE PERENNIAL AND INTERMITTENT STREAMS, OTHER WATER BODIES, OR OUTFALLS, OR A COMBINATION THEREOF OF SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

- THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
- THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
- IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
- CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.

- THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE SWIRLING FACES UPSTREAM.
- THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
- PERMITTEE'S DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, 100% OF THE SOIL SURFACE IS LAWN GRASS COVERED OR PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIMPROVED COVER WITH LANDSCAPING MATERIALS IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF LARGE CROP PERENNIALS) APPROPRIATE FOR THE REGION). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURE OR AS A VICTUAL PURPOSE, FINAL STABILIZATION MAY BE COMPLETED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR VICTUAL USE.

- ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GEAR, RALLY ACCEPTED SAMPLING METHODS, LOGGING, TITING, AND FREQUENCY) AS TO ACCURATELY REFLECT WITHIN THE STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IN COMPLIANCE WITH THE STANDARD SET FORTH IN PART 311 OF 3. OR 111.0.4. WHENEVER APPLICABLE.
- A DISCHARGE OF STORM WATER DURING DISTURBANCE DATES WHERE BEST MANAGEMENT PRACTICE HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF RECEIVING WATER(S) BEING INCREASED BY MORE THAN TEN (10) MGD LOW FLOW TURBIDITY UNITS OR WATER CLASSIFIED AS TROUT STREAMS OR MORE THAN TWENTY FIVE (25) MGD PRESENT TIME TURBIDITY UNITS OR WATER(S) SUPPORTING WARM WATER FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART 311.3.1.3.

- WHEN THE PERMITTEE HAS LITTED A SAMPLE OUTFALL, THE DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF RECEIVING WATER(S) BEING INCREASED BY MORE THAN TEN (10) MGD LOW FLOW TURBIDITY UNITS OR WATER CLASSIFIED AS TROUT STREAMS OR MORE THAN TWENTY FIVE (25) MGD PRESENT TIME TURBIDITY UNITS OR WATER(S) SUPPORTING WARM WATER FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART 311.3.1.3.

- WHEN THE PERMITTEE HAS LITTED A SAMPLE OUTFALL, THE DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH DISCHARGE RESULTS IN THE TURBIDITY OF RECEIVING WATER(S) BEING INCREASED BY MORE THAN TEN (10) MGD LOW FLOW TURBIDITY UNITS OR WATER CLASSIFIED AS TROUT STREAMS OR MORE THAN TWENTY FIVE (25) MGD PRESENT TIME TURBIDITY UNITS OR WATER(S) SUPPORTING WARM WATER FISHERIES, REGARDLESS OF A PERMITTEE'S CERTIFICATION UNDER PART 311.3.1.3.

SAMPLING FREQUENCY

- THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH DRAINAGE EVENT DESCRIBED BELOW. FOR EACH DRAINAGE EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO MONITOR RECEIVING WATER AND/OR FROM A MONITORED OUTFALL (LOCAL FLOW WITHIN FIFTY (50) MINUTE LAG TIME) OR AS SOON AS POSSIBLE.
- HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE OPERABLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWENTY (22) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

- SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:
 - FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT. AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT BEFORE ANY MAJOR GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION.
 - IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS

AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MAJOR GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION, WHENEVER COMES FIRST:

- AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BARRS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE TAKEN AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS UNTIL THE SELECTED TURBIDITY STATION IS ATTAINED, OR UNTIL POST STORM EVENT INSPECTIONS OF THE STREAM THAT BARRS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;
- WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV D.2 (A), (B), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND
- EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FOR A RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

REPORTING

- THE APPLICABLE PERMITTEE'S ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART B.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS. SAMPLING RESULTS SHALL BE SUBMITTED IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS IN A MORE FREQUENT BASIS (SAMPLING RESULTS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD). THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART IV.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNITS SUCH THAT AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART IV.2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

- THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR ANALYSIS RESULTS;
- THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
- THE DATE(S) ANALYSES WERE PERFORMED;
- THE TIME(S) ANALYSES WERE INITIATED;
- THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
- REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;
- THE RESULTS OF SUCH ANALYSES, INCLUDING THE METHOD SHEETS, INSTRUMENT READINGS, COMPUTER DATA OR TAPES, ETC., USED TO OBTAIN THESE RESULTS;
- RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEED 1000 NTU"; AND
- CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

- ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT OR REGISTERED MAIL, FOR SAMPLING RESULTS TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH THAT AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART IV.1. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED BY ELECTRONICALLY, IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT OR REGISTERED MAIL ON SIMILAR SERVICE.

RETENTION OF RECORDS

- THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION THROUGHOUT THE CONSTRUCTION UNTIL SUCH THAT AS A NOT IS SUBMITTED BY ACCORDANCE WITH PART IV.1.
 - A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
 - A COPY OF THE REGIONAL SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
 - THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.4.5. OF THIS PERMIT;
 - A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
 - A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV D.4. OF THIS PERMIT;
 - A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART D.2. OF THIS PERMIT; AND
 - DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV D.4.1 (2) OF THIS PERMIT.
- COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS RECORDING), AND ALL OTHER INSTRUMENTATION DATA REQUIRED BY THE EPD, (EXCEPT SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT) TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT

LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART IV.2 OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATE LOCATION WHERE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

ACTIVITIES WITHIN A BUFFER

- EXCEPT AS PROVIDED IN PART IV (B), IN THE GARLWOOD PERMIT, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER ALONG THE BANKS OF ANY STATE WATERWAY, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRITTEN BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS DETERMINED TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF C.G.C.A. 12-2-6, OR WHERE A DRAINAGE STRUCTURE OR A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED, OR ALONG ANY PERMANENT STREAM OR WHERE BUT HEADS AND SEAWALLS MUST BE CONSTRUCTED TO PREVENT THE EROSION OF THE SHORELINE ON LAKE OCCURRENCE AND LAKE UNIFORM. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING ACTIVITIES PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED:
 - PUBLIC DRINKING WATER SYSTEM RESERVOIRS;
 - FENCES;
 - STREAM CROSSINGS FOR WATER LINES AND SEWER LINES, PROVIDED THAT THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER; AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER;
 - STREAM CROSSINGS FOR ANY UTILITY LINES OF ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18.1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT:
 - THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER;
 - THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 100 LINEAR FEET;
 - THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE;
 - NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND
 - THE INTENT IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
 - STREAM CROSSINGS FOR AERIAL UTILITY LINES, PROVIDED THAT:
 - THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 100 LINEAR FEET;
 - THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE;
 - NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER AND
 - THE INTENT IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
 - RIGHT-OF-WAY POSTS, GUY WIRES, ANCHORS, SURVEY MARKERS AND THE REPLACEMENT OR MAINTENANCE OF EXISTING UTILITY STRUCTURES WITHIN THE CURRENT RIGHT-OF-WAY UNDERSTANDEN OR FINANCED IN WHOLE OR IN PART BY THE DEPARTMENT OF TRANSPORTATION, THE GEORGIA HIGHWAY AUTHORITY OR THE STATE ROADS AND TOLLWAY AUTHORITY OR UNDERSTANDEN BY ANY COUNTY OR MUNICIPALITY, PROVIDED THAT:
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 - THE AREA OF BUFFER VEGETATION TO BE CUT (NOT GRUBBED) DOES NOT EXCEED 1000 SQUARE FEET PER STRUCTURE;
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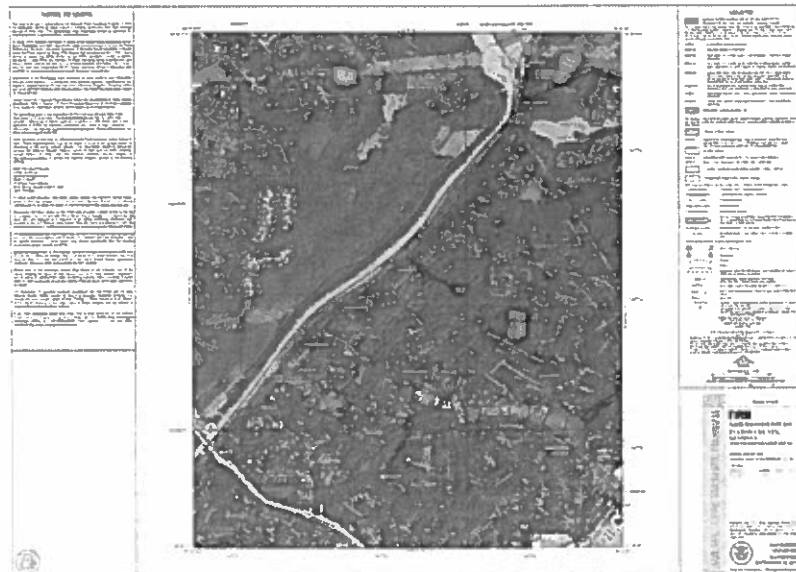
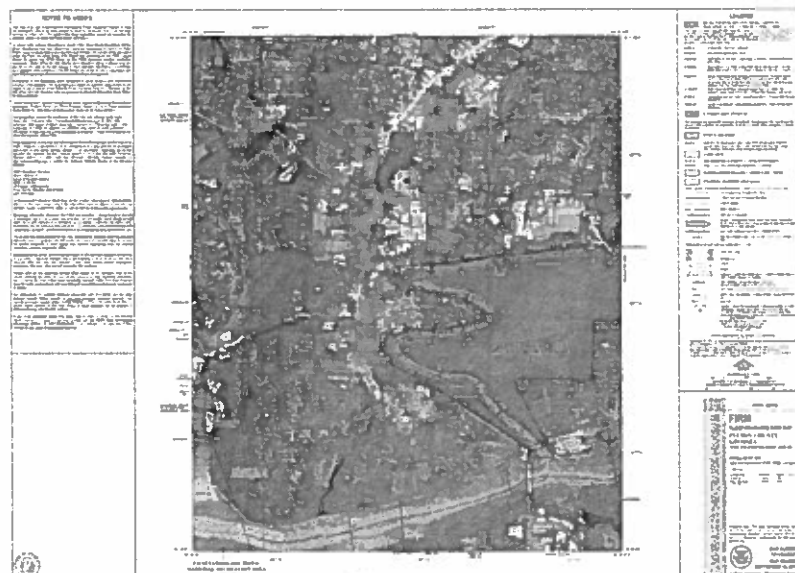
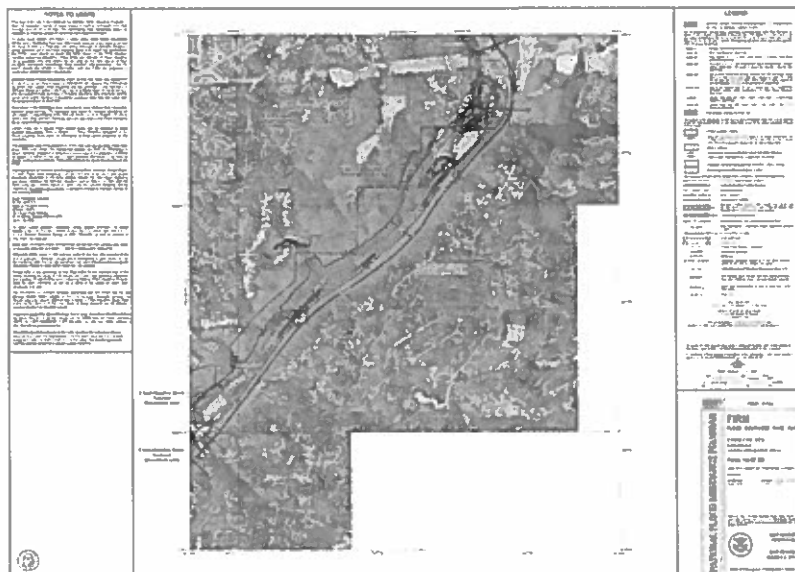
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 - PUBLIC DRINKING WATER SYSTEM RESERVOIRS;
 - FENCES;
 - STREAM CROSSINGS FOR WATER LINES AND SEWER LINES, PROVIDED THAT THE STREAM CROSSINGS OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM AND CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER; AND NATIVE RIPARIAN VEGETATION IS RE-ESTABLISHED IN ANY BARE OR DISTURBED AREAS WITHIN THE BUFFER;
 - STREAM CROSSINGS FOR ANY UTILITY LINES OF ANY ELECTRIC MEMBERSHIP CORPORATION OR MUNICIPAL ELECTRICAL SYSTEM OR ANY PUBLIC UTILITY UNDER THE REGULATORY JURISDICTION OF THE PUBLIC SERVICE COMMISSION, ANY CABLE TELEVISION SYSTEM AS DEFINED IN CODE SECTION 36-18.1, OR ANY AGENCY OR INSTRUMENTALITY OF THE UNITED STATES ENGAGED IN THE GENERATION, TRANSMISSION OR DISTRIBUTION OF POWER, PROVIDED THAT:
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 - THE NEW UTILITY LINE RIGHT-OF-WAY WIDTH DOES NOT EXCEED 100 LINEAR FEET;
 - THE AREA OF LAND DISTURBANCE DOES NOT EXCEED 100 SQUARE FEET PER STRUCTURE;
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 - THE INTENT IS NOT A SECONDARY PERMITTEE FOR A PROJECT LOCATED WITHIN A COMMON DEVELOPMENT OR SALE UNDER THIS PERMIT;
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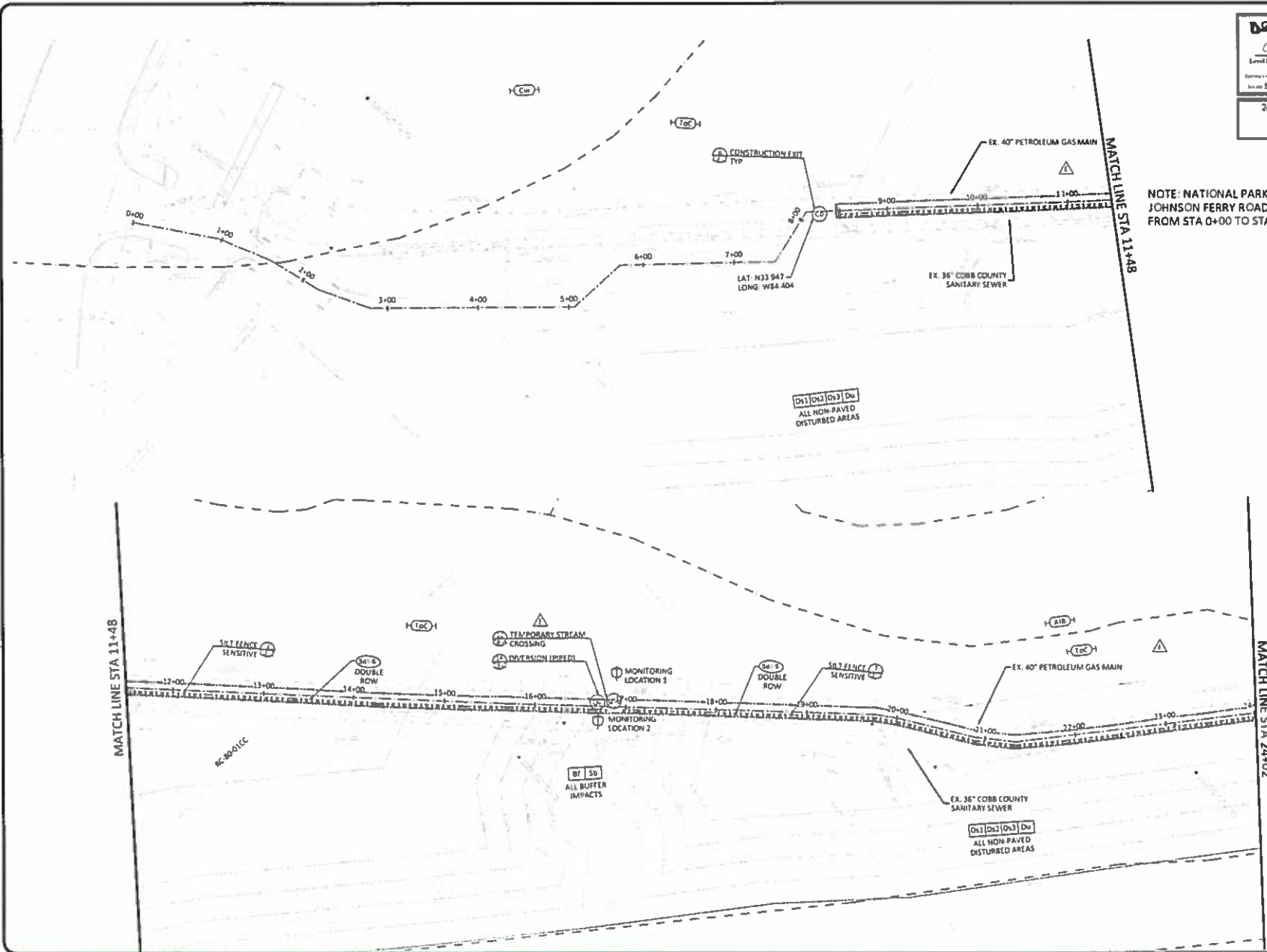
24 HOUR CONTACT
FL TON DAW
1-800-610-3244

(The following information was obtained from the records of the Department of Social Services, State of New York, Office of the Commissioner of Social Services, dated 10/1/87.)



24 HOUR CONTACT
FULTON DPW
1-800-612-7394

AC 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000



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NOTE: NATIONAL PARK SERVICE UNIT
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 FROM STA 0+00 TO STA 13+50



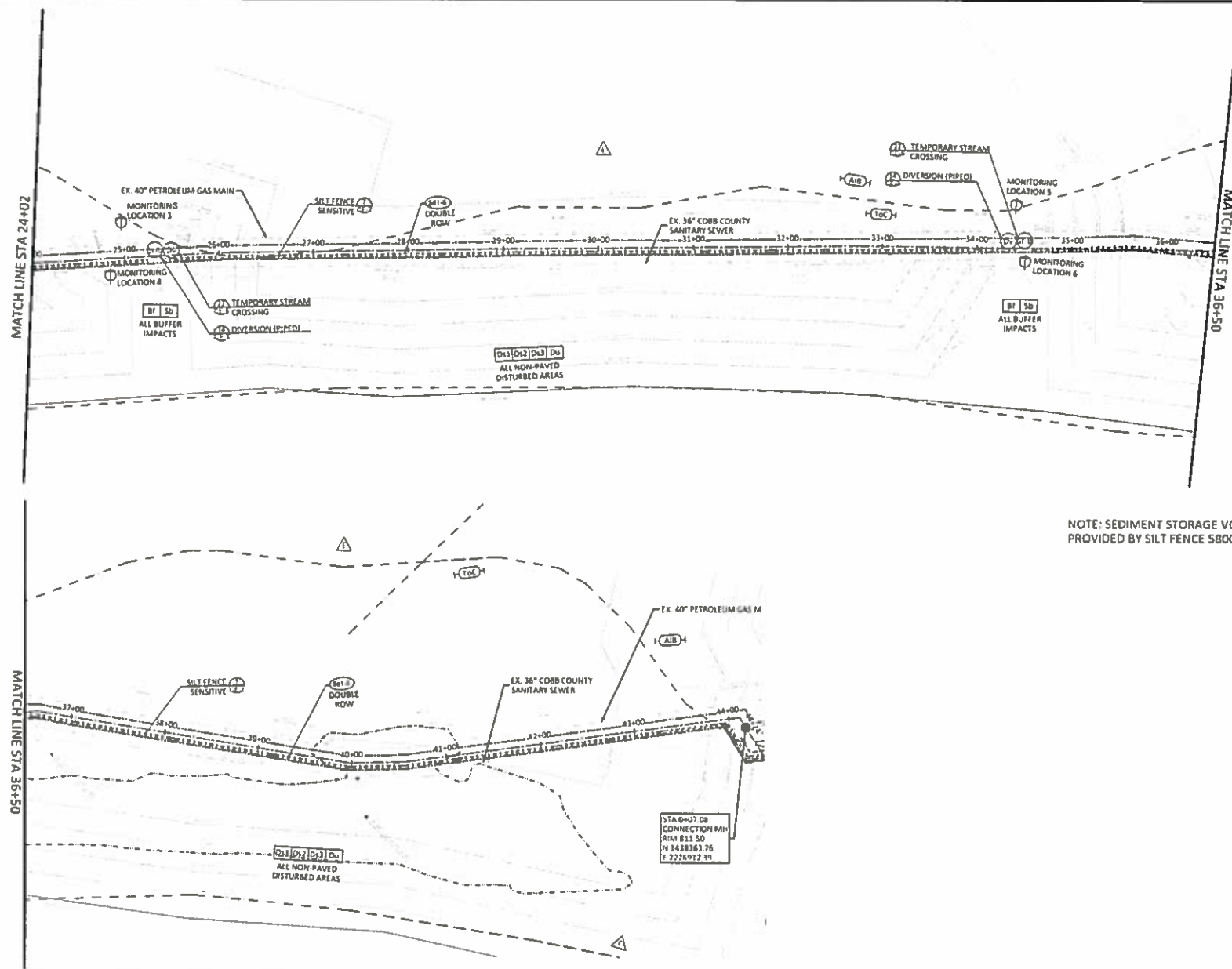
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 R2T
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 Atlanta, GA 30318
 Phone: (404) 354-3110
 Fax: (404) 354-3111

FULTON COUNTY DEPARTMENT OF PUBLIC WORKS
**FULTON-COBB DIVERSION LINE
 AND PUMP STATION**
 EROSION CONTROL PLAN
 ACCESS ROAD STA 0+00 TO STA 24+02

NO.	DATE	DESCRIPTION	BY	CHECKED	APPROVED
1	01/15/2011	ISSUED FOR PERMIT	J. J. J.	J. J. J.	J. J. J.
2	01/15/2011	REVISED	J. J. J.	J. J. J.	J. J. J.
3	01/15/2011	REVISED	J. J. J.	J. J. J.	J. J. J.
4	01/15/2011	REVISED	J. J. J.	J. J. J.	J. J. J.
5	01/15/2011	REVISED	J. J. J.	J. J. J.	J. J. J.
6	01/15/2011	REVISED	J. J. J.	J. J. J.	J. J. J.
7	01/15/2011	REVISED	J. J. J.	J. J. J.	J. J. J.
8	01/15/2011	REVISED	J. J. J.	J. J. J.	J. J. J.
9	01/15/2011	REVISED	J. J. J.	J. J. J.	J. J. J.
10	01/15/2011	REVISED	J. J. J.	J. J. J.	J. J. J.



ES-8
 1



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FULTON COUNTY DEPARTMENT OF PUBLIC WORKS
FULTON-COBB DIVERSION LINE
AND PUMP STATION
EROSION
EROSION CONTROL PLAN

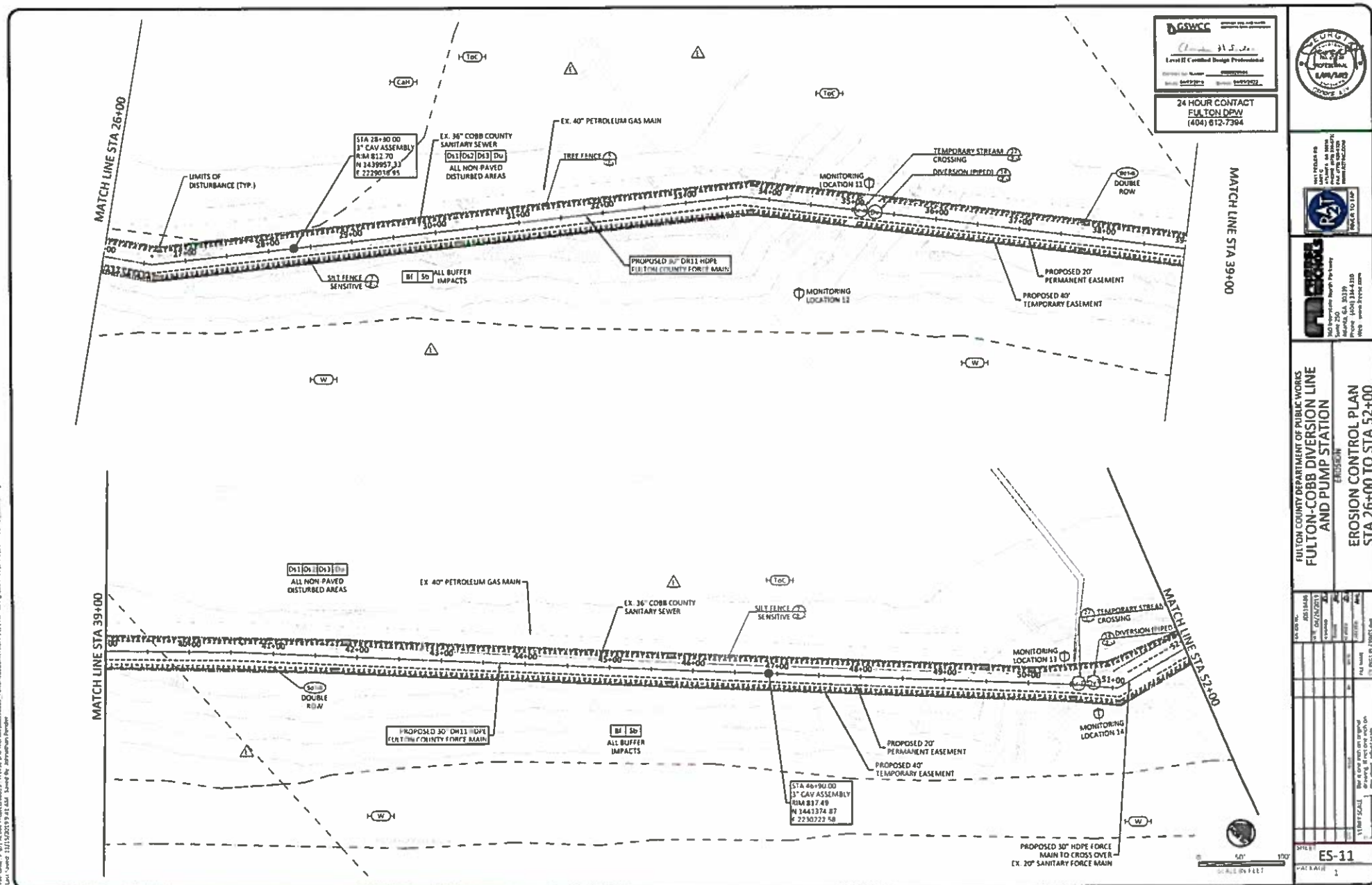
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**FULTON-COBB DIVERSION LINE
AND PUMP STATION**

[illegible]

ACLD Ref: 2101 BLM6 Tech4
 64-yr-old P101 Active Projects Q2025 Freeze and Meltout V205X005 - FutureCassChemistry[1] Autoterm Cad Run SCMA (CV INCL) At ISSMHS dng
 Lvl1 Lognet: 11/27/2021 8:37:51 PM. Shared By: Information Provider



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AND PUMP STATION
EROSION
EROSION CONTROL PLAN
STA 26+00 TO STA 52+00

[illegible]

ES-11



DETAIL 02270-21 COBB COUNTY WATER SYSTEM DISTURBED AREA STABILIZATION APPLICATION TABLE

AUGUST 8, 2001

AGENCY DIRECTOR

APPLICATION TABLE

SEASON	KIND OF SEED	POUNDS PER ACRE
JAN. 1 - MAY 15	UNPULLED COMMON BERMUDA KENTUCKY 31 PERCU REBEL 9 SUPREME	45 300 150
MAY 16 - SEPT. 1	PULLED COMMON BERMUDA	75
SEPT. 2 - DEC. 31	UNPULLED COMMON BERMUDA KENTUCKY 31 PERCU REBEL 9 SUPREME	45 300 150

1. THE SEED SHALL BE UNIFORMLY SOWN BY APPROVED MECHANICAL POWER DISK DRILLS OR IN SMALL AREAS BY MECHANICAL HAND SEEDERS. THE SEEDS SHALL BE COVERED AND COMPACTED TO A DEPTH OF 1" TO 1 1/2" BY MEANS OF A CLUTCHER AND AN EMPTY TRAFFIC ROLLER OR ANOTHER ROLLER WEIGHING LESS THAN 3 TONS. BROADCAST SEEDING AND FERTILIZING SHALL NOT BE DONE WHEN THE WIND MAKES IT DIFFICULT TO GET SATISFACTORY DISTRIBUTION.
2. COMMERCIAL FERTILIZER GRADE 18-46-0 SHALL THEN BE DISTRIBUTED UNIFORMLY AT THE RATE OF 10 LBS. PER ACRE AND SHALL BE UNIFORMLY MIXED WITH THE SOIL TO A DEPTH OF AT LEAST 4 INCHES BY DISKING.

1 DISTURBED AREA STABILIZATION APPLICATION TABLE

DETAIL 02270-20(A) & (B) COBB COUNTY WATER SYSTEM DISTURBED AREA STABILIZATION (WITH MULCHING) & (WITH TEMPORARY SEEDINGS)

Ds1

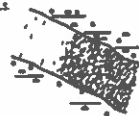
Ds2

AUGUST 8, 2001

AGENCY DIRECTOR

ESTABLISHING A TEMPORARY PROTECTION FOR DISTURBED AREAS USING SPECIFIC MULCH MATERIALS.

1. MULCH MATERIALS SHALL CONSIST OF DRY STRAW OR HAY AT 2.5 TONS PER ACRE, WOOD CHIPS AT 4 TO 6 TONS PER ACRE, EROSION CONTROL MATTING OR NETTING, OR POLYETHYLENE PLAST.
2. THIS STANDARD APPLIED TO GRADES OR CLEARED AREAS WHICH MAY BE SUBJECT TO EROSION CONTROL FOR 6 MONTHS OR LESS, AND CAN BE ESTABLISHED WITH A MULCH COVER.



ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST-GROWING SEEDINGS.

1. 12 MONTHS OR UNTIL ESTABLISHMENT OF PERMANENT GRADE OR PERMANENT VEGETATION.
2. SITE PREPARATION
 - GRADING AND SHAPING
 - SEEDING PREPARATION
 - APPLY LIME AND FERTILIZER
 - PLANT SEEDLINGS, SELECT SPECIES BY SEASON AND REGION
 - APPLY MULCHING MATERIAL AS NEEDED (SEE DET. FOR TYPES AND RATES)
 - IRRIGATE IF NEEDED BUT NOT AT RATE TO CAUSE EROSION
3. SEE DETAIL 02270-21 FOR PLANTING DATES



NOTE: CONTRACTOR SHALL STABILIZE ALL AREAS WITH TEMPORARY VEGETATION THAT ARE TO BE EXPOSED WITHOUT STORM WATER PROTECTION FOR LONGER THAN 7 DAYS

2 DISTURBED AREA STABILIZATION MULCHING & SEEDINGS

DETAIL 02270-20(C) COBB COUNTY WATER SYSTEM DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

Ds3

AUGUST 8, 2001

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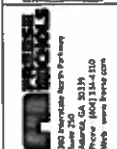
ESTABLISHING A PERMANENT VEGETATIVE COVER ON A DISTURBED AREA.

1. APPLICABLE ON HIGHLY ERODIBLE OR SEVERELY ERODED AREAS, SOMETIMES CALLED "CRITICAL AREAS" INCLUDING:
 - CHANNEL BANKS
 - ROADSIDES
 - SPILL AREAS
 - GRAZED LANDS
2. GRADING AND SHAPING NEED WHERE FEASIBLE AND PRACTICAL.
3. FENCE ON SLOPES STEEPER THAN 3 TO 1 SHALL BE HYDROSEEDED OR REPLACED AS SOON.
4. MULCH ALL SLOPES STEEPER THAN 3% AND IN BOTTOM OF SPILLWAYS AND ON ROADBANKS (SEE DET. FOR TYPES AND RATES).
5. APPLY MULCH IMMEDIATELY.



3 DISTURBED AREA STABILIZATION PERMANENT VEGETATION

AGSWCC
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 Atlanta, GA 30338
 (404) 612-7394
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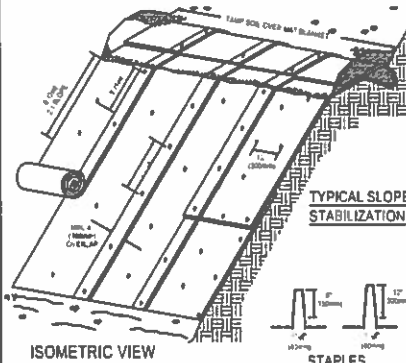


FULTON COUNTY DEPARTMENT OF PUBLIC WORKS
 FULTON-COBB DIVERSION LINE
 AND PUMP STATION
 EROSION
 COBB COUNTY
 EROSION CONTROL DETAILS

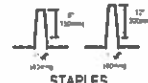
DETAIL 02270-22 COBB COUNTY WATER SYSTEM MATTING AND BLANKETS

MAY 15, 2002

AGENCY DIRECTOR



TYPICAL SLOPE STABILIZATION



1. MATTING AND BLANKETS SHOULD BE INSTALLED VERTICALLY DOWN SLOPE.
2. SLOPE SURFACE SHALL BE FREE OF ALL ROCKS AND SHALL BE SMOOTHED TO A FINISH OF 1/4" TO 1/2" INCHES.
3. MATTING AND BLANKETS SHALL HAVE GOOD SOIL CONTACT.
4. MATTING AND BLANKETS SHALL BE INSTALLED IN OVERLAPPING MANNER.
5. LAY BLANKET 1, COVERED AND STAPLE OR STAPLE TO MAINTAIN CONTACT WITH THE SOIL. DO NOT STITCH.

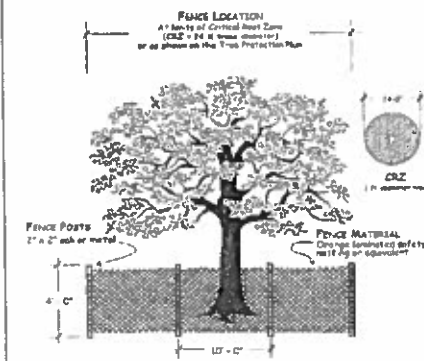
NOTE: TYPE 100 MATTED BLANKETS SHALL BE USED FOR SLOPE STABILIZATION (S).

4 SLOPE STABILIZATION

Detail 418 - 7 Community Development Agency TREE PROTECTION FENCE

May 2000

Typical Section



1. PROVIDE 6" HIGH, 1/2" THICK, 1/2" DIA. POSTS AT 6' ON CENTER.
2. ALUM. CHAIN LINK FENCE 4' HIGH BY GRADING AND BACKFILL WITH STONE.
3. PROVIDE TEMPORARY PROTECTION FOR TREE TRUNK AND ROOTS.

5 TREE PROTECTION FENCE

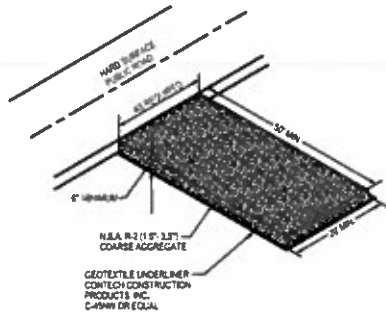
NO.	DATE	BY	CHKD.	APP.	REVISION
1	05/15/02	J.P.	J.P.	J.P.	1
2	05/15/02	J.P.	J.P.	J.P.	2
3	05/15/02	J.P.	J.P.	J.P.	3
4	05/15/02	J.P.	J.P.	J.P.	4
5	05/15/02	J.P.	J.P.	J.P.	5
6	05/15/02	J.P.	J.P.	J.P.	6
7	05/15/02	J.P.	J.P.	J.P.	7
8	05/15/02	J.P.	J.P.	J.P.	8
9	05/15/02	J.P.	J.P.	J.P.	9
10	05/15/02	J.P.	J.P.	J.P.	10

SHEET
 CE-1
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DETAIL 02270-16 COBB COUNTY WATER SYSTEM (Cd) CONSTRUCTION EXIT

AUGUST 8, 2001

AGENCY DIRECTOR

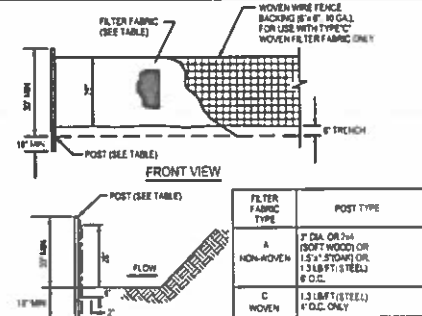


6 CONSTRUCTION EXIT (Cd)

DETAIL 02270-1 COBB COUNTY WATER SYSTEM (Sd1) SEDIMENT BARRIER (SILT FENCE)

APRIL 4, 2002

AGENCY DIRECTOR



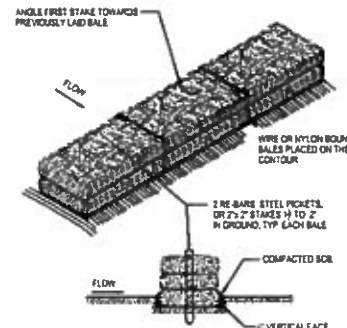
NOTE:
 1. SEDIMENT BARRIER SHALL BE TYPE "A" OR TYPE "C" AS NOTED ON EROSION CONTROL PLAN.
 2. FABRIC (TYPE "A" OR "C") AS SPECIFIED IN GA. D.O.T. LIST #36
 3. SEDIMENT BARRIER SHALL BE USED FOR TYPE (Sd1-4) SEDIMENT BARRIER.

7 SEDIMENT BARRIER (SILT FENCE) (Sd1)

DETAIL 02270-2 COBB COUNTY WATER SYSTEM (Sd1) SEDIMENT BARRIER (STAKED HAY BALE)

AUGUST 8, 2001

AGENCY DIRECTOR

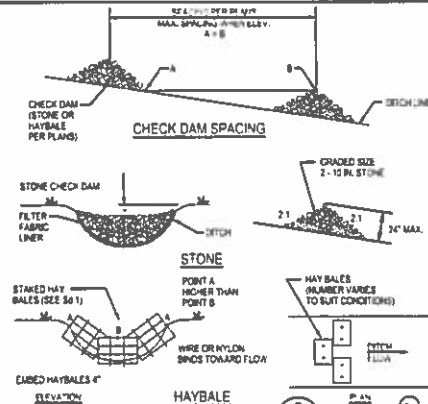


8 SEDIMENT BARRIER (STAKED HAY BALE) (Sd1)

DETAIL 02270-5 COBB COUNTY WATER SYSTEM (Cd) CHECK DAM

AUGUST 8, 2001

AGENCY DIRECTOR

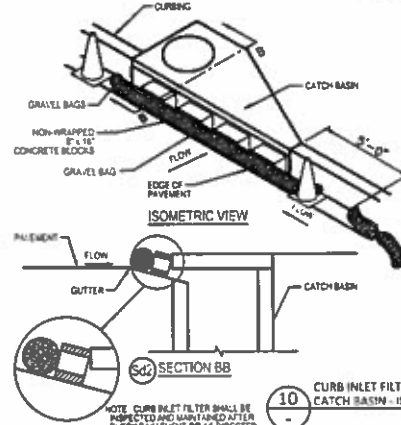


9 CHECK DAM (Cd)

DETAIL 02270-4A COBB COUNTY WATER SYSTEM (Sd2) CURB INLET FILTER TRAP (CATCH BASIN - IN LINE)

OCTOBER 18, 2010

AGENCY DIRECTOR

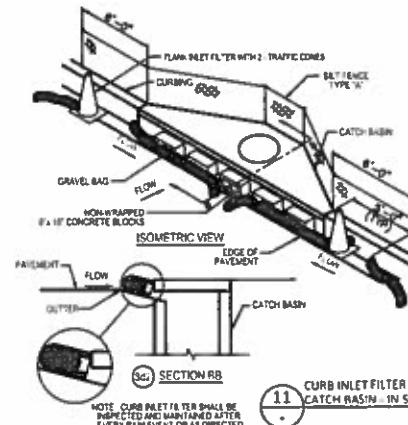


10 CURB INLET FILTER TRAP (CATCH BASIN - IN LINE) (Sd2)

DETAIL 02270-4B COBB COUNTY WATER SYSTEM (Sd2) CURB INLET FILTER TRAP (CATCH BASIN - IN SAG)

OCTOBER 18, 2010

AGENCY DIRECTOR



11 CURB INLET FILTER TRAP (CATCH BASIN - IN SAG) (Sd2)

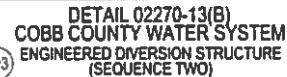


FULTON COUNTY DEPARTMENT OF PUBLIC WORKS
 FULTON-COBB DIVERSION LINE
 AND PUMP STATION
 EROSION
 COBB COUNTY
 EROSION CONTROL DETAILS

NO.	DATE	BY	REVISION
1	11/11/2019	Johnathan Bender	Initial Design
2	11/11/2019	Johnathan Bender	Revised Design
3	11/11/2019	Johnathan Bender	Final Design

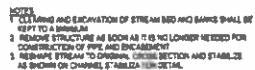
Sheet CE-2

MAY 7, 2002 AGENCY DIRECTOR

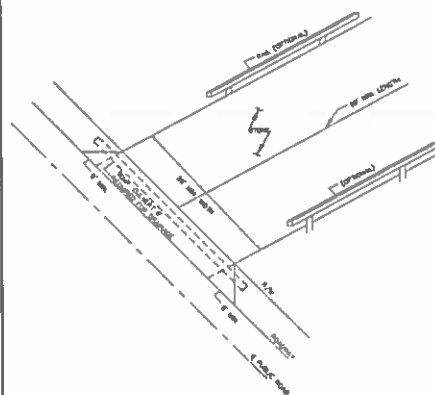


Dv3

AGENCY DIRECTOR:



16 ENGINEERED DIVERSION STRUCTURE Dv3

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FULTON COUNTY STANDARD DETAIL 402
CONSTRUCTION EXIT-TEMPORARY

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2. 2007年12月

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1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

WIKER MUST SUPPLY LETTERS OF CREDIT FOR THE ABOVE-NAMED TELEPHONE IN ORDER FOR
LETTER NUMBER 5142 THAT HE FACING IT ON THE 21ST OF APRIL 1970

152

LETTER WRITING STAGE THAT THE PAPER IS ON THE OTHER SIDE OF THE

SEDIMENT BARRIER
(SILT FENCE)

FULTON COUNTY STANDARD DETAIL 404
TEMPORARY SILT FENCE



24 HOUR CONTACT
FULTON DPW
(404) 612-7394



FULTON COUNTY DEPARTMENT OF PUBLIC WORKS
FULTON-COBB DIVERSION LINE
AND PUMP STATION

EROSION
FULTON COUNTY
EROSION CONTROL DETAILS

[illegible]

1 ALL BUFFER RESTORATION SHALL COMPLY WITH APPLICABLE SPECIFICATIONS SET FORTH IN THE GSWCC MANUAL FOR
2 EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
3 ALL PLANTS SHALL BE HEALTHY, VIGOROUS MATERIAL AND FREE OF PESTS AND DISEASE.
4 CONTRACTOR IS TO LOCATE APPLICATION OF ALL TREES WITH COUNTY AUDITOR PRIOR TO INSTALLATION.
5 ALL PLANTS MUST BE CONTAINER GROWN OR POTTED AND SHIPPED AS INDICATED IN THE PLANT LIST
6 CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS.
7 ALL PLANTS ARE SUBJECT TO APPROVAL OF THE OWNER BEFORE, DURING, AND AFTER INSTALLATION.
8 ALL SHRUBS, GROUND COVER, AND PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH AGED SHARDED HARDWOOD
9 MULCH TO A MINIMUM OF 2 INCHES.
10 THE CONTRACTOR IS TO LOCATE ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING
11 CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO ANY UTILITIES, STRUCTURES, OR
12 OTHER DAMAGED ITEMS WHICH OCCURS AS A RESULT OF THE LANDSCAPING WORK.
13 THE CONTRACTOR IS TO PROVIDE A GUARANTEE FOR THE WORK PERFORMED. THE WORK IS ACCEPTED BY
14 THE OWNER. MAINTENANCE INCLUDES BUT NOT LIMITED TO: WATERING, SPRINKLING, MULCHING, FERTILIZING, ETC.
15 THE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF FINAL
16 ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE THE END OF THE GUARANTEE PERIOD
17 EXCEPT IN CASE OF DEATH.
18 ANY PLANT MATERIAL THAT DIES, TURNS BROWN OR DEFLORATES PRIOR TO FINAL ACCEPTANCE SHALL BE REMOVED AND
19 REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY AND SIZE.
20 THE CONTRACTOR SHALL SUPPLY ALL PLANTING MIX: 50% TOP SOIL AND 50% ORGANIC SOIL ADDITIVES
21 NO TREES AND SHRUBS SHALL BE LOCATED WITHIN THE PERMANENT SEWER EASEMENT
22 SHRUBS SHALL BE PLANTED ALTERNATE
23 BUFFER RESTORATION SHALL NOT RESULT IN FURTHER DISTURBANCE OF THE SITE.

MULCHES. SEE STANDARD DS-1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY). SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL. REFER TO STANDARD TB-TACKIFIERS AND BINDERS. RESINS SUCH AS CURASOL OR TERRATAK SHOULD BE USED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

SPRAY-ON ADHESIVES: THESE ARE USED ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS. RETURN TO STANDARD TB-TACKIFIERS AND BINDERS.

TILLAGE THIS PRACTICE IS DESIGNED TO ROUGHEN AND BRING CLODS TO THE SURFACE. IT IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE WIND EROSION STARTS.

IRRIGATION: THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.

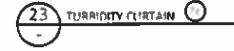
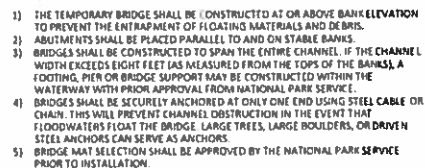
BARRIERS, SOLID BOARD FENCES, SNOWFENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.

CALCIUM CHLORIDE APPLY AT RATE THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT

PERMANENT VEGETATION SEE STANDARD D53 -DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION).
EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

TOPSOILING THIS ENTAILS COVERING THE SURFACE WITH LESS ERODIBLE SOIL MATERIAL. SEE STANDARD TP-
TOPSOILING.

STONE, COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL. SEE STANDARD CR-CONSTRUCTION ROAD STABILIZATION.

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