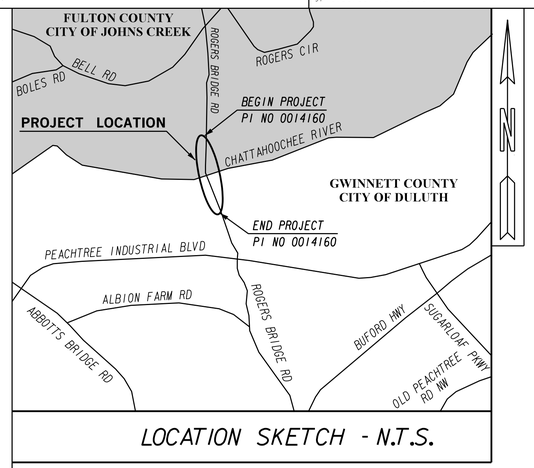


LOCATION SKETCH - N.T.S.

This project has been prepared using the Horizontal Georgia Coordinate System of 1984 (NAD1983)/94 WEST Zone, and the North American Vertical Datum (NAVD) of 1988.

CITY OF DULUTH

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN

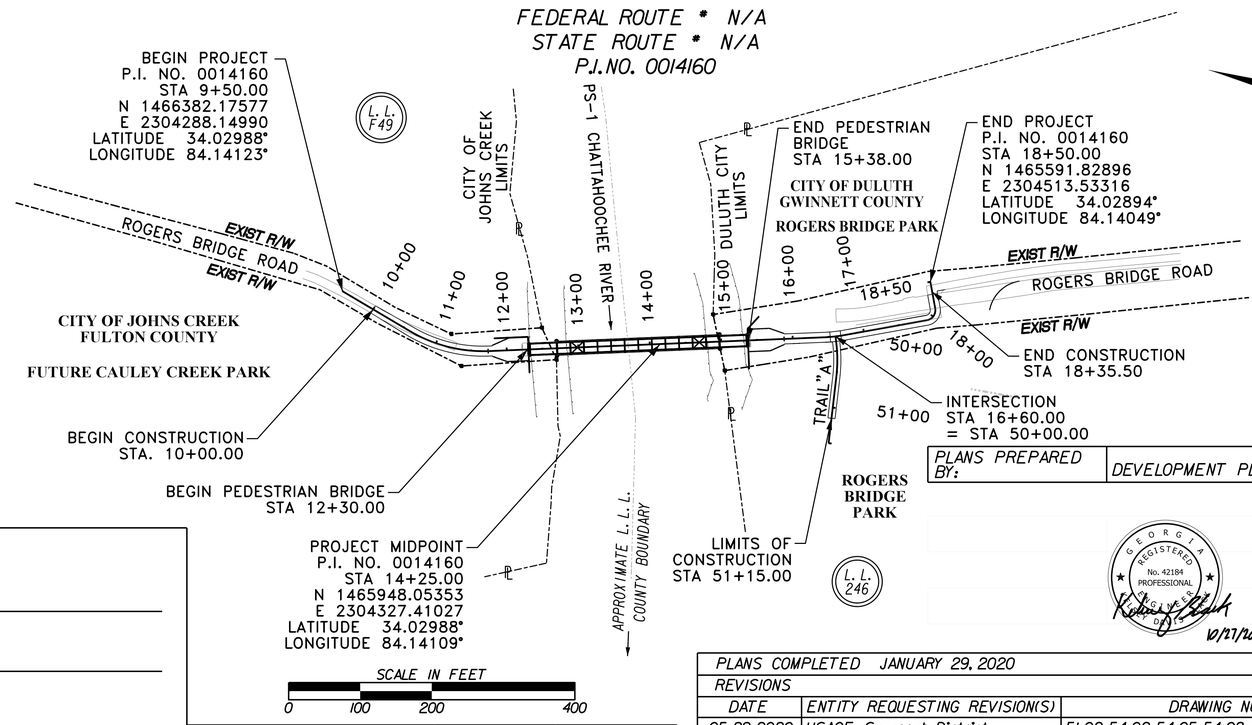
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER - PEDESTRIAN BRIDGE

FEDERAL AID PROJECT

FULTON & GWINNETT COUNTIES

0014160

FEDERAL ROUTE * N/A
STATE ROUTE * N/A
P.I.NO. 0014160



"I certify that this Erosion, Sedimentation and Pollution Control Plan has been prepared in accordance with Part IV, of the General NPDES Permit No. GAR100002."

LEVEL II CERTIFIED DESIGN PROFESSIONAL NO. 0000067090
ENGINEER: Kelsey J. Black 10/27/20

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land disturbing activity was permitted, provides for sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR100002."

LEVEL II CERTIFIED DESIGN PROFESSIONAL NO. 0000067090
ENGINEER: Kelsey J. Black 10/27/20

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) 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 (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GAR100002, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

LEVEL II CERTIFIED DESIGN PROFESSIONAL NO. 0000067090
ENGINEER: Kelsey J. Black 10/27/20

"I certify under penalty of law that this plan was prepared after a site visit to the location described herein by myself or my authorized agent, under my direct supervision."

LEVEL II CERTIFIED DESIGN PROFESSIONAL NO. 0000067090
ENGINEER: Kelsey J. Black 10/27/20

BEGIN-POINT COORDINATES
Longitude: 84.14123°
Latitude: 34.02988°
MID-POINT COORDINATES
Longitude: 84.14109°
Latitude: 34.02988°
END-POINT COORDINATES
Longitude: 84.14049°
Latitude: 34.02894°

Development Planning & Engineering, Inc.
civil sanitary transportation survey
5074 BRISTOL INDUSTRIAL WAY
SUITE A
BUFORD, GEORGIA 30518
(770) 271-2868 / (770) 271-0779 FAX
www.dpengr.com

PRIMARY PERMITTEE

City of Duluth
Margie Shames Pozin, PE, CQA
City Engineer
3167 Main Street Duluth, Georgia 30096
Phone: 678-957-7284
Email: mpozin@duluthga.net

24 HOUR CONTACT:

HAYWARD ADAMS (ASTRA GROUP INC)
Name

1611 PERRY BLVD
Street Address

ATLANTA, GA 30318
City, State Zip

770-992-9300 X157 MOBILE 678-756-0506
Phone Number

hadams@astragroupinc.com
Email Address

Contractor shall complete the information in this box.

LENGTH OF PROJECT	COUNTY No.121 (FULTON) MILES	COUNTY No.135 (GWINNETT) MILES
NET LENGTH OF ROADWAY	0.053	0.059
NET LENGTH OF BRIDGES	0.027	0.032
NET LENGTH OF PROJECT	0.080	0.091
NET LENGTH OF EXCEPTIONS	0.000	0.000
GROSS LENGTH OF PROJECT	0.17	

PLANS PREPARED BY:	DEVELOPMENT PLANNING & ENGINEERING, Inc.

GEORGIA REGISTERED No. 42184 PROFESSIONAL ENGINEER Kelsey J. Black 10/27/20

GSWCC LEVEL II Certification Number 0000067090

ENGINEER: Kelsey J. Black DATE: 10/27/20

PLANS COMPLETED JANUARY 29, 2020

REVISIONS

DATE	ENTITY REQUESTING REVISION(S)	DRAWING NUMBER(S)	SIGNATURE	GSWCC LEVEL II CERT.#
05-29-2020	USACE Savannah District	51-02, 54-02, 54-05, 54-08	Kelsey J. Black	0000067090
10-27-2020	GA EPD	50-0151-01, 56-01-56-08	Kelsey J. Black	0000067090
- -				
- -				
- -				
- -				
- -				

DRAWING No. 50-0001

ESPCP GENERAL NOTES

The escape of sediment from the project site shall be prevented by the installation of erosion and sediment control measures and practices prior to land-disturbing activities.

Erosion and sedimentation control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective control, additional erosion and sedimentation control measures shall be implemented to control or treat the sediment source.

The intent of this project is to provide pedestrian connectivity through the replacement of the existing Rogers Bridge over the Chattahoochee River. Activities will include bridge removal / replacement, utility installation and minor grading. The majority of the existing site consists of slopes less than 2% and vegetation primarily made up of grass with trees along the trails and stream banks.

Pre-Developed Estimated Runoff Coefficient C=0.26

Post-Developed Estimated Runoff Coefficient C=0.28

Project Receiving Waters: Chattahoochee River & Cauley Creek

There are no wetlands on this project.

There are stream buffers on this project.

There is floodplain on this project per FIRM Panel Number 13121C0094G Dated September 18, 2013 and Panel Number 13135C0041H Dated March 4, 2013

Total Project Area: 2.18 AC

Total Disturbed Area: 1.88 AC

ESPCP ALTERATIONS

This Erosion, Sedimentation, and Pollution Control Plan addresses the staged construction of the project on the basis of common construction methods and techniques. If the Contractor elects to alter the staged construction from that shown in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance to Special Provision 161-Control of Soil Erosion and Sedimentation of the contract.

The Contractor, the Certified Design Professional, and the WECS shall carefully evaluate this plan prior to commencing land-disturbing activities. Amendments/revisions to the ESPCP which have a significant effect on BMPs with a hydraulic component requires a formal revision of the ESPCP and the signature of a GSWCC Level-II Certified Design Professional. Additional BMPs may be added per Special Provision 161-Control of Soil Erosion and Sedimentation.

CONSTRUCTION SCHEDULE AND SEQUENCE OF MAJOR ACTIVITIES

See lower middle of this sheet for an anticipated construction schedule. The Contractor is responsible for developing the construction schedule for the project. The construction schedule for this project shall be submitted after the project is awarded along with the NOI. A copy of the construction schedule shall be maintained at the project site.
The Contractor is responsible for establishing at least one (1) construction exit on each side of the project (one located on the City of Johns Creek side and one on the The City of Duluth side) per the specifications of the construction exit detail included in this ESPCP to minimize or eliminate the vehicle tracking of dirt, soils, and sediments off site. To facilitate project logistics, the Contractor is also responsible for selecting the location(s) of the construction exit(s).

SEQUENCE OF BMP INSTALLATION:

A. Initial BMPs - Install the following prior to construction:
1. Install orange barrier fencing and construction exits as shown on the plans.
2. Before clearing and grubbing, install perimeter silt fence and check dams in existing ditches.

B. Intermediate BMPs - (All Stages) While bridge removal/construction, utility relocation, and earthwork, is progressing perform the following:
1. Adjust construction exits as needed.
2. As earthwork progresses, modify perimeter silt fence as necessary.
3. As ditches are constructed, install ditch linings/matting.

C. Final BMPs - (All Stages) As soon as final grade has been established in an area of the project, perform the following:
1. Install permanent grassing, slope matting, permanent ditch lining, and outlet protection.
2. Remove temporary erosion control items upon final stabilization within project area.

SITE STABILIZATION AND VEGETATION PLANTING SCHEDULE

The EPD General NPDES GAR100002 permit states that any disturbed area where construction activities have temporarily or permanently ceased shall be stabilized within 14 days of such cessation or as soon as practicable if precluded by adverse weather conditions. However in special cases, the Project Engineer may require the contractor to perform stabilization more often than 14 days.

Disturbed areas shall be stabilized with suitable material listed in the current edition of the Department's Standard Specifications (or Special Provisions) Sections 161, 163, 700, or 711 on the basis of when construction activities are expected to resume.

All temporary and permanent vegetative practices including plant species, planting dates, seeding, fertilizing, liming, and mulching rates for this project can be found in Section 700 of the current edition of the Department's Standard Specifications (or Special Provisions) and other applicable contract documents or landscaping plans.

BMP INSTALLATION AND MAINTENANCE MEASURES

See the Department's Standard Specifications (or Special Provisions) 161, 163, 165, 700, 711, and other contract documents for installation and maintenance measures.

PETROLEUM STORAGE, SPILLS AND LEAKS

These plans expressly delegate the responsibility of proper on-site hazardous material management to the Contractor. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture, clean up, and disposal of any petroleum product, or other hazardous material, leaks or spills associated with the servicing, refueling or operation of any equipment utilized at the site. A copy of the action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with the action plan. The Contractor shall not park, refuel, or maintain equipment within stream buffers.

If the Contractor elects to store petroleum products on site, the Contractor shall prepare an ESPCP addendum that addresses the additional BMPs needed for on-site storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GAR100002 for inclusion with these plans. The Contractor's attention is specifically directed to Standard Specification 107-Legal Regulations and Responsibility to the public for additional requirements.

WASTE DISPOSAL

Where attainable, locate waste collection areas, dumpsters, trash cans and portable toilets at least 50 feet away from streets, gutters, watercourses and storm drains. Secondary containment shall be provided around liquid waste collection areas to minimize the likelihood of contaminated discharges. The Contractor shall comply with applicable state and local waste storage and disposal regulations and obtain all necessary permits. Waste materials shall not be discharged to Waters of the State, except as authorized by a Section 404 Permit.

DEWATERING AND PUMPING ACTIVITIES

Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bag, or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of pumped discharges. The contractor shall prepare sampling plans in accordance with the current GAR100002 NPDES permit by utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

NONSTORMWATER DISCHARGES

Nonstormwater discharges defined in Part III.A.2 of the NPDES Permit will be identified after construction has commenced. These discharges shall be subject to the same requirements as storm water discharges required by the Georgia Erosion and Sedimentation Control Act, the NPDES Permit, the Clean Water Act, the Manual for Erosion and Sediment Control in Georgia, Department Standards, and other contract documents. The NPDES does not authorize the discharge of soaps or solvents used in vehicle and equipment washing or the discharge of wastewater containing stucco, paint, oils, curing compounds, and other construction materials.

OTHER CONTROLS

If the Contractor elects to store building material, building products, construction waste, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials on the site, the Contractor shall provide an appropriate covering to minimize the exposure of those materials or products to precipitation and stormwater to minimize the discharge of pollutants. Minimization of exposure is not required in cases where exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of the specific material or product poses little risk to stormwater contamination or is intended for outdoor use.

The Contractor shall follow this ESPCP and ensure and demonstrate compliance with all applicable State and/or local regulations for waste disposal, sanitary sewer and septic systems, and petroleum storage.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the Department's Standard Specifications.

ANTICIPATED ACTIVITY SCHEDULE

PHASE/INFRASTRUCTURE	18 MONTH SCHEDULE 2	4	6	8	10	12	14	16	18
INSTALLATION OF INTITIAL EROSION CONTROL MEASURES	■								
CLEARING AND GRUBBING	■	■							
PRELIMINARY GRADING		■	■						
INSTALLATION OF INTERMEDIATE EROSION CONTROL MEASURES			■	■					
MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES (DS1,DS2,DS4,Silt Sd2,Ci-Ha,ETC.)	■	■	■	■	■	■	■	■	■
RELOCATION OF UTILITY LINES		■	■	■					
CONSTRUCTION OF BRIDGE & SIDEWALK			■	■	■	■	■		
FINE GRADING						■	■		
INSTALLATION OF FINAL EROSION CONTROL MEASURES (PERMANENT LANDSCAPING/GRASSING)								■	
REMOVE TEMPORARY EROSION MEASURES									■

SILT FENCE INSTALLATION WITH J HOOKS AND SPURS

Silt fence should never be run continuously. The silt fence should turn back into the fill or slope to create small pockets that trap silt and force stormwater to flow through the silt fence. This technique is called using J hooks (or spurs). The J hooks shall be utilized on all silt fences that are located around the perimeter of the project and along the toe of embankments or slopes. The J hooks shall be spaced in accordance with GDOT Construction Detail D-24C. The maximum J-hook spacing is reached when the top of the J hook is at the same elevation as the bottom of the immediately upgradient J hook. J Hooks shall be paid for as silt fence items per linear foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

POST CONSTRUCTION BMPs FOR STORMWATER MANAGEMENT

All permanent postconstruction BMPs are shown in the construction plans and in the ESPCP plan. The postconstruction BMPs for this project consist of temporary grassing, channel/ditch stabilization with turf reinforcing mats, rip rap, slope stabilization matting, permanent grassing and sod. The postconstruction BMPs will provide permanent stabilization of the site and prevent abnormal transportation of sediment and pollutants into receiving waters.

SOIL SERIES INFORMATION

The following is a summary of the soils that are expected to be found on the project site:

MAP UNIT SYMBOL	Map Unit Name	Rating	Component Name (Percent)
CpA	Congaree sandy loam, 0 to 2 percent slopes, occasionally flooded	Slight	Congaree (100%)
W	Water	Not Rated	Water (100%)
AkA	Altavista fine sandy loam, 0 to 2 percent slopes	Slight	Altavista (100%)
AuA	Augusta Soils	Slight	Augusta (100%)
CuS	Congaree Loam	Slight	Congaree (100%)

STATE-WATER BUFFER IMPACTS

State-water buffers, as defined by O.C.G.A. 12-7-1, are impacted by this project.

Non-exempt activities shall not be conducted within the 25- or 50-foot undisturbed stream buffers as measured from the point wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits.

The Contractor is not authorized to enter into stream buffers, except as described in the table below:

State-Water ID# or Name	Location of Buffered Streams and State Waters**			Stream Type (Warm/Cold Water)*	Buffer Variance Required? (Yes/No)
	Roadway Alignment	Begin Station and Offset	End Station and Offset		
PS-1 (Chattahoochee River)	Rogers Bridge	STA 12+33, 100' LT to STA 12+33, 100' RT	STA 15+32, 100' LT to STA 15+32, 100' RT	Cold	No
Activities within 100 feet of proposed bridge area are exempt. Removal of existing bridge is permitted					

Unless noted otherwise, utility companies will be submitting the required permits/variances in conjunction with the impacts caused by their activities. If utility impacts are covered by the Department's stream buffer variance, this shall be noted in the buffer-variance-required column.

* Warm water streams have a 25-foot minimum buffer as measured from the wrested vegetation. Cold Water streams have a 50-foot buffer as measured from the wrested vegetation.
**Locations are approximate, a detailed location of stream buffers and authorized work areas are shown on the individual BMP sheets

READY MIX CHUTE WASH DOWN

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of Portland cement concrete is prohibited on this site.

In accordance with Standard Specification 107: Legal Regulations and Responsibility to the Public, only the discharge chute utilized in the delivery of Portland cement concrete may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the travelled way, including shoulders, for a wash-down pit. The pit shall be large enough to store all wash-down water without overtopping. Immediately after the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above it shall be graded to match the elevation of the surrounding areas. Alternate wash-down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash-down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down pit that includes the following: (1) a location away from any storm drain, stream, or river, (2) access to the vehicle being used for wash down, (3) sufficient volume for wash-down water, and (4) permission to use the area for wash down.

On sites where permission or access to excavate a wash-down pit is unavailable, the Contractor may have to wash-down into a sealable 55-gallon drum or other suitable container and then transport the container to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down".

10/23/2015
Rev.08/07/2018 GPLN

REVISION DATES
10-27-20

ESPCP GENERAL NOTES

ROGERS BRIDGE AT CHATTAHOOCHEE RIVER PEDESTRIAN BRIDGE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		51-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

CHANNEL PROTECTION

All channels may be stabilized exclusively with permanent grassing except as noted otherwise in the table below.

Begin Station and Offset	End Station and Offset	Q_{25} (ft^3/s)	V_{25} (ft/s)	Type of Channel Lining	Channel Bottom Width (ft)	Depth of Protection Dp (ft)	Quantity (yd^2)
12+45 LT	12+65 LT	6.0	0.52	Rip Rap	2.0	2.00	10
15+95 LT	16+15 LT	0.4	0.37	TRM-1	4.0	1.00	30

SEDIMENT STORAGE

The site has a total disturbed area of 1.88 acres. The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table.

Location	Total Drainage Area (acres)	Disturbed Area (acres)	Required Sediment Storage Volume (yd^3)	Total Storage Volume Provided (yd^3)	Temporary Sediment Basins		Check Dams (0.6 yd^3/each)		Inlet Sediment Traps (2.2 yd^3/each)		Silt Gates (# yd^3/each)		Silt Fence (0.3 yd^3/ft)	
					Basin #	Total Volume (yd^3)	# of Devices	Total Volume (yd^3)	# of Devices	Total Volume (yd^3)	# of Devices	Total Volume (yd^3)	Length (ft)	Total Volume (yd^3)
Outfall 1 (Ditch)	5.34	0.31	357.78	84.6	N/A	0	1	0.6	0	0	0	0	280	84
Outfall 2 (Ditch)	0.16	0.15	10.72	14.4	N/A	0	4	2.4	0	0	0	0	40	12
Total Sheet Flow	1.64	1.42	109.88	390	N/A	0	0	0	0	0	0	0	1300	390

Outfall 1 consists of a large offsite floodplain area in its natural condition and does not meet the minimum of 67 cy of sediment storage per acre drained. Due to right of way constrains and potential adverse impacts to buffers, no additional BMP's will be constructed

SAMPLING LOCATIONS AND GENERAL NOTES

Representative sampling may be utilized on this project as explained here. The individual outfall drainage basins along the project corridor have been carefully evaluated and compared on the basis of four characteristics: the type of construction activity, the disturbed acreage, the average slope about the outfall, and the soil erosion index 0-10, 10 being the most erodible soil. The construction activity types are new road on fill, new road in cut, road widening, and maintenance/safety. The disturbed area classes are less than or equal to 1 acre, greater than 1 acre to less than 2 acres, and equal to or greater than 2 acres. The average outfall slope is mild if it is equal to or less than 0.03, and steep if it is greater than 0.03. The soil erosion index is low if it is less than or equal to 5 and high if it is greater than 5. After evaluation of these characteristics as presented in the project's drainage area map, hydrology and hydraulic studies, construction plans, and erosion sedimentation and pollution control plans, the Department has determined that the representative sampling scheme shown below is valid for the duration of the project. The table shows the groups of similar outfall drainage basins.

The increase in turbidity at the specified locations in the table below will be representative of the alternate outfall drainage basins when similar outfall drainage basins exist. Approved primary and alternate representative sampled features are identified in the table below.

Note: The Total Site Area is 2.18 acres.											Representative Sampling Scheme				
SAMPLING INFORMATION											OUTFALL CHARACTERISTICS				
Primary Sampled Feature	Location (Station and Offset)	Name of Receiving Water	Applicable Construction Stage for Sampling	Sampling Type (Outfall or Receiving water)	Drainage Area for Receiving Water (mi^2)	Upstream Disturbed Area (acres)	Warm or Cold Water Stream	Appendix B NTU Value (Outfall Sampling only)	Allowable NTU Increase (Receiving water sampling only)	Location Description	Construction Activity	Disturbed Area (acres)	Average Outfall Slope (Rise/Run)	Soil Erosion Index	Represented Outfall Drainage Basins
River	12+80, 50' LT	Chattahoochee River	All	Receiving Water	1160.0	N/A	Cold	N/A	10	Upstream	Bridge Replacment	N/A	N/A	N/A	N/A
River	12+80, 100' RT	Chattahoochee River	All	Receiving Water	1160.0	N/A	Cold	N/A	10	Downstream	Bridge Replacment	N/A	N/A	N/A	N/A
River	14+75, 60' LT	Chattahoochee River	All	Receiving Water	1160.0	N/A	Cold	N/A	10	Upstream	Bridge Replacment	N/A	N/A	N/A	N/A
River	14+75, 100' RT	Chattahoochee River	All	Receiving Water	1160.0	N/A	Cold	N/A	10	Downstream	Bridge Replacment	N/A	N/A	N/A	N/A

The primary sampled features specified should be used as the initial sampling locations. An alternate sampled feature may be used if additional sampling is required or to replace a primary sampled feature that is no longer located within the active phase of construction.

USE OF ALTERNATIVE AND/OR ADDITIONAL BMPS:

No alternative BMPs will be used on this project.

ADDITIONAL BMPs will be used on this project (See Appendix I and below for more information).

THIS PROJECT IS SUBJECT TO THE CONDITIONS ESTABLISHED BY THE GENERAL PERMIT No. GAR 100002, PART III.C. (DISCHARGES INTO, OR WITHIN ONE MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT). THE FOLLOWING FOUR (4) BEST MANAGEMENT PRACTICES ARE REQUIRED AS PART OF THE PROJECT'S EROSION AND SEDIMENT AND POLLUTION CONTROL PLAN IN ACCORDANCE TO WITH PART III.C.2. OF THE PERMIT):

d. A large sign (minimum 4 feet x 8 feet) must posted on site by the actual start date of construction. The sign must be visible from a public roadway. The sign must identify the following: (1) the construction site, (2) the permittee(s), (3) the contact person(s) and telephone number(s), and (4) the permittee-hosted website where the Plan can be viewed must be provided on the submitted NOI. The sign must remain on site and the Plan must be available on the provided website until a NOT has been submitted.

f. Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24 hour period, recognizing the exceptions specified in Section IV.D.6.d. of the NPDES Permits.

q. Certified personnel for primary permittees shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Section IV.D.4.a.(3).(a) – (c) of the permit. "

u. Conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase of the project by the design professional who prepared the Plan in accordance with Section IV.A.5. of the permit. The Plan must include a statement that the primary permittee must retain the design professional who prepared the Plan to conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase.

DISCHARGES INTO OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT

The following is a summary of project outfalls within 1 mile and within the watershed of an identified impaired stream segment that has been listed for criteria violated, "Bio F" (impaired fish community) and/or "Bio M" (impaired macro invertebrate community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

Outfall ID # and Location (Station and Offset)	Reach Name	Location of the Impaired Stream Segment as Indicated in the 305b/303d List	Criteria Violated (Bio F|Bio M)	Potential Cause (NP|UR)	Category (4a, 4b, or 5)	Numeric waste load allocation (WLA) for sediment***
Outfall 1 Ex. Ditch STA 12+65, 30' LT	Chattahoochee River	Dicks Creek to Johns Creek	E Coli, FC*	UR	5	N/A
Outfall 2 Sheet Flow	Cauley Creek	Headwaters to Chattahoochee River**	Bio F, FC	NP, UR	4a	551.40 tons/yr
Outfall 3 Ex. Ditch STA 14+90, 50' LT	Chattahoochee River	Dicks Creek to Johns Creek	E Coli, FC*	UR	5	N/A
Outfall 4 Sheet Flow	Chattahoochee River	Dicks Creek to Johns Creek	E Coli, FC*	UR	5	N/A
Outfall 5 Sheet Flow	Chattahoochee River	Dicks Creek to Johns Creek	E Coli, FC*	UR	5	N/A
Outfall 6 Sheet Flow	Chattahoochee River	Dicks Creek to Johns Creek	E Coli, FC*	UR	5	N/A
Outfall 7 Sheet Flow	Chattahoochee River	Dicks Creek to Johns Creek	E Coli, FC*	UR	5	N/A

**The recreation use is impaired for E. Coli and the Drinking Water use is impaired for FC.

**TMDL completed FC 2013, Bio F 2018

*** If the TMDL Implementation Plan establishes a specific numeric waste load allocation that applies to the project discharge(s) to the Impaired Stream Segment, then the Certified Design Professional must incorporate that allocation into the Erosion, Sedimentation and Pollution Control Plan and implement all necessary measures to meet that allocation. See Appendix 1 for additional required BMPs for this project.

INSPECTIONS AND REPORTING

As the primary permittee, the Department must retain the design professional who prepared the ESPCP, or an alternative design professional approved by EPD in writing, to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days of installation over the entire infrastructure project. Alternatively, for linear infrastructure projects, the permittee must retain either of these personnel to inspect the initial sediment storage requirements and perimeter control BMPs for the initial segment, as defined by Part IV.A.5. of the current GAR100002 Permit, within 7 days of installation and all sediment basins within the entire linear infrastructure project within 7 days of installation. The inspecting design professional shall report the results to the primary permittee within 7 days, and the permittee must correct all deficiencies within 2 business days of receipt of the inspection report, unless on-site weather conditions are such that more time is required. Additionally, the Department's Construction Project Engineer will be responsible for all subsequent 7 day inspections for all new BMP installations.

All other inspections shall be documented on the appropriate Department inspection forms. See Standard Specification (or Special Provision) 167 and other contract documents for inspection and reporting requirements. These inspections shall continue until the Notice of Termination (NOT) is submitted.

Whenever the Department finds that a BMP has failed or is deficient beyond routine maintenance and has resulted in sediment deposition into waters of the State, the Contractor shall take reasonable steps to address the condition, including cleaning up any contaminated surfaces so the material will not discharge in subsequent storm events. When the repair does not require a new or replacement BMP or significant repair, the BMP failure or deficiency must be corrected by the close of the next business day from the time of discovery. A repair requiring a new or replacement BMP or significant repair must be operational by no later than 7 days from the time of discovery. If the repair time within 7 days is infeasible, the Contractor and the Department shall schedule the BMP repair to be operational as soon as practical after the 7 day time frame.

Failure to perform inspections as required by the contract documents and the NPDES permit shall result in the cessation of all construction activities with the exception of Traffic Control and Erosion Control. Continued failure to perform inspections shall result in non-refundable deductions as specified in the contract documents.

WATER QUALITY INSPECTING AND SAMPLING PROCEDURES

See Special Provision 167 and other contract documents for the inspecting and sampling procedures. Sampling locations are provided in the Sampling Location table herein.

RETENTION OF RECORDS

The Department will retain all records related to the implementation of this ESPCP in accordance with Part IV.F of the General Permit GAR100002.

Development Planning & Engineering, Inc.
civil sanitary transportation survey

REVISION DATES
05/29/20

ESPCP GENERAL NOTES

ROGERS BRIDGE AT CHATTAHOOCHEE RIVER PEDESTRIAN BRIDGE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		51-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

GSWCC

Georgia Soil and Water Conservation Commission

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST

INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: Gwinnett County SWCD

Project Name: Rogers Bridge at Chattahoochee River **Address:** Rogers Bridge at Chattahoochee River

City/County: Gwinnett **Date on Plans:** 11/7/2019

Name & Email of Person Filling Out Checklist: Kelsey Black (DPE, Inc) kblack@dpengr.com

Plan Page #	Included Y/N		TO BE SHOWN ON ES&PC PLAN
51-0003	Y	1	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
50-0001	Y	2	Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
50-0001	Y	3	The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
50-0001	Y	4	Provide the name, address, email address, and phone number of primary permittee.
51-0001	Y	5	Note total and disturbed acreage of the project or phase under construction.
50-0001	Y	6	Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
50-0001	Y	7	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
51-0001	Y	8	Description of the nature of construction activity.
50-0001	Y	9	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
51-0001	Y	10	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
50-0001	Y	11	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 21 of the permit.
50-0001	Y	12	Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 20 of the permit.*
50-0001	Y	13	Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on Part IV.D.6.c.(3) page 37 of permit as applicable.*
51-0002	Y	14	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation." in accordance with Part IV.A.5. page 26 of the permit.*
51-0001	Y	15	Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
51-0001	Y	16	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
51-0001	Y	17	Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."*
51-0001	Y	18	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."*
51-0001	Y	19	Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
51-0001	Y	20	Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
51-0001	Y	21	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
51-0003	Y	22	Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.*
51-0003	Y	23	If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.*
51-0001	Y	24	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.*
51-0001	Y	25	Provide BMPs for the remediation of all petroleum spills and leaks.
51-0001	Y	26	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.*
51-0001	Y	27	Description of practices to provide cover for building materials and building products on site.*
51-0002	Y	28	Description of the practices that will be used to reduce the pollutants in storm water discharges.*
51-0001	Y	29	Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
51-0002	Y	30	Provide complete requirements of inspections and record keeping by the primary permittee.*
51-0002	Y	31	Provide complete requirements of sampling frequency and reporting of sampling results.*
51-0002	Y	32	Provide complete details for retention of records as per Part IV.F. of the permit.*
51-0002	Y	33	Description of analytical methods to be used to collect and analyze the samples from each location.*
51-0002	Y	34	Appendix B rationale for NTU values at all outfall sampling points where applicable.*
51-0002	Y	35	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable.*
51-0001	Y	36	A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a single phase.*
54-0001/54-0009	Y	37	Graphic scale and North arrow.
54-0001/54-0009	Y	38	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: Existing Contours: USGS 1": 2000' Topographical Sheets; Proposed Contours: 1" : 400' Centerline Profile
51-0002	Y	39	Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
51-0002	Y	40	Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition.*
51-0001, 54-0001/54-0009	Y	41	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
53-0001	Y	42	Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
53-0001	Y	43	Delineation and acreage of contributing drainage basins on the project site.
53-0001	Y	44	Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets.
51-0001	Y	45	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
51-0002	Y	46	Storm drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
51-0001	Y	47	Soil series for the project site and their delineation.
54-0001/54-0009	Y	48	The limits of disturbance for each phase of construction.
51-0002	Y	49	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan.
54-0001/54-0009	Y	50	Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
56-0001/56-0007	Y	51	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
51-0001/56-0007	Y	52	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A.

Effective January 1, 2020

APPENDIX 1

THE ES&PC PLAN MUST INCLUDE AT LEAST FOUR (4) OF THE FOLLOWING BMPS FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO A IMPAIRED STREAM SEGMENT AND FOR SITES WHICH EPD HAS APPROVED IN WRITING A REQUEST TO DISTURB 50 ACRES OR MORE AT ANY ONE TIME.

The four items chosen must be appropriate for the site conditions.

Plan Page #	Included Y/N		
		a.	During construction activities, double the width of the 25 foot undisturbed vegetated buffer along all State waters requiring a buffer and the 50 foot undisturbed vegetated buffer along all State waters classified as "trout streams" requiring a buffer. During construction activities, EPD will not grant variances to any such buffers that are increased in width.
		b.	Increase all temporary sediment basins and retrofitted storm water management basins to provide sediment storage of at least 3600 cubic feet (134 cubic yards) per acre drained.
		c.	Use baffles in all temporary sediment basins and retrofitted storm water management basins to at least double the conventional flow path length to the outlet structure.
	Y	d.	A large sign (minimum 4 feet x 8 feet) must posted on site by the actual start date of construction. The sign must be visible from a public roadway. The sign must identify the following: (1) the construction site, (2) the permittee(s), (3) the contact person(s) and telephone number(s), and (4) the permittee-hosted website where the Plan can be viewed must be provided on the submitted NOI. The sign must remain on site and the Plan must be available on the provided website until a NOT has been submitted.
		e.	Use flocculants or coagulant and/or mulch to stabilize all areas left disturbed for more than seven (7) calendar days in accordance with Section III.D.1. of the NPDES Permit.
	Y	f.	Conduct turbidity sampling after every rain event of 0.5 inch or greater within any 24 hour period, recognizing the exceptions specified in Section IV.D.6.d. of the NPDES Permits.
		g.	Comply with the applicable end-of-pipe turbidity effluent limit, without the "BMP defense" as provided for in O.C.G.A. 12-7-6 (a)(1).
		h.	Reduce the total planned site disturbance to less than 50% impervious surfaces (excluding any State-mandated buffer areas from such calculations). All calculations must be included on the plan.
		i.	Limit the amount of disturbed area at any one time to no greater than 25 acres or 50% of the total planned is less. All calculations must be included on the plan.
		j.	Use "Dirt II" techniques available on the EPD website, to model and manage construction storm water runoff (including sheet flow). All calculations must be included on the Plan. (https://epd.georgia.gov/erosion-and-sedimentation)
		k.	Add appropriate organic soil amendments (e.g., compost) and conduct pre- and post-construction soil sampling to a depth of six (6) inches to document improved levels of soil carbon after final stabilization of the construction site.
		l.	Use mulch filter berms, in addition to a silt fence, on the site perimeter wherever construction storm water (including sheet flow) may be discharged. Mulch filter berms cannot be placed in waterways or areas of concentrated flow.
		m.	Use appropriate erosion control slope stabilization instead of concrete in all construction storm water ditches and storm drainages designed for a 25 year, 24 hour rainfall event.
		n.	Use flocculants or coagulants under a passive dosing method (e.g., flocculant blocks) within construction storm water ditches and storm drainages that feed into temporary sediment basins and retrofitted management basins.
		o.	Install sod for a minimum 20 foot width (in lieu of seeding) after final grade has been achieved, along the site perimeter wherever storm water (including sheet flow) may be discharged.
		p.	Conduct soil tests to identify and to implement site-specific fertilizer needs.
	Y	q.	Certified personnel for primary permittees shall conduct inspections at least once every seven (7) calendar days and within 24 hours of the end of the storm that is 0.5 inches rainfall or greater in accordance with Section IV.D.4.a.(3).(a) – (c) of the permit. *
		r.	Apply the appropriate compost blankets (minimum depth 1.5 inches) to protect soil surfaces until vegetation is established during the final stabilization phase of the construction activity.
		s.	Use alternative BMPs whose performance has been documented to be superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). (If using this item please refer to the Alternative BMP guidance document found at www.gaswcc.georgia.gov)
		t.	Limit the total planned site disturbance to less than 15% impervious surfaces (excluding any state mandated buffer areas from such calculations). All calculations must be included in the plan.
	Y	u.	Conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase of the project by the design professional who prepared the Plan in accordance with Section IV.A.5. of the permit. The Plan must include a statement that the primary permittee must retain the design professional who prepared the Plan to conduct inspections during the intermediate grading and drainage BMP phase and during the final BMP phase.
		v.	Install Post Construction BMPs (e.g., runoff reduction BMPs) which remove 80% TSS as outlined in the Georgia Stormwater Management Manual known as the Blue Book or an equivalent or more stringent design manual.

Effective January 1, 2020

* This item is consistent with Section III.C.2. of the General NPDES GAR100002 permit effective August 1, 2018.

10/23/2015 Rev.08/07/2018 GPLN

Duluth Capture the Spirit of Good Living

Board of Commissioners of Gwinnett County Georgia

Fulton County

Johns Creek be the exception

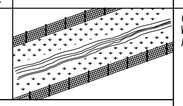
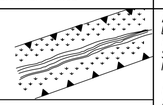
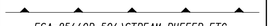
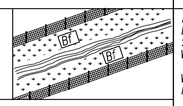
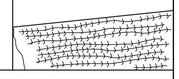
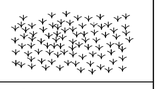
dpe Development Planning & Engineering, Inc. civil sanitary transportation survey

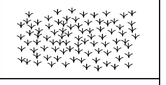
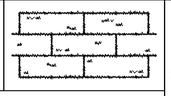
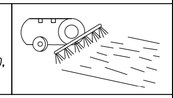
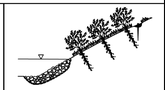
REVISION DATES

ESPCP GENERAL NOTES

ROGERS BRIDGE AT CHATTAHOOCHEE RIVER PEDESTRIAN BRIDGE

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	51-0003
VERIFIED:		DATE:	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE	 LINE CODE ORANGE BARRIER FENCE	ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
ESA	ENVIRONMENTALLY SENSITIVE AREA	 LINE CODE  ESA-25'(OR 50')STREAM BUFFER, ETC.	AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAs INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
Bf	BUFFER ZONE	 SYMBOL Bf	A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE.
Ds1	MULCH SECTION 163	 SYMBOL Ds1	THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING. MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Ds2	TEMPORARY GRASSING SECTION 163, 700	 SYMBOL Ds2	THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST. TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING SECTION 700	 SYMBOL Ds3	THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Ds4	SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890	 PATTERN Ds4	THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS. THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Fl-Co	FLOCCULANTS COAGULANTS SECTION 163, 700, 895	 SYMBOL Fl-Co POLYACRYLAMIDE	FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION. ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs! FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
Sb	STREAMBANK STABILIZATION SECTION 702	 PATTERN Sb	STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS. STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

7/31/2015 GPLN

NO SCALE

REVISION DATES
3/2/2017

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 1 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0001

Duluth Capture the Spirit of Good Living | Board of Commissioners of Gwinnett County Georgia | Fulton County | Johns Creek be the exception | dpe Development Planning & Engineering, Inc. civil sanitary transportation survey

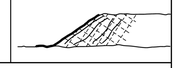
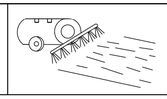
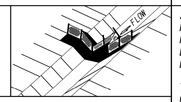
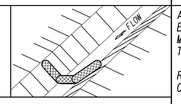
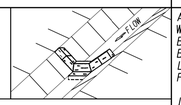
REVISION DATES

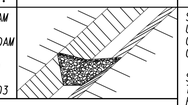
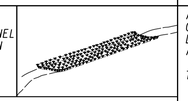
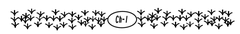
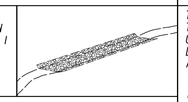
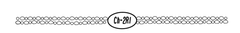
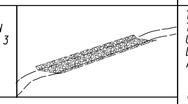
EROSION CONTROL LEGEND
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER
- PEDESTRIAN BRIDGE

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0001

7/31/2015 GPLN

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716	 PATTERN 	SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP). SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS. NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS.
Tac	TACKIFIERS SECTION 163, 700, 895	 SYMBOL Tac POLYACRYLAMIDE	TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR CRITERIA.
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171	 SYMBOL Cd-F	A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163	 SYMBOL Cd-Fs	A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR MATERIAL SPECIFICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163	 SYMBOL Cd-Hb	A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASH PAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM CONSTRUCTION DETAIL D-56 SECTION 163, 603	 SYMBOL Cd-S	STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE. SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
Ch-1	VEGETATED CHANNEL STABILIZATION SECTION 700	 LINE CODE 	A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.
Ch-2R1	CHANNEL STABILIZATION RIP-RAP, TYPE 1 CONSTRUCTION DETAIL D-49 SECTION 603	 LINE CODE 	THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603	 LINE CODE 	THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

7/31/2015 GPLN

NO SCALE

REVISION DATES
3/2/2017
11/28/2018

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 2 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0002

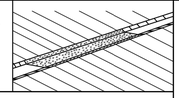
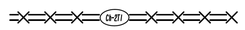
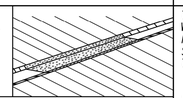
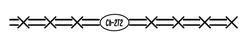
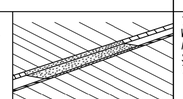
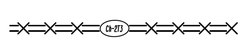
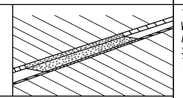
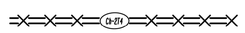
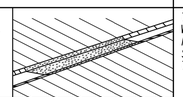
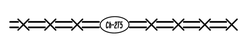
7/31/2015 GPLN

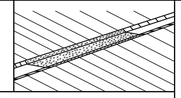
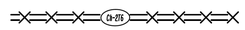
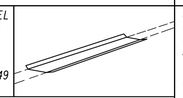
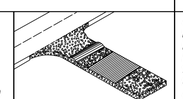
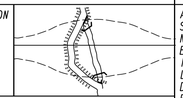
REVISION DATES

EROSION CONTROL LEGEND
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER
- PEDESTRIAN BRIDGE

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0002

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. 'Dp' SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T2	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. 'Dp' SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T3	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. 'Dp' SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T4	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. 'Dp' SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T5	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. 'Dp' SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. 'Dp' SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441	 LINE CODE 	CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES >/= 10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH 'Dp' RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. 'Dp' SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS.
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163, 800	 SYMBOL Co	A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, I.e. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS. ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT.
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163	 LINE CODE 	A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sdi-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

7/31/2015 GPLN

NO SCALE

REVISION DATES
3/2/2017

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 3 OF 7

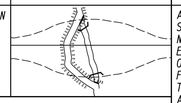
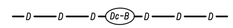
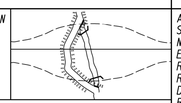
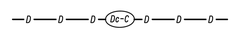
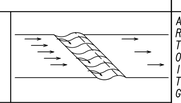
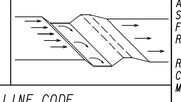
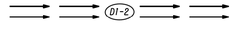
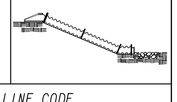
CHECKED:	D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:		DATE:	52-0003
CORRECTED:		DATE:	
VERIFIED:		DATE:	

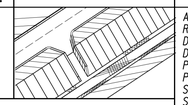
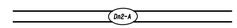
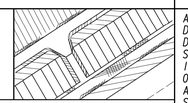
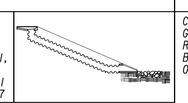
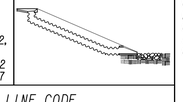
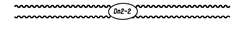
7/31/2015 GPLN

REVISION DATES

EROSION CONTROL LEGEND
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER
- PEDESTRIAN BRIDGE

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	52-0003
CORRECTED:		DATE:	
VERIFIED:		DATE:	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163	 LINE CODE 	A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sdi-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 2.5 - 9.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163	 LINE CODE 	A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIP-RAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sdi-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 9.0 - 13.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
Di-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205	 LINE CODE 	A NON-DESIGNED TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET, DOWN DRAINS 'Dnl'OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
Di-2	DIVERSION CHANNEL SECTION 205	 LINE CODE 	A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP. RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION.
Dnl	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163	 LINE CODE 	A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10". THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10'. THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441	 LINE CODE 	A CONCRETE FLUME TYPE "A" IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OTHER CRITERIA).
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441	 LINE CODE 	A CONCRETE FLUME TYPE "B" IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFELY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577	 LINE CODE 	CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS, ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577	 LINE CODE 	CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB, IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

7/31/2015 GPLN

NO SCALE

REVISION DATES
3/2/2017

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 4 OF 7

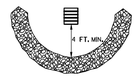
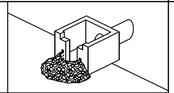
CHECKED:	D. EAGLETON	DATE: 01/01/16	DRAWING No. 52-0004
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

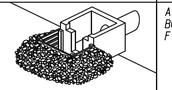
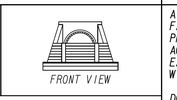
7/31/2015 GPLN

REVISION DATES

EROSION CONTROL LEGEND
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER
- PEDESTRIAN BRIDGE

CHECKED:		DATE:	DRAWING No. 52-0004
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163	 SYMBOL Fr	A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION ON USAGE.
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603	 SYMBOL Rd	ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGEWAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS. THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS. ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs.
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603	 LINE CODE Rd-B	STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS. STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT. THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
Rp	RIP-RAP SECTION 603	 PATTERN Rp	RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-I SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163	 SYMBOL Rt-P	A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163	 SYMBOL Rt-B	A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5" - 1.0" SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER. PERMANENT STORMWATER DETENTION POND OUTLET: -DRAINAGE AREA UP TO 100 ACRES -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS WITH DRAINAGE AREA LESS THAN 30 ACRES REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
Rt-Sg1 Rt-Sg2 Rt-Sg3	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163	 SYMBOL Rt-Sg1 Rt-Sg2 Rt-Sg3	A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FILTER FABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TO 50 ACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, BUT WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJECT AREA. DO NOT USE SILT GATES IN STATE WATERS. Rt-Sg1=TYPE 1: USED ON BOX CULVERTS Rt-Sg2=TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3=TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS
Sdl-NS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171	 LINE CODE A A A Sdl-NS A A A	SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS LESS THAN 10'. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.
Sdl-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171	 LINE CODE C C C Sdl-S C C C	SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS 10' AND GREATER. ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAs) SHALL BE PROTECTED WITH A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT. A SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

GDOT

NO SCALE

REVISION DATES

3/2/2017		

EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 5 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0005

7/31/2015 GPLN

Duluth Capture the Spirit of Good Living

Board of Commissioners of Gwinnett County Georgia

Fulton County

Johns Creek be the exception

dpe Development Planning & Engineering, Inc. civil sanitary transportation survey

REVISION DATES

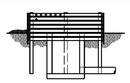
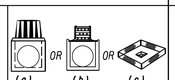
EROSION CONTROL LEGEND

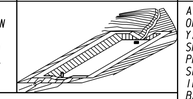
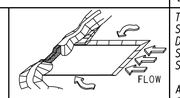
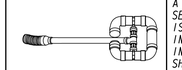
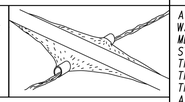
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER - PEDESTRIAN BRIDGE

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0005

7/31/2015 GPLN

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER CONSTRUCTION DETAIL D-24B SECTION 201	 LINE CODE * * * Sd1-BB * * *	THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT-OF-WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. TYPICALLY NOT SHOWN ON PLANS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPARATE PAYMENT SHALL BE MADE.
Sd2-B	INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163	 SYMBOL Sd2-B	BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLOW RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER.
Sd2-Bg	INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-42 SECTION 163	 SYMBOL Sd2-Bg	BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 5 - 7 cfs.
Sd2-F	INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-24C SECTION 163	 (a) OR (b) OR (c) SYMBOL Sd2-F	(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%. THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163	 SYMBOL Sd2-G	GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 cfs.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN CONSTRUCTION DETAIL D-22A, D-22B SECTION 163	 SYMBOL Sd3	A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE AREA. THE DRAINAGE AREA SHOULD NOT EXCEED 150 ACRES. BASINS TYPICALLY CONSISTS OF A DAM, PRINCIPAL SPILLWAY, AND AN EMERGENCY SPILLWAY. A FLOATING SURFACE SKIMMER SHALL BE REQUIRED AS PART OF THE PRINCIPAL SPILLWAY UNLESS INFEASIBLE. SUFFICIENT RIGHT-OF-WAY OR EASEMENT IS NEEDED FOR BASIN CONSTRUCTION AND MAINTENANCE ACCESS. SEDIMENT BASINS SHALL BE CONSIDERED ON ALL PROJECTS, BUT MAY NOT BE PRACTICAL. BASINS SHOULD BE LOCATED TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND UTILITIES. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
Sd4-C	ROCK OUTLET TEMPORARY SEDIMENT TRAP CONSTRUCTION DETAIL D-53 SECTION 163	 FLOW SYMBOL Sd4-C	TEMPORARY POND WITH ROCK OUTLET DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER DRAINAGE AREA. DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. DISTINGUISHED FROM TEMPORARY SEDIMENT BASIN BY LACK OF PRINCIPAL SPILLWAY. MAXIMUM POND DEPTH FROM BOTTOM OF POND TO EMERGENCY SPILLWAY IS 4 FEET. A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP. A TEMPORARY SEDIMENT TRAP IS IDEAL FOR SMALL AREAS WITH NO UNUSUAL DRAINAGE FEATURES AND EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
Sk	FLOATING SURFACE SKIMMER CONSTRUCTION DETAIL D-22A, D-22B SECTION 163	 SYMBOL Sk	A BUOYANT DEVICE THAT DRAINS WATER FROM THE SURFACE OF A TEMPORARY SEDIMENT BASIN AT A CONTROLLED FLOW RATE. THE INLET/ORIFICE SIZE IS DESIGNED TO DRAIN THE BASIN WITHIN 24 - 48 HOURS. THE SKIMMER INFORMATION SHALL BE PROVIDED IN CONJUNCTION WITH THE SEDIMENT BASIN INFORMATION IN PLANS. IF A SKIMMER IS INFEASIBLE, THE DESIGNER SHALL PROVIDE A WRITTEN JUSTIFICATION IN THE PLANS. SKIMMERS ARE ATTACHED TO A RISER WITHOUT PERFORATIONS AND ACTS AS THE PRIMARY SPILLWAY. THE SKIMMER BMP SYMBOL SHALL BE SHOWN IN CONJUNCTION WITH THE TEMPORARY SEDIMENT BASIN BMP SYMBOL WHEN APPLICABLE. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION.
Sr	TEMPORARY STREAM CROSSING SECTION 107	 SYMBOL Sr	A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT. THIS BMP PROVIDES A MEANS TO CROSS STREAMS OR WATERCOURSES WITHOUT MOVING SEDIMENT INTO STREAMS, DAMAGING THE STREAM BED OR CHANNEL, OR CAUSING FLOODING. THIS BMP SHOULD NOT BE USED ON STREAMS WITH DRAINAGE AREAS GREATER THAN ONE SQUARE MILE, UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE THE ADDITIONAL DRAINAGE AREA BY THE DESIGN PROFESSIONAL. A CERTIFICATION STATEMENT AND SIGNATURE SHALL ACCOMPANY THE DESIGN. THIS BMP SHALL BE DESIGNED ACCORDING TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". FOR CONTRACTOR'S USE ONLY!

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

7/31/2015 GPLN

NO SCALE

REVISION DATES
3/2/2017
11/28/2018

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 6 OF 7

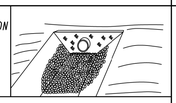
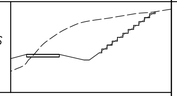
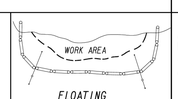
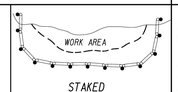
CHECKED:	D. EAGLETON	DATE: 01/01/16	DRAWING No. 52-0006
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

7/31/2015 GPLN

REVISION DATES

EROSION CONTROL LEGEND
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER
- PEDESTRIAN BRIDGE

CHECKED:		DATE:	DRAWING No. 52-0006
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332		A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER.
	SYMBOL St		
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603		RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED. TYPE-1 RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50 </>= 1.2 FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 </>= 0.7 FEET. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS.
	PATTERN FLAT AREA  OR  WELL-DEFINED CHANNEL		
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205		PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.
	LINE CODE Su		
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170	 FLOATING	A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN.
	LINE CODE Tc-F		
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170	 STAKED	A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.
	LINE CODE Tc-S		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

7/31/2015 GPLN

NO SCALE

REVISION DATES
3/2/2017

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 7 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
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VERIFIED:		DATE:	

DRAWING No. 52-0007

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Fulton County

Johns Creek be the exception

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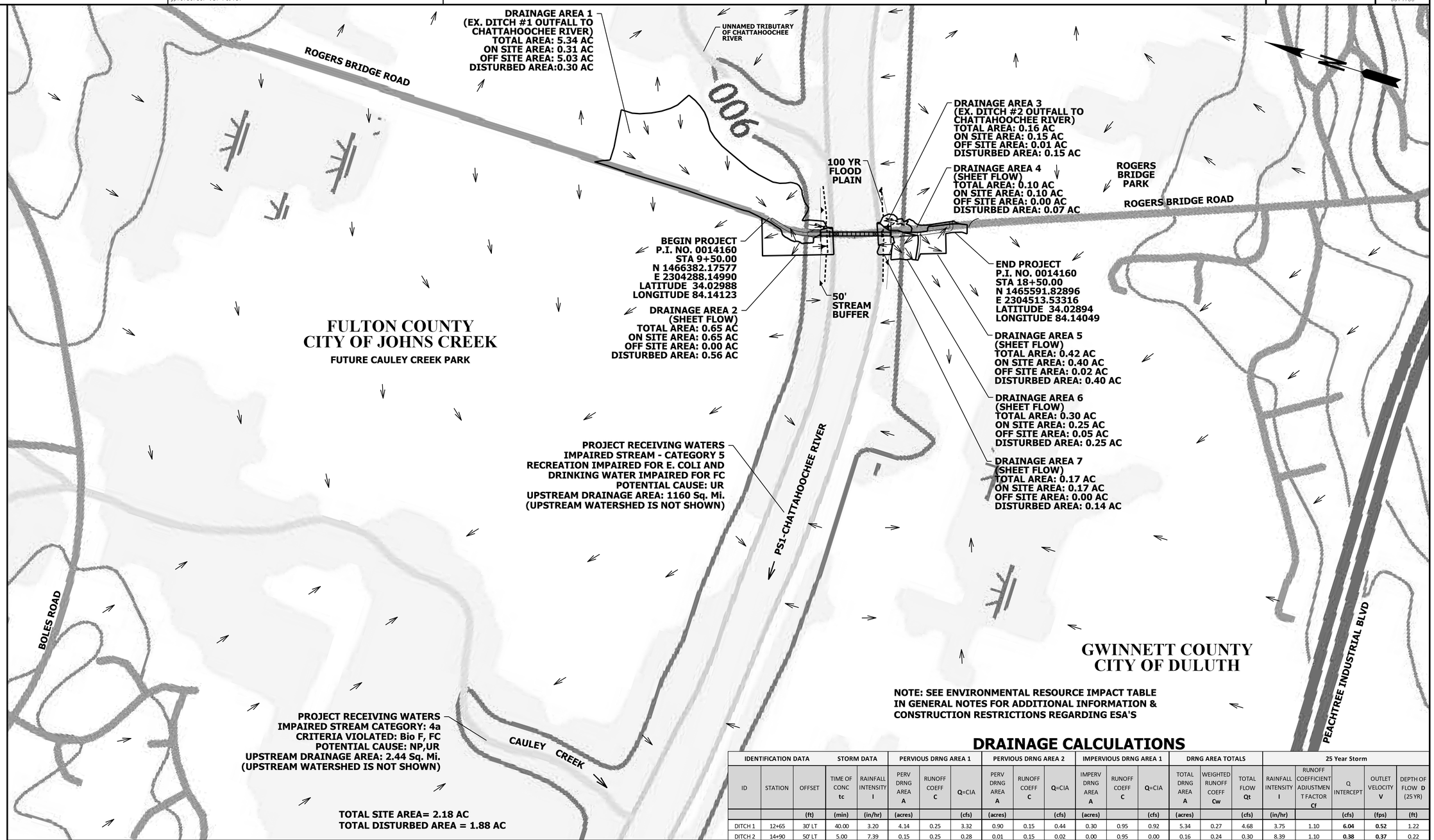
7/31/2015 GPLN

REVISION DATES

EROSION CONTROL LEGEND
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER
- PEDESTRIAN BRIDGE

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-0007



DRAINAGE CALCULATIONS

IDENTIFICATION DATA			STORM DATA		PERVIOUS DRNG AREA 1			PERVIOUS DRNG AREA 2			IMPERVIOUS DRNG AREA 1			DRNG AREA TOTALS			25 Year Storm				
ID	STATION	OFFSET	TIME OF CONC tc	RAINFALL INTENSITY I	PERV DRNG AREA A	RUNOFF COEFF C	Q=CIA	PERV DRNG AREA A	RUNOFF COEFF C	Q=CIA	IMPERV DRNG AREA A	RUNOFF COEFF C	Q=CIA	TOTAL DRNG AREA A	WEIGHTED RUNOFF COEFF Cw	TOTAL FLOW Qt	RAINFALL INTENSITY I	RUNOFF COEFFICIENT ADJUSTMENT FACTOR Cf	Q INTERCEPT	OUTLET VELOCITY V	DEPTH OF FLOW D (25 YR)
		(ft)	(min)	(in/hr)	(acres)		(cfs)	(acres)		(cfs)	(acres)		(cfs)	(acres)		(cfs)	(in/hr)		(cfs)	(fps)	(ft)
DITCH 1	12+65	30' LT	40.00	3.20	4.14	0.25	3.32	0.90	0.15	0.44	0.30	0.95	0.92	5.34	0.27	4.68	3.75	1.10	**6.04**	**0.52**	1.22
DITCH 2	14+90	50' LT	5.00	7.39	0.15	0.25	0.28	0.01	0.15	0.02	0.00	0.95	0.00	0.16	0.24	0.30	8.39	1.10	**0.38**	**0.37**	0.22

Duluth Capture the Spirit of Good Living

BOARD OF COMMISSIONERS OF GWINNETT COUNTY GEORGIA

FULTON COUNTY

Johns Creek be the exception

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0 200 400 800

REVISION DATES

EROSION CONTROL DRAINAGE AREA MAP

ROGERS BRIDGE AT CHATTAHOOCHEE RIVER PEDESTRIAN BRIDGE

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CORRECTED:		DATE:	53-0001
VERIFIED:		DATE:	

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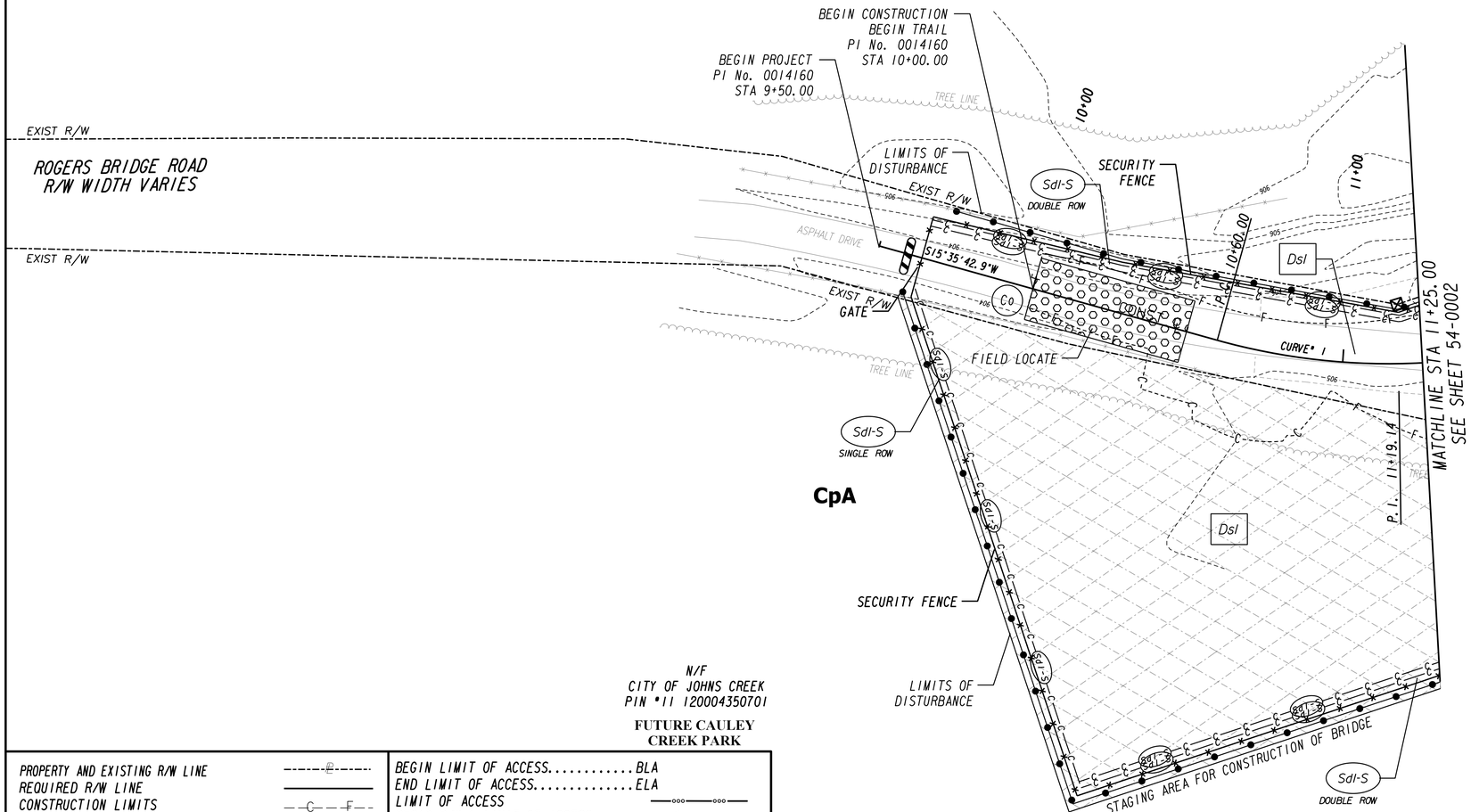
THE UNITED STATES OF AMERICA
DEED BOOK 50099 PAGE 412
PIN #11 124004560145

NOTE: NO CONSTRUCTION RELATED
ACTIVITES SHALL OCCUR ON THIS PARCEL

SOIL SERIES (TYP.)
CpA

NOTE: NO CONSTRUCTION RELATED
ACTIVITES SHALL OCCUR ON THIS PARCEL



N/F
CITY OF JOHNS CREEK
PIN #11 120004350701
FUTURE CAULEY CREEK PARK

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE
EASEMENT FOR CONSTR OF DRIVES	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

NOTE: ESA- SEE ENVIRONMENTAL RESOURCE IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.

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civil sanitary transportation survey

SCALE IN FEET
0 20 40 80

REVISION DATES

BMP LOCATION DETAILS - INITIAL
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER
PEDESTRIAN BRIDGE

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BACKCHECKED:		DATE:		54-0001
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VERIFIED:		DATE:		

10/23/2015 GPLN

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NOTE: NO CONSTRUCTION RELATED ACTIVITES SHALL OCCUR ON THIS PARCEL

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CITY OF JOHNS CREEK LIMITS

SOIL BOUNDARY (TYP.)

SOIL SERIES (TYP.)

CpA

L.L. F49

L.L. 246

APPROXIMATE L.L.L. FULTON COUNTY GWINNETT COUNTY

W

ROGERS BRIDGE PARK
N/F
THE CITY OF DULUTH
DEED BOOK 35176 PAGE 79
PIN *R7246 005

CuS

DULUTH CITY LIMITS

ORDINARY HIGH WATER MARK (OHWM)

TREE LINE

GRAVEL

LIMITS OF DISTURBANCE

SECURITY FENCE

REVISION 5/29/20

50' STREAM BUFFER

EXIST R/W

CONST ℄

S17°20'59.4"E

MATCHLINE STA 11+25.00
SEE SHEET 54-0001

MATCHLINE STA 16+25.00
SEE SHEET 54-0003

12+00 13+00 14+00 15+00 16+00

Sdl-S DOUBLE ROW

Dsl

Bf

Rd

Cd-F

Cd-E

CURVE* 1

R.T. 11+75.00

EXISTING BRIDGE (SHOWN BEHIND PROPOSED BRIDGE) IS "ELIGIBLE HISTORIC BRIDGE"

PS-1 CHATTAHOOCHEE RIVER

STAGING AREA FOR CONSTRUCTION OF BRIDGE

N/F
CITY OF JOHNS CREEK
PIN *11 120004350701
FUTURE CAULEY CREEK PARK

ESA- SEE ENVIRONMENTAL RESOURCE IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.

ROGERS BRIDGE PARK
N/F
THE CITY OF DULUTH
DEED BOOK49961 PAGE 516
PIN *R7243 069

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE
EASEMENT FOR CONSTR OF DRIVES	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

dpe
Development Planning & Engineering, Inc.
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SCALE IN FEET
0 20 40 80

REVISION DATES
05/29/20

BMP LOCATION DETAILS - INITIAL

ROGERS BRIDGE AT CHATTAHOOCHEE RIVER PEDESTRIAN BRIDGE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
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VERIFIED:		DATE:		

10/23/2015 GPLN

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NOTE: ESA- SEE ENVIRONMENTAL RESOURCE IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.

END PROJECT
PI No. 0014160
STA 18+50.00

END CONSTRUCTION
END TRAIL
PI No. 0014160
STA 18+35.50

SOIL SERIES (TYP.)

SOIL BOUNDARY (TYP.)

AkA

N/F
THE CITY OF DULUTH
DEED BOOK 35176 PAGE 79
PIN *R7246 005
ROGERS BRIDGE PARK

CuS

AuA

ToA

ROGERS BRIDGE ROAD
80' R/W

LIMITS OF DISTURBANCE

SPLIT RAIL FENCE

Sdl-S SINGLE ROW

EXIST R/W

17+00

18+00

18+50

SECURITY FENCE

HAND RAILS

ASPHALT SIDEWALK

GATE

GRAVEL

P.C. 16+45.00

P.T. 16+72.50

ASPHALT DRIVE

P.T. 18+12.00

P.C. 17+90.00

N64°44'08.8"E

Co FIELD LOCATE

Dsl

CONST ℄

CURVE #3

S25°13'40.8"E

50+00

CURVE #2

P.C. 50+10.00

P.I. 16+58.77

18+04.01

P.I. 50+33.36

P.T. 50+56.50

CURVE #4

TRAIL "A"

STAGING AREA FOR CONSTRUCTION OF BRIDGE

N/F
THE CITY OF DULUTH
DEED BOOK49961 PAGE 516
PIN *R7243 069
ROGERS BRIDGE PARK

LIMITS OF DISTURBANCE

51+00

LIMITS OF DISTURBANCE

SECURITY FENCE

CONCRETE SIDEWALK

LIMITS OF CONSTRUCTION
STA 51+15.00

Sdl-S DOUBLE ROW

MATCHLINE STA 16+25.00
SEE SHEET 54-0002

PROPERTY AND EXISTING R/W LINE	------℄------
REQUIRED R/W LINE	———
CONSTRUCTION LIMITS	– –C– –F– –
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA	
END LIMIT OF ACCESS.....ELA	
LIMIT OF ACCESS	ooo ooo
REQ'D R/W & LIMIT OF ACCESS	III III
ORANGE BARRIER FENCE	●—●
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	▼ ▼

Duluth Capture the Spirit of Good Living

Board of Commissioners of Gwinnett County Georgia

Fulton County

Johns Creek be the exception

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SCALE IN FEET
0 20 40 80

REVISION DATES

BMP LOCATION DETAILS - INITIAL

ROGERS BRIDGE AT CHATTAHOOCHEE RIVER
PEDESTRIAN BRIDGE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		54-0003
VERIFIED:		DATE:		

10/23/2015 GPLN

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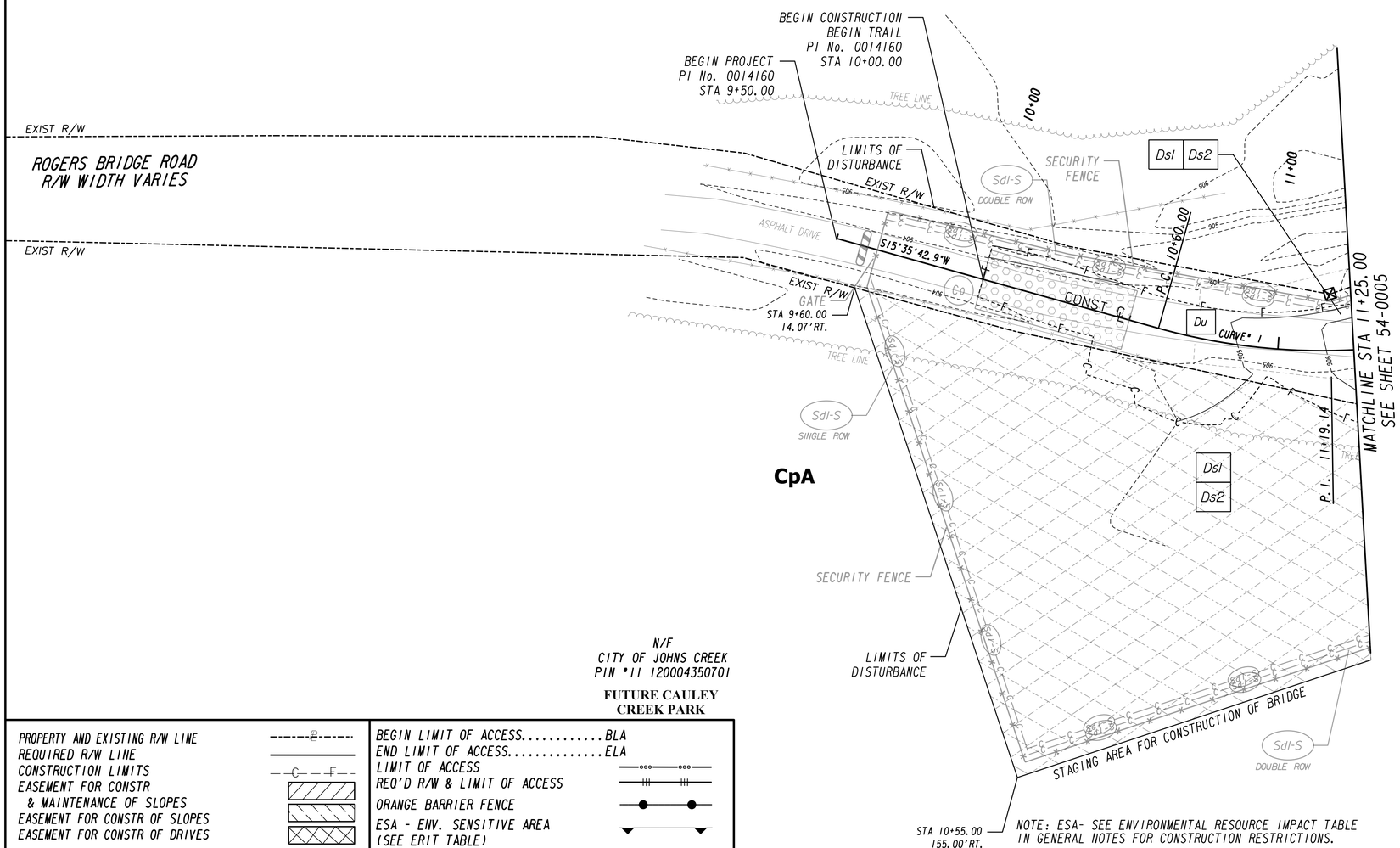
THE UNITED STATES OF AMERICA
DEED BOOK 50099 PAGE 412
PIN 11 124004560145

NOTE: NO CONSTRUCTION RELATED
ACTIVITES SHALL OCCUR ON THIS PARCEL

SOIL SERIES (TYP.) — CpA

NOTE: NO CONSTRUCTION RELATED
ACTIVITES SHALL OCCUR ON THIS PARCEL



NOTE: ESA- SEE ENVIRONMENTAL RESOURCE IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.

N/F
CITY OF JOHNS CREEK
PIN 11 120004350701
FUTURE CAULEY CREEK PARK

PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	

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SCALE IN FEET
0 20 40 80

REVISION DATES

BMP LOCATION DETAILS - INTERMEDIATE

ROGERS BRIDGE AT CHATTAHOOCHEE RIVER
PEDESTRIAN BRIDGE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		54-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		

10/23/2015 GPLN

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kblack gplotborder-V8I-P0.tbl

NOTE: NO CONSTRUCTION RELATED ACTIVITES SHALL OCCUR ON THIS PARCEL

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THE UNITED STATES OF AMERICA
DEED BOOK 50099 PAGE 412
PIN *11 124004560145

CITY OF JOHNS CREEK LIMITS

SOIL BOUNDARY (TYP.)

SOIL SERIES (TYP.)

L.L. F49

L.L. 246

APPROXIMATE L.L.L.

FULTON COUNTY
GWINNETT COUNTY

ROGERS BRIDGE PARK
N/F
THE CITY OF DULUTH
DEED BOOK 35176 PAGE 79
PIN *R7246 005

DULUTH CITY LIMITS

CpA

CuS

W

TREE LINE

ORDINARY HIGH WATER
ORDINARY HIGH WATER MARK (OHWM)

LIMITS OF DISTURBANCE

SECURITY FENCE

REVISION 5/29/20

BUFFER

50' STREAM BUFFER

GRAVEL

Dsl
Ds2
Sdl-S
DOUBLE ROW
Bf
Cd-F
Du

12+00
13+00
14+00
15+00
16+00

P.T. 11+75.00

EXIST R/W

ADD DOUBLE ROW OF SDI-S PRIOR TO EXISTING BENT REMOVAL. CONTRACTOR TO BE AWARE OF FLUCTUATING RIVER LEVELS WHEN INSTALLING, MAINTAINING, AND REMOVING SILT FENCE IN THESE AREAS

CURVE* 1

CONST ℄

S17°20'59.4"E

MATCHLINE STA 11+25.00
SEE SHEET 54-0004

MATCHLINE STA 16+25.00
SEE SHEET 54-0006

EXISTING BRIDGE (SHOWN BEHIND PROPOSED BRIDGE) IS "ELIGIBLE HISTORIC BRIDGE"

TEMPORARY BENT

PS-1 CHATTAHOOCHEE RIVER

STAGING AREA FOR CONSTRUCTION OF BRIDGE

TEMPORARY BULKHEAD

ESA- SEE ENVIRONMENTAL RESOURCE IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.

N/F
CITY OF JOHNS CREEK
PIN *11 120004350701
FUTURE CAULEY CREEK PARK

ROGERS BRIDGE PARK
N/F
THE CITY OF DULUTH
DEED BOOK49961 PAGE 516
PIN *R7243 069

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

Development Planning & Engineering, Inc.
civil sanitary transportation survey

SCALE IN FEET
0 20 40 80

REVISION DATES
05/29/20

BMP LOCATION DETAILS - INTERMEDIATE

ROGERS BRIDGE AT CHATTAHOOCHEE RIVER PEDESTRIAN BRIDGE

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	54-0005
CORRECTED:		DATE:	
VERIFIED:		DATE:	

10/23/2015 GPLN

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NOTE: ESA- SEE ENVIRONMENTAL RESOURCE IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.

END PROJECT
PI No. 0014160
STA 18+50.00

END CONSTRUCTION
END TRAIL
PI No. 0014160
STA 18+35.50

SOIL SERIES (TYP.)

SOIL BOUNDARY (TYP.)

AkA

N/F
THE CITY OF DULUTH
DEED BOOK 35176 PAGE 79
PIN *R7246 005

ROGERS BRIDGE PARK

CuS

AuA

ToA

LIMITS OF DISTURBANCE

SPLIT RAIL FENCE

Sdl-S SINGLE ROW

EXIST R/W

18+00

17+00

18+50

HAND RAILS

ASPHALT SIDEWALK

SECURITY FENCE

GATE

Dsl Ds2

P.C. 16+45.00

P.T. 16+72.50

P.C. 17+90.00

N64°44'08.8"E

ROGERS BRIDGE ROAD
80' R/W

18" CMP

ASPHALT DRIVE

P.T. 18+12.00

CONST ℄

CURVE #3

Co

S25°13'40.8"E

50+00

CURVE #2

P.C. 50+10.00

P.I. 50+38.77

Dd

E-T

EXIST R/W

18+04.01

GRAVEL

MATCHLINE STA 16+25.00
SEE SHEET 54-0005

P.I. 50+33.36

CURVE #4

P.T. 50+56.50

TRAIL "A"

Dsl
Ds2

Sdl-S SINGLE ROW

N/F
THE CITY OF DULUTH
DEED BOOK49961 PAGE 516
PIN *R7243 069

ROGERS BRIDGE PARK

STAGING AREA FOR CONSTRUCTION OF BRIDGE

LIMITS OF DISTURBANCE

51+00

LIMITS OF DISTURBANCE

SECURITY FENCE

CONCRETE SIDEWALK

LIMITS OF CONSTRUCTION
STA 51+15.00

Sdl-S DOUBLE ROW

AkA

CuS

AuA

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE
EASEMENT FOR CONSTR OF DRIVES	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

Development Planning & Engineering, Inc.
civil sanitary transportation survey

SCALE IN FEET
0 20 40 80

REVISION DATES

BMP LOCATION DETAILS - INTERMEDIATE
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER
PEDESTRIAN BRIDGE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		54-0006
CORRECTED:		DATE:		
VERIFIED:		DATE:		

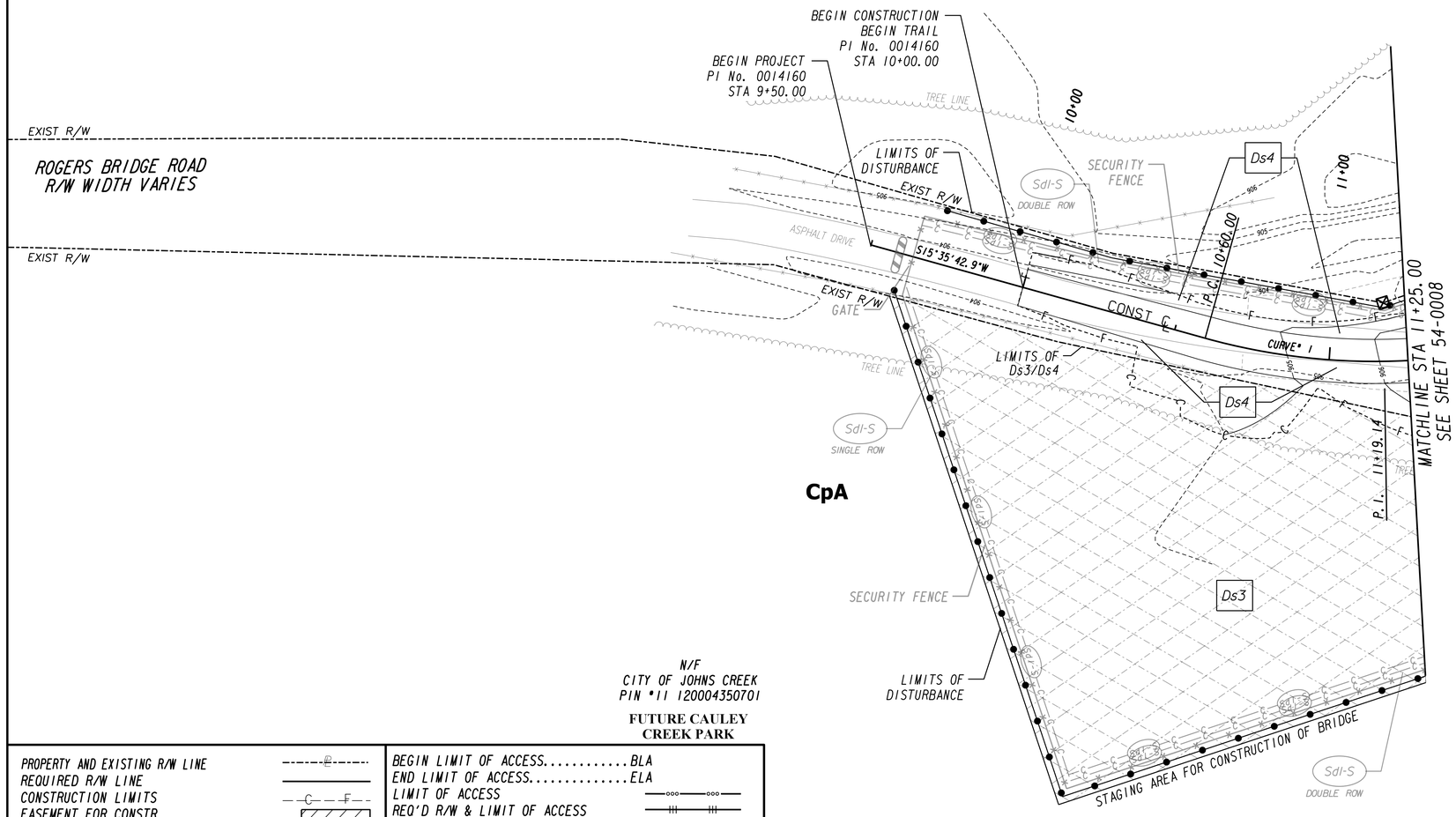
10/23/2015 GPLN

N/F
THE UNITED STATES OF AMERICA
DEED BOOK 50099 PAGE 412
PIN •11 124004560145

NOTE: NO CONSTRUCTION RELATED
ACTIVITES SHALL OCCUR ON THIS PARCEL

SOIL SERIES (TYP.)
CpA

NOTE: NO CONSTRUCTION RELATED
ACTIVITES SHALL OCCUR ON THIS PARCEL



N/F
CITY OF JOHNS CREEK
PIN •11 120004350701
FUTURE CAULEY CREEK PARK

PROPERTY AND EXISTING R/W LINE	------℄------
REQUIRED R/W LINE	———
CONSTRUCTION LIMITS	– –C– – –F– –
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA	
END LIMIT OF ACCESS.....ELA	
LIMIT OF ACCESS	—ooo—ooo—
REQ'D R/W & LIMIT OF ACCESS	——|——|——
ORANGE BARRIER FENCE	
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	

NOTE: ESA- SEE ENVIRONMENTAL RESOURCE IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.

Development Planning & Engineering, Inc.
civil sanitary transportation survey

SCALE IN FEET
0 20 40 80

REVISION DATES

BMP LOCATION DETAILS - FINAL
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER
PEDESTRIAN BRIDGE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		54-0007
VERIFIED:		DATE:		

10/23/2015 GPLN

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NOTE: NO CONSTRUCTION RELATED ACTIVITES SHALL OCCUR ON THIS PARCEL

N/F
THE UNITED STATES OF AMERICA
DEED BOOK 50099 PAGE 412
PIN *11 124004560145

CITY OF JOHNS CREEK LIMITS

SOIL BOUNDARY (TYP.)

SOIL SERIES (TYP.)

L.L. F49

L.L. 246

APPROXIMATE L.L.L.

FULTON COUNTY / GWINNETT COUNTY

ROGERS BRIDGE PARK
N/F
THE CITY OF DULUTH
DEED BOOK 35176 PAGE 79
PIN *R7246 005

DULUTH CITY LIMITS

ORDINARY HIGH WATER MARK (OHWM)

TREE LINE

LIMITS OF DISTURBANCE

SECURITY FENCE

REVISION 5/29/20

BUFFER

50' STREAM BUFFER

GRAVEL

EXIST R/W

MATCHLINE STA 11+25.00
SEE SHEET 54-0007

MATCHLINE STA 16+25.00
SEE SHEET 54-0009

P.T. 11+75.00

12+00 13+00 14+00 15+00 16+00

CURVE* 1

CONST C

S17°20'59.4"E

CpA W W CuS

Ds4 Sdl-S DOUBLE ROW Bf Rp Cd-F Ch-2T1 30LSY

10 SY RIP RAP TYPE 1 10 SY FILTER FABRIC

29 SY RIP RAP TYPE 1 29 SY FILTER FABRIC

EXISTING BRIDGE (SHOWN BEHIND PROPOSED BRIDGE) IS *ELIGIBLE HISTORIC BRIDGE*

100 SY RIP RAP TYPE 1 100 SY FILTER FABRIC

78 SY RIP RAP TYPE 1 78 SY FILTER FABRIC

LIMITS OF Ds3/Ds4

Ds3 TO BUFFER

STAGING AREA FOR CONSTRUCTION OF BRIDGE

Ss WOOD FIBER MATTING (INSIDE BUFFER)

ESA- SEE ENVIRONMENTAL RESOURCE IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.

PS-1 CHATTAHOOCHEE RIVER

APPROXIMATE L.L.L. FULTON COUNTY / GWINNETT COUNTY

N/F
CITY OF JOHNS CREEK
PIN *11 120004350701
FUTURE CAULEY CREEK PARK

ROGERS BRIDGE PARK
N/F
THE CITY OF DULUTH
DEED BOOK49961 PAGE 516
PIN *R7243 069

DULUTH CITY LIMITS

SOIL SERIES (TYP.) CuS

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	REQ'D R/W & LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	ORANGE BARRIER FENCE
EASEMENT FOR CONSTR OF DRIVES	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

dpe
Development Planning & Engineering, Inc.
civil sanitary transportation survey

SCALE IN FEET
0 20 40 80

REVISION DATES
05/29/20

BMP LOCATION DETAILS - FINAL

ROGERS BRIDGE AT CHATTAHOOCHEE RIVER PEDESTRIAN BRIDGE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		54-0008
VERIFIED:		DATE:		

10/23/2015 GPLN

NOTE: ESA- SEE ENVIRONMENTAL RESOURCE IMPACT TABLE IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.

END PROJECT
PI No. 0014160
STA 18+50.00

END CONSTRUCTION
END TRAIL
PI No. 0014160
STA 18+35.50

SOIL SERIES (TYP.)

SOIL BOUNDARY (TYP.)

AkA

N/F
THE CITY OF DULUTH
DEED BOOK 35176 PAGE 79
PIN *R7246 005

ROGERS BRIDGE PARK

CuS

AuA

ToA

ROGERS BRIDGE ROAD
80' R/W

MATCHLINE STA 16+25.00
SEE SHEET 54-0008

LIMITS OF DISTURBANCE

SPLIT RAIL FENCE

Sdl-S SINGLE ROW

EXIST R/W

SECURITY FENCE

HAND RAILS

ASPHALT SIDEWALK

GATE

GRAVEL

Ds3

Ds4

ASPHALT DRIVE

P.C. 16+45.00

P.T. 16+72.50

P.C. 17+90.00

N64°44'08.8"E

P.T. 18+12.00

CURVE #3

CONST ℄

S25°13'40.8"E

50+00

CURVE #2

P.C. 50+10.00

P.T. 50+33.36

18+04.01

18+00

17+00

18+50

18" CMP

TRAIL 'A'

P.T. 50+56.50

CURVE #4

STAGING AREA FOR CONSTRUCTION OF BRIDGE

LIMITS OF DISTURBANCE

51+00

LIMITS OF CONSTRUCTION
STA 51+15.00

CONCRETE SIDEWALK

Sdl-S DOUBLE ROW

N/F
THE CITY OF DULUTH
DEED BOOK49961 PAGE 516
PIN *R7243 069

ROGERS BRIDGE PARK

AkA

CuS

AuA

GRAVEL

PROPERTY AND EXISTING R/W LINE	BEGIN LIMIT OF ACCESS.....BLA
REQUIRED R/W LINE	END LIMIT OF ACCESS.....ELA
CONSTRUCTION LIMITS	LIMIT OF ACCESS
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Development Planning & Engineering, Inc.
civil sanitary transportation survey

SCALE IN FEET
0 20 40 80

REVISION DATES

BMP LOCATION DETAILS - FINAL
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER
PEDESTRIAN BRIDGE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		54-0009
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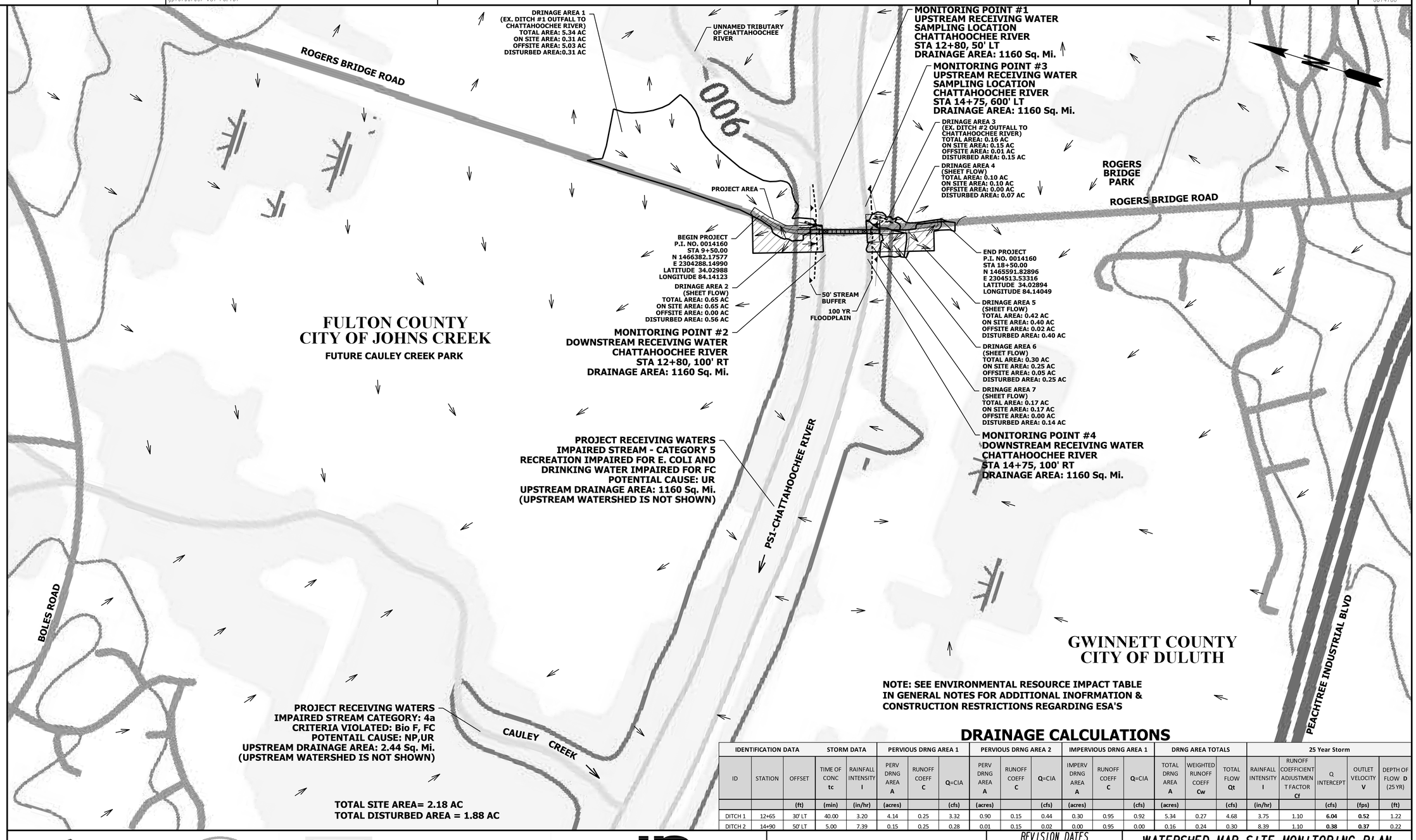
VERIFIED:		DATE:		

10/23/2015 GPLN



DRAINAGE CALCULATIONS

IDENTIFICATION DATA			STORM DATA		PERVIOUS DRNG AREA 1			PERVIOUS DRNG AREA 2			IMPERVIOUS DRNG AREA 1			DRNG AREA TOTALS			25 Year Storm				
ID	STATION	OFFSET	TIME OF CONC tc	RAINFALL INTENSITY I	PERV DRNG AREA A	RUNOFF COEFF C	Q=CIA	PERV DRNG AREA A	RUNOFF COEFF C	Q=CIA	IMPERV DRNG AREA A	RUNOFF COEFF C	Q=CIA	TOTAL DRNG AREA A	WEIGHTED RUNOFF COEFF Cw	TOTAL FLOW Qt	RAINFALL INTENSITY I	RUNOFF COEFFICIENT ADJUSTMENT FACTOR Cf	Q INTERCEPT	OUTLET VELOCITY V	DEPTH OF FLOW D (25 YR)
		(ft)	(min)	(in/hr)	(acres)		(cfs)	(acres)		(cfs)	(acres)		(cfs)	(acres)		(cfs)	(in/hr)		(cfs)	(fps)	(ft)
DITCH 1	12+65	30' LT	40.00	3.20	4.14	0.25	3.32	0.90	0.15	0.44	0.30	0.95	0.92	5.34	0.27	4.68	3.75	1.10	**6.04**	**0.52**	1.22
DITCH 2	14+90	50' LT	5.00	7.39	0.15	0.25	0.28	0.01	0.15	0.02	0.00	0.95	0.00	0.16	0.24	0.30	8.39	1.10	**0.38**	**0.37**	0.22

Development Planning & Engineering, Inc.
civil sanitary transportation survey

SCALE IN FEET
0 200 400 800

REVISION DATES

WATERSHED MAP SITE MONITORING PLAN
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER
PEDESTRIAN BRIDGE

CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	55-0001
VERIFIED:		DATE:	

10/23/2015 GPLN

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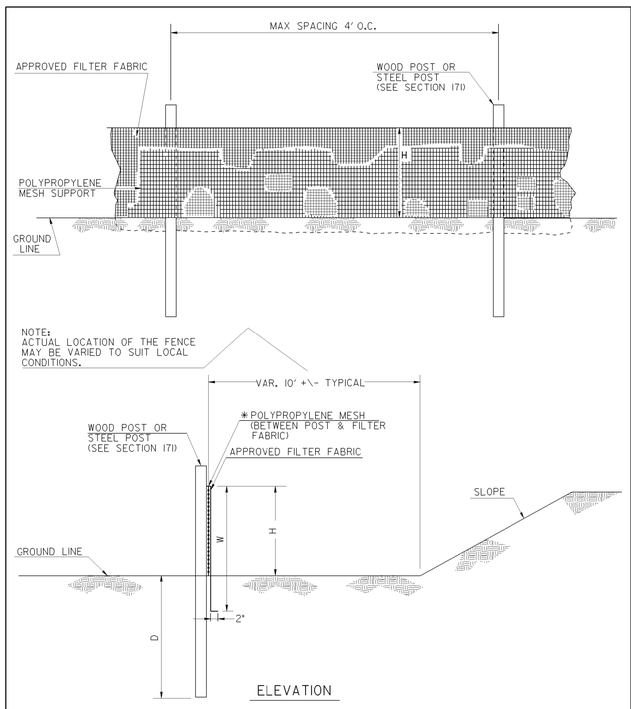
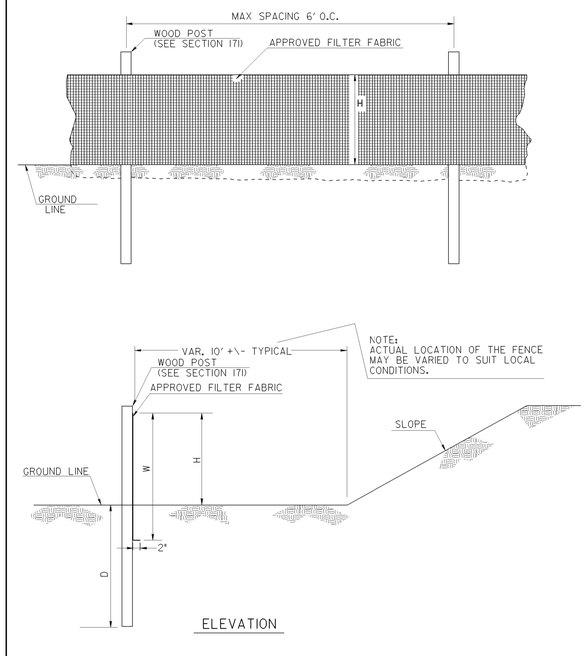
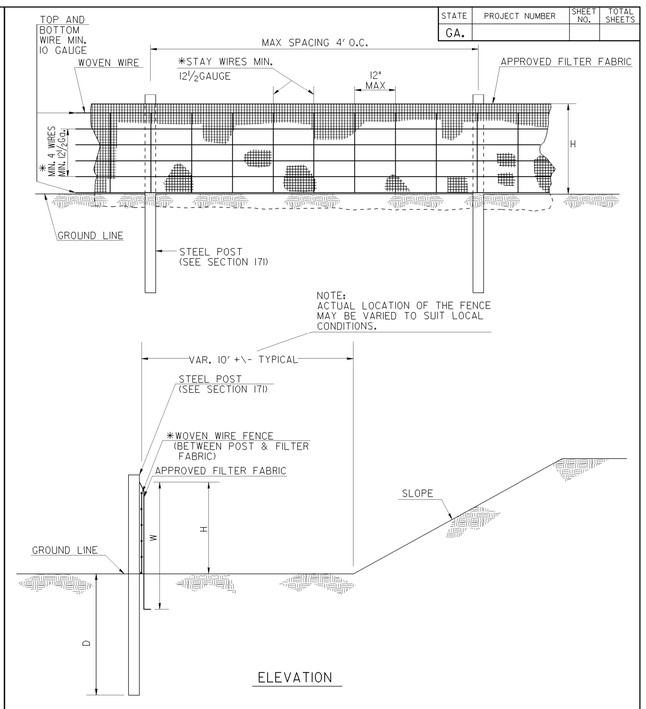


SINGLE ROW TYPE C SILT FENCE WITH POLYPROPYLENE MESH SUPPORT



SINGLE ROW TYPE A SILT FENCE



SINGLE ROW TYPE C SILT FENCE WITH WOVEN WIRE SUPPORT

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE "C"	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

NOTES:

1. WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST ½ INCHES LONG AND A CROWN AT LEAST ¾INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1INCH LONG , WITH BUTTON HEADS AT LEAST ¾ INCHES WIDE.
2. NAILS OR STAPLES SHALL BE EVENLY PLACED WITH AT LEAST 5 PER POST FOR TYPE A FENCE AND 4 PER POST FOR TYPE C FENCE.
3. THE VERTICAL WIRES FOR THE WOVEN WIRE SUPPORT FENCE SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12½ GAUGE.
4. TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
5. SEE SECTION 171 FOR SILT FENCE SPECIFICATIONS.
6. SEE SECTION 894 FOR FENCING SPECIFICATIONS.
7. SEE OPL-36 FOR A LIST APPROVED SILT FENCE FABRIC.
8. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

TEMPORARY SILT FENCE

NO SCALE REV. AND REDRAWN JAN. 2011

NUMBER D-24A (SHEET 1 OF 4)

DATE / REVISION / BY

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7/31/2015 GPLN

Duluth Capture the Spirit of Good Living

Board of Commissioners of Gwinnett County Georgia

Fulton County

Johns Creek be the exception

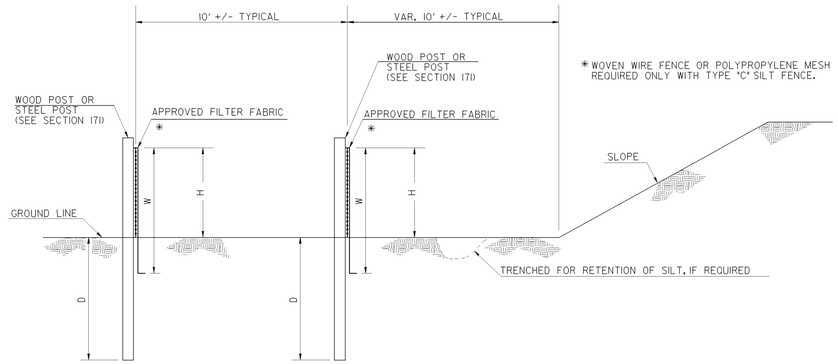
dpe Development Planning & Engineering, Inc. civil sanitary transportation survey

REVISION DATES
10/27/20

EROSION CONTROL CONTRUCTION DETAILS

ROGERS BRIDGE AT CHATTAHOOCHEE RIVER - PEDESTRIAN BRIDGE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

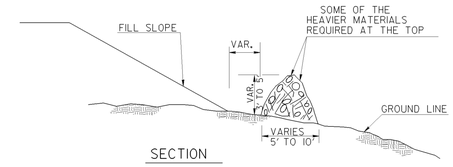


ELEVATION

DOUBLE ROW SILT FENCE

FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE "C"	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



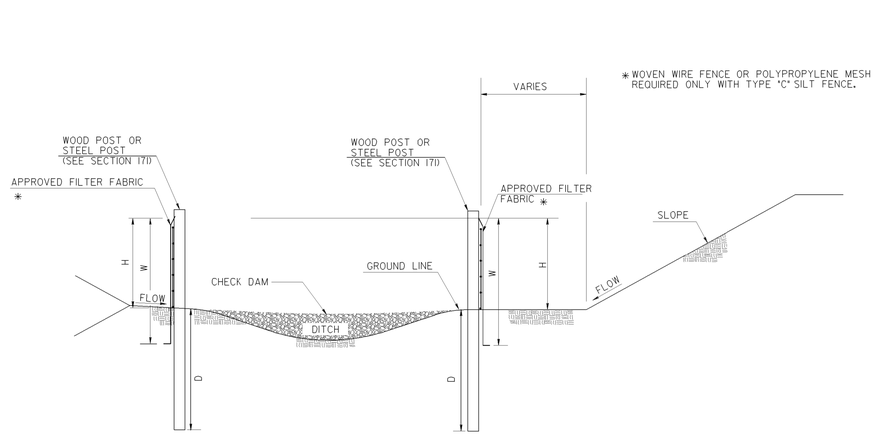
SECTION

NOTE: INTERMINGLE BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM.

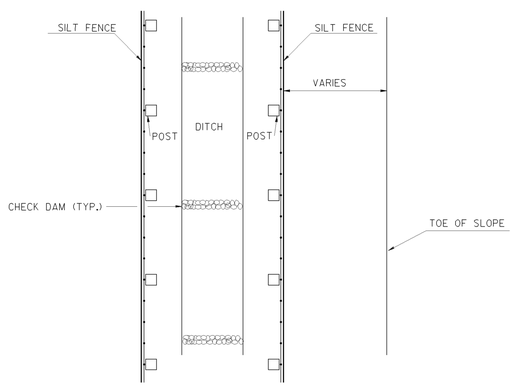
FRONT VIEW

NOTE: BRUSH BARRIER(S) WILL BE INCLUDED IN PAYMENT FOR CLEARING & GRUBBING.

BRUSH BARRIER DETAILS
(FOR USE IN RURAL AREAS)



ELEVATION



PLAN

FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE "C"	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

SILT FENCE
PERIMETER INSTALLATION ALONG DITCH SECTION

NOTE: TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
TEMPORARY SILT FENCE
BERM DITCH, INSTALLATION, BRUSH BARRIER

NO SCALE REV. AND REDRAWN JAN. 2011

NUMBER D-24B (SHEET 2 OF 4)

DATE | REVISION | BY

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Duluth Capture the Spirit of Good Living

Board of Commissioners of Gwinnett County Georgia

Fulton County

Johns Creek be the exception

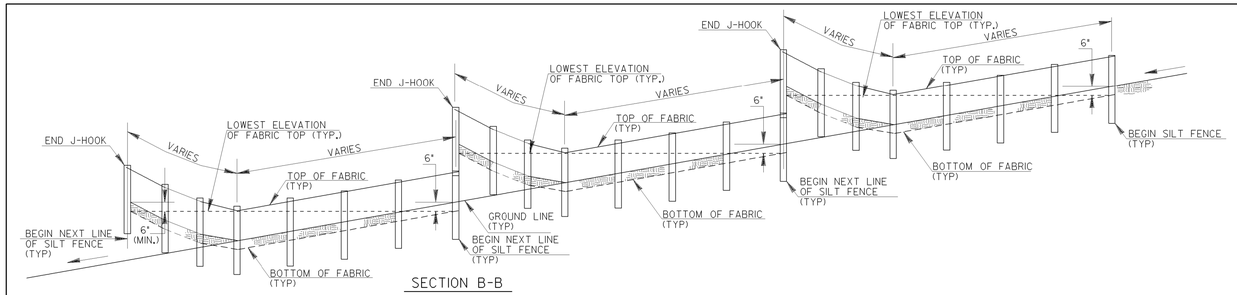
dpe Development Planning & Engineering, Inc. civil sanitary transportation survey

REVISION DATES
10/27/20

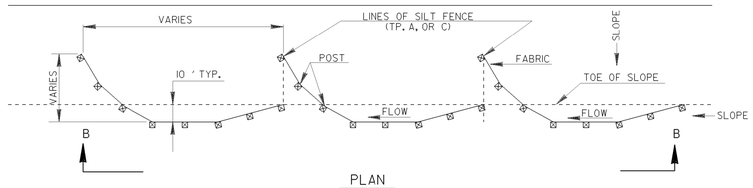
EROSION CONTROL CONTRUCTION DETAILS
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER
- PEDESTRIAN BRIDGE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

7/31/2015 GPLN

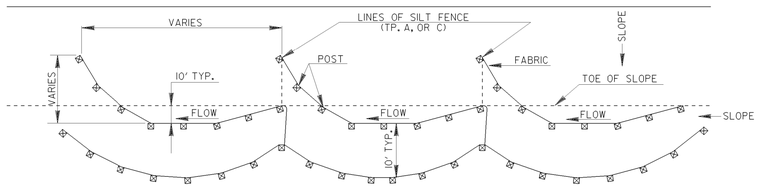


SECTION B-B



PLAN

SINGLE ROW SILT FENCE



PLAN

DOUBLE ROW SILT FENCE

TYPICAL J HOOK SPACING		
SLOPE PERCENT	TYPE OF SILT FENCE	MINIMUM SPACING (FEET)
1% TO 2%	TYPE A	100' ±
2% TO 3%	TYPE A	50' ±
3% TO 4%	TYPE C	50' ±
4% TO 5%	TYPE C	25' ±

NOTE:

1. IF THE GRADE IS BETWEEN 0 TO 1 PERCENT, THE SILT FENCE SHALL BE PLACED ACROSS THE DITCH.
2. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS.

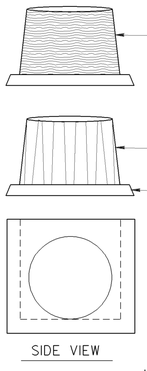
(PLASTIC ALTERNATE)

NOTE:
THE DRAINAGE AREA ENTERING THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.

TYPICAL CONSTRUCTION SEQUENCE FOR INLET SEDIMENT TRAP ALTERNATE

1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE FILTER OVER THE FRAME.
4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.

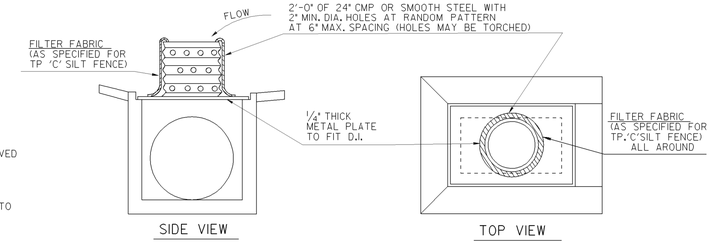
NOTE:
INLET SEDIMENT TRAP ALTERNATE SHALL BE AS APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS & RESEARCH. DETAILS & SPECIFICATIONS NOT SHOWN ARE PER THE MANUFACTURER'S REQUIREMENTS.



SIDE VIEW

NOTE: WHERE INLET SEDIMENT TRAPS ARE SPECIFIED, EITHER THE PLASTIC ALTERNATE (LEFT) OR THE METAL ALTERNATE (RIGHT) MAY BE USED AS APPROVED BY THE ENGINEER.

(METAL ALTERNATE)



SIDE VIEW TOP VIEW

NOTE:
INLET SEDIMENT TRAP AND INLET TO BE BUILT CONTINUOUS WITH PIPE

NOTE:
PAYMENT AS INLET SEDIMENT TRAP PER EACH

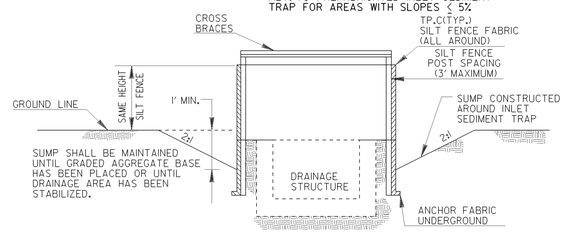
NOTE: SEE SEPARATE DETAILS FOR SILT FENCE AROUND DROP INLETS.

INLET SEDIMENT TRAP - FOR DROP INLETS

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

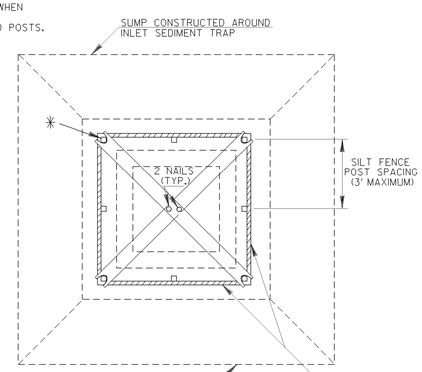
TYPICAL LOCATION AROUND DROP INLETS

ALT. TO PREFABRICATED INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%



ELEVATION

✳ CROSS BRACING REQUIRED WHEN USING "ALTERNATE" TYPE C PRODUCTS WHICH USE WOOD POSTS.



PLAN

CROSS BRACES:

TWO - 2 X 4's WITH ENDS TO FIT POST, PROVIDING STURDY SUPPORT, OR AN APPROVED ALTERNATE

NOTE:
PAYMENT AS INLET SEDIMENT TRAP PER EACH.

NOTE:
SEE SEPARATE SHEET ENTITLED 'TEMPORARY SILT FENCE DETAILS' FOR SILT FENCE ERECTION DETAILS.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
TEMPORARY SILT FENCE
J-HOOK, INLET SEDIMENT TRAPS

NO SCALE JANUARY 2011

DATE | REVISION | BY

NUMBER D-24C (SHEET 3 OF 4)

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7/31/2015 GPLN

Duluth Capture the Spirit of Good Living

Board of Commissioners of Gwinnett County Georgia

Fulton County

Johns Creek be the exception

dpe Development Planning & Engineering, Inc. civil sanitary transportation survey

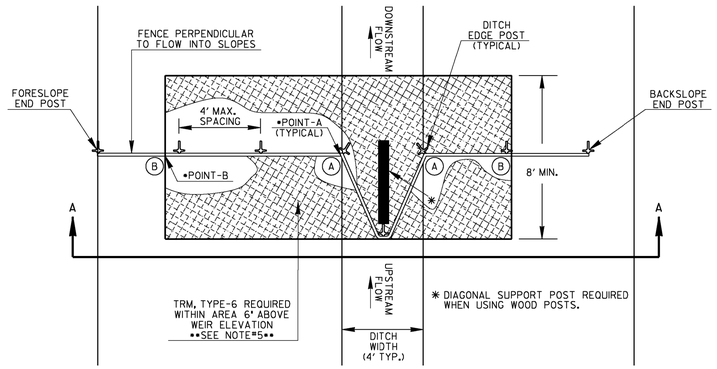
REVISION DATES		
10/27/20		

EROSION CONTROL CONTRUCTION DETAILS

ROGERS BRIDGE AT CHATTAHOOCHEE RIVER - PEDESTRIAN BRIDGE

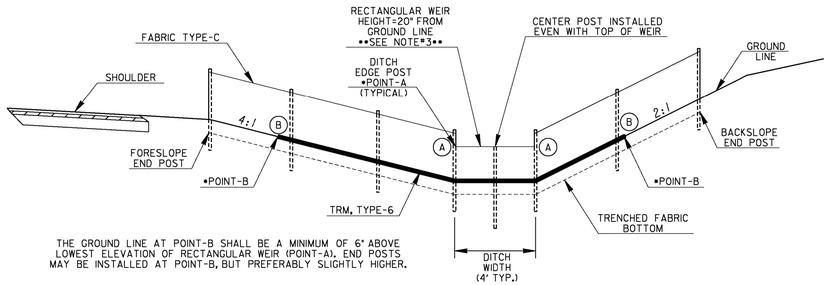
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



PLAN VIEW

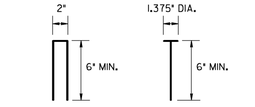
TYPICAL FABRIC CHECK DAM SPACING	
GRADE OF DITCH	MINIMUM SPACING (FEET)
LESS THAN 1%	100' ±
1% TO 3%	75' ±
3% TO 6%	50' ±
6% TO 8%	25' ±



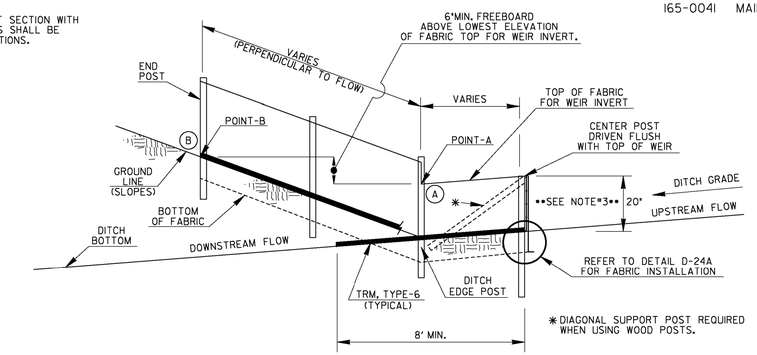
SECTION A-A

NOTE: CROSS-SECTION SHOWN IS AN EXAMPLE OF A TYPICAL CUT SECTION WITH A 4-FT FLAT BOTTOM DITCH. ACTUAL FABRIC CHECK DAMS SHALL BE INSTALLED SIMILARLY ACCORDING TO ROADWAY CROSS-SECTIONS.

TURF REINFORCEMENT MATTING ANCHOR



NOTE: TURF REINFORCEMENT MATTING SHALL BE ANCHORED WITH 8-GAUGE METAL STAPLES OR ROUND TOP ANCHORS. ANCHORS SHALL BE LONG ENOUGH TO PROVIDE SUFFICIENT GROUND PENETRATION TO RESIST PULL OUT.



NOTES:

1. FABRIC CHECK DAMS MAY BE USED FOR FLOWS UP TO 2.0-CFS. A ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM POINT FOR FLOWS GREATER THAN 2.0-CFS.
2. FABRIC CHECK DAMS SHALL NOT BE PLACED WITHIN FLOWING STATE WATERS.
3. FABRIC CHECK DAMS MAY BE USED IN DITCHES WITH DEPTHS AT LEAST 26-IN. IF DITCH DEPTH IS LESS THAN 26-IN, THE WEIR INVERT MAY BE LOWERED SLIGHTLY IN THE FIELD TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A OR TO MATCH SPACING OF WIRE SUPPORT. THE WEIR HEIGHT SHALL BE NO LESS THAN 15-IN. THE DESIGNER SHALL CONSIDER OTHER APPROPRIATE BMPs FOR CONCENTRATED FLOW FOR DITCH DEPTHS LESS THAN 26-IN.
4. THE FOLLOWING STEPS ARE RECOMMENDED FOR PROPER FABRIC CHECK DAM INSTALLATION:
   A) DETERMINE DITCH CENTERLINE AND USE A LINE LEVEL OR OTHER MEANS TO FIND POINT-B WITHIN THE DITCH FORESLOPE AND BACKSLOPE TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A.
   B) CREATE TRENCH 6-IN BELOW DITCH GRADE TO FIT LAYOUT FROM STEP-A WITH MINIMAL SOIL DISTURBANCE.
   C) LAYOUT TURF REINFORCEMENT MATTING (TRM), TYPE-6 TO PROVIDE PROTECTION A MINIMUM LENGTH OF 8-FT DOWNSTREAM OF CENTER POST TO FUNCTION AS A SPLASH PAD TO PREVENT SCOURING. ADDITIONAL NECESSARY TRM SHALL BE OVERLAPPED 3-FT. THE WIDTH SHALL BE THE DISTANCE BETWEEN POINT-B ON THE DITCH FORESLOPE AND POINT-B ON BACKSLOPE.
   D) INSTALL FENCE POSTS THROUGH TRM WITHIN TRENCH. CENTER POST AND POSTS WITHIN WEIR AREA SHALL BE INSTALLED FLUSH WITH WEIR. CUT TRM WITHIN TRENCH FOLLOWING CHECK DAM LAYOUT AND SAVE UPSTREAM PORTION OF TRM FOR FURTHER USE.
   E) PROPERLY INSTALL TYPE-C SILT FENCE. TRENCH BACKFILL SHALL BE COMPACTED WITH A HAND TAMPER, JUMPING JACK COMPACTOR, OR PLATE COMPACTOR TO PREVENT UNDERMINING.
   F) INSTALL PREVIOUSLY CUT TRM FROM STEP-D UPSTREAM AGAINST CHECK DAM. INSTALLING UPSTREAM AND DOWNSTREAM TRM ACCORDING TO DETAIL D-35 FOR THIS TEMPORARY APPLICATION IS NOT REQUIRED. HOWEVER, TRM SHALL HAVE PROPER CONTACT WITH GROUND SURFACE, ANCHORED 6-IN MAXIMUM SPACING ALONG THE EDGES, AND ADEQUATELY WITHIN THE MATTED AREA.
5. TEMPORARY INSTALLATION OF TRM WITH FABRIC CHECK DAMS SHALL BE INCLUDED IN THE LINEAR COST OF THE CONSTRUCTION, REMOVAL, AND MAINTENANCE OF EACH FABRIC CHECK DAM. NO ADDITIONAL PAYMENT WILL BE MADE.

PAY ITEMS:
163-0528 CONSTRUCT & REMOVE FABRIC CHECK DAM, TYPE-C SILT FENCE (LF)
165-0041 MAINTENANCE OF CHECK DAMS - ALL TYPES (LF)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
TEMPORARY SILT FENCE
FABRIC CHECK DAM

NO SCALE REV. AND REDRAWN, JULY 2015

NUMBER D-24D (SHEET 4 OF 4)

REVISION | DATE | BY

7/31/2015 GPLN

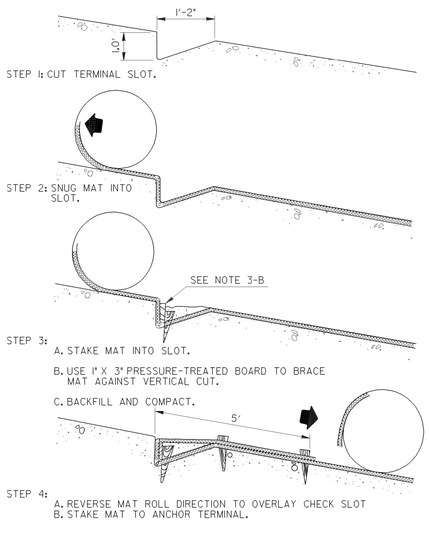
Development Planning & Engineering, Inc.
civil sanitary transportation survey

REVISION DATES
10/27/20

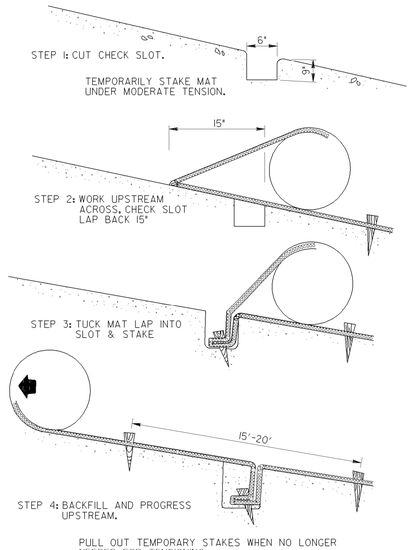
EROSION CONTROL CONTRUCTION DETAILS
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER - PEDESTRIAN BRIDGE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0004
CORRECTED:		DATE:		
VERIFIED:		DATE:		

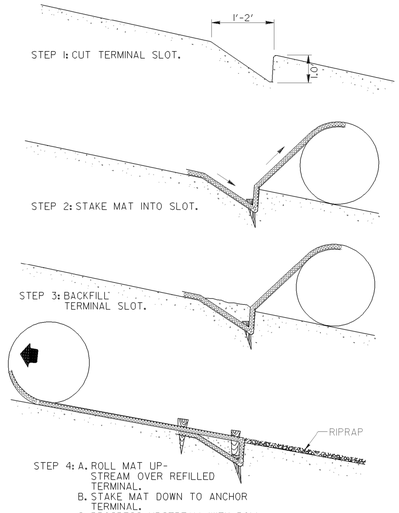
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



UPSTREAM TERMINAL

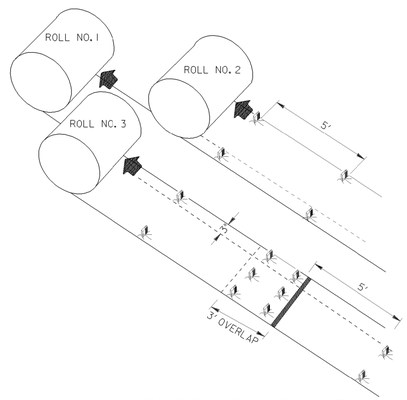


TRANSVERSE CHECK SLOT

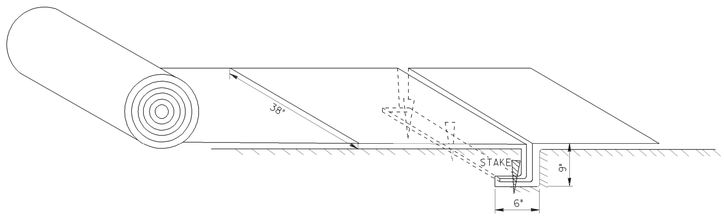


DOWNSTREAM TERMINAL

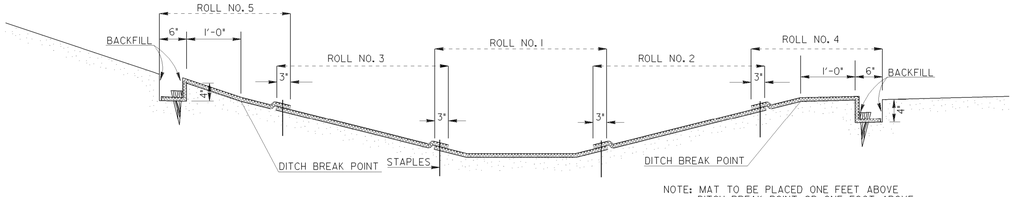
METAL MATTING - BLANKET STAPLE



SEQUENTIAL ROLL RUN OUT IN CHANNELS



PICTORAL VIEW OF TRANSVERSE SLOT



DITCH SECTION

NOTE: MAT TO BE PLACED ONE FEET ABOVE DITCH BREAK POINT OR ONE FOOT ABOVE THE 25 YEAR STORM.

GENERAL NOTES

1. INSTALLATION TO BE DONE AS PER MANUFACTURER'S RECOMMENDATIONS.
2. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
3. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
4. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
5. WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
6. USE 3" OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.
7. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.
8. METAL STAPLES MAY BE USED IN LIEU OF WOODEN STAKES.

DATE	REVISION	BY
1-19-11	REVISED SHEET LAYOUT & ADDED DITCH SECTION. ADDED METAL STAPLE.	T.P.C.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
PERMANENT SOIL REINFORCING MAT
(TURF REINFORCING MATS)
INSTALLATION ON DITCHES

NO SCALE AUGUST 1988

Designed
Drawn K.d.w.b.
Traced
Checked

NUMBER D-35

1/18/2011 9:35:29 AM \\GDOT-DSN1\GOPLOT\OCF\GO_Ktp8000.gcf gowens V:\GARY\Rev. Construction Details\D-35\D-35.prf

7/31/2015 GPLN

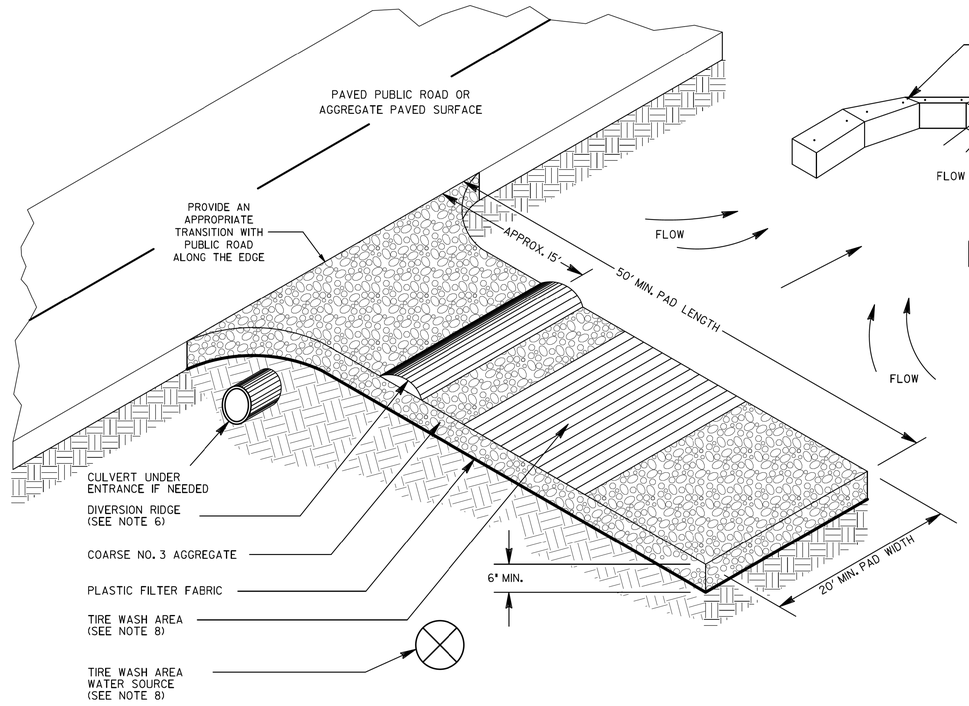
REVISION DATES
10/27/20

EROSION CONTROL CONTRUCTION DETAILS
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER
- PEDESTRIAN BRIDGE

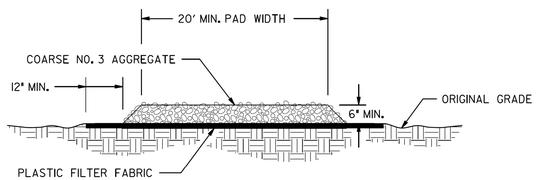
		DATE:		DRAWING No.
CHECKED:		DATE:		56-0005
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

Development Planning & Engineering, Inc.
civil sanitary transportation survey

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



ENTRANCE ELEVATION



GENERAL NOTES:

1. AVOID LOCATING CONSTRUCTION EXITS ON STEEP SLOPES OR AT SHARP CURVES ON PUBLIC ROADS. CONSTRUCTION EXITS ARE NOT REQUIRED FOR DIRT PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA AND GRADE FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE COARSE NO. 3 AGGREGATE WITH 0.0% PASSING THE 1.06 INCH U.S. STANDARD SIEVE.
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND PLACED ON APPROVED PLASTIC FILTER FABRIC.
5. GRAVEL PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. PROVIDE A TRAVERSABLE DIVERSION RIDGE CONSTRUCTED OF AGGREGATE 6 INCHES TO 8 INCHES HIGH WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL CULVERT UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD PRIOR TO ENTERING PUBLIC ROADS, THE CONTRACTOR SHALL ADD A CONSTRUCTION EXIT TIRE WASH ASSEMBLY TO AN EXISTING CONSTRUCTION EXIT WHEN DIRECTED BY THE ENGINEER. THE CONSTRUCTION EXIT TIRE WASH ASSEMBLY INCLUDES: TIRE WASH AREA, WATER SOURCE, AND SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE.

   THE WASHING SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE THAT DRAINS INTO A SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE CONSTRUCTION EXIT TO THE SEDIMENT CONTROL DEVICE. ACCEPTABLE SEDIMENT STORAGE DEVICE EXAMPLES INCLUDE TEMPORARY SEDIMENT TRAPS, HAY BALES OR STONE FILTER RING WITH THE SEDIMENT STORAGE SIZED FOR 67 CUBIC YARDS PER ACRE OF DRAINAGE. TIRE WASHING SHALL BE DONE MANUALLY OR BY EQUIPMENT SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.
9. AGGREGATE SHALL BE KEPT LOOSE OR SCARIFIED WHEN AGGREGATE BECOMES CONSOLIDATED.
10. CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR, AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. MAINTENANCE OF CONSTRUCTION EXIT WILL BE PAID ON THE BASIS OF HAVING OR NOT HAVING A CONSTRUCTION EXIT TIRE WASH ASSEMBLY WHEN DIRECTED BY THE ENGINEER. ALL MUD AND DEBRIS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

   SEE STANDARD SPECIFICATION 163, AND SUPPLEMENTS THERETO FOR THE CONSTRUCTION AND REMOVAL OF CONSTRUCTION EXITS. SEE STANDARD SPECIFICATION 165, AND SUPPLEMENTS THERETO FOR THE MAINTENANCE OF CONSTRUCTION EXITS.

PAY ITEM:

163-0300	CONSTRUCTION EXIT	(EA)
163-0310	CONSTRUCTION EXIT TIRE WASH ASSEMBLY	(EA)
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	(EA)
165-0310	MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH ASSEMBLY	(EA)

BY	DATE	REVISION
DLE	04-18-18	REV. TIRE WASH & NOTES
DLE	04-22-16	REV. GSWCC 2016 MANUAL
TPC	01-19-11	REV. CONSTR. EXIT LABELS

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

CONSTRUCTION EXIT

NO SCALE FEBRUARY 2001

DESIGNED ____ DLE
DRAWN ____
TRACED ____
CHECKED ____

NUMBER D-41

Duluth Capture the Spirit of Good Living | Board of Commissioners of Gwinnett County Georgia | Fulton County | Johns Creek be the exception | dpe Development Planning & Engineering, Inc. civil sanitary transportation survey

REVISION DATES		
10/27/20		

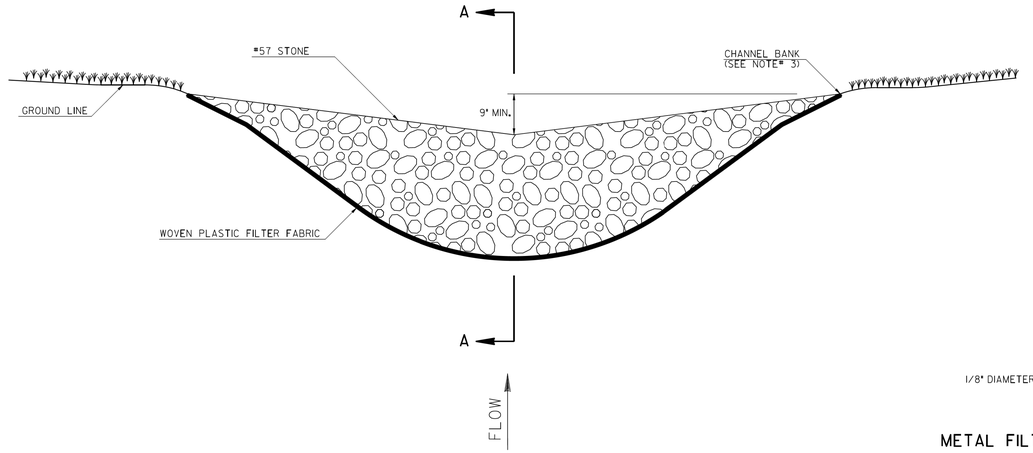
EROSION CONTROL CONTRUCTION DETAILS

ROGERS BRIDGE AT CHATTAHOOCHEE RIVER - PEDESTRIAN BRIDGE

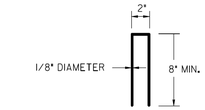
CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0006
CORRECTED:		DATE:		
VERIFIED:		DATE:		

7/31/2015 GPLN

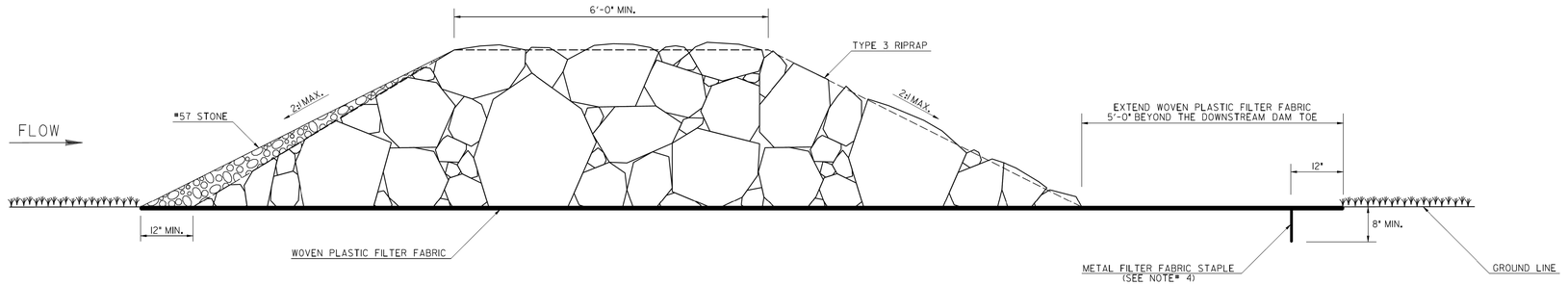
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



SECTION A-A



METAL FILTER FABRIC STAPLE



GENERAL NOTES:

1. THE MAXIMUM DRAINAGE AREA TO A ROCK FILTER DAM SHALL BE 50-ACRES.
2. ROCK FILTER DAMS SHALL NOT BE INSTALLED IN STATE WATERS.
3. THE ROCK FILTER DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS OR ADVERSELY IMPACT UPSTREAM PROPERTY OR STATE WATERS WITH BACKWATER. THE CENTER OF THE ROCK FILTER DAM SHOULD BE AT LEAST 9-INCHES LOWER THAN THE OUTER EDGES OF THE ROCK FILTER DAM AT THE CHANNEL BANKS.
4. ANCHOR THE WOVEN PLASTIC FILTER FABRIC TO THE GROUND SURFACE WITH METAL FILTER FABRIC STAPLES 12-INCHES FROM THE EDGE AND NO GREATER THAN 12-INCHES APART.
5. REMOVE SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE ROCK FILTER DAM. WOVEN PLASTIC FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED OR DETERIORATED.

PAY ITEMS:

163-0541	CONSTRUCT AND REMOVE ROCK FILTER DAM	(EA)
165-0110	MAINTENANCE OF ROCK FILTER DAM	(EA)

DATE	REVISION	BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

ROCK FILTER DAM

NO SCALE 4-22-2016

NUMBER D-43

7/31/2015 GPLN

REVISION DATES
10/27/20

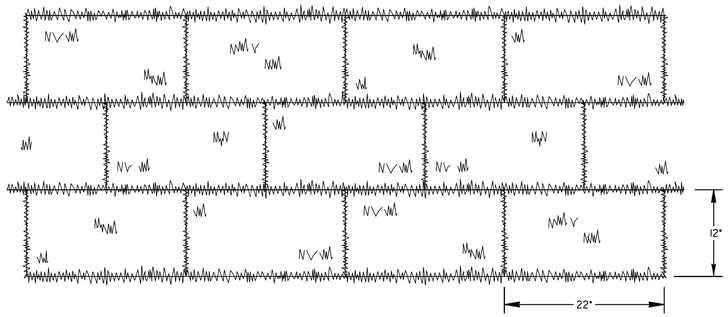
EROSION CONTROL CONTRUCTION DETAILS

ROGERS BRIDGE AT CHATTAHOOCHEE RIVER - PEDESTRIAN BRIDGE

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		56-0007
CORRECTED:		DATE:		
VERIFIED:		DATE:		

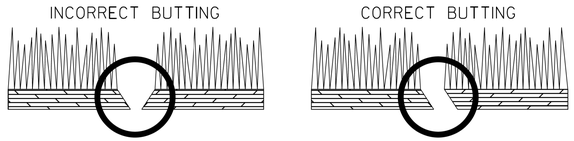
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

SOD LAYOUT

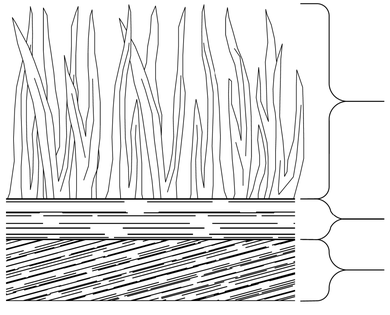


NOTE: SOD MAY BE EITHER 12" WIDE BY 22" LONG BLOCKS OR 21" WIDE BY 52' LONG ROLLS.

ABUTTING SOD



SOD APPEARANCE



GENERAL NOTES:

1. SOD SHALL MEET SECTIONS 700 AND 890 OF THE STANDARD SPECIFICATIONS AND SUPPLEMENTS THERETO. SOD SHALL BE CUT INTO 12"Wx22"L BLOCKS OR 21"Wx52'L ROLLS.
2. PLACE SOD IN A STAGGERED PATTERN ENSURING FIRM CONTACT WITH THE SOIL. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER WITH THE AUTOMATIC SOD CUTTER ANGLES CORRECTLY MATCHED WITHOUT SPACES OR OVERLAP.
3. PLACE THE LONG SIDE OF SOD PERPENDICULAR TO DRAINAGE FLOW IF INSTALLED IN DITCHES.
4. STAKE SOD PLACED IN DITCHES OR SLOPES STEEPER THAN 2:1 OR ANY OTHER AREAS WHERE SOD SLIPPING MAY OCCUR. USE WOOD STAKES THAT ARE A MINIMUM OF 8" LONG AND A MAXIMUM OF 1" WIDE. DRIVE STAKES FLUSH WITH THE TOP OF SOD AND USE A MINIMUM OF 8 STAKES PER SQUARE YARD TO HOLD SOD IN PLACE.
5. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.
6. WATER THE SOD IMMEDIATELY AFTER INSTALLATION AND WATER TO A DEPTH OF 4" AS NEEDED.
7. MOW ESTABLISHED SOD TO A HEIGHT NOT LESS THAN 2"-3" AS NECESSARY.

PAY ITEM:
700-9300 SOD (SY)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

SOD INSTALLATION

NO SCALE 4-22-2016

DESIGNED
DRAWN DLE
TRACED
CHECKED

NUMBER D-54

REVISION DATES
10/27/20

EROSION CONTROL CONTRUCTION DETAILS
ROGERS BRIDGE AT CHATTAHOOCHEE RIVER
- PEDESTRIAN BRIDGE

		DATE:		DRAWING No.
CHECKED:		DATE:		56-0008
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

7/31/2015 GPLN