RELEASED FOR CONSTRUCTION - 1/19/2016

TEMPORARY SEDIMENT BASIN DETAILS:

SEDIMENT BASINS ARE NOT UTILIZED ON THIS PROJECT BECAUSE THE LIMITED WORK AREA AVAILABLE IN THE MEDIAN IS NOT SUFFICIENT TO CONSTRUCT AND REMOVE A SEDIMENT BASIN.

USE OF ALTERNATIVE AND/OR ADDITIONAL BMPS:

No alternative or additional BMPs will be used on this project.

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

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an 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).

STREAM AND OPEN-WATER BUFFER ENCROACHMENTS

Stream Buffers, as defined by O.C.G.A. 12-7-1, are not 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 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:

Name or Number of Stream or Other Water Body Type	Location of Buffered Streams and State Waters**			Stream Type (Warm/Cold Water)*	Buffer Impacted? (Yes/No)	Buffer Variance Required? (Yes/No)
	Stream Alignment	Begin Station and Offset	End Station and Offset			
PS 2/Sawnee Creek	SR 400/US 19	632+51, LT	633+85, RT	Warm	Yes	No
IS 26	SR 400/US 19	364+50, LT	364+65, LT	Warm	No	No
IS 27	SR 400/US 19	378+31, LT	378+83, LT	Warm	No	No
PS 28	SR 400/US 19	380+03, RT	380+54, RT	Warm	No	No
Open Water (OW) 29	SR 400/US 19	394+82, RT	396+30, RT	Warm	No	No
PS 30a	SR 400/US 19	Outside Limits	Outside Limits	Warm	No	No
PS 30c	SR 400/US 19	397+06, RT	397+94, RT	Warm	No	No
PS 31	SR 400/US 19	394+18, LT	394+75, LT	Warm	No	No
PS 32b	SR 400/US 19	399+51, RT	407+76, RT	Warm	No	No
PS 33 / Sawmill Branch	SR 400/US 19	407+80, RT	411+84, LT	Warm	No	No
IS 34	SR 400/US 19	401+78, LT	403+51, LT	Warm	No	No
PS 35b	SR 400/US 19	409+56, LT	410+39, LT	Warm	No	No
PS 36	SR 400/US 19	427+01, LT	430+57, RT	Warm	No	No
IS 39	SR 400/US 19	498+45, RT	498+91, RT	Warm	No	No
PS 41	SR 400/US 19	502+71, LT	504+76, RT	Warm	No	No
PS 42	SR 400/US 19	521+19, LT	522+12, RT	Warm	No	No
PS 43	SR 400/US 19	521+30, LT	523+57, LT	Warm	No	No
PS 45	SR 400/US 19	540+14, LT	542+94, RT	Warm	No	No
IS 46	SR 400/US 19	Outside Limits	Outside Limits	Warm	No	No
PS 47	SR 400/US 19	548+30, RT	550+40, RT	Warm	No	No
PS 48	SR 400/US 19	553+40, LT	559+75, LT	Warm	No	No
IS 50	SR 400/US 19	Outside Limits	Outside Limits	Warm	No	No
PS 52	SR 400/US 19	Outside Limits	Outside Limits	Warm	No	No
PS 53	SR 400/US 19	593+69, RT	593+89, RT	Warm	No	No
PS 54	SR 400/US 19	610+62, RT	612+69, RT	Warm	No	No
IS 55	SR 400/US 19	622+88, RT	623+90, RT	Warm	No	No
PS 56	SR 400/US 19	646+70, RT	656+92, RT	Warm	No	No
PS 57	SR 400/US 19	647+34, RT	648+21, RT	Warm	No	No
PS 59	SR 400/US 19	650+11, RT	651+09, RT	Warm	No	No
IS 60	SR 400/US 19	651+07, RT	651+49, RT	Warm	No	No
PS 64	SR 400/US 19	694+49, LT	697+90, RT	Warm	No	No
PS 67	SR 400/US 19	713+01, RT	713+69, RT	Warm	No	No
PS 68	SR 400/US 19	712+86, LT	714+52, RT	Warm	No	No
PS 69	SR 400/US 19	722+89, RT	725+79, LT	Warm	No	No
IS 70	SR 400/US 19	Outside Limits	Outside Limits	Warm	No	No
PS 71	SR 400/US 19	748+47, RT	752+23, LT	Warm	No	No
IS 72	SR 400/US 19	768+94, LT	771+84, LT	Warm	No	No
PS 73	SR 400/US 19	771+84, LT	781+04, LT	Warm	No	No
PS 74 / Bald Ridge Creek	SR 400/US 19	781+51, LT	791+58, RT	Warm	No	No
PS 76	SR 400/US 19	786+63, RT	796+25, RT	Warm	No	No

(Describe the Allowable activities and/or restrictions within the buffer and approximate location of impacts.)

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

SAMPLING 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, geotechnical soil survey, 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 70.18 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 (mi2)	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
3	360+56, 91 ft RT	James Creek	All	Outfall	0.48	1.01	Warm	50	N/A	End of Pipe	Road Widening	1.01	0.022	Low	1, 2, 4
6	395+49, 98 ft RT	Sawmill Branch	All	Outfall	1.04	2.35	Warm	50	N/A	End of Pipe	Road Widening	2.35	0.058	Low	5
10A Up	407+85, 128 ft RT	Sawmill Branch	All	Receiving Water	1.04	N/A	Warm	N/A	25	Upstream	Road Widening	0.66	0.025	Low	7, 8, 9, 11, 12
10A Down	410+38, 118 ft LT	Sawmill Branch	All	Receiving Water	1.04	0.66	Warm	N/A	25	Downstream	Road Widening	0.66	0.025	Low	7, 8, 9, 11, 13
13	450+33, 140 ft RT	Daves Creek	All	Outfall	0.32	0.65	Warm	50	N/A	End of Pipe	Road Widening	0.65	0.018	Low	14, 15A, 16, 17
18	474+76, 540 ft RT	Little Ridge Creek	All	Outfall	1.01	5.15	Warm	50	N/A	End of RCBC	Road Widening	5.15	0.027	Low	25A
25B	524+26, 136 ft RT	Little Ridge Creek	All	Outfall	1.01	0.77	Warm	50	N/A	End of Pipe	Road Widening	0.77	0.095	Low	19, 20, 21, 22, 23, 24
27	552+53, 180 ft LT	Lake Lanier	All	Outfall	14.09	2.04	Warm	50	N/A	End of Pipe	Road Widening	2.04	0.059	Low	26A, 26B, 28
29	580+53, 536 ft RT	Lake Lanier	All	Outfall	14.09	1.64	Warm	50	N/A	End of Pipe	Road Widening	1.64	0.046	Low	30A, 31
32	610+63, 121 ft RT	Sawnee Creek	All	Outfall	4.91	2.04	Warm	50	N/A	End of Pipe	Road Widening	2.04	0.125	Low	41
33A	623+21, 140 ft RT	Sawnee Creek	All	Outfall	4.91	1.60	Warm	50	N/A	End of Pipe	Road Widening	1.60	0.042	Low	
35	635+48, 172 ft RT	Sawnee Creek	All	Outfall	4.91	0.83	Warm	50	N/A	End of Pipe	Road Widening	0.83	0.063	Low	33B, 34, 36, 37, 38, 39
40	657+02, 164 ft RT	Sawnee Creek	All	Outfall	4.91	3.90	Warm	50	N/A	End of Pipe	Road Widening	3.90	0.149	Low	
46B	748+63, 171 ft RT	Baldridge Creek	All	Outfall	5.25	0.83	Warm	50	N/A	End of Pipe	Road Widening	0.83	0.051	Low	42B, 45, 46A, 48A, 49
47 Up	786+75, 113 ft LT	Baldridge Creek	All	Receiving Water	5.25	N/A	Warm	N/A	25	Upstream	Road Widening	4.32	0.025	Low	42A, 43A, 43B, 44, 48B
47 Down	781+57, 193ft RT	Baldridge Creek	All	Receiving Water	5.25	4.32	Warm	N/A	25	Downstream	Road Widening	4.32	0.025	Low	42A, 43A, 43B, 44, 48B

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.

WATER QUALITY INSPECTING AND SAMPLING PROCEDURES

See Special Provision 167 and other contract documents for the inspecting and sampling procedures.

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".

INFRASTRUCTURE CONSULTING & ENGINEERING

NTS

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE DELIVERY
ESPCP GENERAL NOTES

DRAWING No. 51B-002