

REVISED JANUARY 16, 2014

**ESPCP GENERAL NOTES:**

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

Erosion & 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.

**PLAN ALTERATIONS**

The Erosion, Sedimentation, and Pollution Control Plan (ESPCP) is provided by the Department. It 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 of the contract.

The Contractor, the Certified Design Professional and the WECS shall carefully evaluate this plan prior to commencing land disturbing activities. A major modification or deletion of structural BMP's with a hydraulic component requires a formal revision of the the ESPCP and the signature of a GSWCC level-II-certified design professional. Additional BMP's may be added per Special Provision 161 - Control of Soil Erosion and Sedimentation.

**TEMPORARY MULCHING**

EPD General Permit GAR 100002 states that any disturbed area where construction activities have temporarily or permanently ceased shall be stabilized within 14 days of such cessation as soon as practicable with a suitable material listed in Standard Specification (or Special Provision) Sections 163, 700, or 711. However in special cases, the Project Engineer may require the contractor to perform stabilization more often than 14 days.

**VEGETATION AND PLANTING SCHEDULE**

All temporary and permanent vegetative practices including plant species, planting dates, seeding, fertilizing, liming and mulching 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.

**SEQUENCE OF MAJOR ACTIVITIES**

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 with the NOI. A copy of the construction schedule shall be maintained at the project site.

The project budget includes sufficient funds for the payment of construction exists. The contractor is responsible for establishing at least one (1) construction exit per the specifications of the construction exit detail included in this ESPCP. To facilitate project logistics, the Contractor is also responsible for selecting the location(s) of the construction exit(s).

The staged erosion control for this project will consist of 4 stages. They are Stage 1A (Initial), Stage 1, Stage 2 and Final. Stage 1A will consist of a minimum all perimeter silt fence for the project to be installed prior to any clearing operations per the Stage 1A BMP Location Details. Stage 1 will consist of a minimum ditch checks, inlet sediment traps, rip-rap, temporary grassing and temporary mulch, as shown on the Stage 1 BMP Location Details. Stage 2 will consist of a minimum ditch checks, inlet sediment traps, rip-rap, temporary grassing and temporary mulch as shown on the Stage 2 BMP Location Details. The final stage will consist of, at a minimum, all permanent grassing and vegetation, slope mats, rip-rap and permanent stabilization of the site per the details of the Final Stage BMP Location Details.

**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 BMP's needed for onsite storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GARIO0002 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.

**SOIL SERIES INFORMATION**

A project specific soil survey and geotechnical investigation was performed for this project and can be made available upon request. Soil characteristics have been given full consideration in the hydrologic analysis, the design of channels and linings, selection of temporary BMP's, design of energy dissipaters, and in the selection of permanent vegetation and fertilizers.

**POST-CONSTRUCTION BMP'S**

All permanent, post-construction BMP's for stormwater management are shown in the construction plans and in ESPCP plan. The post construction BMP's for this project may consist of vegetation, rip-rap at pipe outlets for velocity dissipation and outlet stabilization, and vegetated swales/ditches where practical. The post construction BMP's will provide permanent stabilization and of the site and prevent abnormal transportation of sediment and pollutants into receiving waters.

**SILT FENCE INSTALLATIONS 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.

**SITE STABILIZATION AND BMP MAINTENANCE MEASURES**

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

**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. Solid materials, including building materials, shall not be discharged to Waters of the State, unless authorized by a Section 404 Permit.

**INSPECTIONS**

The primary permittee (Georgia Department of Transportation) 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 BMP's within seven (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 BMP's for the initial segment, as defined by Part IV.A.5 of the current GARIO0002 Permit, within seven (7) days of installation and all sediment basins within the entire linear infrastructure project seven (7) days of installation. The inspecting design professional shall report the results to the primary permittee within seven (7) days, and the permittee must correct all deficiencies within two (2) business days of the receipt of the inspection report, unless on-site weather conditions are such that more time is required. Additionally, the City's construction Project Engineer will be responsible for all subsequent seven-day inspections for all new BMP installations.

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

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.

**NONSTORMWATER DISCHARGES**

Non-storm water 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 from washout and cleanout of containers for stucco, paint, concrete-form release oils, curing compounds and other construction materials.

**DE-WATERING 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 GARIO0002 NPDES permit by utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

**OTHER CONTROLS**

The contractor shall follow this ESPCP and ensure and demonstrate compliance with applicable State and/or local regulations for waste disposal, sanitary sewer or septic system 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.

**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 GARIO0002.

**SEDIMENT STORAGE**

The site has a total disturbed area of 41.74 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 (cu yd)	Total Storage volume provided (cu yd)	Sediment Basins		Check Dam (1.05 cu yd each)		Inlet sediment Traps (1.5 cu yd each)		Silt Fence (0.3 cu yd/ft)	
					Pond *	Total Volume (cu yd)	* of Devices	Total Volume (cu yd)	* of Devices	Total Volume (cu yd)	Length of Fence (ft)	Total Volume (cu yd)
DA 1 LT	5.43	3.54	364	1311.5	-	-	-	-	21	31.5	4267	1280
DA 2 RT	3.20	1.99	214	909	-	-	-	-	10	15	2979	894
DA 3 RT	6.47	3.29	434	1025	-	-	-	-	22	33	3307	992
DA 4 RT	3.22	1.39	216	424.5	-	-	-	-	7	10.5	1380	414
DA 5 RT	2.71	0.95	182	383	-	-	-	-	4	6	1257	377
DA 6 RT	1.86	0.91	125	216.5	-	-	-	-	9	13.5	679	203
DA 7 RT	5.64	3.19	378	610	-	-	10	10.5	17	25.5	1914	574
DA 8 RT	12.54	8.54	841	2414.5	-	-	-	-	43	64.5	7836	2350
DA 9 RT	5.41	2.74	363	833	-	-	-	-	24	36	2659	797
DA 10 RT	5.67	3.66	381	1270	-	-	-	-	32	48	4076	1222
DA 11 RT	5.01	3.17	336	929	-	-	-	-	24	36	2977	893
DA 12 LT	6.65	3.94	446	1262	-	-	-	-	22	33	4101	1229
DA 13 RT	10.08	4.43	675	1712	-	-	-	-	34	51	5537	1661

In order to prevent runoff from bypassing inlet sediment traps, a temporary sump shall be installed around all inlet sediment traps that are not located in a low point or an excavated sump. Construct temporary sumps in accordance with Construction Detail D-24C. Temporary sumps shall be installed in a manner that ensures stormwater does not bypass the inlet. The contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

**TEMPORARY SEDIMENT BASINS:**

DA 1 LT - There is no practical location to place a sediment basin for this outfall that will allow the basin to function properly or not outfall into a wetland. Due to the existing grades a sediment basin cannot be outfallled. The storm water for this outfall consists of water from a short run of ditch that will be protected at a minimum with vegetation and check dams. The outfall will be protected with check dams, inlet sediment traps, rip-rap and temporary grassing and mulch. Although these measures provide the required storage and a sediment basin cannot be used, other measures such as slope mats and dust control.

DA 2 RT - There is no practical location to place a sediment basin for this outfall that will allow the basin to function properly or not outfall into a wetland. Due to the existing grades a sediment basin cannot be outfallled. The storm water for this outfall consists of water from a short run of ditch that will be protected at a minimum with vegetation and check dams. The outfall will be protected with check dams, inlet sediment traps, rip-rap and temporary grassing and mulch. Although these measures provide the required storage and a sediment basin cannot be used, other measures such as slope mats and dust control.

DA 3 RT - There is no practical location to place a sediment basin for this outfall that will allow the basin to function properly or not outfall into a wetland. Due to the existing grades a sediment basin cannot be outfallled. The storm water for this outfall consists of water from a short run of ditch that will be protected at a minimum with vegetation and check dams. The outfall will be protected with check dams, inlet sediment traps, rip-rap and temporary grassing and mulch. Although these measures provide the required storage and a sediment basin cannot be used, other measures such as slope mats and dust control.

DA 4 RT - There is no practical location to place a sediment basin for this outfall that will allow the basin to function properly or not outfall into a wetland. Due to the existing grades a sediment basin cannot be outfallled. The storm water for this outfall consists of water from a short run of ditch that will be protected at a minimum with vegetation and check dams. The outfall will be protected with check dams, inlet sediment traps, rip-rap and temporary grassing and mulch. Although these measures provide the required storage and a sediment basin cannot be used, other measures such as slope mats and dust control.

DA 5 RT - There is no practical location to place a sediment basin for this outfall that will allow the basin to function properly or not outfall into a wetland. Due to the existing grades a sediment basin cannot be outfallled. The storm water for this outfall consists of water from a short run of ditch that will be protected at a minimum with vegetation and check dams. The outfall will be protected with check dams, inlet sediment traps, rip-rap and temporary grassing and mulch. Although these measures provide the required storage and a sediment basin cannot be used, other measures such as slope mats and dust control.

**THOMAS & HUTTON ENGINEERING Co.**



**REVISION DATES**

04/03/2014			

STATE OF GEORGIA  
DEPARTMENT OF TRANSPORTATION

OFFICE: PROGRAM DELIVERY

**ESPC GENERAL NOTES**

S. R. 119 LIBERTY CO.

DRAWING No.  
**51-001**