

**ESPCP GENERAL NOTES**

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

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

**PLAN ALTERATIONS**

The Erosion, Sedimentation, 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 with 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 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 Genral Permit GARI00002 states, "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding". However, the Department typically requires disturbed areas to be stabilized every 7 days. The construction documents, special provisions, or specifications may require mulching more often than every 7 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 the project shall be submitted after the project is awarded with the NOT. A copy of the construction schedule shall be maintained at the project site.

- I. Initial BMPs - Install the following BMPs prior to construction
  - A. Install orange barrier fence as shown on plans.
  - B. Install silt gates around existing drainage structures as shown on plans.
  - C. Concurrent with clearing and grubbing, install perimeter silt fence and install inlet sediment traps.
  - D. Install riprap as shown on Stage 1 plans.
  - E. As ditches are being constructed install check dams as shown in plans.
- II. Intermediate BMPs - While earthwork is progressing do the following:
  - A. Install and maintain positive drainage to temporary down drains as shown in plans.
  - B. As drainage structures are being constructed, adjust perimeter silt fence and install inlet sediment traps.
  - C. Install riprap as shown on Stage 1 plans.
  - D. As ditches are being constructed install check dams as shown in plans.
- III. Final BMP's As soon as final grade has been established in an area of the project, install the following:
  - A. Permanent grassing
  - B. Slope mats

The project budget includes sufficient funds for the payment of construction exits. 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).

**PETROLEUM STORAGE, SPILLS AND LEAKS**

These plans expressly delegate the responsibility of 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 materials leak 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 onsite storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GARI00002 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 the selection of permanent vegetation and fertilizers.

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

Map Unit Symbol	Map Unit Name	Percent OF AOI	HARZARD OF OFF-ROAD OR OFF-TRAIL EROSION	
			RATING CLASS AND LIMITING FEATURES	VALUE
AmB	Appling sandy loam, 2 to 6 percent slopes	2.4%	Slight	
AmC	Appling sandy loam, 6 to 10 percent slopes	2.0%	Slight	
AmD	Appling sandy loam, 10 to 15 percent slopes	0.9%	Slight	
CeB	Cecil sandy loam, 2 to 6 percent slopes	5.9%	Slight	
CeC	Cecil sandy loam, 6 to 10 percent slopes	9.2%	Slight	
CeD	Cecil sandy loam, 10 to 15 percent slopes	6.5%	Slight	
CfC2	Cecil sandy clay loam, 6 to 10 percent slopes, eroded	6.1%	Slight	
CfD2	Cecil sandy clay loam, 10 to 15 percent slopes, eroded	5.8%	Slight	
CuC	Cecil-Urban land complex, 2 to 10 percent slopes	0.8%	Slight	
DgB	Davidson loam, 2 to 6 percent slopes	0.7%	Slight	
GwC2	Gwinnett sandy clay loam, 6 to 10 percent slopes, eroded	1.5%	Slight	
GwD2	Gwinnett sandy clay loam, 10 to 15 percent slopes, eroded	0.7%	Slight	
LoF	Louisa gravelly fine sandy loam, 15 to 40 percent slopes	2.0%	Moderate Slope/erodibility	0.50
MdB	Madison gravelly sandy loam, 2 to 6 percent slopes	2.7%	Slight	
MdC	Madison gravelly sandy loam, 6 to 10 percent slopes	5.9%	Slight	
MdE	Madison gravelly sandy loam, 15 to 25 percent slopes	3.9%	Moderate Slope/erodibility	0.50
MfC2	Madison gravelly sandy clay loam, 6 to 10 percent slopes, eroded	2.7%	Slight	
MfD2	Madison gravelly sandy clay loam, 10 to 15 percent slopes, eroded	8.5%	Slight	
MwE	Musella stony clay loam, 10 to 25 percent slopes	0.6%	Moderate Slope/erodibility	0.50
PgD2	Pacolet sandy clay loam, 10 to 15 percent slopes, eroded	2.1%	Slight	
PgE2	Pacolet sandy clay loam, 15 to 25 percent slopes, eroded	6.3%	Moderate Slope/erodibility	0.50
PUF	Pacolet soils, 15 to 40 percent slopes	2.3%	Moderate Slope/erodibility	0.50
Rh	Riverview loam	2.1%	Slight	
RK	Riverview-Chewacla association	8.7%	Slight	
WEE	Wedowee soils, 10 to 25 percent slopes	1.1%	Moderate Slope/erodibility	0.50

Due to the size and scope of this project and the nature of soil series maps, it is not reasonably practical to delineate the precise locations of the above listed soils on the construction plans. The NRCS soil survey and soil series maps for the project site are also available online at <http://websoilsurvey.nrcs.usda.gov/>.

**POST-CONSTRUCTION BMP'S FOR STORMWATER MANAGEMENT**

All permanent, post-construction BMP's are shown in the construction plans and in the ESPCP plan. The post-construction BMP's for this project consist of vegetation, permanent flumes, rip-rap at pipe outlets for velocity dissipation and outlet stabilization, vegetated swales/ditches where practical, and channel/ditch stabilization with turf-reinforcing mats, rip-rap, and concrete ditch lining where necessary. The post-construction BMP's will provide permanent stabilization of the site and prevent abnormal transportation of sediment and pollutants into receiving waters.

**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 placed 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 J hook immediately upgradient. J hooks shall be paid for as silt fence items per linear foot. All cost and other incidental items are included in the 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, 710 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 all applicable state and local waste storage and disposal regulations and obtain all necessary permits. Solid materials, including building materials, shall not be deposited into Waters of the State, unless authorized by a Section 404 Permit.

**INSPECTIONS**

All 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.

By agreement with Georgia EPD, the Department's Construction Project Engineer has been designated to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within seven days after installation.

**NONSTORM WATER DISCHARGES**

Nonstorm 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.

**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 GARI00002 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 waste disposal, sanitary sewer or septic system regulations.

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**

In accordance with Part IV.F of the General Permit GARI00002, the Department will retain all records related to the implementation of this ESPCP for the duration of the project.

<p><b>GEORGIA</b> DEPARTMENT OF TRANSPORTATION</p>				<p>REVISION DATES</p> <table border="1" style="width: 100%; height: 100px;"> <tr><td> </td><td> </td><td> </td></tr> </table>																																		<p>STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: ROADWAY DESIGN <b>ESPCP GENERAL NOTES</b></p>
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