

REVISED JUNE 2012
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, or concurrent with, 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.

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 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 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 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.

NON-STORM WATER 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.

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

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 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 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.

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.

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 the cost of installing and maintaining the silt fence.

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

All inspections shall be documented on the appropriate Department Inspection forms. See Standard Specification (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 will be responsible for the seven day inspections required for new BMP installations.

STREAM BUFFER ENCROACHMENT

Stream Buffers are impacted by this project. 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	Ending Station and Offset			
STREAM #4	N/A	STA.79+35.72	STA. 79+94.78	WARM	YES	NO

Construction activities shall consist of the construction of onsite detours and minor roadway widening as well as the placement of erosion control items. All work shall be done in accordance with the GDOT Standard Specifications, current edition.

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.

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 slope drains and/or flumes, rip-rap at pipe outlets for velocity dissipation and outlet stabilization, vegetated swales/ditches where practical, channels/ditch stabilization with Turf Reinforcing Mats, and rip-rap 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.

MAINTENANCE AND STABILIZATION MEASURES
See Special Provision 161 and 700 and other contract documents for maintenance and stabilization measures.

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 Specifications.

STA 13+43.92 :The disturbance activities for this location consist of minor grading associated with the roadway construction. BMP's as shown on the erosion control plans will be adequate to control sediment runoff at this location, the following BMP's will be utilized 1. Check dams, 2. silt fence 3. slope mats

STA 24+71.88 :The disturbance activities for this location consist of minor grading associated with the roadway construction. BMP's as shown on the erosion control plans will be adequate to control sediment runoff at this location, the following BMP's will be utilized 1. Check dams, 2. silt fence 3. slope mats

STA 34+38.63 :The disturbance activities for this location consist of minor grading associated with the roadway construction. BMP's as shown on the erosion control plans will be adequate to control sediment runoff at this location, the following BMP's will be utilized 1. Check dams, 2. silt fence 3. slope mats

STA 40+18.60 :The disturbance activities for this location consist of minor grading associated with the roadway construction. BMP's as shown on the erosion control plans will be adequate to control sediment runoff at this location, the following BMP's will be utilized 1. Check dams, 2. silt fence 3. slope mats

STA 44+36.95 :The disturbance activities for this location consist of minor grading associated with the roadway construction. BMP's as shown on the erosion control plans will be adequate to control sediment runoff at this location, the following BMP's will be utilized 1. Check dams, 2. silt fence 3. slope mats

STA 47+33.43 :The disturbance activities for this location consist of minor grading associated with the roadway construction. BMP's as shown on the erosion control plans will be adequate to control sediment runoff at this location, the following BMP's will be utilized 1. Check dams, 2. silt fence 3. slope mats

STA 51+93.81 :The disturbance activities for this location consist of minor grading associated with the roadway construction. BMP's as shown on the erosion control plans will be adequate to control sediment runoff at this location, the following BMP's will be utilized 1. Check dams, 2. silt fence 3. slope mats

STA 61+56.48 :The disturbance activities for this location consist of minor grading associated with the roadway construction. BMP's as shown on the erosion control plans will be adequate to control sediment runoff at this location, the following BMP's will be utilized 1. Check dams, 2. silt fence 3. slope mats

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

- Phase 1 - Clearing and Grubbing Operations**
- a. - The contractor shall install silt fence, type C at the base of all fill slopes and along stream buffer perimeters prior to land disturbing activities. In areas where silt fence is not feasible such as parking lots etc, baled straw shall be used.
 - b. - Orange Barrier fence shall be installed as per the Environmental Commitments Sheet.
 - c. - Construction exits shall be installed prior to equipment entering the roadway.
 - d. - All disturbed areas shall be mulched in accordance with GDOT Standard Specifications and the Erosion Control Plan.

- Phase 2 - Grading Operations - Drainage Installation**
- a. - Installing Pipes: Ensure that additional BMP's are installed as per the erosion control plans prior to extending or replacing existing pipes.
 - b. - Grading Ditches and Slopes: As ditches are graded, install silt fence check dams in accordance with the Erosion Control Plans. Mulch all slopes as per GDOT specifications and the Erosion Control Plans. Install all required Erosion Control Mats once slopes are constructed to finished grade. Mulch and seed grass in accordance with the GDOT Standard Specifications.

- Phase 3 - Paving Operations**
- a. - Paving Widened Roadway- Once the pavement has been constructed to the proposed width, temporary and permanent vegetative practices shall be implemented in order to prevent silt from leaving the site in accordance with notes found in the ESPCP General Notes.

- Phase 4 - Removal of Temporary Items**
- a. - All temporary erosion control items shall be removed once acceptable ground cover has been established.

			REVISION DATES 10-21-08	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: DISTRICT 2 TENNILLE ESPCP GENERAL NOTES SR #47 PASSING LANES SOUTH OF LINCOLNTON PROJECT STP00-0076-01(029) COUNTY LINCOLN	DRAWING No. 51-01
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