

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 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.

PLAN ALTERATIONS

The Erosion Sedimentation and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project based on common construction methods and techniques. If the Contractor elects to alter the stage 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 fertilizer, lime and mulching rates for this project can be found in section 700 of the current edition of the Department's specifications and other applicable contract documents, special provisions, or landscaping plans.

ALTERNATIVE BMPs

Alternative BMPs are not used on this project. Silt Gates are used on this project as additional BMPs at pipe inlets and are not being used in place of or as a substitute for other conventional BMPs. Temporary check dams are used in ditches to provide interim stabilization and flow velocity reduction. The stability of the site is maintained with other conventional BMPs as shown on the plans. This ESPCP would be fully compliant with permit requirements if the silt gates were removed and as a result are not considered alternative BMPs when used on this project. The silt gates help to prevent pipe clogging during construction that can result from the ingestion of sediments and other large debris like rip rap, sand bags, roadway debris and other construction materials that when combined with sediments easily clog roadway drainage pipes.

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.

Best Management Practices (BMPs) shall apply to this project. They shall provide effective erosion prevention and sedimentation control. If possible, existing vegetation on construction site should be maintained. This project and its execution shall comply with the General Permit No. GAR1000002 in accordance to the provisions of the Georgia Water Quality Control Act (1964, p. 416, as amended) and the Rules and Regulations promulgated pursuant to each of these Acts. All BMPs shall be placed as shown on plans and must be implemented in three phases:

Phase 1: Site Preparation.
 This phase relates to all activities prior to construction activities and shall be implemented in two sub-phases, according to the following order:

A. Installation of temporary silt fences and baled straw erosion checks. Minor clearing and grubbing shall be allowed only to the extent necessary to the installation of the silt fence and baled straw.

B. Placing construction exits: construction exits shall provide stable access to the site.

Phase 2: Intermediate or construction activities.
 During this phase, clearing and grubbing, and mass grading operations take place. BMPs should be installed and maintained as practical as possible during this phase. If possible, permanent BMPs should be installed on areas where final grades have been attained. This phase consists of three stages and is implemented in the following order:

Stage 1: The following erosion control items must be installed as shown on plans:

Code	Description	Code	Description
Ds1	Mulch	Ds2	Temporary grass
Cd-F	Fabric Check Dam	Rp	Riprap
Co	Construction Exit	Sd1-C	Silt Fence Type C

Stage 2: The following erosion control items must be installed as shown on plans:

Code	Description	Code	Description
Ds1	Mulch	Ds2	Temporary Grass
Mb	Erosion Control Mat	Dn1	Down Drain Structure Flexible
Sg-3	Silt Control Gate - Type 3		

Stage 3: The following erosion control items must be installed as shown on plans:

Code	Description	Code	Description
Ds1	Mulch	Ds2	Temporary Grass

Phase 3: Post-construction activities: see post-construction BMPs section

PETROLEUM STORAGE, SPILLS AND LEAKS

The plans provided herein do not anticipate the storage of petroleum products onsite. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture and disposal of any petroleum product leaks or spills associated with the servicing, refueling or operation of any equipment utilized in the work. 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 this 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 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.

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 in 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	Rating	Component Name (Percent)	Rating Reasons (Numeric Values)
CnA	Chenneby silt loam, 0 to 2 percent slopes, occasionally flooded	Slight	Chenneby (95%)	
			Ketona (5%)	
CuC	Conasauga-Urban land complex, 2 to 10 percent slopes	Moderate	Conasauga (75%)	Slope/erodibility (0.50)
			Docena (48%)	Slope/erodibility (0.50)
DsB	Docena-Conasauga complex, 2 to 6 percent slopes	Moderate	Conasauga (47%)	Slope/erodibility (0.50)
			Montevallo (60%)	Slope/erodibility (0.50)
MtD	Montevallo-Townley complex, 6 to 15 percent slopes	Moderate	Montevallo (60%)	Slope/erodibility (0.50)
SeA	Shellbluff silt loam, 0 to 2 percent slopes, occasionally flooded	Slight	Shellbluff (95%)	
			Ketona (5%)	
TrC	Townley-Urban land complex, 2 to 15 percent slopes	Severe	Townley (60%)	Slope/erodibility (0.95)

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

The Department will retain records in accordance with Part IV.F of General Permit GAR100002

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GEORGIA DEPARTMENT OF TRANSPORTATION	REVISION DATES	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION
		OFFICE: DISTRICT SIX - ROAD DESIGN
		ESPC GENERAL NOTES
		CR 19 / OLD FEDERAL RD GRADE SEPARATION AT CSX RAILROAD
		DRAWING No. 51-01