

REVISED AUGUST 2008
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. If the Contractor elects to alter the stage construction from that shown in the plans, and the Engineer approves the request, it will be the responsibility of the contractor to revise the ESPCP to reflect all changes in stage construction. This will also include any revision to the erosion and sedimentation control item quantities. A single copy of the amended plan shall be submitted to the appropriate EPD District Office.

Major modification or deletion of structural BMP's that are specified in the ESPCP will require a formal revision of the ESPCP and the signature of a GSWCC level-II-certified design professional. Additional BMP's may be added as directed by the Engineer.

TEMPORARY MULCHING

EPD General Permit GAR 100002 requires "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding." - The Department typically requires disturbed areas to be stabilized every 7 days. The construction documents, special provisions, or Specification 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.

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.

Stage 1A:

Initial BMP Installation:

The work includes clearing and grubbing of the project and initial BMP installations necessary to construct the proposed Stage 1 improvements.

1. Concurrent with Clearing and Grubbing activities, install the following BMPs:

- a. Perimeter Silt Fence Controls
- b. Orange Barrier Fence around ESA Sites and Stream Buffer Locations
- c. Construction Exits
- d. Ditch Checks along existing ditches
- e. Inlet Sediment Traps at existing inlets and catch basins
- f. Silt Gates at existing culvert outlets
- g. Construct Sediment Basins

Final BMP Installation:

- 1. Construct/Grade ditches that will drain into the Stage 1 Sediment Basins
- 2. Apply temporary grassing and mulch to disturbed areas as required by special provisions.

Stage 1:

Intermediate BMP Installation:

Construction of detours, proposed bridges, roadway, and drainage improvements along the West Rome Bypass Corridor and side streets throughout the project limits:

- 1. Maintain Stage 1A Initial BMP Installations.
- 2. Maintain temporary berms and ditches to drain into sediment basins as improvements are constructed.
- 3. Immediately after final grading activities are completed, install silt fence, baled hay, and ditch checks.
- 4. Mulch and plant temporary grass as required by the special provisions.
- 5. Install inlet sediment traps and silt gates as shown. Inlet sediment traps and silt gates shall be installed and maintained until final grade, proposed pavement construction, and permanent grassing is completed.

Final BMP:

- 1. As soon as final grading and drainage improvements are complete, install riprap aprons, ditch linings, permanent soil reinforcing mats, erosion control mats, and permanent grassing.

Stage 2:

Initial BMP Installation:

The work includes clearing and grubbing of the project and initial BMP installations necessary to construct the proposed Stage 2 improvements.

1. Concurrent with Stage 2 Clearing and Grubbing activities, install the following BMPs:

- a. Perimeter Silt Fence Controls
- b. Orange Barrier Fence around ESA Sites and Stream Buffer Locations
- c. Construction Exits
- d. Ditch Checks along existing ditches
- e. Inlet Sediment Traps at existing inlets and catch basins
- f. Silt Gates at existing culvert outlets
- g. Construct Sediment Basins

Intermediate BMP Installation:

Construction of proposed bridges, roadway, and drainage improvements along the West Rome Bypass Corridor and side streets, and pavement removal throughout the project limits:

- 1. Maintain Stage 2 Initial BMP Installations.
- 2. Maintain temporary berms and ditches to drain into sediment basins as improvements are constructed.

3. Immediately after final grading activities are completed, install silt fence, baled hay, and ditch checks.

4. Mulch and plant temporary grass as required by the special provisions.

5. Install inlet sediment traps and silt gates as shown. Inlet sediment traps and silt gates shall be installed and maintained until final grade, proposed pavement construction, and permanent grassing is completed.

Final BMP:

- 1. As soon as final grading and drainage improvements are complete, install riprap aprons, ditch linings, permanent soil reinforcing mats, erosion control mats, and permanent grassing.

Stage 3:

Initial BMP Installation:

The work includes clearing and grubbing of the project and initial BMP installations necessary to construct the proposed Stage 3 improvements.

1. Concurrent with Stage 3 Clearing and Grubbing activities, install the following BMPs:

- a. Perimeter Silt Fence Controls
- b. Orange Barrier Fence around ESA Sites and Stream Buffer Locations
- c. Construction Exits
- d. Ditch Checks along existing ditches
- e. Inlet Sediment Traps at existing inlets and catch basins
- f. Silt Gates at existing culvert outlets
- g. Construct Sediment Basins

Intermediate BMP Installation:

Construction of detours, proposed bridges, roadway, and drainage improvements along the West Rome Bypass Corridor and side streets, and pavement removal throughout the project limits:

- 1. Maintain Stage 3 Initial BMP Installations.
- 2. Maintain temporary berms and ditches to drain into sediment basins as improvements are constructed.
- 3. Immediately after final grading activities are completed, install silt fence, baled hay, and ditch checks.
- 4. Mulch and plant temporary grass as required by the special provisions.
- 5. Install inlet sediment traps and silt gates as shown. Inlet sediment traps and silt gates shall be installed and maintained until final grade, proposed pavement construction, and permanent grassing is completed.

Final BMP:

- 1. Remove all sediment basins throughout the project limits, grade to slope/drain into the proposed berms, swales, and ditches as reflected in the construction plans.
- 2. As soon as final grading and drainage improvements are complete, install riprap aprons, ditch linings, permanent soil reinforcing mats, erosion control mats, and permanent grassing.

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 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

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://websol survey.nrcs.usda.gov/>.

POST-CONSTRUCTION BMP'S

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 will consist of permanent vegetation, rip-rap at pipe outlets for velocity dissipation and outlet stabilization, vegetated swales/ditches where practical, channels/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 accelerated 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, or configuration, is commonly referred to as 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 the Typical Location Details for silt fences/baled straw. Spacing for J-hooks shall not be less than 50 feet except as noted. Silt fences that are near the outlet of culverts, cross drains, and storm drains shall have a minimum of three (3) J-Hooks on both sides of the structure at spacing not to exceed 30 feet. J-Hooks shall be paid for as silt fence items per foot. All costs and other incidental items are included in 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.

MAINTENANCE AND STABILIZATION MEASURES

See Special Provision 161 and 700 and other contract documents for maintenance and stabilization measures.

INSPECTIONS

All inspections shall be documented on the appropriate Department Inspection forms. See 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.

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 contract documents.

DE-WATERING ACTIVITIES AND USE OF PUMPS

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 their 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.

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.

SEDIMENT STORAGE

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.

Outfall ID	Total Drainage area (acres)	Disturbed Area (acres)	Required Sediment Storage Volume (cu yd)	Total Storage volume provided (cu yd)	Sediment Basins		Check Dam		Inlet sediment Traps		Silt Fence J-Hooks		
					Pond *	Total Volume (cu yd)	* of Devices	Total Volume (cu yd)	* of Devices	Total Volume (cu yd)	* of Devices	Total Volume (cu yd)	
STREAM TD	36.8	3.32	2466	299			67	134	9	45	40	120	
STREAM 8A	2.6 MIL	16.43	173 MIL	825	1	136	122	244	11	55	130	390	
STREAM 8B	35.3	0.86	2365	28			14	28					
STREAM IOF	2.3	2.3	154	204			62	124	3	15	34	102	
C	5.149	2.261	345	361	2	136	37	74	5	25	42	126	
OPEN WATER ISA	1100	27.9	73700	1547	3,4,5,6	188	459	918	15	75	122	366	
J	4.006	1.935	268	147			30	60	3	15	24	72	
STREAM IO	11635	13.54	779545	349	9	45	83	166	6	30	36	108	
K	5.930	2.093	397	24			6	12			4	12	
AA	0.8	0.8	54	42			21	42					
AB	4.5	1.0	67	115	7A	43	36	72					
R	34.328	18.425	2300	915	7	210	164	328	1	5	124	372	
S	58.458	6.685	3916	373			103	206	1	5	54	162	
T	1.369	0.681	92	37			14	28			3	9	
U	67.786	7.115	4542	709	8	253	112	224	2	10	74	222	
L	13.120	3.390	879	405	10	261	31	62	2	10	24	72	
M	17.802	1.470	1193	70			9	18	2	10	14	42	
N	4.880	0.533	327	23			3	6	1	5	4	12	
STREAM II	1715	5.75	114905	182			36	72	4	20	30	90	
ZZ	146.6	18.53	9822	803	11,12,13,14	194	223	446	11	55	36	108	
O	57.760	4.059	3870	342			15	32	64	128	7	35	147
AC	12.2	12.2	670	550	16,17	96	88	176	4	20	86	258	
AD	2.2	2.2	134	84			21	42			14	42	
AE	1.5	1.5	134	65			12	24	1	5	12	36	
AF	1.9	1.9	87	74			17	34	2	10	10	30	
P	13.363	2.151	895	407	18	187	46	92	4	20	36	108	
B	103.130	18.906	6910	624			120	240	36	180	68	204	
Y	539.391	5.309	36139	168			24	48	24	120			

In order to prevent runoff from bypassing inlet sediment traps, a temporary berm shall be installed on the downstream side of all inlet sediment traps that are not located in a low point or an excavated sump. Temporary berms, when necessary, shall be a minimum of 18" high and constructed 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. Outfalls with less than the required sediment storage volume are protected with other erosion control measures, including erosion control mats, mulch, temporary grassing, silt fence and silt gates to minimize sediment leaving the site, and maintenance of erosion control devices is established in the contract to maintain the erosion control devices in proper working condition. PROJECT AREA = 398.3 AC. DISTURBED AREA = 218.0 AC.

		 GEORGIA DEPARTMENT OF TRANSPORTATION		WEST ROME BYPASS			
				EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN GENERAL NOTES			
2	06/03/11	UPDATED CHARTS	DESIGNED: JAC	CHECKED:	DATE:	51.01	SHEET
1	05/27/11	UPDATED CHARTS	DRAWN: JAC	JOB NO. 2077.026	SCALE: NONE	REV	
NO.	DATE	DESCRIPTION OF REVISION					

THIS LINE IS ONE INCH LONG WHEN PLOTTED FULL SCALE