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.

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 I

1. INSTALL STABILIZED CONSTRUCTION EXITS.
2. INSTALL SILT FENCE(S) ON THE SITE. (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE).
3. PREPARE TEMPORARY PARKING AND STORAGE AREA AND INSTALL TEMPORARY SECURITY FENCE, IF REQUIRED.
4. INSTALL INLET PROTECTION MEASURES ON THE EXISTING DRAINAGE STRUCTURES AS INDICATED.
5. BEGIN DEMOLITION OF EXISTING FEATURES AS NOTED IN PLANS.

PHASE II

1. BEGIN CLEARING AND GRUBBING.
2. TEMPORARY SEED, THROUGHOUT CONSTRUCTION, DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.
3. INSTALL ALL PROPOSED STORM SEWER STRUCTURES. REMOVE EXISTING STORM SEWER SYSTEM AS INDICATED AS NEW STORM SEWER CONSTRUCTION IS COMPLETED.
4. INSTALL OUTLET PROTECTION AROUND OUTLET STRUCTURES AS EACH OUTLET STRUCTURE IS INSTALLED.
5. INSTALL INLET PROTECTION AT ALL STORM SEWER STRUCTURES AS EACH INLET STRUCTURE IS INSTALLED.
6. CONSTRUCT UNDERGROUND UTILITIES.

PHASE III

1. PERMANENTLY STABILIZE ALL DISTURBED AREAS.
2. REMOVE TEMPORARY BMP'S.
3. INSPECTION AND MAINTENANCE REPORT FORMS ARE TO BE MAINTAINED BY THE CONTRACTOR FOR THREE YEARS FOLLOWING FINAL STABILIZATION OF THE SITE.

NOTE: THE GENERAL CONTRACTOR MAY COMPLETE CONSTRUCTION-RELATED ACTIVITIES CONCURRENTLY ONLY IF PRECEDING BMP'S HAVE BEEN COMPLETELY INSTALLED.

GEORGIA REGISTERED No. 029868 PROFESSIONAL ENGINEER MARIO V. MACRINA

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

THE FOLLOWING IS A SUMMARY OF THE SOILS THAT ARE EXPECTED TO BE FOUND ON THE PROJECT SITE:

Al	ALAPAHA SOILS
DaB	DOTHAN LOAMY SAND
Ls	LEEFIELD LOAMY SAND
Se	STILSON LOAMY SAND
Suc	STILSON-URBAN LAND COMPLEX
TnC	TIFTON-URBAN LAND COMPLEX
TqB	TIFTON LOAMY SAND

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

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 MAY 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, 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, 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 CONSTRUCTION DETAIL D-24C. THE MAXIMUM SPACING OF J-HOOKS IS REACHED WHEN THE TOP OF THE ADJACENT DOWNGRADIENT J HOOK IS AT THE SAME ELEVATION AS THE BOTTOM OF THE ADJACENT UPGRADIENT J-HOOK. 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.

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 DITICHES 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 INGESTION OF SEDIMENT AND OTHER LARGE DEBRIS LIKE RIP RAP, SAND BAGS, ROADWAY DEBRIS AND OTHER CONSTRCION MATERIALS THAT WHEN COMBINED WITH SEDIMENTS EASILY CLOG ROADWAY DRAINAGE PIPES.

VOID

MAINTENANCE AND STABILIZATION MEASURES

SEE SPECIAL PROVISION 161 AND 700 AND OTHER CONTRACT DOCUMENTS FOR MAINTENANCE AND STABILIZATION 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

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 GAR100002 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.

Wolverton & Associates
Consulting Engineers + Land Surveyors
5145 Sugarloaf Parkway Suite 102 Duluth, Georgia 30097
Phone: (770) 447-8999 Fax: (770) 447-9073
www.wolverton-assoc.com

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

ESPC GENERAL NOTES
S.R. 133 & OLD ADEL RD. / 5th AVE. S.E.

DRAWING No. 51-01

GPLM