COMPREHENSIVE MONITORING PLAN
The project consists of the construction of a 4,918 S.F. Fire Department building and ancillary drives and parking on a 0.69 acre site bounded on the north by Vernon Road, on the south by the CSX Railroad and on the west by developed commercial property. The pre-development runoff coefficient (CN) is 75 and the post-development CN is 87. The USGS 7.5 minute topographic map (Exhibit No. 1) showing the property is attached.

SPILL-PREVENTION PLAN
Petroleum products shall be stored in an adequate and impervious containment area and daily inspections should be made for possible leaks. All spills shall be properly and promptly cleaned up and disposed of. Contractors shall maintain pigs and other measures to control spills on site. Storage of these products are not to be located in buffer or permanent natural areas, near swales or drains, or within 300 feet of any state waters.

MONITORING PLAN:
The monitoring plan requires that samples be taken at the outlet of the detention pond. The target turbidity for the basin is 75 NTUs (Drainage Area= 14 acres; Site Area=12.5 acres) as defined in Appendix B of Permit No. GAR 100001. The location of the sampling points in shown on the attached drawing, Sheet C-5.

Inspections.
a. Permittee requirements.
(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary Permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.
(2).Measure rainfall once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or oblished a crop of annual vegetation and a seeding of target perennials appropriate for the region.
(3).Certified personnel (provided by the primary permittee) shall inspect the following at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.
(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is received by EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).
(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.
(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5), of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.
d. Sampling Frequency.
(1). The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall location within in forty-five (45) minutes or as soon as possible.
(2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.
(3). Sampling by the permittee shall occur for the following qualifying events:
(a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;
(b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first;
(c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours* until the selected turbidity standard is attained, or until post- storm event inspections determine that BMPs are properly designed, installed and maintained;
(d). Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and
(e). Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above. Note that the permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week.
Retention of Records.
1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:
a. A copy of all Notices of Intent submitted to EPD;
b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
d. A copy of all sampling information, results, and reports required by this permit;
e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit.
2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI. of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternative location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

April 19, 2018

VERNON ROAD FIRE STATION, CITY OF LAGRANGE, TROUP COUNTY, GEORGIA
CERTIFICATION

(1) I certify that the permittee's erosion, sedimentation and pollution control plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" published by the state Soil and Water Conservation Commission as of January 1 of the year in which land disturbing activity was permitted. The plan provides for the sampling of the receiving water(s) or the sampling of storm water outfalls. The designed system of best management practices and sampling methods is expected to meet the requirements contained in the general NPDES permit issued to the persons described herein or myself or my authorized agent, under my direct supervision and that I will inspect the site within 7 days after construction.
(2) I certify under penalty of law that this plan was prepared after a visit to the locations described herein by myself or my authorized agent, under my direct supervision and that I will inspect the site within 7 days after construction.

James Stothard
James Stothard, Georgia PE No. 15360
Level II Certified Design Professional, No. 0000029517

April 19, 2018

VERNON ROAD FIRE STATION, CITY OF LAGRANGE, TROUP COUNTY, GEORGIA
CERTIFICATION

I certify that the permittee's Comprehensive Monitoring Program provides for the monitoring of the receiving waters or the monitoring of storm water outfalls is expected to meet the monitoring requirements contained in General NPDES Permit No. GAR 100001.

James Stothard
James Stothard, Georgia PE No. 15360
Level II Certified Design Professional, No. 0000029517

April 19, 2018

VERNON ROAD FIRE STATION, CITY OF LAGRANGE, TROUP COUNTY, GEORGIA
CERTIFICATION

I certify that I have consulted Georgia's 2008 305(b)/303(d) List Documents (Final) and have determined that the construction will not discharge storm water to an impaired stream segment but does discharge storm water within the site upstream and within the same watershed as, Long Cane Creek, a Biota Impaired Stream.

James Stothard
James Stothard, Georgia PE No. 15360
Level II Certified Design Professional, No. 0000029517

2018											
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
					A,B,C D,E,F	B,C,D E	B,C,D E	B,D,E G,H	B,D,G H	B,C,D E,G	B,C,D E,G
2019											
B,C,D E,G	B,C,D E,G	B,D,E G, H	B,C,D E,G	B,C,D E,G	B,C,D E,G						

CONSTRUCTION SCHEDULE
A. CLEARING & GRUBBING
B. SEDIMENT CONTROL MEASURES AND INSTALLATION OF SILT FENCE
C. ROUGH GRADING OF SITE
D. TEMPORARY & PERMANENT VEGETATION OUTSIDE BUILDING AREA
E. INSTALLATION OF STORM SEWER & EROSION CONTROL STRUCTURES
F. BUILDING CONSTRUCTION
G. FINISH GRADING & PAVING.
H. FINAL VEGETATION & LANDSCAPING.

EXISTING LAND USE OPEN-SHORT GRASS
PROPOSED LAND USE FIRE STATION

PRIMARY PERMITTEE: CITY OF LAGRANGE
ADDRESS 201 RIDLEY AVE.
CITY & STATE LAGRANGE, GA 30240
PHONE 706-883-2063

LOCAL CONTACT RESPONSIBLE FOR 24 HR EROSION & SEDIMENT CONTROL MEASURES
NAME: GLEN CONROY
PHONE: 706-883-2075

GENERAL NOTES FOR SOIL EROSION AND SEDIMENT CONTROL

1. The area to be disturbed on this project is 0.68 ACRES
2. 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 control measures shall be implemented to control or treat the sediment source.
3. Failure to properly install and maintain erosion control practices may result in construction being halted.
4. Erosion control measures will be inspected at least weekly and following rainfall and repaired by contractor.
5. All silt fences shall comply with Georgia Department of Transportation standards and specifications. Contractor shall provide a letter of warranty that materials meet these specifications and that the fabric is on the DOT qualified list (QPL) #36.
6. Temporary or permanent vegetative stabilization shall be provided within 14 days of any land disturbance activity. within 3 working days after receiving such notification.
7. Storm drain systems shall be maintained clean and free of silt and debris.
8. A response to a notification of Non-Compliance or inadequate measures shall be made
9. Soil series for this project CuC
10. K-Factor 0.28 , T-Factor 3 , Hydrologic Group B
11. The site is located on Soil Survey Sheet No. 74
12. Construction begin date is JUNE 2018
13. Construction completion date is JUNE 2019
14. IMPLEMENTATION AND MAINTENANCE:
A. IMPLEMENTATION: Notify the Department of Engineering 24 hours prior to commencing work. PHONE: 706-883-2075
1.) No clearing, grading, filling or other land disturbing activities shall be permitted until approved erosion and sediment control measures have been implemented except those operations needed to install such measures.
2.) These erosion and sediment control measures shall apply to all features of the construction site, including, but not limited to, street and utility installations as well as to the protection of individual lots.
B. MAINTENANCE:
All erosion and sediment control measures shall be continuously maintained by the owner or owner during the completion of the development and until permanent stabilization of disturbed areas. Drainage and all disturbed areas be accomplished to eliminate justification for the temporary control measures which shall then be removed by owner.
C. To facilitate acceptance of the streets and improvements, prior to establishment of such permanent stabilization, a specific bond for the completion of a specific for the cost of maintaining the temporary control measures, including temporary grassing and establishing the permanent stabilization measures, reasonable time relative to the growing season shall be provided to the owner for acceptance.
D. If full implementation of the approved plan does not provide for effective erosion control, additional erosion control measures shall be implemented to control or treat the sediment source.

FUEL SPILL/CONTAINMENT NOTES
SECONDARY CONTAINMENT UNITS SHALL BE PROVIDED ANYWHERE PRIMARY FUEL CONTAINERS ARE LOCATED. SECONDARY CONTAINMENT UNITS SHALL BE CONSTRUCTED OF MATERIALS THAT ARE IMPERVIABLE OF ADEQUATELY CONTAINING THESE FUELS STORED WITHIN, PROVIDING 110% OF THE TOTAL VOLUME CAPACITY OF THE LARGEST PRIMARY CONTAINER STORED WITHIN, AND PREVENT THE INGRESS OF RAINWATER INTO THE SECONDARY CONTAINER (WITH A COVER). ANY DRAINAGE VALVES IN THE SECONDARY CONTAINER MUST BE LIQUID TIGHT AND ABLE TO BE LOCKED IN THE NORMALLY CLOSED POSITION. TOTAL CAPACITY OF PRIMARY AND SECONDARY CONTAINERS SHALL BE CLEARLY MARKED ON CONTAINERS.
IN THE EVENT THAT A FUEL SPILL OCCURS APPROPRIATE ACTION MUST IMMEDIATELY BE TAKEN TO REDUCE THE POSSIBILITY OF LAND OR WATER CONTAMINATION. THE GEORGIA OIL AND HAZARDOUS MATERIAL SPILL OR RELEASE ACT (O.C.G.A. 12-14-1 ET SEQ.) REQUIRES THAT ALL REPORTABLE SPILLS IN THE STATE OF GEORGIA ARE IMMEDIATELY REPORTED TO THE STATE OPERATIONS CENTER AT 404-656-4300 AND TO THE FEDERAL NATIONAL RESPONSE CENTER (NRC) AT 1-800-424-8802. A FUEL SPILL IS CONSIDERED REPORTABLE IF IT REACHES THE WATERS OF THE STATE AND CAUSES A SHEEN. APPROPRIATE SPILL RESPONSE EQUIPMENT MUST BE AVAILABLE ON-SITE AT ALL TIMES. CLEAN UP AND REMEDIATION OF ANY CONTAMINATION RESULTING FROM A SPILL IS THE RESPONSIBILITY OF THE GENERATOR OF THE WASTE. IN THE EVENT OF A SPILL ONTO UNPAVED GROUND, THE CONTAMINATED SOIL SHALL BE IMMEDIATELY EXCAVATED TO A DEPTH WHERE THE SOIL APPEARS VISUALLY CLEAN. CONTAMINATED SOIL SHOULD THEN BE PLACED INTO AN ADEQUATELY SEALED AND SECURED CONTAINER. IN THE EVENT OF A SPILL ONTO A PAVED SURFACE, IMMEDIATELY CONTAIN THE SPILL. AFTER CONTAINED, ANY CONTAMINATED BULK MATERIAL SHALL BE COLLECTED AND PLACED IN A SECURE CONTAINER FOR LATER DISPOSAL. POWER WASHING MAY BE NEEDED TO REMOVE RESIDUES FROM PAVED OR OTHER HARD SURFACES. IT IS ILLEGAL TO DISPOSE OF ANY WASTE OF POLLUTANTS IN THE STORM SEWER SYSTEM.

EROSION CONTROL CERTIFICATION
(1) I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED. THE PLAN PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF STORM WATER OUTFALLS. THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES
(2) "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PERPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION"
James Stothard
JAMES STOTHARD, PE NO. 15360
LEVEL II CERTIFIED DESIGN PROFESSIONAL NO. 0000029517

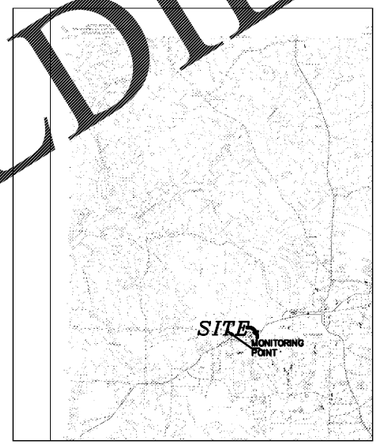
1/ APPLY IN SPRING FOLLOWING SEEDING
2/ APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED
3/ APPLY IN THREE SPLIT APPLICATIONS
4/ APPLY WHEN PLANTS ARE PRUNED
5/ APPLY TO GRASS SPECIES ONLY
6/ APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES

PERMANENT GRASSING SPECIFICATIONS
MARCH 1 TO JUNE 30
BERMUDA, COMMON (HULLED) - 10 LBS/AC
OR
APRIL 1 TO JUNE 30
CENTIPEDE - BLOCK SOD ONLY

TEMPORARY SEEDING SPECIFICATIONS
AUGUST 1 TO APRIL 15
RYEGRASS, ANNUAL - 40 LBS/AC
OR
AUGUST 15 TO DECEMBER 30
RYE - 3 BU/AC
OR
APRIL 15 TO AUGUST 31
MILLET, PEARL - 50 LBS/AC

SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. COOL SEASON GRASSES	FIRST SECOND MAINT	8-12-12 8-12-12 10-10-10	1500 lbs/AC 1000 lbs/AC 400 lbs/AC	50-100 LBS/AC 1/2/ -- 30 LBS/AC
2. COOL SEASON GRASSES AND LEGUMES	FIRST SECOND MAINT	8-12-12 0-10-10 0-10-10	1500 lbs/AC 1000 lbs/AC 400 lbs/AC	0-50 LBS/AC 1/ -- --
3. GROUND COVERS	FIRST SECOND MAINT	10-10-10 10-10-10 10-10-10	1300 lbs/AC 1300 lbs/AC 1100 lbs/AC	-- -- --
4. PINE SEEDLINGS	FIRST	20-10-15	one 21 gram pellet per seedling placed in the closing hole	--
5. SHRUB LEEPEDEZA	FIRST MAINT	0-10-10 0-10-10	700 lbs/AC 700 lbs/AC	--
6. TEMP COVER CROP SEEDED DONE	FIRST	10-10-10	500 lbs/AC	30 LBS/AC 5/
7. WARM SEASON GRASSES	FIRST SECOND MAINT	8-12-12 8-12-12 10-10-10	1500 lbs/AC 800 lbs/AC 400 lbs/AC	50-100 LBS/AC 2/8/ 50-100 LBS/AC 2/ 30 LBS/AC
8. WARM SEASON GRASSES AND LEGUMES	FIRST SECOND MAINT	8-12-12 0-10-10 0-10-10	1500 lbs/AC 1000 lbs/AC 400 lbs/AC	50 LBS/AC

LIME RATES
AGRICULTURAL LIME IS REQUIRED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. REGRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.



ENGINEER'S STAMP
GEORGIA REGISTERED No. 15360 PROFESSIONAL JAMES A. STOTHARD
SIGNATURE REQUIRED

SMITH DESIGN GROUP, INC.
206 WEST MALSON STREET
LAGRANGE, GEORGIA 30240
706-882-8611
www.SDGarch.net

STOTHARD ENGINEERING, INC.
1008 COLQUITT ST.
LAGRANGE, GA 30241
PH: 706 884-5279
email: stothard@stothard-engineering.com

REVISIONS

⚠	DATE	DESCRIPTION

PROJECT:
VERNON ROAD FIRE STATION
VERNON ROAD
LAGRANGE, GEORGIA

TITLE:
INDEX SHEET

MODIFIED DATE:
ISSUED DATE:
FOR BID AND PERMIT
20 APRIL 2018

JOB NO: 1731
SHEET: C-16