

May 8, 2020

Regulatory Division SAS-2019-00854

JOINT PUBLIC NOTICE Savannah District/State of Georgia

The Savannah District has received an application for a Department of the Army permit, pursuant to Section 404 of the Clean Water Act (33 U.S.C § 1344), as follows:

Application Number: SAS-2019-00854

- <u>Applicant</u>: Mr. James Irvin Georgia Central Railway, L.P. 13901 Sutton Park Drive, Suite 125 Jacksonville, Florida 32224
- <u>Agent</u>: Mr. Michael J. DeMell ENVIRONMENTAL SERVICES, INC., A Terracon Company 2201 Rowland Avenue Savannah, Georgia 31404

<u>Location of Proposed Work</u>: In waters and wetland located west of Pooler Parkway, and south of U.S. 80, near Bloomingdale, Chatham County, Georgia (Latitude 32.1175 and Longitude -81.2891).

Description of Work Subject to the Jurisdiction of the U.S. Army Corps of Engineers:

The applicant is proposing to fill 0.81 acre of wetland and 0.05 acre of canal to construct a rail spur adjacent to the current mainline. The spur is designed to provide head room for large switching movements without fouling the main rail line. Most of the wetland impacts (0.76-acre) would be from parallel construction of the rail spur on the north side of the existing track. An additional 0.05-acre wetland impact on the south side of the rail is needed for construction and placement of a double box culvert which is needed to accompany the additional weight of the new track. Lastly, a 0.05-acre impact would occur within the canal/tributary for the replacement of the existing 60" reinforced concrete pipe with two box culverts. To mitigate for the proposed impacts, the applicant would purchase 4.88 grandfathered credits from a Corps approved compensatory mitigation bank that services the project area and provides appropriate functional replacement credits.

BACKGROUND

This Joint Public Notice announces a request for authorizations from both the Corps and the State of Georgia. The applicant's proposed work may also require local governmental approval.

STATE OF GEORGIA

<u>Water Quality Certification</u>: The Georgia Department of Natural Resources, Environmental Protection Division will review the proposed project for water quality certification, in accordance with the provisions of Section 401 of the Clean Water Act. Prior to issuance of a Department of the Army permit for a project location in, on, or adjacent to the waters of the State of Georgia, review for Water Quality Certification is required. A reasonable period of time, which shall not exceed one year, is established under the Clean Water Act for the State to act on a request for Water Quality Certification, after which, issuance of such a Department of the Army permit may proceed.

<u>State-owned Property and Resources</u>: The applicant may also require assent from the State of Georgia, which may be in the form of a license, easement, lease, permit or other appropriate instrument.

<u>Georgia Coastal Management Program:</u> Prior to the Savannah District Corps of Engineers making a final permit decision on this application, the project must be certified by the Georgia Department of Natural Resources, Coastal Resources Division, to be consistent with applicable provisions of the State of Georgia Coastal Management Program (15 CFR 930). Anyone wishing to comment on Coastal Management Program certification of this project should submit comments in writing within 30 days of the date of this notice to the Federal Consistency Coordinator, Coastal Management Program, Coastal Resources Division, Georgia Department of Natural Resources, One Conservation Way, Brunswick, Georgia 31523-8600 (Telephone 912-264-7218).

U.S. ARMY CORPS OF ENGINEERS

The Savannah District must consider the purpose and the impacts of the applicant's proposed work, prior to a decision on issuance of a Department of the Army permit.

<u>Cultural Resources Assessment</u>: Review of the latest published version of the National Register of Historic Places indicates that no registered properties or properties listed as eligible for inclusion are located at the site or in the area affected by the proposed work. Presently unknown archaeological, scientific, prehistorical or historical data may be located at the site and could be affected by the proposed work.

<u>Endangered Species</u>: A preliminary review the U.S. Fish and Wildlife Service (FWS) list of Endangered and Threatened Species (IPaC) indicates the following listed species may occur in the project area: Eastern Indigo snake (*Drymarchon corais couperi*), Wood stork (*Mycteria americana*); red cockaded woodpecker (*Picoides borealis*); frosted flatwoods salamander (*Ambystoma cingulatum*) and pondberry (*Lindera melissifolia*).

Pursuant to Section 7(c) of the Endangered Species Act of 1973, as amended (16 U.S.C. § 1531 et seq.), we request information from the U.S. Department of the Interior, Fish and Wildlife Service, the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service; or, any other interested party, on whether any species listed or proposed for listing may be present in the area.

<u>Public Interest Review</u>: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors, which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and in general, the needs and welfare of the people.

<u>Consideration of Public Comments</u>: The Corps is soliciting comments from the public; federal, state, and local agencies and officials; Native American Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

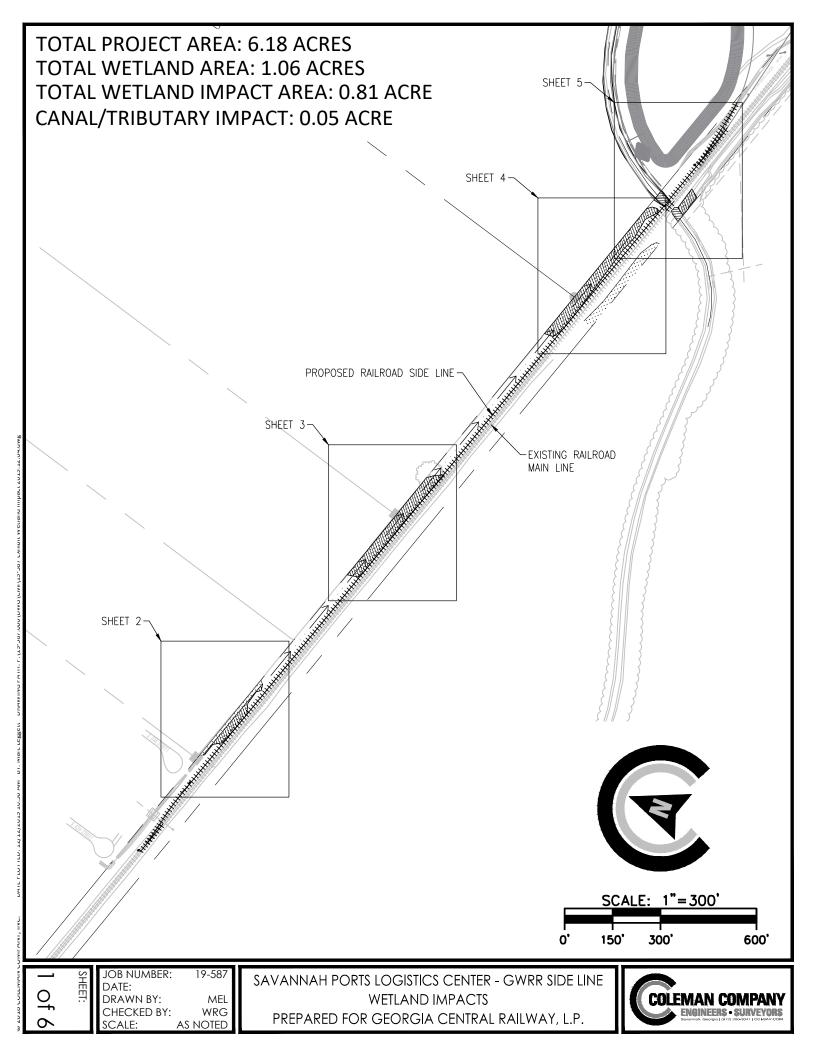
<u>Application of Section 404(b)(1) Guidelines</u>: The proposed activity involves the discharge of dredged or fill material into the waters of the United States. The Savannah District's evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under the authority of Section 404(b) of the Clean Water Act.

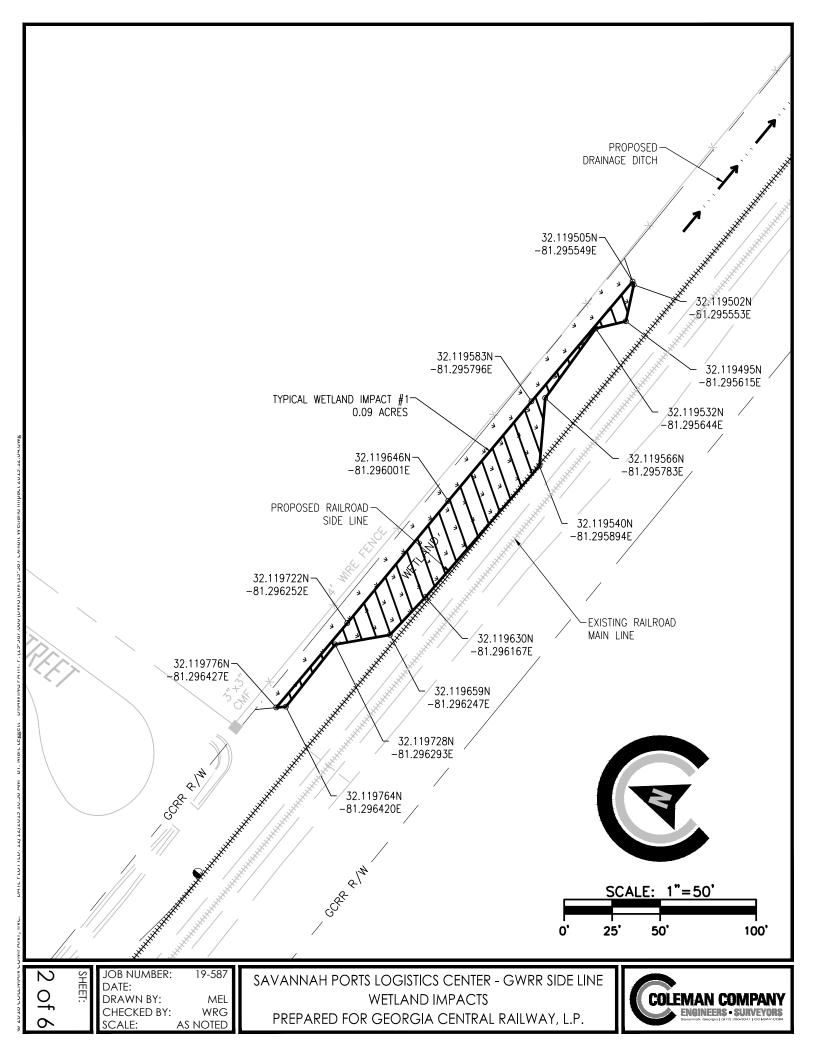
<u>Public Hearing</u>: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application for a Department of the Army permit. Requests for public hearings shall state, with particularity, the reasons for requesting a public hearing. The decision whether to hold a public hearing is at the discretion of the District Engineer, or his designated appointee, based on the need for additional substantial information necessary in evaluating the proposed project.

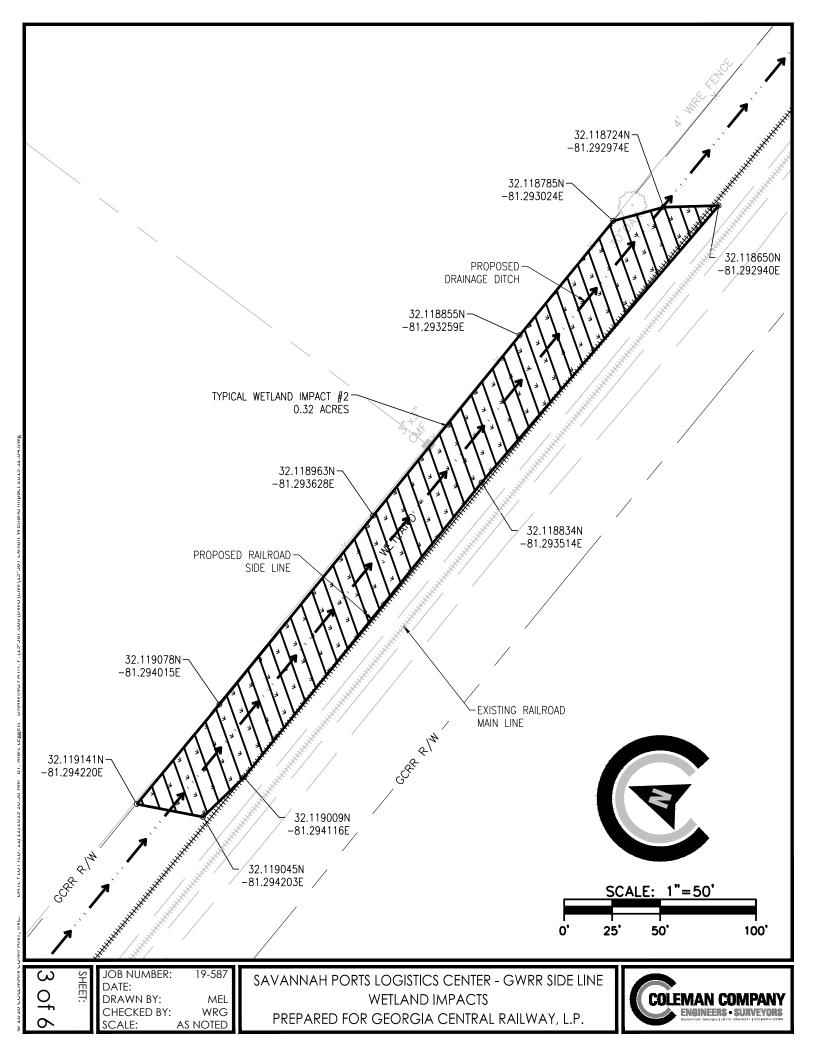
<u>Comment Period</u>: Anyone wishing to comment on this application for a Department of the Army permit should submit comments by email to sarah.e.wise@usace.army.mil Alternatively, you may submit comments in writing to the Commander, U.S. Army Corps of Engineers, Savannah District, Attention: Ms. Sarah E. Wise, 100 West Oglethorpe Avenue Savannah, Georgia 31401-3604, no later than 30 days from the date of this notice. Please refer to the applicant's name and the application number in your comments.

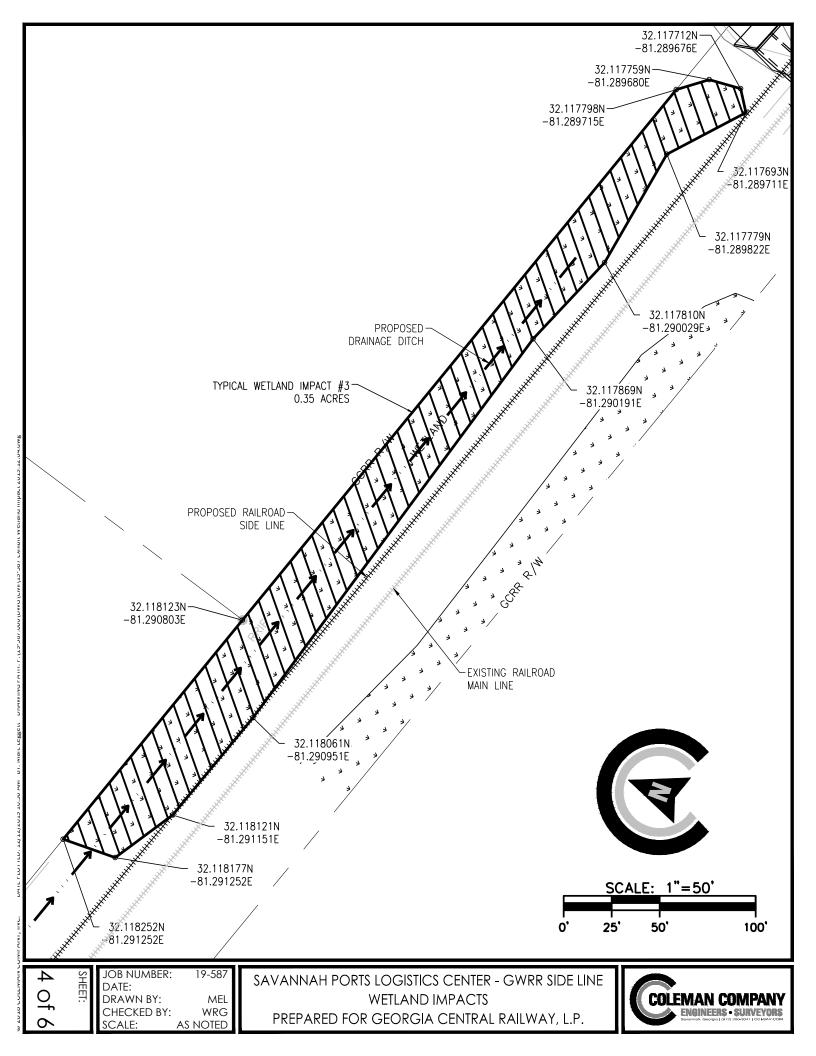
If you have any further questions concerning this matter, please contact Ms. Sarah E. Wise, Team Lead, Coastal Branch at 912-652-5550.

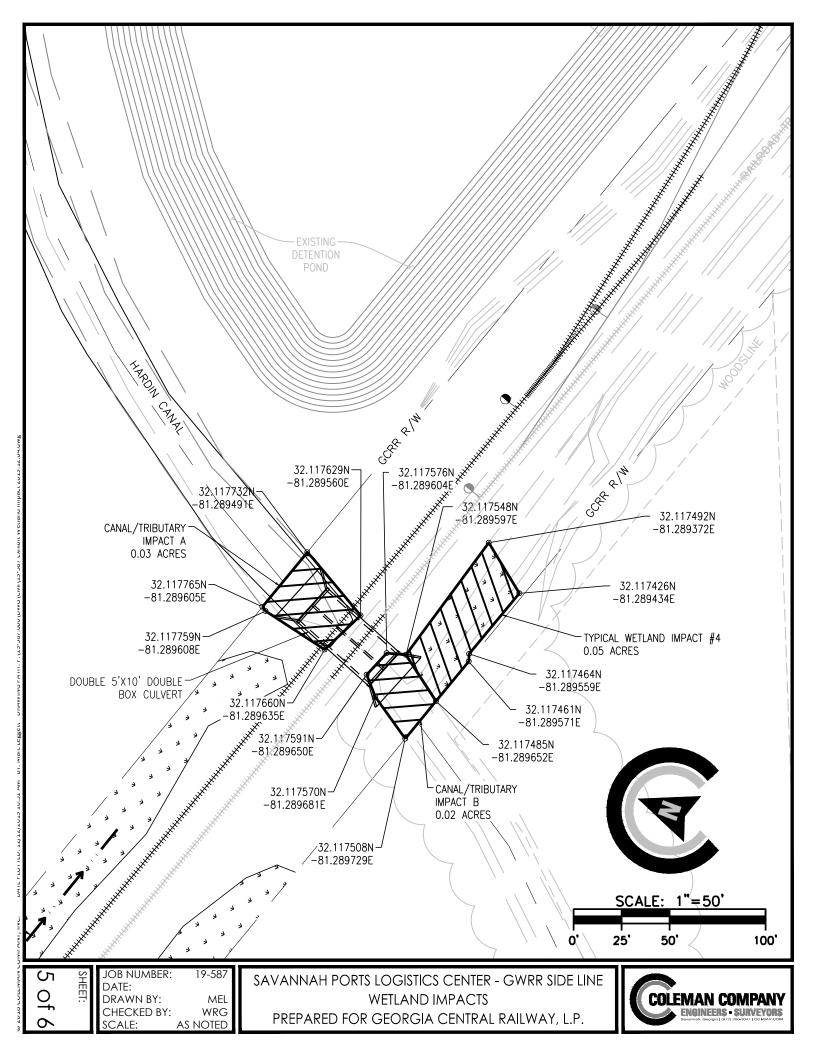
Enclosures:

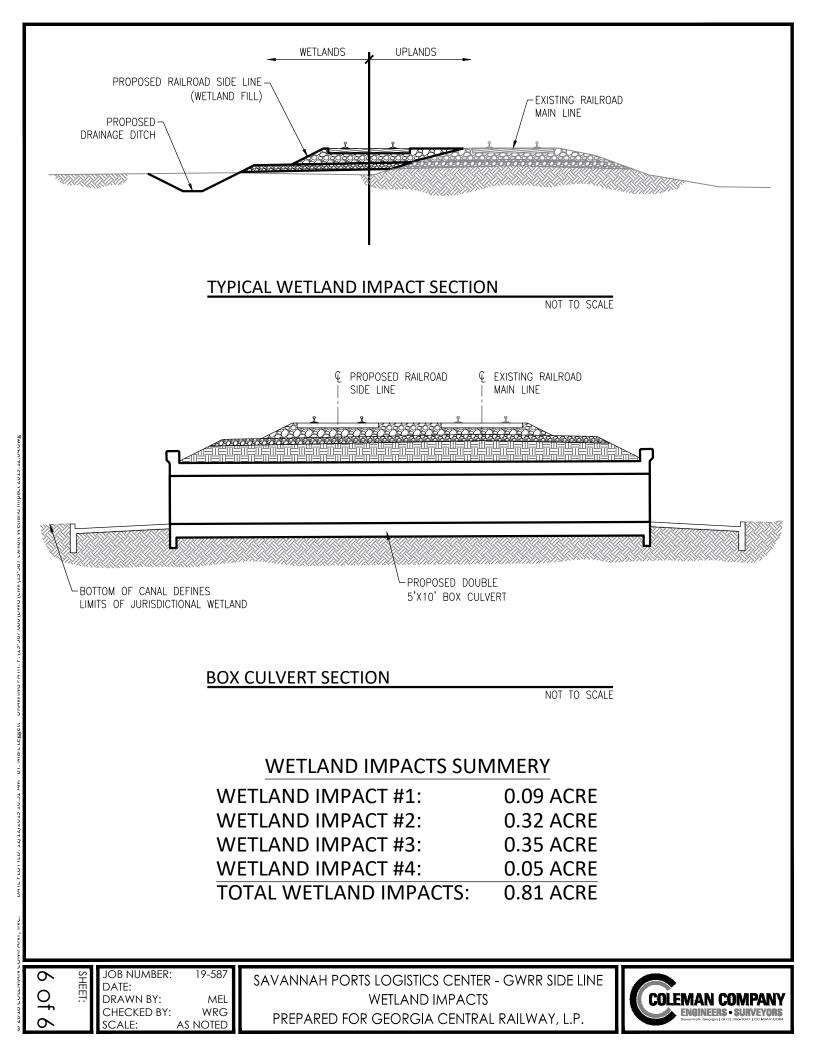






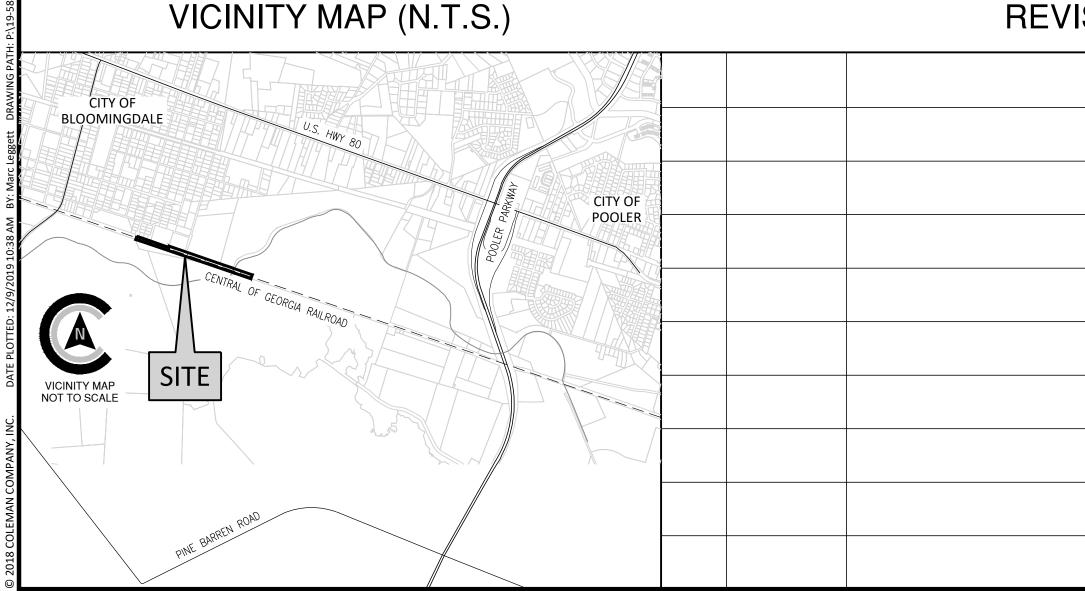






CONSTRUCTION PLANS SAVANNAH POR LOGISTECS CENTE GWRR SIDE LINE

PREPARED FOR GENESEE & WYOMING RAILROAD SERVIC



REVISIONS

PROJECT SITE DATA

PROJECT ADDRESS: PROJECT CITY. STATE: OWNER/REPRESENTATIVE: **PROPERTY AREA** N/A DISTURBED AREA: ZONING: N/A VERTICAL DATUM: NAVD 88 NAD 83 HORIZONTAL DATUM: X. AE FLOOD ZONE: WATER & SEWER PROVIDER: N/A PINS: N/A SURVEY PREPARED BY: GEOTECHNICAL BY: ARCHITECT: N/A

POOLER. GEORGIA GENESEE & WYOMING RAILROAD SERVICES, INC **3.16 ACRES** COLEMAN COMPANY, INC.

FOR TS	<image/> Colored allColored all <th< th=""></th<>
R-	REVISIONS:
ES, INC Sheet index	CIVIL CONSTRUCTION PLANS FOR SAVANNAH PORTS LOGISTECS CENTER - GWRR SIDE LINE LOCATED IN POOLER, GEORGIA PREPARED FOR GENESEE & WYOMING RAILROAD SERVICES, INC
	NOY CHARACTER AND A CONCEPTION OF AND A CONCER

GENERAL	NOTES:

MINIMUM.

- 1. CONTRACTOR WILL BE REQUIRED TO ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE GOVERNMENTAL AGENCY IN CHARGE OF THE PROJECT
- 2. CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND INSPECTIONS AS REQUIRED FOR APPROVAL OF THE WORK WITH THE GOVERNMENTAL AGENCY WITH JURISDICTION.
- 3. CONTRACTOR WILL BE RESPONSIBLE FOR COST OF AND COORDINATION WITH LOCAL UTILITY COMPANIES OR AGENCIES FOR RELOCATION OF, OR CONNECTION TO, ALL EXISTING UTILITIES INCLUDING POWER AND TELEPHONE POLES AND WIRES.
- 4. ALL ELEVATIONS ARE BASED ON MEAN SEA LEVEL DATUM, NAVD 88.
- 5. MAXIMUM EARTH SLOPES WILL BE 3:1.
- 6. REMOVAL AND REPLACEMENT OF UNSUITABLE SUBGRADE MATERIAL WILL BE PAID FOR ON A CUBIC YARD BASIS IN PLACE MEASUREMENT, AT SUCH AUTHORIZED PRICE PER CUBIC YARD, AS AUTHORIZED BY THE ENGINEER. 7. PROVIDE 1/2" EXPANSION JOINT IN NEW WALKS FOR DEPTH OF CONCRETE, WITH BITUMINOUS SEAL FOR TOP 1 INCH MINIMUM
- DEPTH AT ABUTMENTS WITH BUILDINGS OR OTHER CONCRETE STRUCTURES. 8. SAW-CUT CONTRACTION JOINTS WILL BE PROVIDED IN ACCORDANCE WITH DETAILS, CUT TO BE 1/4 DEPTH OF CONCRETE
- 9. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
- 10. THE CONTRACTOR SHALL KEEP ACCURATE RECORDS FOR "AS BUILTS" PURPOSES AND PROVIDE THIS INFORMATION TO THE ENGINEER AT THE COMPLETION OF THE PROJECT. IF THE CONTRACTOR FAILS TO FURNISH THIS INFORMATION, THE ENGINEER WILL OBTAIN THE NECESSARY INFORMATION AND CHARGE THE CONTRACTOR FOR THE SERVICES. THE ENGINEER WILL CHECK INFORMATION PROVIDED BY THE CONTRACTOR FOR ACCURACY. AS BUILT INFORMATION INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: ALL UTILITIES INCLUDING INVERTS. TOP ELEVATIONS. PIPE LENGTHS AND TYPE OF CONSTRUCTION MATERIAL: SPOT ELEVATIONS ON FORCE MAINS AND WATER LINES. THE DISTANCE OF THE CENTERLINE OF UTILITIES FROM A PERMANENT STRUCTURE. ALL VALVE MANHOLES AND VALVE BOXES SHALL BE LOCATED WITH RESPECT TO A PERMANENT STRUCTURE. GRADES SHALL BE CONFIRMED IN ROADS AND PARKING AREAS AS WELL AS SWALES TO SHOW DIRECTION OF STROMWATER FLOW. THE FINISHED FLOOR ELEVATION SHALL BE SHOWN ON ALL BUILDINGS. IF THE LANDSCAPING IS CHANGED IN ANY WAY AN AS BUILT OF THE LANDSCAPE PLAN IS TO BE SUBMITTED TO THE ENGINEER; AND ANY OTHER REQUIREMENT MADE BY COUNTY OF CHATHAM.
- 11. ALL NEW DISTURBED AREAS WILL BE GRASSED BY SEEDING OR SPRIGGING IN ACCORDANCE WITH GA. D.O.T. STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
- 13. CONTRACTOR SHALL PROVIDE DUST CONTROL OF ALL DISTURBED AREAS BY THE USE OF WATER AND FAST GROWING, TEMPORARY VEGETATION ON ALL STOCKPILED SOILS.
- 14. CONTRACTOR WILL PROVIDE A CONSTRUCTION SCHEDULE INCLUDING ALL EROSION AND SEDIMENT CONTROL MEASURES.
- 15. CONTRACTOR SHALL PROVIDE CRUSHED STONE 6" THICK, 50' MIN. LONG BY 20' MIN. WIDE AT ALL CONSTRUCTION EXITS TO MINIMIZE TRANSPORT OF SOIL FROM SITE BY VEHICLE WHEELS.
- 16. ALL EXISTING INLETS AND DITCHES SUBJECT TO STORM WATER BUNOFF FROM THE SITE AND ALL NEW INLETS SHALL BE PROVIDED WITH INLET PROTECTOR TO MINIMIZE SOIL TRANSPORT OFF SITE BY STORM WATERS.
- 17. ALL MATERIAL AND INSTALLATION PRACTICES ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT SHALL MEET THE CURRENT REQUIREMENTS OF THE COUNTY OF CHATHAM DEVELOPMENT REGULATIONS AND SPECIFICATIONS.
- 18. TESTING PROVIDE ALL TESTING AS REQUIRED IN THE SPECIFICATIONS. PROVIDE ENGINEER WITH COPY DIRECT FROM TESTING
- 19. CONTRACTOR SHALL MAINTAIN SITE ON A DAILY BASIS TO PROVIDE FOR POSITIVE DRAINAGE. CONTRACTOR, AT HIS COST, SHALL GRADE SITE AND PROVIDE NECESSARY TEMPORARY DRAINAGE SWALES TO INSURE STORM WATER DOES NOT POND ON SITE OR ADJACENT PROPERTIES.
- 20. ANY DETENTION BASINS SHALL BE CONSTRUCTED IN CONJUNCTION WITH CLEARING AND GRADING TO HELP PREVENT THE LOSS OF SEDIMENT FROM THE SITE. THE CONTRACTOR SHOULD CLEAN OUT ANY SEDIMENT DEPOSITED IN THE BASINS DURING THE CONSTRUCTION PERIOD SO THAT THE SPECIFIED WATER DEPTH AT NORMAL POOL IS MAINTAINED; THE CONTRACTOR MAY OVER EXCAVATE THE BASINS TO ACCOMPLISH THIS, IF DESIRED, AT HIS OWN EXPENSE AND WITH THE CONCURRENCE OF THE ENGINEER
- 21.PRIOR TO CONSTRUCTION, ALL BUILDING AREAS, PLUS 10 FEET ON EACH SIDE AND ALL AREAS TO BE PAVED, SHOULD BE STRIPPED OF ALL VEGETATION, TOP SOIL AND ROOT SYSTEMS.
- 22.SITE DRAINAGE SHOULD BE ESTABLISHED TO PREVENT ANY PONDED WATER CONDITIONS WITHIN THE CONSTRUCTION AREA AND TO FACILITATE THE RAPID RUN-OFF OF STORM WATER.
- 23.ANY STUMP HOLES OR OTHER DEPRESSIONS SHOULD BE CLEARED OF LOOSE MATERIAL AND DEBRIS AND SHOULD THEN BE BACKFILLED WITH APPROVED FILL. THE BACKFILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.
- 24.BACKFILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.
- 25. THE SUBGRADE SHOULD BE PROOFROLLED WITH A LOADED DUMP TRUCK TO LOCATE UNSTABLE OR SOFT AREAS. THESE AREAS SHOULD THEN BE INVESTIGATED TO DETERMINE THE CAUSE OF THE INSTABILITY. IF DUE TO UNSUITABLE SOIL, SUCH AS HIGHLY ORGANIC SOILS OR SOFT CLAYS, THE AREA SHOULD BE UNDERCUT TO A FIRM SOIL AND REPLACED WITH APPROVED FILL COMPACTED IN SIX INCH LIFTS TO MINIMUM DENSITY OF 95% IN ACCORDANCE WITH ASTM-D-1557. IF THE INSTABILITY IS DUE TO EXCESS MOISTURE IN OTHERWISE SUITABLE SOLL THE AREA SHOULD BE DRAINED AND COMPACTED TO 95% DENSITY. ANY FILL REQUIRED TO LEVEL OR RAISE THE SITE SHOULD THAN BE PLACED IN 6" THICK LOOSE LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.
- 26. ALL OF THE FILL FOR THIS PROJECT SHOULD CONSIST OF A CLEAN, FREE DRAINING SAND WITH A MAXIMUM OF 15% FINES. THE FILL SHOULD BE FREE OF OBJECTIONABLE ROOTS, CLAY LUMPS AND DEBRIS.
- 27.MOISTURE CONTENT SHALL BE AT OR BELOW OPTIMUM.
- 28. ALL WATER USED FOR CONSTRUCTION SHALL BE METERED THROUGH AND APPROVED BACKFLOW PREVENTION DEVICE AND FIRE HYDRANT METER OBTAINED FROM THE COUNTY OF CHATHAM CONVEYANCE AND DISTRIBUTION DEPARTMENT.
- 29.IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO FOLLOW THE COMPREHENSIVE MONITORING PLAN PREPARED FOR THE DEVELOPER BY COLEMAN COMPANY, INC.
- 30. ALL TAPS ON A MAIN FOR SERVICE LATERALS SHALL BE MADE WITH AN ALL STAINLESS STEEL DOUBLE STRAP EPOXY COATED TAPPING SADDLE. THE SIZE OF THE SADDLE SHALL BE WATER MAIN DIAMETER C-900 + 1"c.c. THREAD".
- 30. ALL FIRE HYDRANTS AND VALVES SHALL BE MANUFACTURED BY AMERICAN, DARLING, MUELLER OR M&H. 31.50 L.F. OF 6" UNDERDRAIN AND ROCK SHALL BE INSTALLED FROM EACH INLET LOCATED IN OR ADJACENT TO POND SURFACES. CONTRACTOR SHALL VERIFY THE STATIC WATER ELEVATION OF THE PROPOSED/EXISTING DRAINAGE SYSTEM EACH ROADSIDE INLET IS A COMPONENT OF AND NOT INSTALL THE UNDERDRAIN BELOW THAT STATIC ELEVATION.
- 32. ANY AND ALL UTILITY CROSSINGS FOR WATER MAINS BETWEEN STORM OR SEWER PIPING SHOULD BE ACCOMPLISHED BY USING OF 45° BENDS BOTH DOWN AND UP.
- 33.ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON THE PLANS AND ARE NOT NECESSARILY ACCURATE AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES, EXCEPT AS NOTED BELOW. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UTILITY FACILITIES OTHER THAN SERVICE LINES FROM STREET MAINS TO ABUTTING PROPERTY WHEN SUCH FACILITIES ARE NOT SHOWN ON THE PLANS AND THEIR EXISTENCE IS UNKNOWN TO THE CONTRACTOR PRIOR TO THE DAMAGES OCCURRING PROVIDING THE ENGINEER DETERMINES THE CONTRACTOR HAS OTHERWISE FULLY COMPLIED WITH THE SPECIFICATIONS.
- 34.CONTRACTOR(S) SHALL VERIFY THE LOCATION OF ALL UNDERGOUND UTILITIES. CONTRACTOR(S) ARE RESPONSIBLE FOR LOCATING, PROTECTING, REPAIRING, AND REPLACING ANY AND ALL UNDERGROUND UTILITIES DURING ALL PHASES OF CONSTRUCTION. COLEMAN COMPANY, INC. HAS MADE A DILIGENT EFFORT TO LOCATE ALL ABOVE AND BELOW GROUND UTILITIES BUT CANNOT GUARANTEE THAT ALL PRESENT UTILITIES HAVE BEEN IDENTIFIED. CONTRACTOR SHALL "CALL BEFORE YOU DIG 811" AT LEAST 3 DAYS PRIOR TO DIGGING AND SHALL NOT BEGIN DIGGING UNTIL ALL UNDERGROUND UTILITY LOCATIONS ARE COMPLETE.
- 35. ALL DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED AT THE CONTRACTOR'S EXPENSE.
- 36.A CONTINUOUS RUN OF PLASTICIZED METALLIC TAPE SHALL BE INSTALLED ABOVE THE TOP OF PVC PIPE USED FOR GRAVITY SEWER AND FORCE MAINS AT APPROXIMATELY 30" BELOW FINISHED GRADE. THE TAPE SHALL BE SUITABLE FOR DETECTION WITH METAL PIPE LOCATION FOUIPMENT, COLOR CODED AND LABELED TO IDENTIFY CONTENTS OF THE PIPE AND BRIGHTLY COLORED TO CONTRAST WITH THE SOIL. IN ADDITION TO THE TAPE, A CONTINUOUS BUN OF TRACER WIRE SHALL BE ATTACHED TO THE PIPE AND CONNECTED TO MANHOLE RINGS. ON PIPE RUNS GREATER THAN 500', THE TRACER WIRE SHALL BE ATTACHED TO A 2" GALVANIZED PIPE WITH A 180 DEGREE BEND AT THE TOP, EXTENDING 36" ABOVE GRADE FOR CONNECTION TO LOCATOR EQUIPMENT. THE MAXIMUM DISTANCE BETWEEN 2" PIPE STUBS SHALL BE 500'.
- 37.ALL SANITARY SEWER LATERALS SHALL BE PROPERLY MARKED AT THE POINT WHERE LATERALS TERMINATE WITH PVC PIPE PAINTED GREEN. ADDITIONAL MARKINGS SHALL BE STAMPED IN THE CURB OR MARKED ON THE EDGE OF PAVING WITH AN APPROVED PERMANENT MARKER CAPABLE OF BEING LOCATED BY A MAGNETIC LOCATOR, SUCH AS A NAIL WITH CAP, IF NO CURB PRESENT. LATERALS SHALL BE MARKED WITH MARKING TAPE AN TRACER WIRE AS DESCRIBED ABOVE.
- 38.A CONTINUOUS RUN OF PLASTICIZED METALLIC TAPE SHALL BE INSTALLED ABOVE THE TOP OF PVC PIPE USED FOR WATER MAINS AT APPROXIMATELY 18" TO 24" BELOW FINISHED GRADE. THE TAPE SHALL BE SUITABLE FOR DETECTION WITH METAL PIPE LOCATION EQUIPMENT, COLOR CODED AND LABELED TO IDENTIFY CONTENTS OF THE PIPE AND BRIGHTLY COLORED TO CONTRAST WITH THE SOIL. IN ADDITION TO THE TAPE, A CONTINUOUS RUN OF TRACER WIRE SHALL BE ATTACHED TO THE PIPE AND CONNECTED TO CURB STOPS AND BROUGHT TO TOP OF VALVE. ON PIPE RUNS GREATER THAN 500', THE TRACER WIRE SHALL BE ATTACHED TO A 2" GALVANIZED PIPE WITH A 180 DEGREE BEND AT THE TOP, EXTENDING 36" ABOVE GRADE FOR CONNECTION TO LOCATOR EQUIPMENT. THE MAXIMUM DISTANCE BETWEEN 2" PIPE STUBS SHALL BE 500'.
- 39. ALL WATER SERVICES SHALL BE PROPERLY MARKED ABOVE GROUND WITH PVC PIPE PAINTED BLUE. ADDITIONAL MARKINGS SHALL BE STAMPED IN THE CURB OR MARKED ON THE EDGE OF PAVING WITH AN APPROVED PERMANENT MARKER CAPABLE OF BEING LOCATED BY A MAGNETIC LOCATOR, SUCH AS A NAIL WITH CAP, IF NO CURB PRESENT. SERVICES SHALL BE MARKED WITH MARKING TAPE AN TRACER WIRE AS DESCRIBED ABOVE.
- 40. TRACER WIRE SHALL BE REQUIRED ON ALL STORM PIPE.
- 41. THE CONTRACTOR SHALL HAVE APPROVED PLANS ON SITE AT ALL TIMES DURING LAND DISTURBING ACTIVITIES.
- 42. THE CONTRACTOR SHALL HAVE A CERTIFIED EROSION AND SEDIMENTATION CONTROL INSPECTOR ON SITE AT ALL TIMES DURING LAND DISTURBING ACTIVITIES.
- 43. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE COUNTY OF CHATHAM'S LATEST CONSTRUCTION SPECIFICATIONS AND DETAILS.

44. AN APPROVED WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON SITE.

- HOURS PRIOR TO DIGGING.
- 48. STORM SEWER SPECIFICATIONS FOR MANHOLE COVER IN STREET:

- SMOOTH AND WELL CLEANED BY SHOT BLASTING.

- BELOW THOSE VALUES REPRESENTED BY THE MANUFACTURER.
- THAT ACHIEVES THE SAME MEANING.
- 49.INTERNATIONAL FIRE CODE, 2012 EDITION: SECTION 3310 ACCESS FOR FIREFIGHTING
- UNTIL PERMANENT FIRE APPARATUS ACCESS ROADS ARE AVAILABLE.
- SECTION 3312 WATER SUPPLY FOR FIRE PROTECTION
- MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE. ORDINANCES.
- STANDARDS, SPECIFICATIONS, OR DETAILS, THE COUNTY OF CHATHAM STANDARDS ARE TO TAKE PRECEDENCE.
- EROSION CONTROL NOTES:
- 1. EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING BEST MANAGEMENT PRACTICES (BMP'S) ON THE SITE AT ALL
- CONTROL OF GEORGIA".
- 2. NARRATIVE DESCRIPTION: LOCATION: POOLER, GEORGIA
- <u>PINs:</u> N/A
- CULVERT AT THE HARDIN CANAL.
- SIZE: TOTAL PROPERTY ACREAGE: N/A DISTURBED ACREAGE:
- ZONING CLASSIFICATION: N/A
- MAXIMUM BUILDING HEIGHT: N/A
- PHASES: THE WORK WILL BE PERFORMED IN ONE PHASE.
- 3. THERE ARE APPARENT WATERS OF THE UNITED STATES WITHIN 200 FEET OF THE PROJECT SITE.
- 4. THERE ARE APPARENT WETLANDS PRESENT ON THE PROPERTY.
- 5. ALL SUITABLE TOPSOIL WILL BE STOCKPILED BY THE CONTRACTOR AND SPREAD IN PROPOSED VEGETATIVE AREAS PRIOR TO LANDSCAPE INSTALLATION.
- MASCOTTE SCAND (Mn): WAHEE SANDY LOAM (Waf)
- 7. THIS SITE IS CURRENTLY DEVELOPED AS RAILROAD RIGHT-OF-WAY
- THE STANDARDS AND SPECIFICATIONS OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL OF GEORGIA".
- TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE OWNER.
- 10. THE CONTRACTOR SHALL ENSURE THAT STRUCTURAL EROSION CONTROL MEASURES ARE INSPECTED DAILY. ANY DEFICIENCIES, INCLUDING SILT REMOVAL, OBSERVED SHALL BE REPAIRED BY THE END OF THAT DAY'S WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A DAILY INSPECTION LOG AND NOTIFYING THE OWNER AND ENGINEER OF ANY DEFICIENCIES
- IDENTIFIED IN THE EROSION CONTROL MEASURES. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE STABILIZED. 11. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF
- EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
- OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL. ADDITIONAL EROSION AND SEDIMENT CONTROL WILL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- 13. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD OF GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- 14. ACCORDING TO THE FLOOD INSURANCE RATE MAPS, AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, THIS PROJECT SITE DOES APPEAR TO LIE IN AN FLOOD HAZARD AREA AS DEPICTED ON FIRM PANEL NO. 13051C0109F EFFECTIVE DATE: SEPTEMBER 26
- 15. CONTACT INFORMATION:

F: 912.200.3056

- CIVIL ENGINEER: RAVIS BURKE, PE COLEMAN COMPANY, INC. 1480 CHATHAM PARKWAY, SUITE 100 SAVANNAH, GA 31405 P: 912.200.3041
- 16. THE INITIAL RECEIVING WATER FOR THIS PROJECT IS THE PIPEMAKERS CANAL TRIBUTARY. FINAL RECEIVING WATERS ARE THE PIPE MAKERS CANAL. 17. ANY ON-SITE FUEL STORAGE TANK MUST BE PROTECTED FROM LEAKS, SPILLS, AND RUPTURE AS PER APPLICABLE CODES.
- 1/2 THE FENCE HEIGHT.

STABILIZATION IS ACH	IEVED.			
AREA IMPE	RVIOUS	<u>CN</u>	<u>Q25</u>	
PRE-DEVELOPMENT	9.17ac	0.00ac	80	(±)36.12 cfs Tc=18.4min.
POST-DEVELOPMENT	9.17ac	4.52ac	89	(±)19.30 cfs Tc=20.0min.

SITE INFORMATION:

- PARENT PIN: N/A ZONING DISTRICT: N/A FLOOD ZONE: X, AE SIZE: N/A
- PROPOSED LAND USE:

45. ALL CURB AND GUTTER TO BE 18" STANDARD CURB UNLESS OTHERWISE NOTED.

46. FOR CITY WATER AND SEWER LINE LOCATIONS, CONTACT THE "CALL BEFORE YOU DIG 811" A MINIMUM OF SEVENTY-TWO (72)

47. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE REPORT OF GEOTECHNICAL ENGINEERING REPORT PREPARED FOR THIS PROJECT BY . A COPY CAN BE OBTAINED, AT CONTRACTOR'S EXPENSE, EITHER DIRECTLY FROM OR FROM THE ENGINEER.

GENERAL: ALL CASTINGS SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA BY NEENAH FOUNDRY COMPANY, U.S. FOUNDRY & MANUFACTURING CORPORATION, EAST JORDAN IRON WORKS, INC. OR APPROVED EQUAL. THEY SHALL BE OF UNIFORM QUALITY, FREE FROM SAND HOLES, SHRINKAGE, CRACKS, COLD SHUTS OR OTHER DEFECTS. CASTINGS SHALL BE

MATERIALS: GRAY IRON CASTINGS SHALL BE MANUFACTURED FROM IRON CONFORMING TO ASTM A48 CLASS 35B AND ASTM A48 CLASS 30. DUCTILE IRON CASTINGS SHALL BE MANUFACTURED TRUE TO PATTERN AND COMPONENT PARTS SHALL FIT TOGETHER PROPERLY, ROUND MANHOLE FRAMES, COVERS AND GRATES SHALL HAVE MACHINED BEARING SURFACES TO PREVENT ROCKING. TOLERANCES SHALL BE ACCEPTED FOUNDRY STANDARDS AS OUTLINED IN THE IRON CASTINGS HANDBOOK PUBLISHED BY THE AMERICAN FOUNDRYMEN'S SOCIETY, INC. CASTINGS WEIGHTS SHALL NOT VARY MORE THAN 5% ABOVE OR

MARKINGS: ALL CASTINGS SHALL BE CLEARLY MARKED WITH THE MANUFACTURE'S NAME, COMPANY LOGO AND "MADE IN USA" IN CAST LETTERS ADDATIONALLY, THE TOP OR TRAFFIC SIDE OF ALL CASTINGS SHALL BE CLEARLY MARKED "STORM" AND "COUNTY OF CHATHAM " IN FLUSH CAST LETTERS AND THE TOP OR TRAFFIC SIDE OF ALL CASTINGS DESIGNED TO COLLECT WATER, (CATCH BASINS, GRATES, ETC.) SHALL BE CLEARLY MARKED "DRAINS TO RIVER - DO NOT DUMP" OR SIMILIAR VERBAIGE

3310.1 REQUIRED ACCESS. APPROVED VEHICLE ACCESS FOR FIREFIGHTING SHALL BE PROVIDED TO ALL CONSTRUCTION OR DEMOLITION SITES. VEHICLE ACCESS SHALL BE PROVIDED TO WITHIN 100 FEET (30 480 MM) OF TEMPORARY OR PERMANENT FIRE DEPARTMENT CONNECTIONS VEHICLE ACCESS SHALL BE PROVIDED BY FITHER TEMPORARY OR PERMANENT ROADS CAPABLE OF SUPPORTING VEHICLE LOADING UNDER ALL WEATHER CONDITIONS. VEHICLE ACCESS SHALL BE MAINTAINED

3312.1 WHEN REQUIRED. AN APPROVED WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE

50.MAXIMUM BUILDING HEIGHT IS TO BE 45' PER APPENDIX A, ARTICLE III, SECTION 6 OF THE COUNTY OF CHATHAM CODIFIED

51. IN THE CASE OF ANY CONFLICT OF THESE CONSTRUCTION DOCUMENTS AND THE COUNTY OF CHATHAM CODIFIED ORDINANCES,

TIMES IN ACCORDANCE WITH THESE PLANS AND THE "MANUAL FOR EROSION AND SEDIMENT

NATURE OF WORK: THE OWNER IS PROPOSING TO CONSTRUCT 3,154 LF OF RAILROAD SIDE TRACK AND INSTALL LARGER

3.16 ACRES

6. THE SOILS ON SITE ARE : CAPE FEAR SOILS (Cc); OCILLA COMPLEX (Oj); OGEECHEE LOAMY FINE SAND (Ok);

8. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES IN ACCORDANCE WITH

9. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES, WHETHER

12. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION

OWNER/REPRESENTATIVE CONTAC GENESEE & WYOMING RAILROAD SERVICES, INC ATTN: MR. BRENT AZZO 13901 SUTTON PARK DRIVE SOUTH, SUITE 160 JACKSONVILLE, FL brent.azzo@gwrr.com

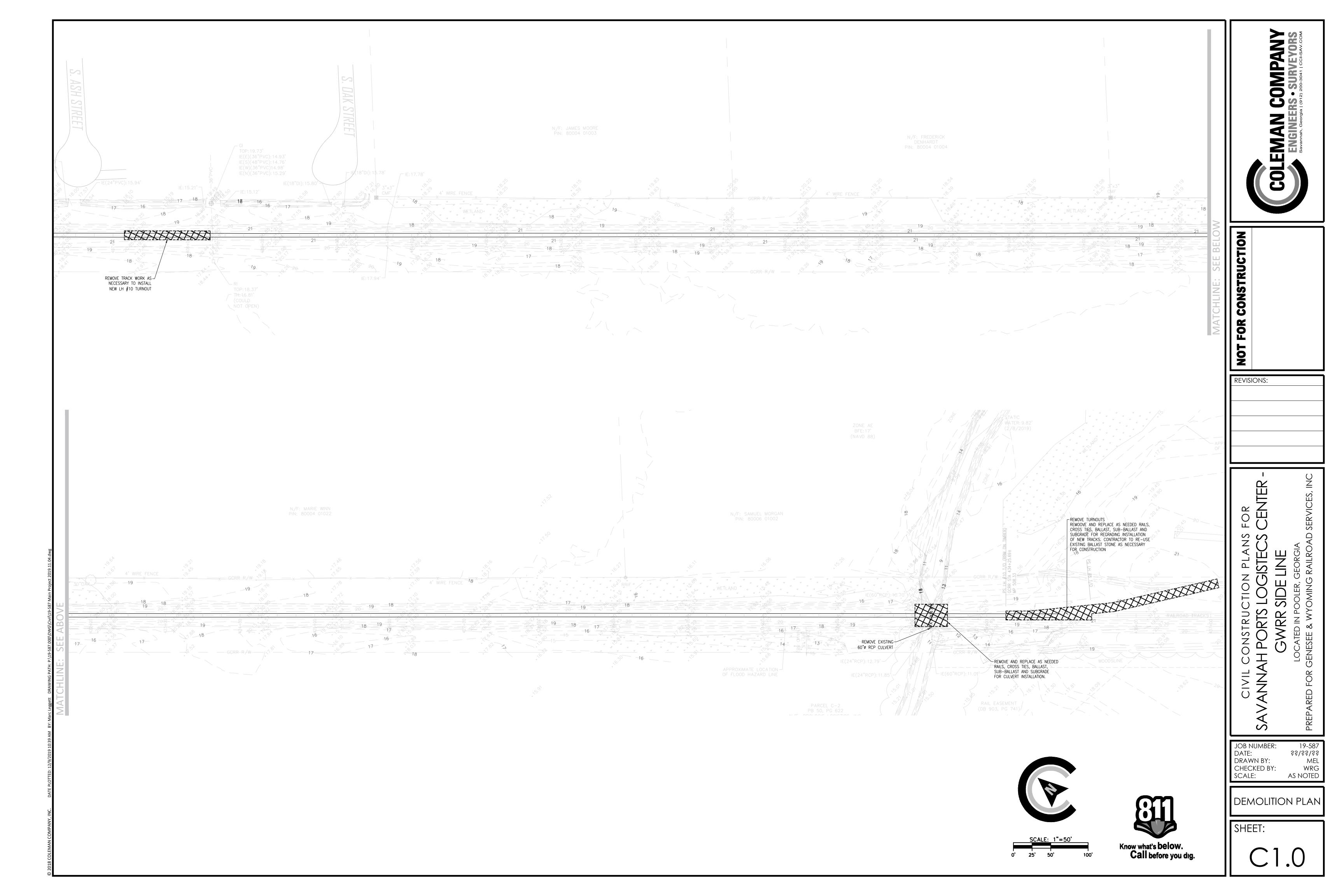
18. SILT FENCE MUST BE INSPECTED DAILY FOR FAILURES AND CLEANED OUT WHEN SILT REACHES

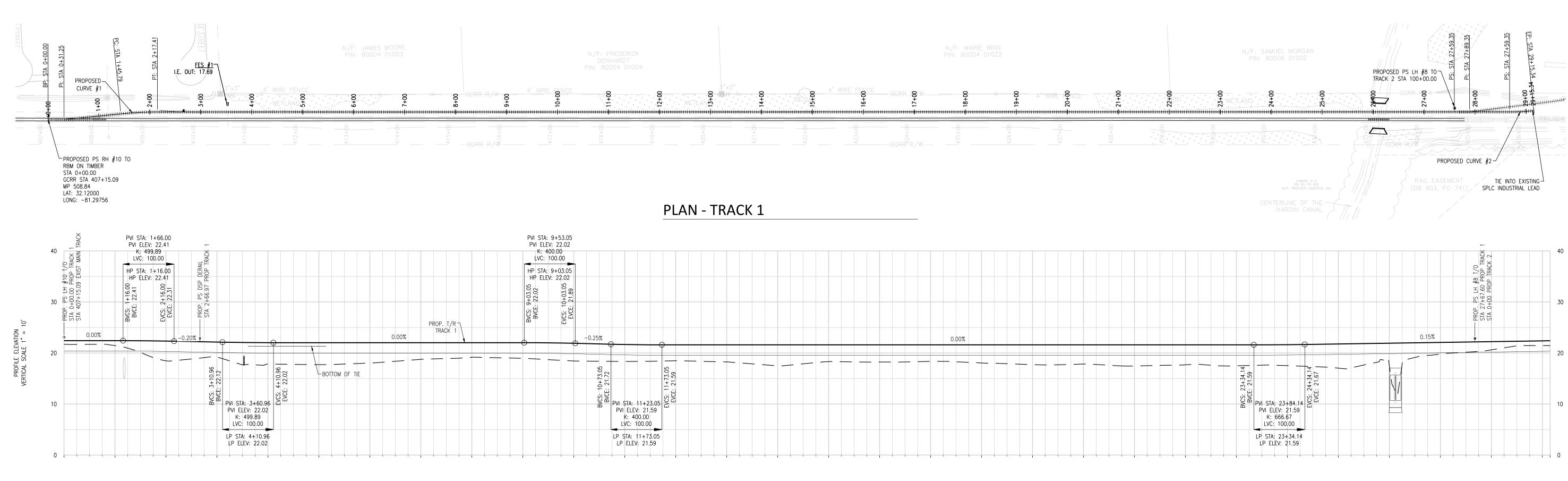
19. ALL TEMPORARY BMPS FOR EROSION & SEDIMENT CONTROL SHALL BE REMOVED ONCE FINAL

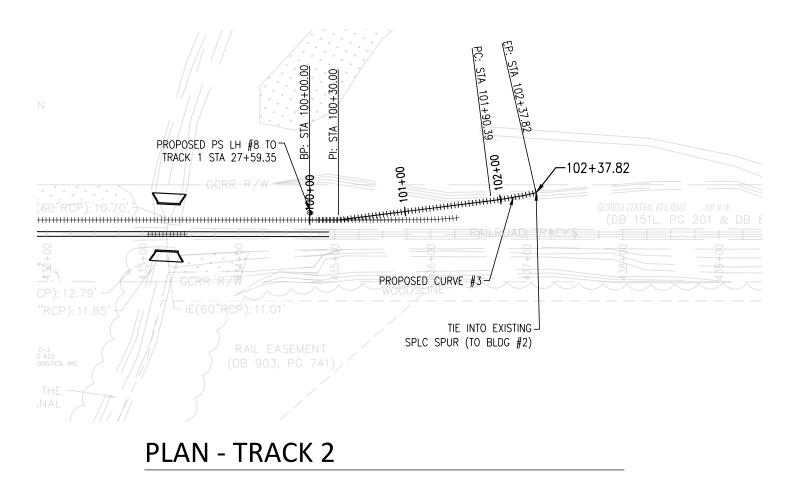
PROPOSED RAILROAD LEAD TRACK PROVIDING SERVICE TO THE SAVANNAH PORTS LOGISTECS CENTER

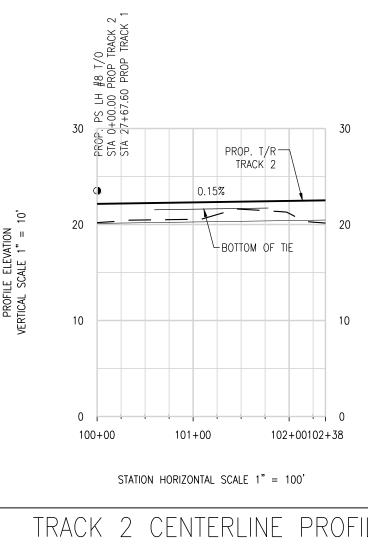
	COLEMAN COMPANYBIGINEERS • SURVEYORSSavanah, Georgia I (912) 200-3041 CCI-SAV.COM
NOT FOR CONSTRUCTION	
REVIS	IONS:
CIVIL CONSTRUCTION PLANS FOR	SAVANNAH PORTS LOGISTECS CENTER - GWRR SIDE LINE LOCATED IN POOLER, GEORGIA PREPARED FOR GENESEE & WYOMING RAILROAD SERVICES, INC
DATE: DRAV	VN BY: MEL CKED BY: WRG
	DNSTRUCTION NOTES
SHE	
	C0.0











TRA	ACK	1	CE	NTE	RLINE	PROFILE
STA.	0+(00	.00	TO	STA.	29+15.34

STATION HORIZONTAL SCALE 1" = 100'

	Z CENIER	LINE	PROFILE
STA. 100+	00.00 TO	STA.	102+37.82

CURVE DATA

TRACK NO.	CURVE NO.	Δ	Dc	R	Т	LENGTH (CHORD)	LENGTH (ARC)	PC STA	PT STA		
TRACK 1	CURVE# 1	05°43'29"	8°00'00"	716.78	35.84	71.56	71.62	01+45.79	02+17.41		
TRACK 1	CURVE# 2	05°40'56"	12°00'00"	478.34	23.74	47.35	47.44	28+67.90	29+15.34		
TRACK 2	CURVE# 3	05°40'53"	12°00'00"	478.34	23.74	47.34	47.43	101+90.39	102+37.82		

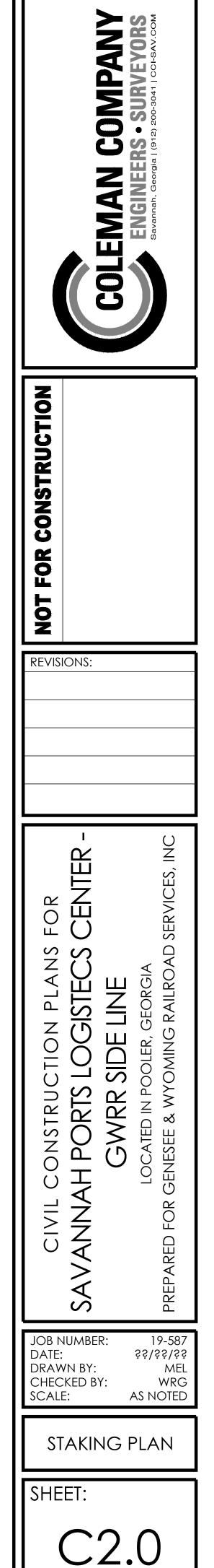
CHORD DEFINITION USED FOR DEGREE OF CURVE
 PC AND PT STATIONS ARE BASED ON LENGTH OF CURVE AS MEASURED ALONG ARC.

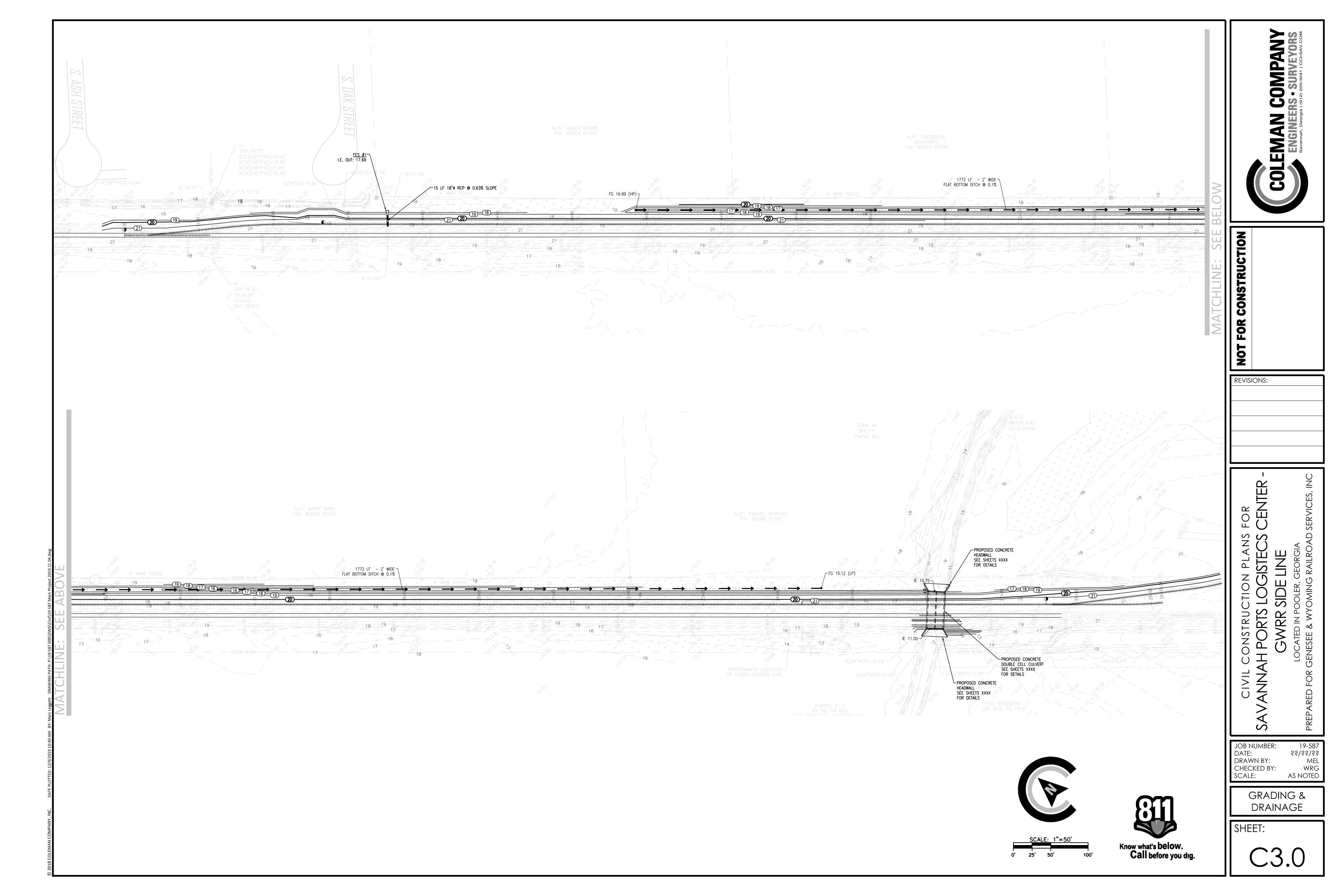
Δ	ANGLE OF INTERSECTION
BP	BEGINNING POINT
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
Ę	CENTERLINE
Dc	DEGREEE OF CURVE
DSP	DOUBLE SWITCH POINT
EP	ENDING POINT
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
GCRR	GEORGIA CENTRAL RAILROAD
GWRR	GENESSEE & WYOMING RAILROAD
K	LENGTH OF VERTICAL CURVE (m) FOR 1% GRADE CCHANGE
-	LENGTH
LH	LEFT HAND
_VC	LENGTH OF VERTICAL CURVE
NO.	NUMBER
PC	POINT OF CURVE
Pl	POINT OF INTERSECTION
PS	POINT OF SWITCH
PT	POINT OF TANGENT
PVI	POINT OF VERTICAL CURVE
R	RADIUS
RH	RIGHT HAND
R/W	RIGHT OF WAY
STA	STATION
Т	TANGENT
TO	TURNOUT
T/R	TOP RAIL

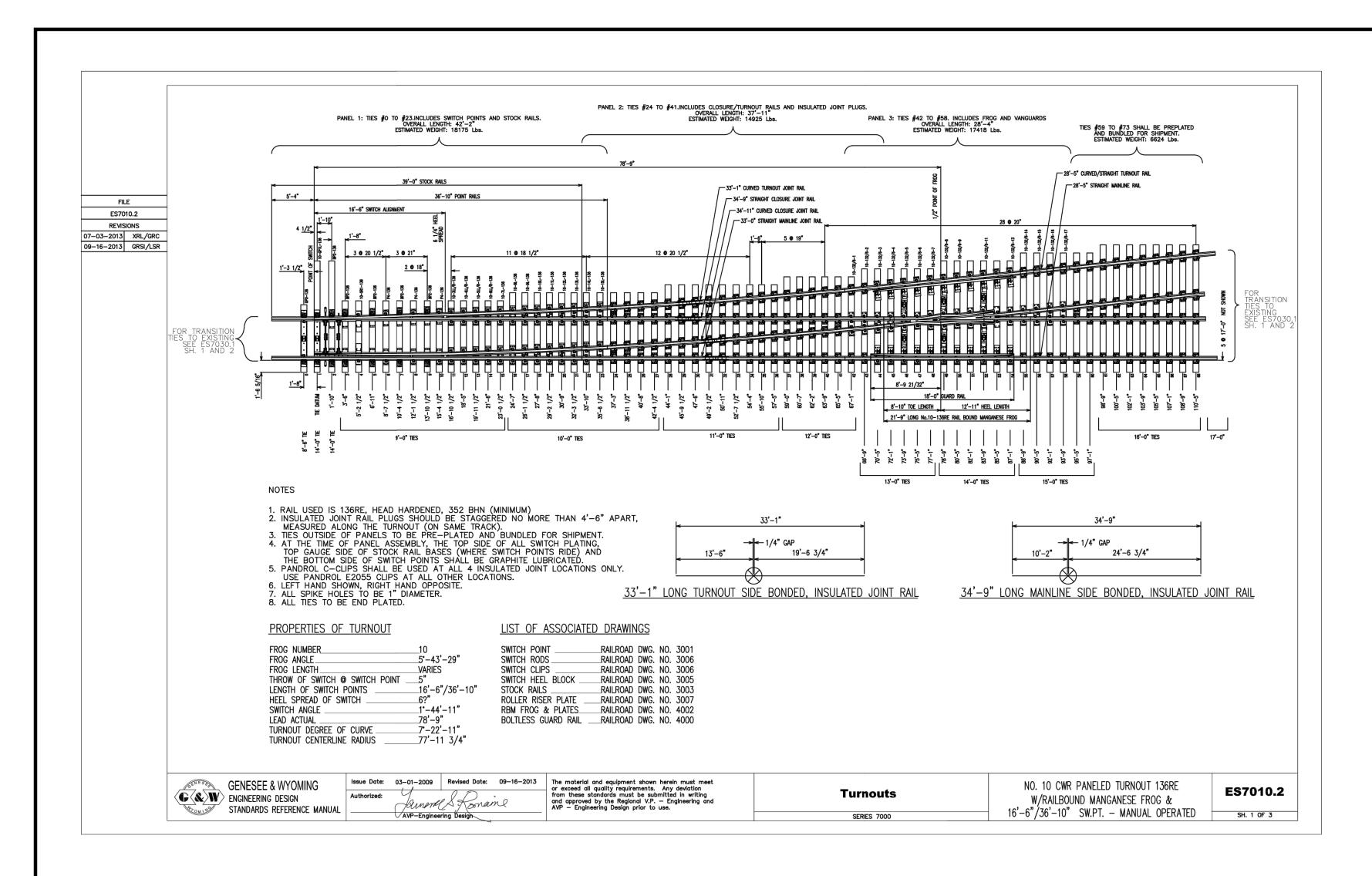


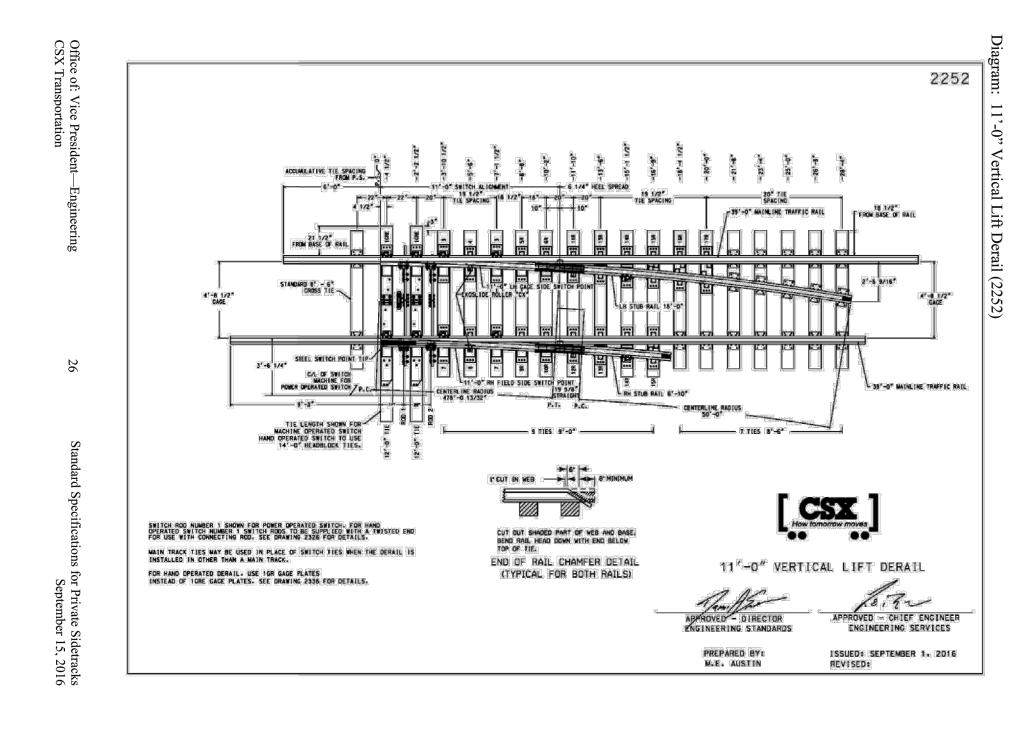
SCALE: 1"=100 100

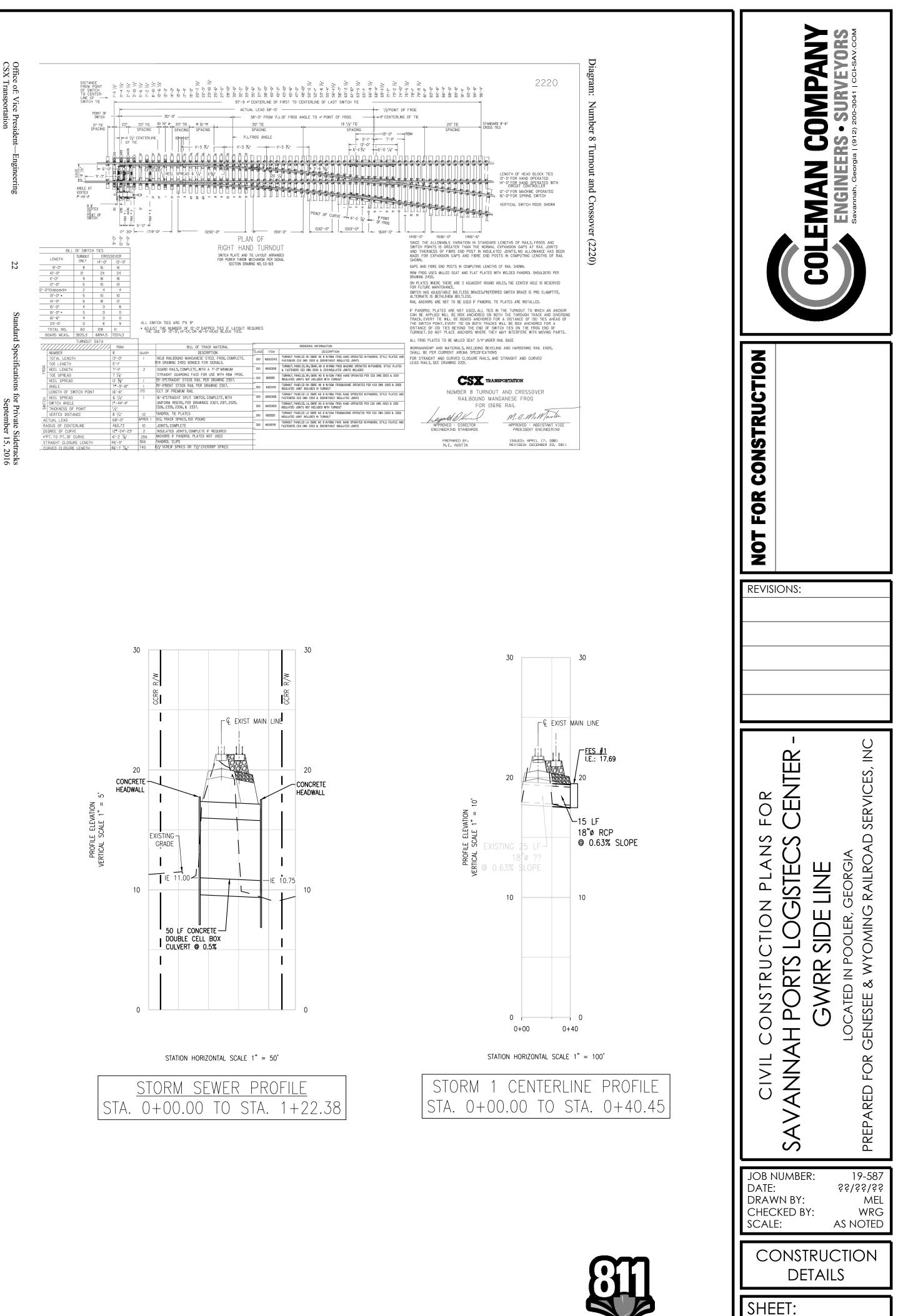


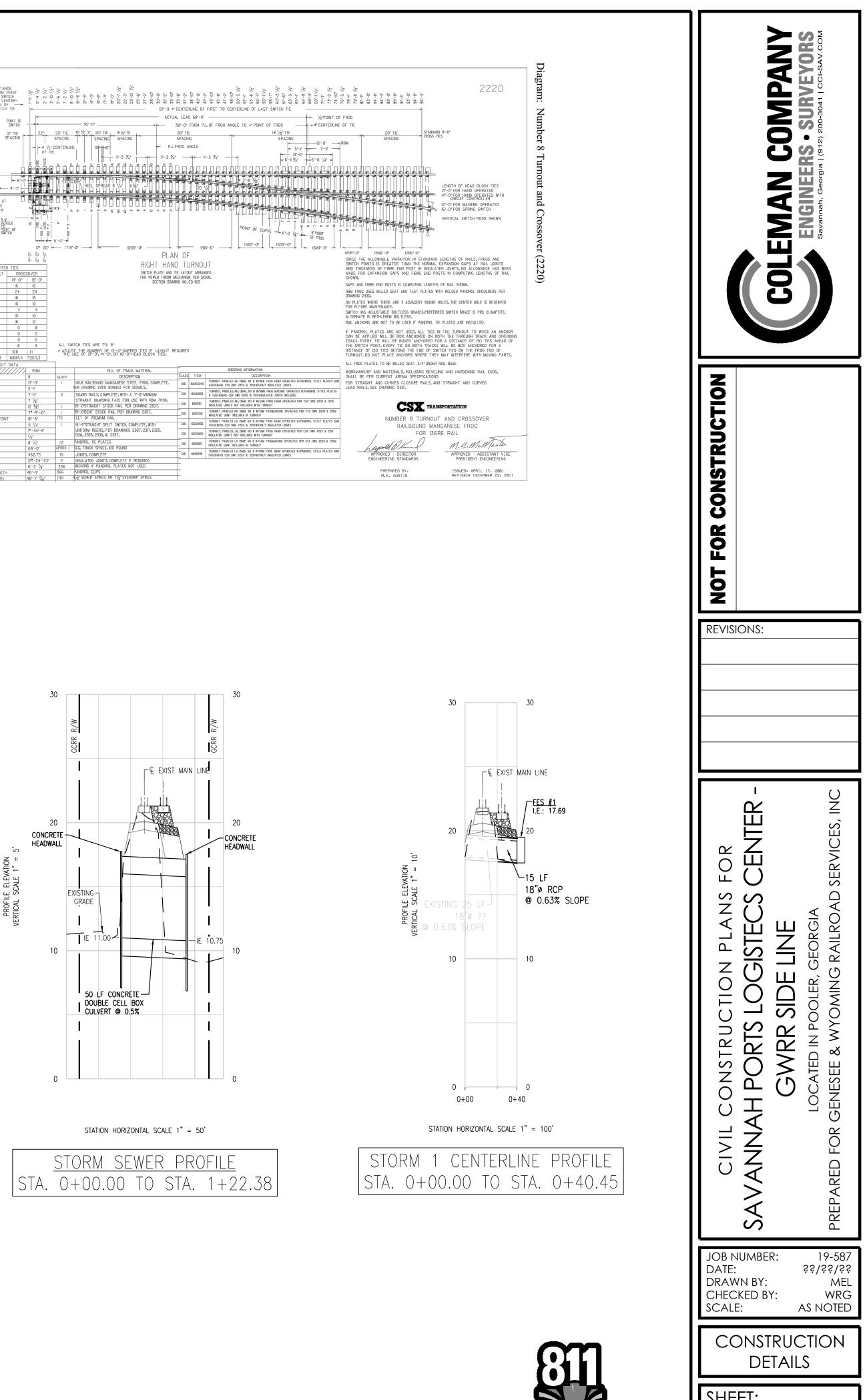




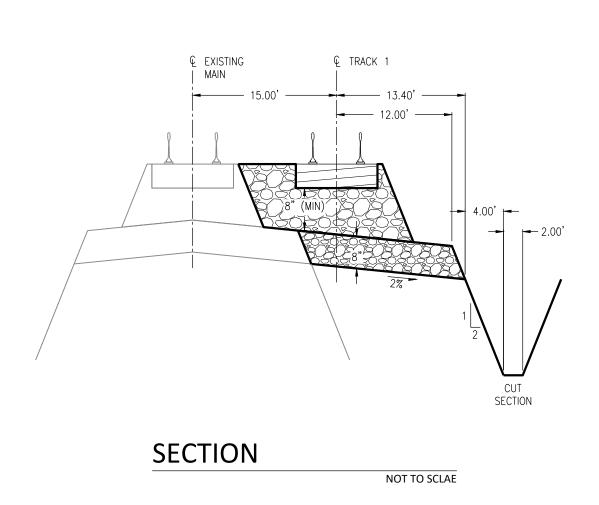


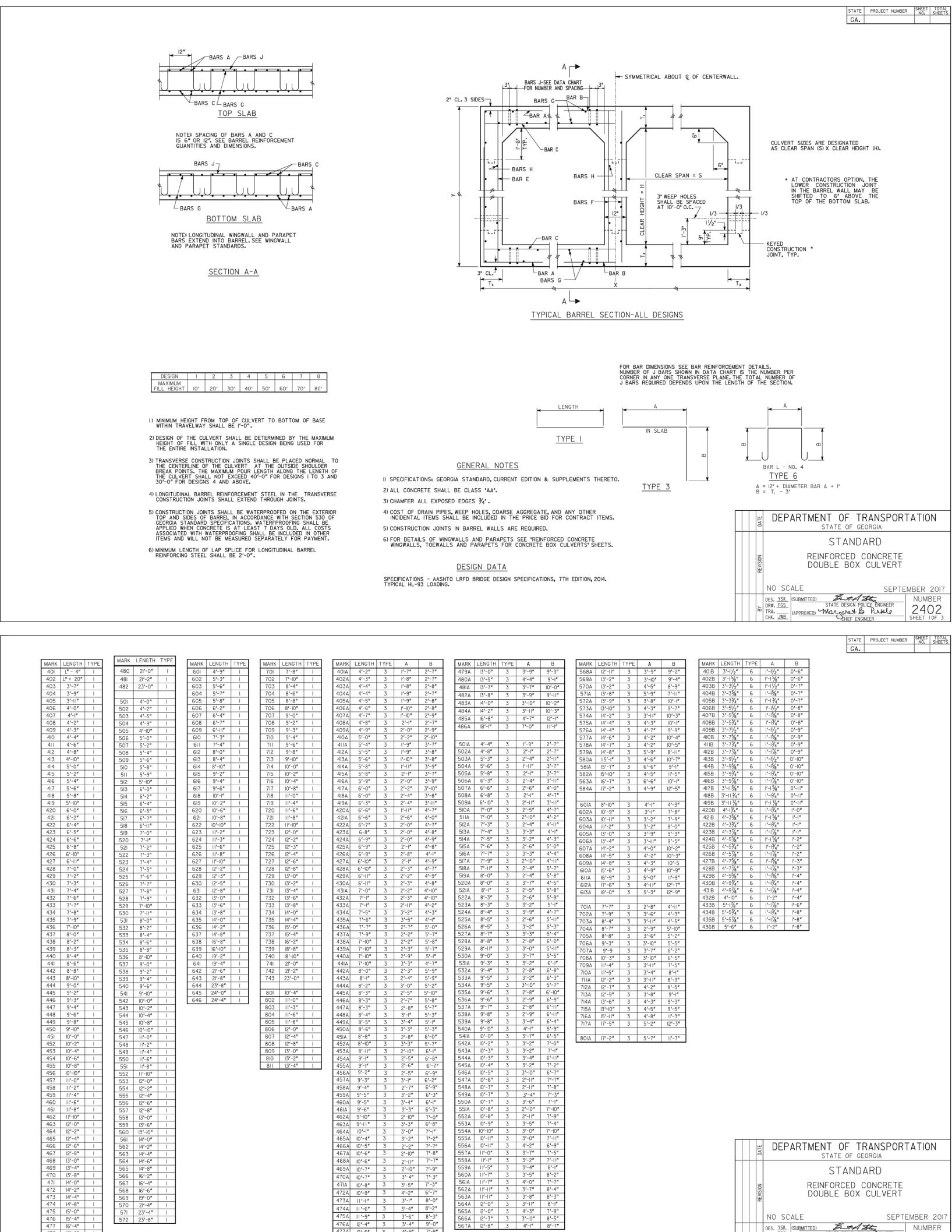






	STORM	SE	WEF	r Pf
STA.	0+00.0	00	TO	STA





 475A
 II'-9"
 3
 3'-6"
 8'-3"

 476A
 I2'-4"
 3
 3'-4"
 9'-0"

 477A
 I2'-5"
 3
 4'-9"
 7'-8"

478A 12'-9" 3 3'-7" 9'-2"

474 |4'-8" | 475 I5'-0" I 476 I5'-4" I

 476
 13
 4
 1

 477
 16'-4"
 1

 478
 18'-8"
 1

 479
 18'-10"
 1

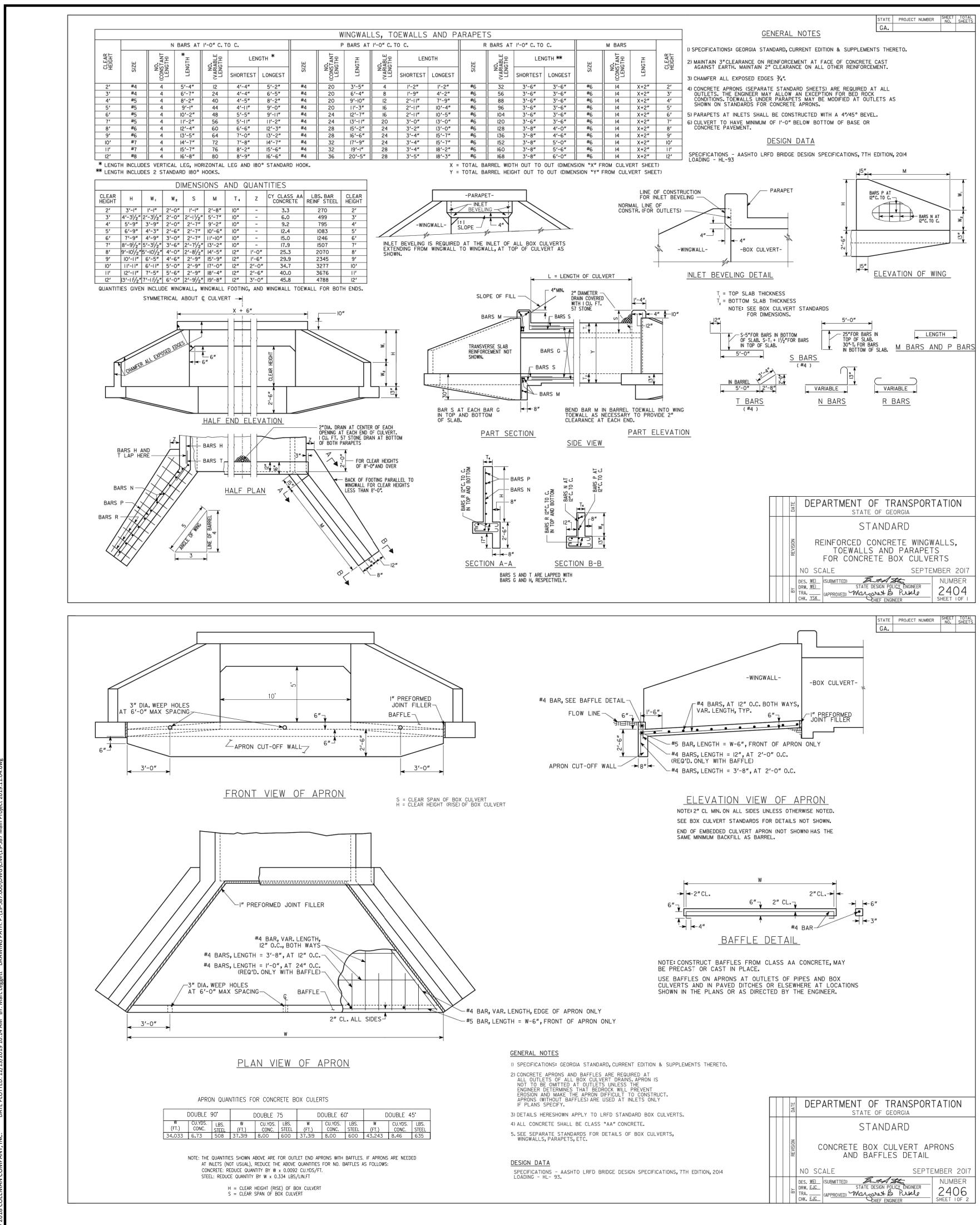
L = LENGTH OF CULVERT

		DOUBLE	: 10'-0" X	5'-0" BOX	CULVERT			
		BARREL F	REINFORCEMENT	QUANTITIES AND	DIMENSIONS			
DESIGN	I	2	3	4	5	6	7	8
BAR A	449A @ 6"	450A @ 6"	706A @ I2"	534A @ 6"	540A @ 6"			
BAR B	562 @ 6"	635 @ 6"	730 @ 6"	732 @ 6"	811@6"			
BAR C	743 @ I2"	571@6"	572@6"	645 @ 6"	646 @ 6"			
BAR E	428 @ 12"	431 @ 12"	434 @ 12"	437 @ 12"	440 @ 12"			
BAR F	519 @ 12"	431 @ 12"	434 @ 12"	437 @ 12"	440 @ 12"			
BAR G IN 2 SLABS	64 - 401	68 - 401	68 - 401	80 - 40	80 - 401			
BAR H IN 3 WALLS	20 - 402	20 - 402	20 - 402	24 - 402	24 - 402			
BAR J IN EXT. CORNER	0	0	0	0	0			
BAR J IN INT. CORNER	0	0	3-43IB @ 111/2"	4-433B @ 13"	4-436B @ 131/4"			
T ₁	4"	16"	18"	20″	22"			
T ₂	15"	17"	19"	21"	23"			
T ₃	4"	16″	18"	20″	22″			
X	23'-4"	23'-8"	24'-0"	24'-4"	24'-8"			
Y	7'-5″	7'-9"	8'-1"	8'-5"	8'-9"			
YD ³ CLASS AA CONCRETE/FT	2.724	3.108	3.500	3.900	4.309			
LB BAR REINF STEEL/FT	278.2	305.3	380.6	451.5	491.8			
		,	END, AND TOEW			TOTAL		
YD3 CLASS AA CONCRETE	9.7	10.1	10.4	10.8	.			
LB BAR REINF STEEL	1285	1320	1318	1464	1462			
			END, AND TOEW			TOTAL		
YD ³ CLASS AA CONCRETE	10.1	10.5	10.8	11.2	11.6			
LB BAR REINF STEEL	1616	1656	I658 END, AND TOEW		1812	TOTAL		
YD ³ CLASS AA CONCRETE	1.3	II.7	I2.I	I2.5	- 60" SKEW -	TUTAL		
LB BAR REINF STEEL	11.5	1758	12.1	12.5	12.9			
LD DAR REINF STEEL			END, AND TOEW			ΤΟΤΑΙ		
YD ³ CLASS AA CONCRETE	13.9	14.3	14.8	15.4	15.9			
LB BAR REINF STEEL	1957	2001	2007	2165	2172			

	DATE	DEP	ARTME	NT stati				TATION		
				ST	ΓΑΝ	DAF	RD.			
	REVISION		REINFORCED CONCRETE DOUBLE BOX CULVERT							
		NO SC	ALE				SEPT	EMBER 2017		
	ΒY	DES. <u>YSK</u> DRW. <u>FGS</u> TRA CHK. <u>JWB</u>	(SU <u>BMITTED)</u> (AP <u>PROVED)</u>	STATE Mar	1	A SC I POLICY B F ENGINEER	ENGINEER Svele	NUMBER 2402 Sheet 3 of 3		

		COLEMAN COMPANY	ENGINEERS - SURVEYORS Savannah, Georgia I (912) 200-3041 CCI-SAV.COM	
NOT FOR CONSTRUCTION				
REVISI	ONS:			
CIVIL CONSTRUCTION PLANS FOR	SAVANNAH PORTS LOGISTECS CENTER -	GWRR SIDE LINE	LOCATED IN POOLER, GEORGIA	Prepared for genesee & wyoming railroad services, inc
DATE: DRAV	IUMBE /N BY: KED B E:	Y:	\$\$\3	9-587 ??/?? MEL WRG OTED
СС	DNS1 DE	ruc Tail		NC
SHE	ET:			
	С	4	. 1	

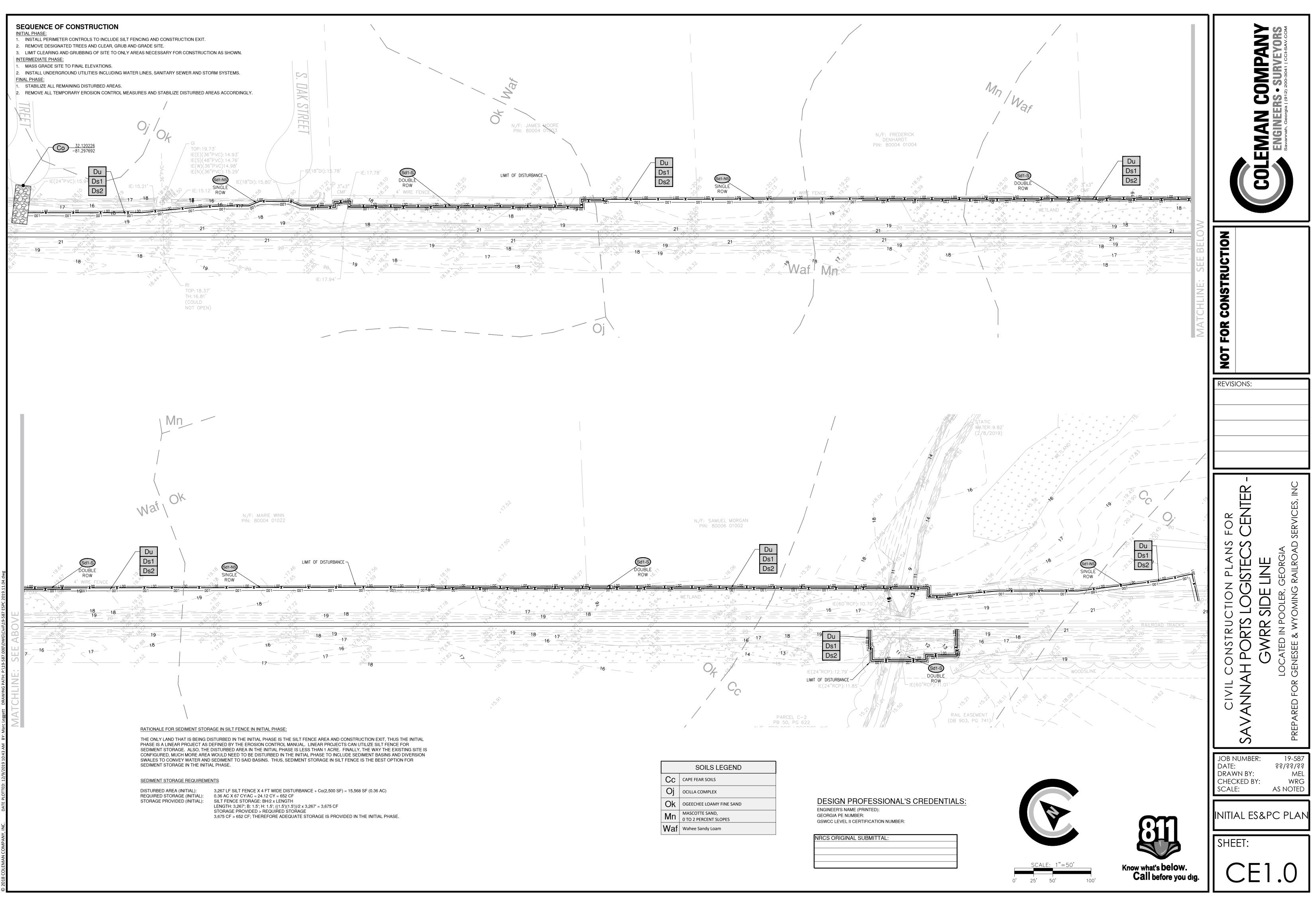




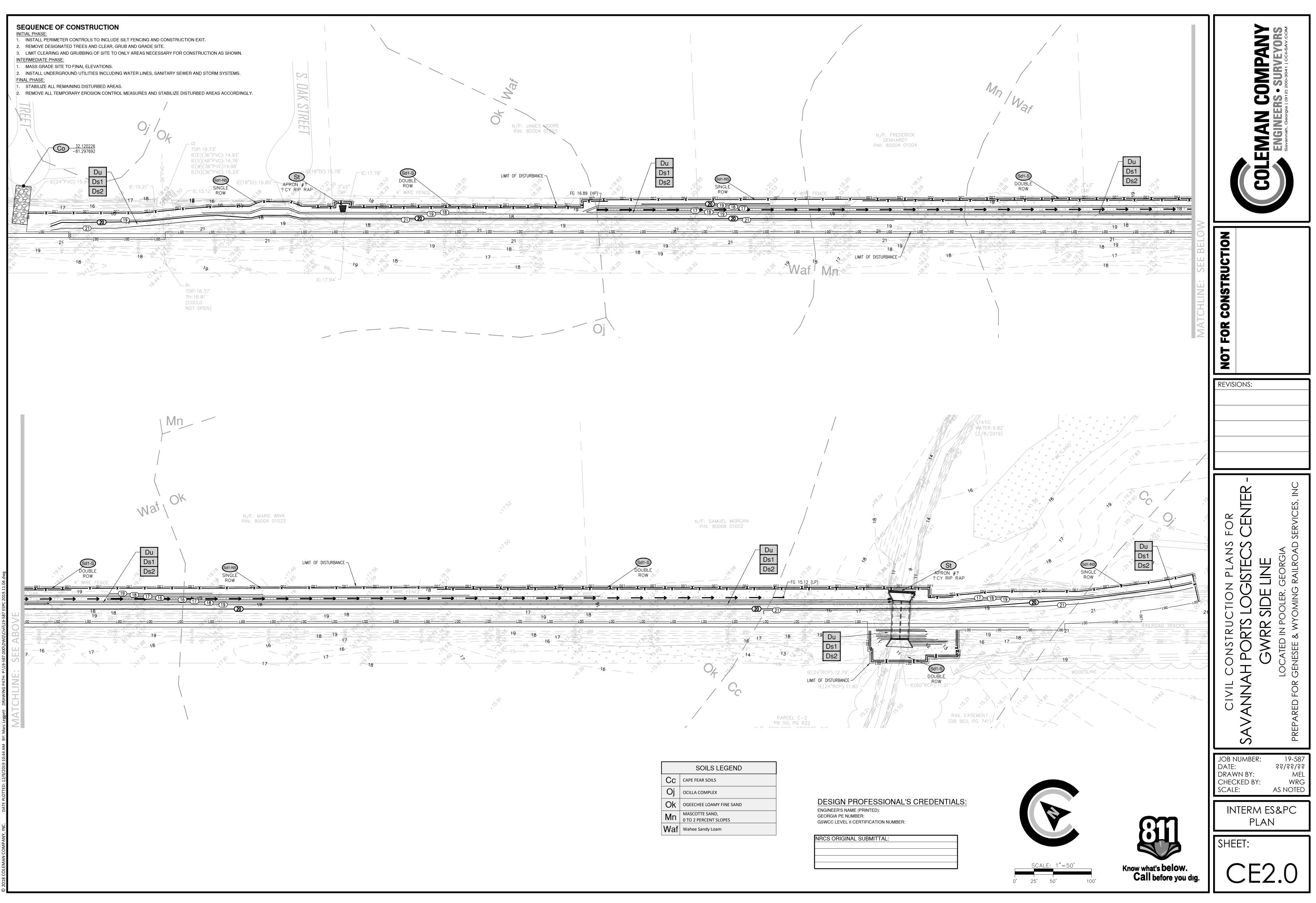
DLEMAN COMPANY, INC. DATE PLOTTED: 12/13/2019 10:14 AM BY: Marc Leggett DRAWING PATH: P:\19-587.000\DWG\Civil\19-587 Main Project 2019.11.04.d

	COLEMAN COMPANY BUGUERNA COMPANY Savanah, Georgia I (912) 200-3041 I CCI-SAV.COM
NOT FOR CONSTRUCTION	
REVIS	ions:
CIVIL CONSTRUCTION PLANS FOR	SAVANNAH PORTS LOGISTECS CENTER - <i>GWRR SIDE LINE</i> LOCATED IN POOLER, GEORGIA PREPARED FOR GENESEE & WYOMING RAILROAD SERVICES, INC
DATE: DRAV	VN BY: MEL CKED BY: WRG
СС	ONSTRUCTION DETAILS
SHE	
	<u>4.</u>

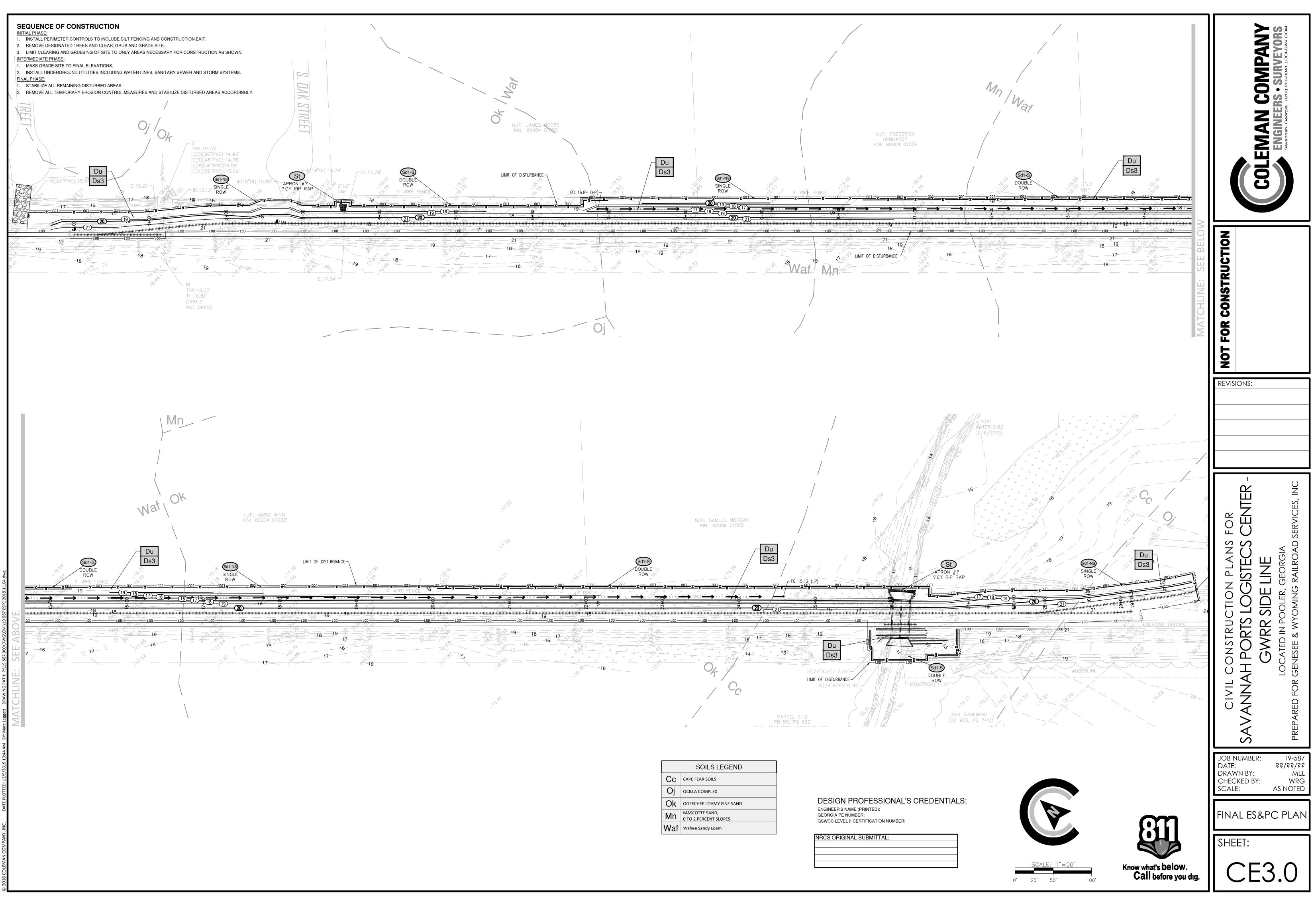




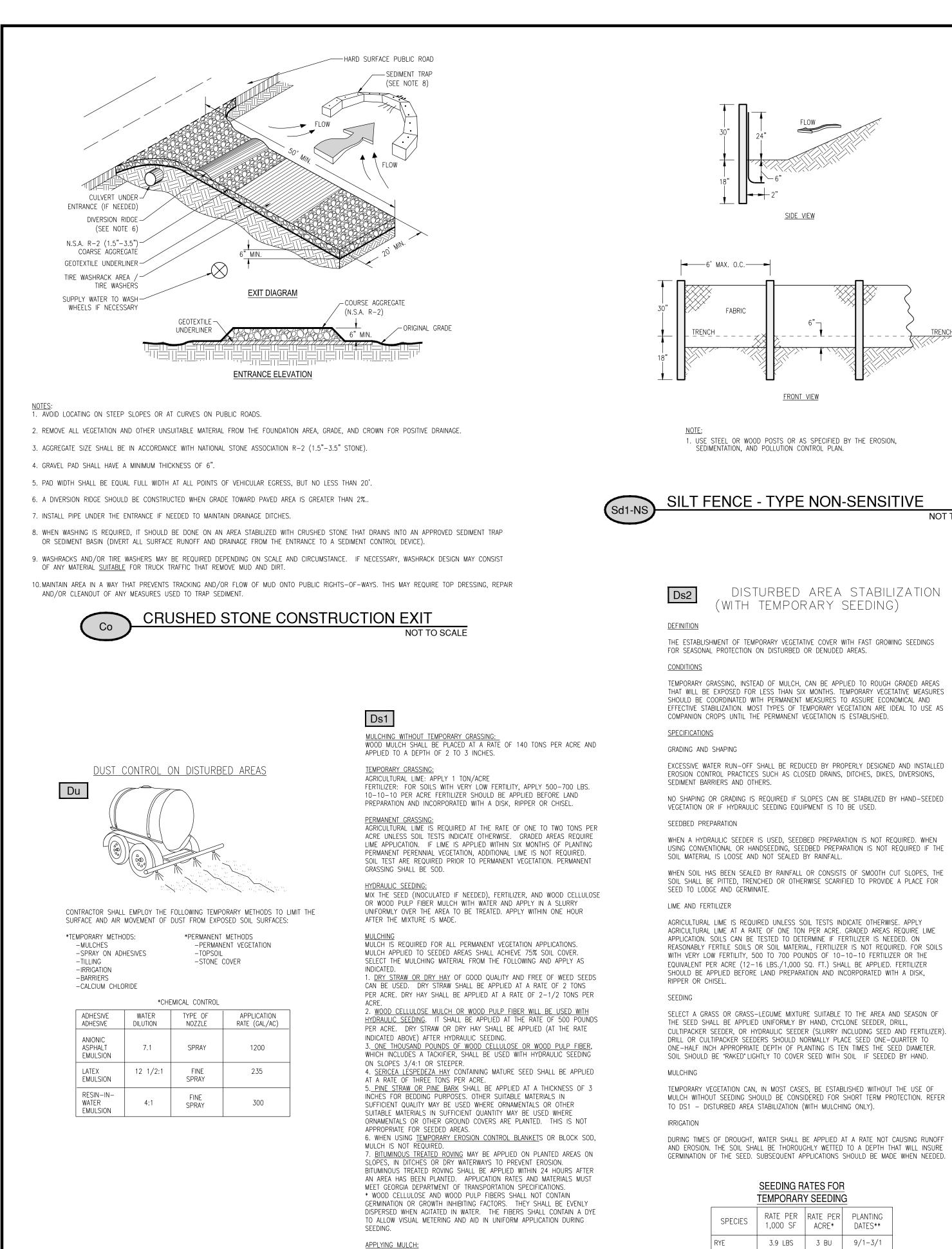
SOILS LEGEND						
Cc	CAPE FEAR SOILS					
Oj	OCILLA COMPLEX					
Ok	OGEECHEE LOAMY FINE SAND					
Mn	MASCOTTE SAND,					
IVITI	0 TO 2 PERCENT SLOPES					
Waf	Wahee Sandy Loam					



SOILS LEGEND						
Cc	CAPE FEAR SOILS					
Oj	OCILLA COMPLEX					
Ok	OGEECHEE LOAMY FINE SAND					
Mn	MASCOTTE SAND,					
IVITI	0 TO 2 PERCENT SLOPES					
Waf	Wahee Sandy Loam					



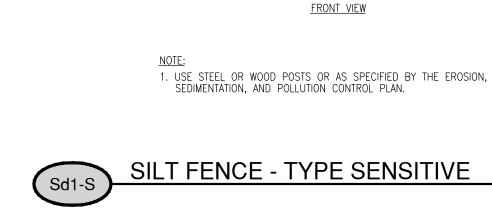
SOILS LEGEND						
Cc	CAPE FEAR SOILS					
Oj	OCILLA COMPLEX					
Ok	OGEECHEE LOAMY FINE SAND					
Min	MASCOTTE SAND,					
Mn	0 TO 2 PERCENT SLOPES					
Waf	Wahee Sandy Loam					



STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE. WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

NOT TO SCALE

TEMPORARY SEEDING										
SPECIES	RATE PER 1,000 SF	RATE PER ACRE*	PLANTING DATES**							
RYE	3.9 LBS	3 BU	9/1-3/1							
RYEGRASS	0.9 LB	40 LBS	8/15-4/1							
ANNUAL LESPEDEZA	0.9 LB	40 LBS	1/15-3/15							
WEEPING LOVEGRASS	0.1 LB	4 LBS	2/15-6/15							
SUDANGRASS	1.4 LBS	60 LBS	3/1-8-1							
BROWNTOP MILLET	0.9 LB	40 LBS	4/1-7/15							
WHEAT	4.1 LBS	3 BU	9/15-2/1							
 * UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES ** SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND CONDITIONS. 										



4' MAX. O.C.

FABRIC

BACKING)

🗡 (WOVEN WIRE FENCE

RENCH

FLOW

<u>SIDE VIEW</u>

DISTURBED AREA STABILIZATION Ds3 (With Permanent Vegetation)

DEFINITION

THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE FINAL STABILIZATION. <u>CONDITIONS</u>

PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER DENUDED AREAS. <u>SPECIFICATIONS</u>

GRADING AND SHAPING

GRADING AND SHAPING MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT.

WHEN CONVENTIONAL SEEDING AND FERTILIZING ARE TO BE DONE, GRADE AND SHAPE WHERE FEASIBLE AND PRACTICAL, SO THAT EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING AND MAINTENANCE OF THE VEGETATION.

CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A SAFE OUTLET. DIVERSIONS AND OTHER TREATMENT PRACTICES SHALL CONFORM WITH THE APPROPRIATE STANDARDS AND SPECIFICATIONS. SEEDBED PREPARATION

SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:

BROADCAST PLANTINGS

- 1. TILLAGE AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES: ALLEVIATE COMPACTION: INCORPORATE LIME AND FERTILIZER: SMOOTH AND FIRM THE SOIL: ALLOW FOR THE PROPER PLACEMENT OF SEED. SPRIGS. OR PLANTS: AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED
- 2. TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT.
- 3. TILLAGE SHOULD BE DONE ON THE CONTOUR WHERE FEASIBLE.
- 4. ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED OR TRENCHED ACROSS THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 INCHES APART IN WHICH SEED MAY LODGE AND GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.

INDIVIDUAL PLANTS

- 1. WHERE INDIVIDUAL PLANTS ARE TO BE SET, THE SOIL SHALL BE PREPARED BY EXCAVATING HOLES, OPENING FURROWS, OR DIBBLE PLANTING.
- 2. FOR NURSERY STOCK PLANTS, HOLES SHALL BE LARGE ENOUGH TO ACCOMMODATE ROOTS WITHOUT CROWDING.
- 3. WHERE PINE SEEDLINGS ARE TO BE PLANTED, SUBSOIL UNDER THE ROW 36 INCHES DEEP ON THE CONTOUR FOUR TO SIX MONTHS PRIOR TO PLANTING. SUBSOILING SHOULD BE DONE WHEN THE SOIL IS DRY, PREFERABLY IN AUGUST OR SEPTEMBER.

PERMANENT SEEDING										
SPECIES	RATE PER 1,000 SF	RATE PER ACRE*	PLANTING DATES**							
BAHIA	1.4 LBS	60 LBS	1/1-12/31							
BERMUDA	0.2 LB	10 LBS	2/15-7/1							
CENTIPEDE	BLOCK SOD ONLY	BLOCK SOD ONLY	4/1-7/1							
LESPEDEZA	1.7 LB	75 LBS	1/1-12/31							
WEEPING LOVE GRASS	0.1 LB	4 LBS	2/1-6/15							
SWITCHGRASS	0.9 LBS	40 LBS	3/15-6/1							
* UNUSUAL	SITE CONDITION	IS MAY REQU	JIRF HFAVIFR							

JAL SHE CONDITIONS MAY REQUIRE HEAVIED SEEDING RATES

** SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND CONDITIONS.

PLANTING

HYDRAULIC SEEDING

PULP FIBER MULCH WITH WATER AND APPLY IN A SLURRY UNIFORMLY OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AFTER THE MIXTURE IS MADE. CONVENTIONAL SEEDING

NOT TO SCALE

SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING, USE A CULTIPACKER SEEDER, DRILL, ROTARY SEEDER, OTHER AREA TO BE TREATED. COVER THE SEED LIGHTLY WITH 1/8 TO 1/4 INCH OF SOIL FOR SMALL SEED AND 1/2 TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE EQUIPMENT. NO-TILL SEEDING

NO-TILL SEEDING IS PERMISSIBLE INTO ANNUAL COVER CROPS WHEN PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROP OR IF THE TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES. NO-TILL SEEDING SHALL BE DONE WITH APPROPRIATE NO-TILL SEEDING EQUIPMENT. THE SEED MUST BE UNIFORMLY DISTRIBUTED AND PLANTED AT THE PROPER DEPTH.

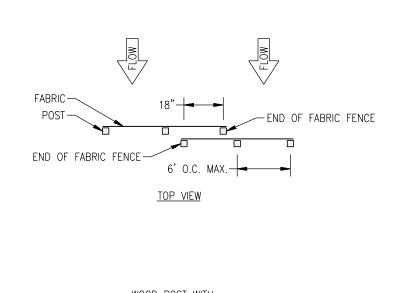
INDIVIDUAL PLANTS

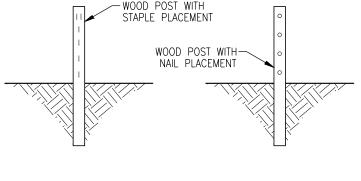
SHRUBS, VINES AND SPRIGS MAY BE PLANTED WITH APPROPRIATE PLANTERS OR HAND PINE TREES SHALL BE PLANTED MANUALLY IN THE SUBSOIL FURROW. EACH PLANT SHALL BE SET IN A MANNER THAT WILL AVOID CROWDING THE ROOTS. NURSERY STOCK PLANTS. SHALL BE PLANTED AT THE SAME DEPTH OR SLIGHTLY DEEPER THAN THEY GREW AT THE NURSERY. THE TIPS OF VINES AND SPRIGS MUST BE AT OR SLIGHTLY ABOVE THE GROUND SURFACE. WHERE INDIVIDUAL HOLES ARE DUG, FERTILIZER SHALL BE PLACED IN THE BOTTOM OF THE HOLE, TWO INCHES OF SOIL SHALL BE ADDED AND THE PLANT SHALL BE SET IN THE HOLE. MULCHING

THE FOLLOWING AND APPLY AS INDICATED:

- 1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER ACRE.
- 2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING.
- 3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH OR STEEPER.
- 4. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE.
- 5. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR APPROPRIATE FOR SEEDED AREAS.
- NOT REQUIRED.

SEEDING RATES FOR





FRONT VIEW

1. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

FASTENERS FOR SILT FENCES OVERLAP AT FABRIC ENDS

NOT TO SCALE

MIX THE SEED (INNOCULATED IF NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD

MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM

USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY

SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRYSTRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC

INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 3/4:1

BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT

6. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS

7. BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.

APPLYING MULCH STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.

WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

ANCHORING MULCH

ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS:

1. EMULSIFIED ASPHALT CAN BE (A) SPRAYED UNIFORMLY ONTO THE MULCH AS IT IS EJECTED FROM THE BLOWER MACHINE OR (B) SPRAYED ON THE MULCH IMMEDIATELY FOLLOWING MULCH APPLICATION WHEN STRAW OR HAY IS SPREAD BY METHODS OTHER THAN SPECIAL BLOWER EQUIPMENT.

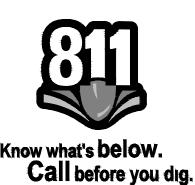
THE COMBINATION OF ASPHALT EMULSION AND WATER SHALL CONSIST OF A HOMOGENEOUS MIXTURE SATISFACTORY FOR SPRAYING. THE MIXTURE SHALL CONSIST OF 100 GALLONS OF GRADE SS-1H OR CSS-1H EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH.

CARE SHALL BE TAKEN AT ALL TIMES TO PROTECT STATE WATERS, THE PUBLIC, ADJACENT PROPERTY, PAVEMENTS, CURBS, SIDEWALKS, AND ALL OTHER STRUCTURES FROM ASPHALT DISCOLORATION.

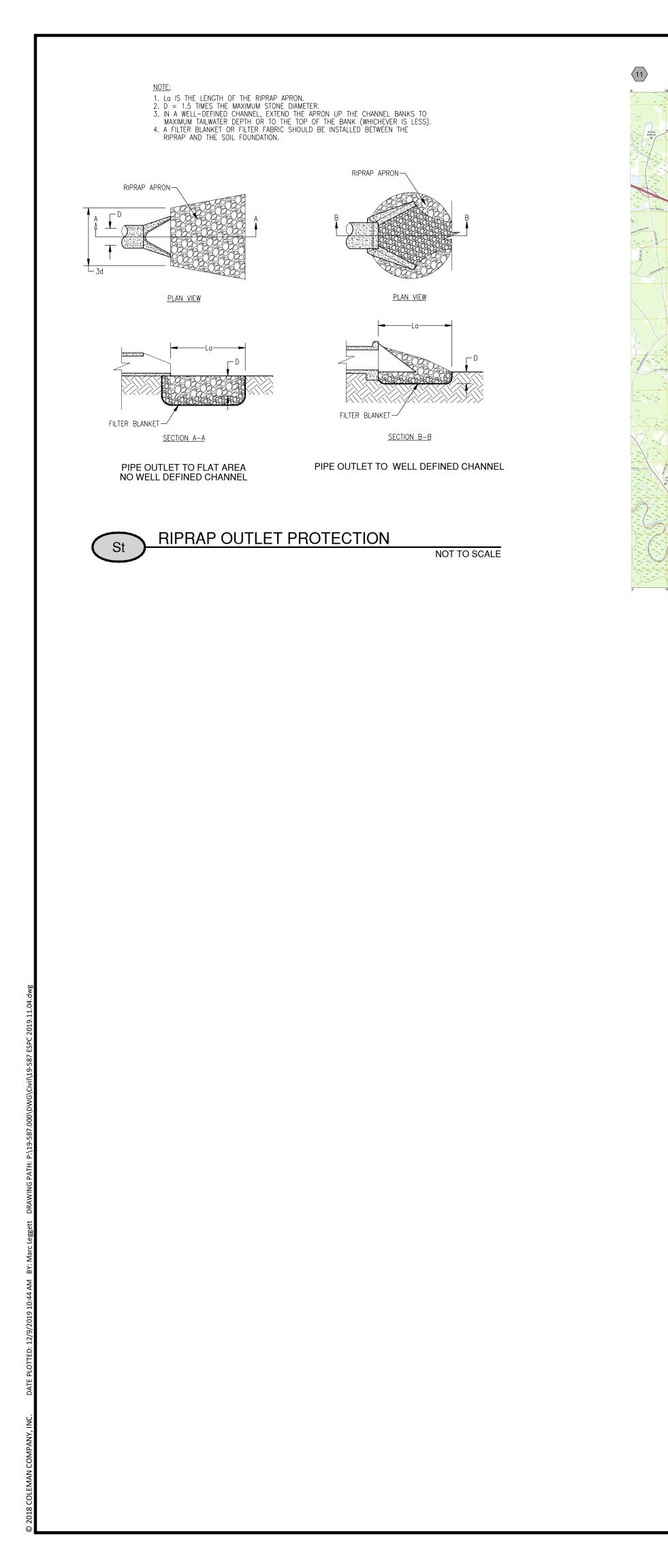
- 2. HAY AND STRAW MULCH SHALL BE PRESSED INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK" OR DISK HARROW WITH THE DISKS SET STRAIGHT MAY BE USED. THE DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISKS SHALL BE DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT, LEAVING MUCH OF IT IN AN ERECT POSITION. MULCH SHALL NOT BE PLOWED INTO THE SOIL.
- SYNTHETIC TACKIFIERS OR BINDERS APPROVED BY GDOT SHALL BE APPLIED IN CONJUNCTION WITH OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. REFER TO TB - TACKIFIERS AND BINDERS.
- 4. RYE OR WHEAT CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS TO STABILIZE THE THEY SHALL BE APPLIED AT A RATE OF ONE-QUARTER TO ONE HALF BUSHEL PER ACRE.
- 5. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW THESE MATERIALS SHALL BE INSTALLED AND ANCHORED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

IRRIGATION

IRRIGATION SHALL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.

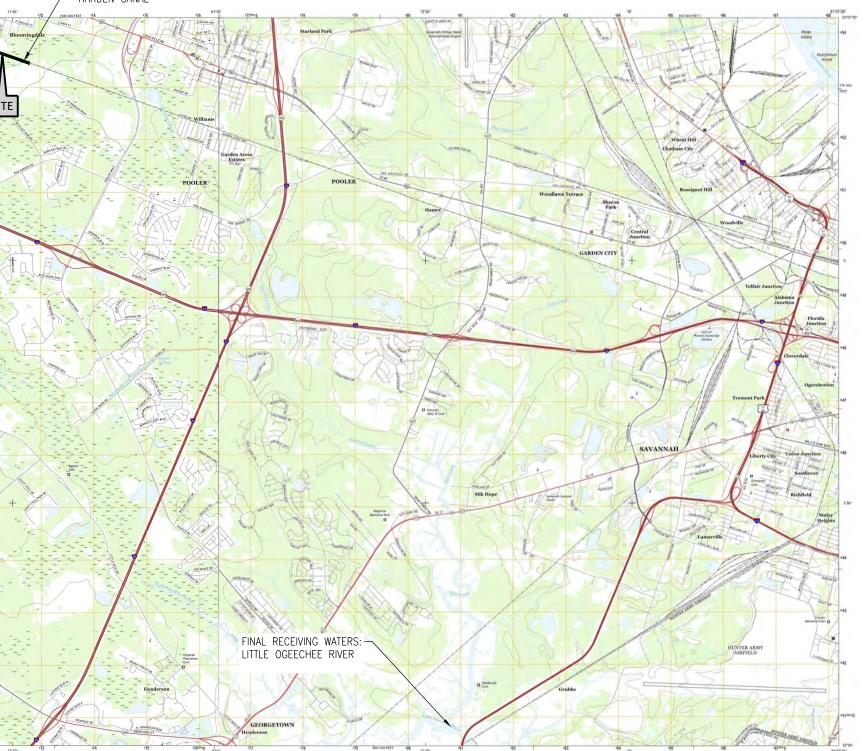


AZ OMP/ **UR** 3 **O**² Z CTIO STRU NO Ö Ľ 0 $(\bigcirc$ **REVISIONS:** \mathcal{L} \leq NTEI Ш Š \cap Ŕ $\overline{\mathcal{S}}$ SS \cap Ζ (Ο PLA STE(ш Ϋ́ Α̈́ Z $\bigcirc =$ $\overline{\Omega}$ $\overline{\nabla}$ UNG NIV Ř Ο \square **—** $\overline{\mathcal{S}}$ Ο () \mathcal{O} \square \sim 3 $\mathbb{Z} \xrightarrow{\infty}$ RIR \sim S C Ζ I A I 1 N Δ \bigcirc ш \simeq Ζ _____ \square S JOB NUMBER: 19-587 DATE: \$\$\\$\$\\$ DRAWN BY: MEL CHECKED BY: WRG AS NOTED SCALE: EROSION CONTROI DETAILS SHEET:



INITIAL RECIEVING WATERS:

SITE



COLEMAN COMPANY BRGINEERS • SURVEYORS Savanah, Georgia (1912) 200-3041 I CCI-SAV.COM	
NOT FOR CONSTRUCTION	
REVISIONS:	
CIVIL CONSTRUCTION PLANS FOR SAVANNAH PORTS LOGISTECS CENTER GWRR SIDE LINE LOCATED IN POOLER, GEORGIA DREPARED FOR GENESEE & WYOMING RAILROAD SERVICES, INC	
JOB NUMBER: 19-58 DATE: ??/??/? DRAWN BY: MI CHECKED BY: WR SCALE: AS NOTE	₿₿ EL G
EROSION CONTRO DETAILS	
SHEET:	



CLEARING PHASE

PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.

THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPING OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES. THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.

NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS.

A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.

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.

PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE AND ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.

PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY. THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

. THE CONSTRUCTION EXIT, CONSISTING OF A MINIMUM PAD SIZE OF 20 FEET BY 50 FEET WITH A MINIMUM 6" THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLAN. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGATE BETWEEN 1-1/2" & 3-1/2" IN DIAMETER AND OVERLAID ON A GEOTEXTILE UNDERLINER. THE GEOTEXTILE UNDERLINER SHALL MEET THE REQUIREMENTS OF AASHTO M288-96, SECTION 7.3 SEPARATION REQUIREMENTS

2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS. ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

3. TYPE 'NS' SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2. THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHED ½ THE HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

4. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN. SEE SEPARATE DETAILS FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED.

5. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN. 6. TREE PROTECTION FENCING SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED

UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

GRADING PHASE THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE PRELIMINARY GRADING PHASE OR

CONSTRUCTION.

DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO ENSURE THAT LAND STRIPPING OF ITS NATURAL GROUND COVER IS EXPOSED ONLY IN SMALL QUANTITIES AND THEREFORE LIMITED DURATIONS, BEFORE PERMANENT EROSION PROTECTION IS ESTABLISHED. NOTE SUB PHASES SHOWN ON PLANS.

EARTHWORK OPERATIONS IN THE VICINITY OF STREAM BUFFERS SHALL BE CAREFULLY CONTROLLED TO AVOID DUMPING OR SLOUGHING INTO THE BUFFER AREAS.

SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.

EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY. THE CONTRACTOR SHALL FURNISH AND MAINTAIN NECESSARY BARRICADES WHILE ROADWAY FRONTAGE IMPROVEMENTS ARE BEING

MADE. TYPE "NS" SILT FENCE SHOULD BE INSTALLED AT THE TOE OF ALL FILL SLOPES 10 FEET OR GREATER IN HEIGHT. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-20.2. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT FENCE SHALL BE REMOVED WHEN ACCUMULATION REACHES 1/2 THE HEIGHT OF THE BARRIER. ADDITIONALLY, DIVERSION DIKES SHALL BE CONSTRUCTED ALONG THE TOP OF ALL SAID FILL SLOPES WITH THE USE OF TEMPORARY DOWN DRAINS TO CONTROL STORM WATER RUN OFF AS SHOWN ON THE

PLANS. SEE SEPARATE DETAILS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING BARRIERS AT THE TOE OF SLOPES UNDER CONSTRUCTION. THESE BARRIERS SHALL BE AS SHOWN IN THE PLANS. THESE BARRIERS MAY BE RELOCATED AND REUSED AFTER PERMANENT SLOPE STABILIZATION BECOMES FULLY ESTABLISHED. AS THEY ARE RELOCATED, ANY DEFECTIVE MATERIALS IN THE BARRIERS SHALL BE REPLACED. IN ADDITION, ALL DEBRIS AND SILT AT THE PREVIOUS LOCATION SHALL BE REMOVED.

CUT AND FILL SLOPES ARE NOT TO EXCEED " 3H:1V"

AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURE. THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION.

AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS THE CONTRACTOR SHALL CONSTRUCT INLET PROTECTION AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORM WATER RUN OFF.

THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION CONTROL INSTALLATION PLAN WILL INSPECT THE INSTALLATION OF THE BMPS WITHIN SEVEN DAYS AFTER INITIAL CONSTRUCTION ACTIVITY BEGINS.

THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON THE PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.

NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD

ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND INLET PROTECTION ARE CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

ALL SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 1171-TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, 1983 EDITION.

ALL ITEMS IN THIS SECTION OF THE SPECIFICATIONS SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTION 161, 162, 163, AND 164 OF THE GEORGIA D.O.T. STANDARD SPECIFICATION, FOR ROADS AND BRIDGES.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.

SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED

CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.

ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

TYPE "NS" SILT FENCE SHALL BE PLACED AT THE TOE OF ALL DIRT STOCK PILE AREAS. SEE SEPARATE DETAILS FOR ADDITIONAL

INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN

STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS, AS SHOWN ON THE PLAN. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

AFTER PRELIMINARY GRADING ACTIVITIES, THE CONTRACTOR SHALL CONSTRUCT INLET PROTECTIONS AS SHOWN ON PLAN. THE CONTRACTOR SHALL MAINTAIN THE INLET PROTECTIONS AS SHOWN UNTIL PERMANENT GRADING COVER IS ESTABLISHED.

FINAL PHASE

CONSTRUCTION.

SO THAT IT WILL NOT ENTER THE INLETS AGAIN.

ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.

SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE HALF WAY POINT ON THE RISER.

SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

ACHIEVED BEHIND CURBS.

INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

PROPERLY. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT

DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.

STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

PERMIT COVERAGE INFRASTRUCTURE.

AUTHORIZED DISCHARGES

- TO OR GREATER THAT ONE ACRE. PART I.C.1.4.C
- 2. ALL DISCHARGES COVERED BY THIS PERMIT SHALL BE COMPOSED ENTIRELY OF STORM WATER EXCEPT AS PROVIDED IN PART 1.C.2 AND PART III.A.2 OF THE PERMIT. PART III.A.1
- 3. AUTHORIZED MIXED STORM WATER DISCHARGES: PART 1.C.2 A. THE INDUSTRIAL SOURCE OF ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY.
- 8:00AM TO 5:00 PM WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE. B. THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES ARE OCCURRING ARE IN COMPLIANCE WITH THE TERMS OF THIS PERMIT. 3. SAMPLING SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM: C. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE AREAS OF THE SITE WHERE INDUSTRIAL ACTIVITY
- OTHER THAN CONSTRUCTION ARE OCCURRING ARE COVERED BY DIFFERENT NPDES GENERAL PERMIT OR INDIVIDUAL PERMIT AUTHORIZING SUCH DISCHARGES AND THE DISCHARGES ARE IN COMPLIANCE WITH A DIFFERENT NPDES PERMIT. 4. AUTHORIZED NON-STORMWATER DISCHARGES: PART III.A.2
- A. FIRE FIGHTING ACTIVITIES **B FIRE HYDRANT FLUSHING** C. POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING D. IRRIGATION DRAINAGE
- E. AIR CONDITIONING CONDENSATE F. SPRINGS
- G. UNCONTAMINATED GROUND WATER H. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS

LIMITATIONS ON COVERAGE PART 1.C.3

- "NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS A. STORM WATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATES FROM THE SITE AFTER CONSTRUCTION MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION. MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS."
- B. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORMWATER OTHER THAT DISCHARGES WHICH ARE IDENTIFIED IN PART 111.A.2 OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.6 (NON-STORMWATER DISCHARGES) OF THIS PERMIT.
- C. STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY THAT ARE SUBJECT TO AN EXISTING NPDES INDIVIDUAL OR GENERAL PERMIT. SUCH DISCHARGES MAY AUTHORIZED UNDER THIS PERMIT AFTER AN EXISTING PERMIT EXPIRES PROVIDED THE EXISTING PERMIT DID NOT ESTABLISH NUMERIC LIMITATIONS FOR SUCH DISCHARGES.
- D. STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT THE DIRECTOR (EPD) HAS DETERMINED TO BE OR MAY REASONABLY BE EXPECTED TO BE CONTRIBUTING TO A VIOLATION OF A WATER QUALITY STANDARD.
- 2. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER FITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR BELEASES ACT (O.C.G.A.12-14-2, ET SEQ.), 40 CER 117 OR 40 CFR 302 OCCURS DURING A 24-HOUR PERIOD. THE PERMITTEE IS REQUIRED TO NOTIFY THE FOLLOWING AGENCIES IN ACCORDANCE WITH THE ABOVE-MENTIONED REGULATIONS AS SOON AS HE HAS KNOWLEDGE OF THE DISCHARGE: EPD AT (404) 656-4863 OR (800) 241-4113, OR THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802. PART III.B.1
- 111.B.2
- WATER QUALITY COMPLIANCE PART I.C.4

AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6-03.

DESIGN PROFESSIONAL'S CREDENTIALS: ENGINEER'S NAME (PRINTED): **GEORGIA PE NUMBER**

:	31215
IFICATION NUMBER:	8134

29 TENTATIVE ACTIVITY SCHEDULE																			
CONSTRUCTION DATES: June 26, 2020 - Dec. 26,2020	МС	DNT	Ή 1	N	IONTH	12	M	ONT	ГН З	;	МО	NTH	4	MC	DNT	ΓH 5	N	10N ⁻	TH 6
CONSTRUCTION EXIT																			
SILT FENCE AND OTHER ES&PC PRACTICES																			
CLEARING AND GRUBBING																			
GRADING / UTILITY																			
DISTURBED AREA STABILIZATION UNITH TEMPORARY SEEDING)																			
FINE GRADING																			
RAILROAD CONSTRUCTION																			
DISTURBED AREA STABILIZATION (WITH TEMPORARY VEGETATION)																			
LANDSCAPE INSTALLATION																			
MAINTENANCE OF ES&PC BMP's																			
THE ESCAPE OF SEDIMENTS FROM THE SITE SHALL BE PREVENTED BY THE INSTELATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.																			

- ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION. **GSWCC LEVEL II CERT**
- THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

INFORMATION.

VIEW FOR SPECIFIC TYPE AND SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

ALL DRAINAGE SWALES SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

ALL GRADED AREAS SHALL BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED.

THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF

- SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED
- MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER PROTECTION. SEE
- ALL AREAS ADJACENT TO ROADWAY AND PARKING AREAS SHOULD HAVE A VEGETATIVE COVER APPLIED AS SOON AS FINAL GRADE IS
- SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OR THE DEVICE. ADDITIONAL DEVICES MUST BE
- THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY, THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1"-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING
- PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS
- FAILURE TO INSTALLED, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING
- THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR
- UPON COMPLETION OF THE PROJECT AND RECEIPT OF CERTIFICATION OF OCCUPANCY, THE CONTRACTOR SHALL REMOVE ALL EMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.
- THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OR NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EDP), FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR
- 1. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT WILL RESULT IN LAND DISTURBANCE EQUAL

1. THE FOLLOWING STORM WATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:

- 3. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ONSITE SPILL. PART
- ALL DISCHARGES AUTHORIZED BY THIS PERMIT SHALL NOT CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS

TRAVIS BURKE, PE

SAMPLING METHODOLOGY PART IV.D.5

ALL SAMPLING SHALL BE COLLECTED BY " GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 135 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED), THE GUIDANCE DOCUMENT TITLES "NPDES STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARES BY THE EPD.

- 1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
- 2. LARGE MOUTH, CLEAN AND RINSED GLASS OR PLASTIC JARS WITH A MINIMUM SAMPLE SIZE OF 200 MILLILITERS SHOULD BE USED FOR COLLECTING SAMPLES
- 3. SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORMWATER OUTFALL CHANNEL(S).
- 4. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
- 5. MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED.
- 6. IF MANUAL SAMPLING IS EMPLOYED, THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM, THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS, AND CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORMWATER CHANNEL.
- 7. THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN AT THE DISCHARGE FARTHEST UPSTREAM AT THE SITE BUT DOWNSTREAM OF ANY OTHER STORMWATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
- 8. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN AT THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE. SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
- 9. PERMITTEES DO NOT HAVE TO SAMPLE SHEET FLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT.
- 10. DILUTION OF SAMPLES IS NOT REQUIRED.
- 11. SAMPLES MAY BE ANALYZED USING A DIRECT READING, PROPERLY CALIBRATED TURBIDMETER.
- 12. SAMPLES ARE NOT REQUIRED TO BE COOLED.
- 13. SAMPLES AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED THE PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E OF THE PERMIT.
- 14. TURBIDITY RESULTS WHICH EXCEED 1000 NTUI SHALL BE REPORTED AS " EXCEEDS 1000 NTU." SAMPLING FREQUENCY PART IV.D.5D
- 1. SAMPLING FREQUENCY SHALL OCCUR IN ACCORDANCE WITH PART IV.D.5.D OF THE PERMIT.
- 2. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN FORTY-FIVE (45) MINUTES OF:
- A. THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT, IF THE STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN PRIOR TO THE ACCUMULATION.
- B. THE BEGINNING OF ANY STORMWATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL. IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT. C. WHERE MANUAL AND AUTOMATIC SAMPLING ARE NOT POSSIBLE (AS DEFINES IN THE 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 STORMWATER DISCHARGE.
- D. NORMAL BUSINESS HOURS, AS DEFINES BY THE PERMIT, ARE MONDAY THROUGH FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY
- A. THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION.
- B. THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS THAT OCCURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION.
- 4. IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM ARE NOT PROPERTY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN 3 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 DETERMINES THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED.
- 5. THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF NO. 3.A AND NO. 3.B BY COLLECTING TURBIDITY SAMPLES FROM RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK SUPERVISION

GEORGIA UNIFORM CODING SYSTEM FOR SOIL AND SEDIMENT CONTROL PRACTICES										
CODE	PRACTICE	DETAIL	STRUCTUR MAP SYMBOL	DESCRIPTION						
Cd	CHECK DAM		Cd	A SMALL TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH OR AREA OF CONCENTRATED FLOW.						
Ch	CHANNEL STABILIZATION		Ch	IMPROVING, CONSTRUCTING OR STABILIZING AN OPEN CHANNEL, EXISTING STREAM, OR DITCH.						
Co	CONSTRUCTION EXIT		Co	A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.						
Cr	CONSTRUCTION ROAD STABILIZATION		Cr	A TRAVELWAY CONSTRUCTED AS PART OF A CONSTRUCTION PLAN INCLUDING ACCESS READS, SUBDIVISION ROADS, PARKING AREAS, AND OTHER ON-SITE VEHICLE TRANSPORTATION ROUTES.						
Dc	STREAM DIVERSION CHANNEL		Dc	A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT STRUCTURE IS BEING CONSTRUCTED.						
Di	DIVERSION		Di	AN EARTH CHANNEL OR DIKE LOCATED ABOVE, BELOW, OR ACROSS A SLOPE TO DIVERT RUNOFF. THIS MAY BE A TEMPORARY OR PERMANENT STRUCTURE.						
Dn1	TEMPORARY DOWNDRAIN STRUCTURE		Dn1	A FLEXIBLE CONDUIT OF HEAVY-DUTY FABRIC OR OTHER MATERIAL DESIGNED TO SAFELY CONDUCT SURFACE RUNOFF DOWN A SLOPE. THIS IS TEMPORARY AND INEXPENSIVE.						
Dn2	PERMANENT DOWNDRAIN STRUCTURE	A A A A A A A A A A A A A A A A A A A	Dn2	A PAVED CHUTE, PIPE, SECTIONAL CONDUIT OR SIMILAR MATERIAL DESIGNED TO SAFELY CONDUCT SURFACE RUNOFF DOWN A SLOPE.						
Fr	FILTER RING	C C	Fr	A TEMPORARY STONE BARRIER CONSTRUCTED AT STORM DRAIN INLETS AND POND OUTLETS.						
Ga	GABIONS		Ga	ROCK FILTER BASKETS WHICH ARE HAND-PLACED INTO POSITION FORMING SOIL STABILIZING STRUCTURES.						
Gr	GRADE STABILIZATION STRUCTURE		Gr	PERMANENT STRUCTURES INSTALLED TO PROTECT NATURAL OR ARTIFICIAL CHANNELS OR WATERWAYS WHERE OTHERWISE THE SLOPE WOULD BE SUFFICIENT FOR THE RUNNING WATER TO FORM GULLIES.						
Lv	LEVEL SPREADER		Lv	A STRUCTURE TO CONVERT CONCENTRATED FLOW OF WATER INTO LESS EROSIVE SHEET FLOW. THIS SHOULD BE CONSTRUCTED ONLY ON UNDISTURBED SOILS.						
Rd	ROCK FILTER DAM		Rd	A PERMANENT OR TEMPORARY STONE FILTER DAM INSTALLED ACROSS SMALL STREAMS OR DRAINAGEWAYS.						
Re	RETAINING WALL		Re	A WALL INSTALLED TO STABILIZE CUT AND FILL SLOPES WHERE MAXIMUM PERMISSIBLE SLOPES ARE NOT OBTAINABLE. EACH SITUATION WILL REQUIRE SPECIAL DESIGN.						
Rt	RETROFITTING		Rt	A DEVICE OR STRUCTURE PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER.						
Sd1	SEDIMENT BARRIER		Sd1	A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH, LOGS AND POLES, GRAVEL, OR A SEDIMENT FENCE.						
Sd2	INLET SEDIMENT TRAP	-	Sd2	AN IMPOUNDING AREA CREATED BY EXCAVATING AROUND A STORM DRAIN DROP INLET. THE EXCAVATED AREA WILL BE FILLED AND STABILIZED ON FILLED AND STABILIZED ON COMPLETION OF CONSTRUCTION ACTIVITIES.						
Sd3	TEMPORARY SEDIMENT BASIN		Sd3	A BASIN CREATED BY EXCAVATION OR A DAM ACROSS A WATERWAY. THE SURFACE WATER RUNOFF IS TEMPORARILY STORED ALLOWING THE BULK OF THE SEDIMENT TO DROP OUT.						
Sd4	TEMPORARY SEDIMENT TRAP		Sd4	A SMALL TEMPORARY POND THAT DRAINS A DISTURBED AREA SO THAT SEDIMENT CAN SETTLE OUT. THE PRINCIPLE FEATURE DISTINGUISHING A TEMPORARY SEDIMENT TRAP FROM A TEMPORARY SEDIMENT BASIN IS THE LACK OF A PIPE OF RISER.						
Sk	FLOATING SURFACE SKIMMER		Sk	A BUOYANT DEVICE THAT RELEASES/DRAINS WATER FROM THE SURFACE OF SEDIMENT PONDS, TRAPS OR BASINS AT A CONTROLLED RATE OF FLOW.						
SpB	SEEP BERM		SpB	A LINEAR CONTROL DEVICE CONSTRUCTED AS A DIVERSION PERPENDICULAR TO THE DIRECTION OF THE RUNOFF TO ENHANCE DISSIPATION AND INFILTRATION OF RUNOFF, WHILE CREATING MULTIPLE SEDIMENTATION CHAMBERS WITH THE EMPLOYMENT OF INTERMEDIATE DIKES.						
Sr	TEMPORARY STREAM CROSSING		Sr	A TEMPORARY BRIDGE OR CULVERT-TYPE STRUCTURE PROTECTING A STREAM OR WATER COURSE FROM DAMAGE BY CROSSING CONSTRUCTION EQUIPMENT.						
St	STORM DRAIN OUTLET PROTECTION		St	A PAVED OR SHORT SECTION OF RIPRAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.						
Su	SURFACE ROUGHENING		Su	A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS ON A CONTOUR OR SLOPES LEFT IN A ROUGHENED CONDITION AFTER GRADING.						
Тр	TOPSOILING		Тр	THE PRACTICE OF STRIPPING OFF THE MORE FERTILE SOIL, STORING IT, THEN SPREADING IT OVER THE DISTURBED AREA AFTER COMPLETION OF CONSTRUCTION ACTIVITIES.						
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL		Wt	PAVED OR VEGETATIVE WATER OUTLETS FOR DIVERSIONS, TERRACES, BERMS, DIKES OR SIMILAR STRUCTURES.						
CODE	PRACTICE	DETAIL	VEGETATIVI MAP SYMBOL	E MEASURES DESCRIPTION						
Bf	BUFFER ZONE	5	Bf	A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION OR THE REESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS.						
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	*****	Cs	PLANTING VEGETATION ON DUNES THAT ARE DENUDED, ARTIFICIALLY CONSTRUCTED, OR RE-NOURISHED.						
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDING MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.						
Ds2	DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)		Ds2	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDING ON DISTURBED AREAS.						
Ds3	DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)		Ds3	ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED AREAS.						
Ds4	DISTURBED AREA STABILIZATION (WITH SODDING)		Ds4	A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.						
Du	DUST CONTROL ON DISTURBED AREAS	O CONTRACTOR	Du	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRICTION SITE, ROADWAYS AND SIMILAR SITES.						
Mb	EROSION CONTROL MATTING AND BLANKETS		Mb	THE INSTALLATION OF A PROTECTIVE COVERING (BLANKET) OR SOIL STABILIZATION MAT ON A PREPARED PLANTING AREA OF A STEEP SLOPE, CHANNEL, OR SHORELINE.						
Pm	POLYACRYLAMIDE (PAM)		Pm	THE LAND APPLICATION OF PRODUCT CONTAINING ANIONIC POLYACRYLAMIDE (PAM) AS TEMPORARY SOIL BINDING AGENTS TO REDUCE SOIL EROSION.						
Sb	STREAM BANK STABILIZATION (USING PERMANENT VEGETATION)		Sb	THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAM BANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAM BANK EROSION PROBLEMS.						
Tb	TACKIFIERS AND BINDERS		Tb	SUBSTANCE USED TO ANCHOR STRAW OR HAY MULCH BY CAUSING THE ORGANIC MATERIAL TO BIND TOGETHER.						
		1/5								

0 ĬIJ TRU O Ü 62 0 $(\bigcirc$ REVISIONS: NTEL N Ш STE(Z \sim \geq \cap $\boldsymbol{\mathcal{O}}$ 19-587 JOB NUMBER: DATE: \$\$\\$\$\\$ DRAWN BY: CHECKED BY: WRG SCALE: AS NOTED NPDES PERMIT NOIES SHEET:

 \bigcirc

XX E,S&PC PLAN CHECKLIST NO.

NRCS ORIGINAL SUBMITTAL

4	MR. BREN 13901SUT	NT AZZO	IVE SOUTH, SU		E FOR EROS	SION AND SE	DIMENT CO	NTROL		15	"NON-EXEMPT ACTIVITIES SHALL NOT BE CONDU MEASURED FROM THE POINT OF WRESTED VEGI MEASURED FROM THE JURISDICTIONAL DETERM AND PERMITS."
5	PRIMARY P GENESEE 13901 SU	ERMITTEE /	' DEVELOPEI RAILROAD SER' RIVE SOUTH, SU	VICES, INC						1718	"AMENDMENTS/REVISIONS TO THE ES&PC PLAN COMPONENT MUST BE CERTIFIED BY THE DESIG "WASTE MATERIALS SHALL NOT BE DISCHARGED 404 PERMIT." " THE ESCAPE OF SEDIMENT FROM THE SITE SH
	(904) 596-	1045 @gwrr.com								(19)(20)	CONTROL MEASURES AND PRACTICES PRIOR TO " EROSION CONTROL MEASURES WILL BE MAINT PLAN DOES NOT PROVIDE FOR EFFECTIVE EROS
$\begin{pmatrix} 6 \\ \hline \\ 7 \end{pmatrix}$	DISTURBED A	CREAGE IN TH	IS PHASE IS 3.1		IE SITE IS 32.12	20226° LATITUD	E, -81.297692°	LONGITUDE		24	MEASURES SHALL BE IMPLEMENTED TO CONTRO "WASHING DOWN OF TOOLS, CONCRETE MIXEF CONSTRUCTION SITE IS PROHIBITED."
9			TURE OF TH				INSTALL LARG	ER CULVERT A	AT THE HARDIN	28	PRACTICES THAT WILL BE USED TO RE 1. PERMANENT SEEDING: THE SITE SHALL BE ST RUNOFF PRIOR TO ENTERING THE DONWSTR
4 7	THE EXISTI	ESENT ON THE	S THE FOLL E SITE ARE CAP HEE SANDY LO	PE FEAR SOILS	(Cc); OCILLA C	COMPLEX (Oj); C	GEECHEE LOA	MY FINE SAND	(Ok);		 CHEMICALS FROM RUNOFF. PERMANENT SEE RUNOFF AND IMPROVES WATER QUALITY. 2. TEMPORARY DIVERSION DITCHES WILL ACT A LOAD PRIOR TO RELEASE OF THE RUNOFF IN AND SETTLEMENT.
	SUPERVISION SUBMIT THE	IN ACCORDA	NCE WITH A S	SYSTEM DESIGNY NOVINY O	ON TO ASSURI	e that quali N or person	FIED PERSONN IS WHO MANA	IEL PROPERLY GE THE SYSTE	DIRECTION OR GATHER AND EM, OR THOSE		3. WET POND: THE PERMANENT POOL OF THE AND WILL EFFECTIVELY HAVE AN 80% TSS TRANSFERRED TO THE POND VIA OTHER CO QUALITY OF THE DOWNSTREAM CONVEYANC
	KNOWLEDGE	AND BELIEF,	TRUE, ACCUR/	ATE AND CON	IPLETE. I AM	N, THE INFORM 1 AWARE THAT E AND IMPRISOI	THERE ARE	SIGNIFICANT P	E BEST OF MY ENALTIES FOR IONS.	30	THE RUNOFF CONTRIBUTING TO THE DOWNS INSPECTIONS REQUIREMENTS BY THE A. PRIMARY PERMITTEE REQUIREMENTS.
	TRAVIS BURK	E, PE - DESIGN	PRO ASSIONA	IL- GSWCC LEY	VEL II CERTIFIC	CATION NUMBE	R: 8134				(1). EACH DAY WHEN ANY TYPE OF C CERTIFIED PERSONNEL PROVIDED BY PERMITTEE'S SITE WHERE PETROLEUI VEHICLES AND EQUIPMENT AND (B) AL
(12)			OF LAW THAT T ORIZED AGENT			FTER A SITE VIS	SIT TO THE LOC	ATIONS DESCR	RIBED HEREIN		EXIT THE SITE FOR EVIDENCE OF OFF NOTICE OF TERMINATION IS SUBMITTED (2). MEASURE AND RECORD RAINFALL
	TRAVIS BURK	E, PE - DESIGN	I PROFESSION	GSWCC LE		CATION NUMBE	R: 8134	—			SUNDAY AND NON-WORKING FEDERAL RAINFALL MAY BE SUSPENDED IF ALL / CROP OF ANNUAL VEGETATION AND A (3). CERTIFIED PERSONNEL (PROVIDED
(13)	AND COMPRE	HENSIVE SYST	TEM OF BEST M FOR EROSION A	ANAGEMENT F	PRACTICES RE	QUIRED BY THE GEORGIA" (MA	E STATE WATER NUAL) PUBLISH	R QUALITY CON HED BY THE ST	APPROPRIATE ITROL ACT AND FATE SOIL AND AS PERMITTED,		ÉVERY SEVEN (7) CALENDAR DAYS AN GREATER (UNLESS SUCH STORM EN NON-WORKING SUNDAY OR ANY NO
	PROVIDES FO DESIGNED SY	R THE SAMPLI STEM OF BES	NG OF THE REG	CEIVING WATE	R(S) OR THE S AND SAMPLIN	AMPLING OF TH	HE STORM WAT	FER OUTFALLS	AND THAT THE EQUIREMENTS		COMPLETED BY THE END OF THE N DISTURBED AREAS OF THE PRIMARY P FOR STORAGE OF MATERIALS THAT A EROSION AND SEDIMENT CONTROL M
	TRAVIS BURK	E, PE - DESIGN	I PIC ESSIONA	L - GSWCC LE	VEL II CERTIFIC	CATION NUMBE	R: 8134	_			SITE SHALL BE OBSERVED TO ENSURI POINTS ARE ACCESSIBLE, THEY SHAL EFFECTIVE IN PREVENTING SIGNIFIC, UNDERGONE FINAL STABILIZATION OF
14	THE PRIMARY	PERMITTEE M	IUST RETAIN TH	E DESIGN PRO	OFESSIONAL W	ACTIVITY AFTE	THE EROSION,	SEDIMENTATIO	ON AND		PERENNIALS APPROPRIATE FOR THI INSPECTIONS MUST BE CONDUCTED UN (4). CERTIFIED PERSONNEL (PROVIDE
	ALTERNATE D PERIMETER C	ESIGN PROFE	SSIONAL, TO IN WHICH THE DE	SPECT THE INS	STALLATION O	IAS REQUESTE F THE INITIAL S INED WITHIN SE INSTALLED ANI	EDIMENT STOR EVEN (7) DAYS A	AGE REQUIREN	MENTS AND ATION. THE		DURING THE TERM OF THIS PERMIT (I. SITE THAT HAVE UNDERGONE FINAL S OF TARGET PERENNIALS APPROPRIAT THE POTENTIAL FOR, POLLUTANTS EN
	DAYS AND TH	E PERMITTEE N M THE DESIGN	MUST CORRECT PROFESSIONA	T ALL DEFICIEN L UNLESS WEA	ICIES WITHIN T	PECTION TO TH TWO (2) BUSINE D SITE CONDIT PLAN IS TO INSF	SS DAYS OF RE	ECEIPT OF THE H THAT ADDITIC	INSPECTION DNAL TIME IS		SEDIMENT CONTROL MEASURES IDENT CORRECTLY. WHERE DISCHARGE LOC/ WHETHER EROSION CONTROL MEAS WATER(S).
			REMENTS AND	PERIMETER COR	ONTROL BMPS	SIT CERTIFIC	AFTER INSTAL				(5). BASED ON THE RESULTS OF EAC CONTROL MEASURES IDENTIFIED IN THE BE REVISED AS APPROPRIATE NOT
		I CERTIFY THE		1 10		PC PLAN ON THE	E DATE OF INSF	PECTION.			IMPLEMENTATION OF SUCH CHANGES CALENDAR DAYS FOLLOWING EACH INS (6). A REPORT OF EACH INSPECTION
			E - DESIGN 27 C		SWCC LEVEL		ON NUMBER: 81	34			INSPECTION, THE DATE(S) OF EACH INS OBSERVATIONS RELATING TO THE IM PLAN, AND ACTIONS TAKEN IN ACCORE THE SITE OR BE READILY AVAILABLE
											PORTION OF A CONSTRUCTION PROJ NOTICE OF TERMINATION IS SUBMITTEI BUSINESS DAY AND/OR WORKING DAY HAVE NOT BEEN PROPERLY INSTALLEI
			BE ADDRESSE			INSPECTION SC	HEDULED. WO	RK SHALL NOT	PROCEED ON		NOT IDENTIFY ANY INCIDENTS, THE MANAGEMENT PRACTICES ARE IN COM THE REPORT SHALL BE SIGNED IN ACC
27		R SHALL MAINT	TAIN WEATHER			LDING MATERIA H AS FUELS, L			ON SITE. BE INSPECTED		B. SECONDARY PERMITTEE. (1). EACH DAY WHEN ANY TYPE OF CON CERTIFIED PERSONNEL PROVIDED BY T SECONDARY PERMITTEE WHERE PETRO
	DAILY FOR L PREVENTATIV WATER, NATU	EAKS AND S E MAINTENAN	PILLS. THIS II CE OF SUCH E AND STORM W	NCLUDES ON- EQUIPMENT. EC ATER INLETS.	SITE VEHICLE QUIPMENT MAI IN ADDITION,	E AND MACHIN INTENANCE AR TEMPORARY F	NERY DAILY II EAS WILL BE L UELING TANKS	NSPECTIONS A OCATED AWAY	AND REGULAR Y FROM STATE A SECONDARY IS PROHIBITED.		FROM VEHICLES AND EQUIPMENT; AND PERMITTEE'S VEHICLES ENTER OR EXIT MUST BE CONDUCTED UNTIL A NOTICE
	PROPER DISP STATE REGUL	OSAL METHOE ATIONS.	S WILL INCLUD	E COLLECTION	N IN A SUITABL	E CONTAINER	AND DISPOSAL	AS REQUIRED	BY LOCAL AND		COMPANIES AND UTILITY CONTRACTOR (2). CERTIFIED PERSONNEL (PROVIDED SECONDARY PERMITTEES) SHALL INSPI TAKEN PLACE AT THE CONSTRUCTION S
	WITH THESE I AND RECOMM	PRODUCTS AN IENDATIONS.	ID PRODUCT CO	ONTAINERS WI	ILL BE DISPOS	ED OF ACCORE	DING TO MANUI	FACTURER'S SF	TERIALS USED PECIFICATIONS		COMPANIES AND UTILITY CONTRACTOR OF ANNUAL VEGETATION AND A SEEDIN THE UTILITY COMPANIES AND UTILITY C
	DRUM WASH V -FERTILIZER/H SPECIFICATIC	WATER ONSITE IERBICIDES - INS OR THE GI	E. THESE PRODU UIDELINES SET	JCTS WILL BE FORTH IN THE	E APPLIED AT E CROP ESTAE	RATES THAT	DO NOT EXC IN THE GSWCC	EED THE MAN MANUAL FOR	NUFACTURER'S EROSION AND		PRECIPITATION THAT HAVE NOT UNDER AND A SEEDING OF TARGET PERENNIAL VEGETATION AND A SEEDING OF TARGE MEASURES. EROSION AND SEDIMENT C
	BUILDING MA	TERIALS - NO L BE DISPOSE	Building or D of in prope	CONSTRUCTION REPORTS	ON MATERIALS				RS. TE. ALL SUCH		COMPANIES AND UTILITY CONTRACTOR OPERATING CORRECTLY. WHERE DISCI ASCERTAIN WHETHER EROSION CONTR RECEIVING WATER(S). THIS PARAGRAPI
25	- LOCAL, STAT PROCEDURE	E AND MANUF S WILL BE MAI	DE AVAILABLE 1	COMMENDED I TO SITE PERSC	ONNEL.	SPILL CLEANU					THEY ARE SECONDARY PERMITTEES PE EXISTING LINE INSTALLATIONS. (3). CERTIFIED PERSONNEL (PROVIDED
	MATERIALS / LITTER, SAN	AND EQUIPMEN D, SAWDUST A	NT INCLUDES, B ND PROPERLY	BUT IS NOT LIM	ITED TO BROO STIC AND META	KEPT IN THE M. MS, DUSTPANS AL WASTE CONT	, MOPS, RAGS, FAINERS.	GLOVES, GOG	GLES, CAT		ONCE EVERY SEVEN CALENDAR DAYS A GREATER (UNLESS SUCH STORM ENDS NON-WORKING SUNDAY OR ANY NON-W COMPLETED BY THE END OF THE NEXT
	PREVENT FU - ALL SPILLS V	TURE SPILLS.	ED UP IMMEDIA) AFTER A SPILL L SPILLS WILL E					DISTURBED AREAS OF THE SECONDAR PERMITTEE FOR STORAGE OF MATERIA MEASURES. EROSION AND SEDIMENT C
	- FOR SPILLS	THAT IMPACT S	SURFACE WATE	T 1-800-424-880)2.	ACE WATER), T					PERMITTEE'S SITE SHALL BE OBSERVED LOCATIONS OR POINTS ARE ACCESSIBL MEASURES ARE EFFECTIVE IN PREVEN HAVE UNDERGONE FINAL STABILIZATIO
	1-800-424-880 - FOR SPILLS (02.	N 25 GALLONS			PACTS, THE EP					PERENNIALS APPROPRIATE FOR THE RI INSPECTIONS MUST BE CONDUCTED UN APPLICABLE TO UTILITY COMPANIES AN (4). CERTIFIED PERSONNEL (PROVIDED
	WILL BE CON	TACTED AS RE	QUIRED.			TS, THE SPILL W					DURING THE TERM OF THIS PERMIT (I.E. SITES THAT HAVE UNDERGONE FINAL S OF TARGET PERENNIALS APPROPRIATE
	PETROLEUM CAPACITY G	IS STORED OF	NSITE (THIS IN	CLUDES CAPA NS. THE CO	CITIES OF EC	QUIPMENT) OR WILL NEED A	IF ANY ONE F	PIECE OF EQUI	0 GALLONS OF IPMENT HAS A AINMENT AND		THE POTENTIAL FOR, POLLUTANTS ENT SEDIMENT CONTROL MEASURES IDENT CORRECTLY. WHERE DISCHARGE LOCA WHETHER EROSION CONTROL MEASUR
26	MEASURES TH WILL REMAIN	HAT WILL BE IN	ISTALLED DURII ER CONSTRUCT	NG THE CONST	FRUCTION PRC	DCESS TO CONT N COMPLETED:					WATER(S). THIS PARAGRAPH IS NOT AP SECONDARY PERMITTEES. (5). BASED ON THE RESULTS OF EACH II
	THE SITE WILI WETLAND. TH	E POND IS A C	RIES OF PRACT	BASIN THAT CO	ONTAIN A PERM	E USED TO CO MANENT POOL (S THE STORM W	OF WATER AND	TREATS POLLU	JTED STORM		WITHIN 24-HOURS OF ANY SUSPECTED THESE DEFICIENCIES EXIST WITHIN 48- AMEND THE PLAN IN ACCORDANCE WIT (7) DAYS OF BEING NOTIFIED BY THE SE
	RETROFIT. TH NUTRIENTS AI	IS SETTLEMEN	IT PROCESS RE THROUGH BIOL	MOVES PARTI	CULATES, ORC	IT EVENTUALLY GANIC MATTER, ETENTION PON	AND METALS F	ROM THE WAT			MUST NOTIFY AND PROVIDE A COPY OF SEVEN (7) DAY PERIOD. THE SECONDAF THEIR SITE(S) WITHIN 48-HOURS OF NO (6). A REPORT OF EACH INSPECTION TH
21		BED AREA LEF		DR A PERIOD G	REATER THAN	14 DAYS SHAL	L BE STABILIZE	ED WITH MULCH	IOR		THE DATE(S) OF EACH INSPECTION, COL OBSERVATIONS RELATING TO THE IMPL AND ACTIONS TAKEN IN ACCORDANCE
34 STA				UNIT (NTU) TABLE		(SUPPORTING WA		,	O. GAR10001		OR BE READILY AVAILABLE AT A DESIGN STABILIZATION AND A NOTICE OF TERM THE END OF THE SECOND BUSINESS DA MANAGEMENT PRACTICES THAT HAVE N
STA		0-4.99		,		(SQUARE MILES	,		500+		PLAN. WHERE THE REPORT DOES NOT I CERTIFICATION THAT THE BEST MANAG AND POLLUTION CONTROL PLAN. THE R THIS PARAGRAPH IS NOT APPLICABLE T
(ACRES)	1.00-10 10.01-25	75 50	150 100	200 100	400	750 300	750 500	750 750	750 750		PERMITTEES PERFORMING ONLY SERVI INSTALLATIONS. (7). EACH SECONDARY PERMITTEE SHA
SIZE	25.01-50	50	50	100	100	200	300	750	750		OF THE PLAN APPLICABLE TO THEIR SIT PLAN APPLICABLE TO THEIR SITE. SECC PERMITTEES SHALL SUBMIT A SECOND
SITE (50.01-100 100.01+	50 50	50 50	50 50	100 50	100 50	150 100	300 200	600 100		DESIGN PROFESSIONA ENGINEER'S NAME (PRINTED):
			NATURAL RES		RONMENTAL P	ROTECTION DIV	ISION GENERA	L PERMIT NO. (GAR100001		GEORGIA PE NUMBER: GSWCC LEVEL II CERTIFICATION NUMBE

CTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS TATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS NATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES

WHICH HAVE SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC GN PROFESSIONAL."

TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION

HALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT O LAND-DISTURBING ACTIVITIES." TAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED SION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL

DL OR TREAT THE SEDIMENT SOURCE." CHUTES, HOPPERS, DRUMS AND THE REAR OF THE VEHICLES AT THE

EDUCE THE POLLUTANTS IN STORM WATER DISCHARGES ABILIZED UTILIZING PERMANENT SEEDING TO PRE-TREAT THE STORMWATER EAM CONVEYANCE BY REMOVING SEDIMENT AS WELL AS ANY ATTACHED DING ALSO PREVENTS EROSION, REDUCES THE VOLUME AND VELOCITY OF THE

AS NATURAL BIOFILTERS TO REDUCE STORM WATER VELOCITY AND POLLUTANT NTO THE DOWNSTREAM CONVEYANCE. THIS IS ACCOMPLISHED VIA INFILTRATION

WET POND ENHANCES PARTICULATE SETTLING BY INCREASING RESIDENCE TIME REMOVAL RATE, BY ALLOWING SEDIMENT AND OTHER POLLUTANTS THAT ARE NVEYANCES, THUS ELIMINATING THE RELEASE INTO AND IMPROVING THE WATER E. WET PONDS ALSO SIGNIFICANTLY REDUCE THE VOLUME AND THE VELOCITY OF TREAM CONVEYANCE.

PERMITTEE:

CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, Y THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY JM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR F-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A

ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING L HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

ID WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR NDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, N-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE IEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. IEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S E THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR IL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE ANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE R ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET E REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE NTIL A NOTICE OF TERMINATION IS SUBMITTED.

D BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH .E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE TABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING 'E FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR NTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND FIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING ATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN SURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING

H INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND IE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) SPECTION.

ON THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH SPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR MPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL DANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT E AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT JECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A ED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND Y AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT ED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES E INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. CORDANCE WITH PART V.G.2 OF THIS PERMIT.

NSTRUCTION ACTIVITY HAS TAKEN PLACE AT A SECONDARY PERMITTEE'S SITE, THE SECONDARY PERMITTEE SHALL INSPECT: (A) ALL AREAS USED BY THE ROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS (B) ALL LOCATIONS AT THE SECONDARY PERMITTEE SITE WHERE THAT T THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS OF TERMINATION IS SUBMITTED. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY RS IF THEY ARE SECONDARY PERMITTEES. (COMPANIES AND UTILITY CONTRACTORS IF THEY ARE

ECT THE FOLLOWING EACH DAY ANY TYPE OF CONSTRUCTION ACTIVITY HAS SITE: (A) AREAS OF THE CONSTRUCTION SITE DISTURBED BY THE UTILITY AS THAT HAVE NOT UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP NG OF TARGET PERENNIALS APPROPRIATE FOR THE REGION; (B) AREAS USED BY CONTRACTORS FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO RGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION LS APPROPRIATE FOR THE REGION OR ESTABLISHED A CROP OF ANNUAL ET PERENNIALS APPROPRIATE FOR THE REGION; AND (C) STRUCTURAL CONTROL CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE UTILITY RS' CONSTRUCTION ACTIVITIES SHALL BE OBSERVED TO ENSURE THAT THEY ARE HARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO H IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS WHEN ERFORMING SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON

BY THE SECONDARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR 5 AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, VORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A)

Y PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE SECONDARY ALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE SECONDARY D TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL TING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT ON OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET EGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.B.(4). THESE NTIL A NOTICE OF TERMINATION IS SUBMITTED. THIS PARAGRAPH IS NOT

ND UTILITY CONTRACTORS IF THEY ARE SECONDARY PERMITTEES . BY THE SECONDARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH ., UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THEIR BTABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR TERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND TIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING ATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN RES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING PPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE

NSPECTION, THE SECONDARY PERMITTEE MUST NOTIFY THE PRIMARY PERMITTEE BMP DESIGN DEFICIENCIES. THE PRIMARY PERMITTEE MUST EVALUATE WHETHER HOURS OF SUCH NOTICE, AND IF THESE DEFICIENCIES ARE FOUND TO EXIST MUST TH PART IV.C. OF THIS PERMIT TO ADDRESS THOSE DEFICIENT BMPS WITHIN SEVEN ECONDARY PERMITTEE. WHEN THE PLAN IS AMENDED, THE PRIMARY PERMITTEE THE AMENDMENT TO ALL AFFECTED SECONDARY PERMITTEE(S) WITHIN THIS RY PERMITTEES MUST IMPLEMENT ANY NEW PLAN REQUIREMENTS AFFECTING TIFICATION BY THE PRIMARY PERMITTEE.

IAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, INSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR LEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, WITH PART IV.D.4.B.(5) OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE NATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE HAS UNDERGONE FINAL INATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY AY AND /OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A GEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2 OF THIS PERMIT. TO UTILITY COMPANIES AND UTILITY CONTRACTORS IF THEY ARE SECONDARY ICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE

ALL BE PROVIDED WITH A COPY OF THE EROSION CONTROL PLANS OR PORTIONS TE AND EACH SECONDARY PERMITTEE SHALL SIGN THE PLAN OR PORTION OF THE INDARY PERMITTEES SIGN WHEN RECEIVING PLANS. ALL SECONDARY ARY NOI AT LEAST 14 DAYS PRIOR TO BEGINNING CONSTRUCTION ACTIVITY.

L'S CREDENTIALS: TRAVIS BURKE, PE

31215 ER: 8134 C. TERTIARY PERMITTEE.

(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A TERTIARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE TERTIARY PERMITTEE SHALL INSPECT: (A) ALL AREAS USED BY THE TERTIARY PERMITTEE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; AND (B) ALL LOCATIONS AT THE TERTIARY PERMITTEE SITE WHERE THAT PERMITTEE'S 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. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS PERFORMING ONLY SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

(2).MEASURE AND RECORD 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 ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.
(3). CERTIFIED PERSONNEL (PROVIDED BY THE TERTIARY PERMITTEE) SHALL INSPECT AT LEAST THE FOLLOWING ONCE EVERY SEVEN 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 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 TERTIARY PERMITTEE'S CONSTRUCTION SITE ; (B) AREAS USED BY THE TERTIARY 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 TERTIARY 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.C.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED. THIS PARAGRAPH IS NOT

APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS PERFORMING ONLY SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS. (4). CERTIFIED PERSONNEL (PROVIDED BY THE TERTIARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THEIR SITES 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). THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS PERFORMING ONLY SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE

INSTALLATIONS . (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 THE 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.C.(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 HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY THE 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. THIS PARAGRAPH IS NOT APPLICABLE TO UTILITY COMPANIES AND UTILITY CONTRACTORS PERFORMING ONLY SERVICE LINE INSTALLATIONS OR WHEN CONDUCTING REPAIRS ON EXISTING LINE INSTALLATIONS.

AN "EROSION & SEDIMENTATION INSPECTION AND MAINTENANCE REPORT" SHEET IS ATTACHED. SHOULD INSPECTION REVEAL ANY DEFICIENCIES, A COPY OF THE REPORT SHALL BE SENT TO:

ATTN; TRAVIS G. BURKE, PE

912-200-3041

COLEMAN COMPANY, INC.

1480 Chatham Parkway, Suite 100 SAVANNAH, GA 31405

REPORTING

 THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART 11.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
 ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

- a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
- b. THE NAME(S) OF THE CERTIFIED PERSONNEL
 c. THE DATE(S) ANALYSES WERE PERFORMED:
- d. THE TIME(S) ANALYSES WERE INITIATED ;
- THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
- f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED:
- g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR
- TAPES, ETC., USED TO DETERMINE THESE RESULTS;h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU;" AND
- i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.
- 3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

33 <u>SAMPLE ANALYSIS</u>

STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-8-92-001." STORM WATER IS SUPPOSED TO BE SAMPLED FOR NEPHLOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION. A DISCHARGE OF STORMWATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING NTU, THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT NO. PERMIT# THE NTU IS BASED UPON THE DISTURBED ACREAGE OF ---- AC FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF 0000 SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

ANY CONSTRUCTION ACTIVITY WHICH DISCHARGES STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT MUST COMPLY WITH PART III. C. OF THE PERMIT. INCLUDE THE COMPLETE APPENDIX 1 LISTING ALL THE BMPS THAT WILL BE USED FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO THE IMPAIRED STREAM SEGMENT. ADDITIONAL SITE/EROSION CONTROL NOTES:

A. ZONING: THE PRESENT ZONING CLASSIFICATION FOR THIS SITE IS ROW. PIN(S):

- B. BUFFER REQUIREMENTS: AS REQUIRED BY ARTICLES 15 AND 16 OF SECTION 12-7-6 OF THE "GEORGIA EROSION AND SEDIMENTATION ACT OF 1975", THERE IS ESTABLISHED A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR DETERMINES TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF THE NATURAL RESOURCES AND THE ENVIRONMENT, WHERE OTHERWISE ALLOWED BY THE DIRECTOR PURSUANT TO OCGA 12-2-8, OR WHERE A DRAINAGE STRUCTURE OR ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED. "NO BUFFERS ARE REQUIRED FOR THIS PROJECT."
- C. EROSION CONTROL PROGRAM: CLEARING WILL BE KEPT TO AN ABSOLUTE MINIMUM. VEGETATION AND MULCH WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER VEGETATION AND MULCH WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER GRADING IS COMPLETED. GRAVEL WILL BE APPLIED TO PARKING AREAS AND ROADWAYS AS SOON AS GRADING IS COMPLETED. LAND WILL BE SCHEDULED TO LIMIT EXPOSURE OF BARE SOILS TO EROSION ELEMENTS. STORM WATER MANAGEMENT STRUCTURES WILL BE EMPLOYED TO PREVENT EROSION IN AREAS OF CONCENTRATED WATER FLOWS. EROSION AT THE EXITS OF ALL STORM WATER STRUCTURES WILL BE PREVENTED BY THE INSTILLATION OF STORM DRAIN OUTLET PROTECTION DEVICES.
- D. STANDARDS AND SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
- E. SAFETY PROTECTION: CONSTRUCTION ACTIVITIES WILL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LAWS, RULES AND REGULATIONS.F. MAINTENANCE PROGRAM: SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED DAILY. ANY DAMAGES
- OBSERVED WILL BE REPAIRED BY THE END OF THAT DAY. CLEANOUT OF SEDIMENT CONTROL STRUCTURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATIONS AND SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON THE SITE. BARRIERS WILL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. THE SEDIMENT FENCES, AND THE BARRIERS WILL THEN BE REMOVED AND THE AREAS OCCUPIED BY THESE DEVICES WILL THEN BE VEGETATED. GUIDELINES FOR THE MAINTENANCE OF ESTABLISHED VEGETATION WILL BE PROVIDED TO THE OWNER WHEN ALL DISTURBED AREAS ARE STABILIZED.
- G. 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.
 H. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL PRACTICES, WHETHER TEMPORARY OR PERMANENT,
- I. BASED ON MY OBSERVATION THIS PROPERTY IS LOCATED IN ZONE ROW, IS NOT A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP NUMBER DATED.
- J. THERE ARE STATE WATERS LOCATED ON OR WITHIN 200' OF THIS SITE. K. THE POINT OF CONTACT FOR CIVIL SITE WORK FOR THIS PROJECT IS:
- THE POINT OF CONTACT F TRAVIS BURKE, PE
- COLEMAN COMPANY
- 1480 Chatham Parkway, Suite 100
- SAVANNAH, GA 31405 (912) 200-3041

SAMPLING FREQUENCY AND REPORTING OF SAMPLING RESULTS REQUIREMENTS:

SAMPLING REQUIREMENTS

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVIS ION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY . a.SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

(1)A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) COMBINES WITH THE

FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP; (2). A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION:

(3). WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES) ; AND (4). ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

 b. SAMPLE TYPE:
 (1). ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE

DOCUMENT, EPA 833-8-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

(2). SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.(3). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER .

(4). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES .
 THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION .

(5). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

(6). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E. c. SAMPLING POINTS.

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S}, OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S) . SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

(A). THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

(B). THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.

WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S). (D). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.

(E). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F). THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS. (G). PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION).

(H). ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS 111.D.3. OR 111.D.4.., WHICHEVER IS APPLICABLE.
 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

 (2). HOWEVER, WHERE MANDAL 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 ELECT.

(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 111.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.

STORMWATER RUNOFF FROM THIS DEVELOPMENT DISCHARGES INTO A WETLAND TOWARD THE HARDIN CANAL. HARDIN CANAL FLOWS TO SALT CREEK THEN TO THE LITTLE OGEECHEE RIVER.

IF A TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS BEEN FINALIZED FOR THE IMPAIRED STREAM SEGMENT (IDENTIFIED IN ITEM 22 ABOVE) AT LEAST SIX MONTHS PRIOR TO SUBMITTAL OF NOI, THE ES&PC PLAN MUST ADDRESS ANY SITE-SPECIFIC CONDITIONS OR REQUIREMENTS INCLUDED IN THE TMDL IMPLEMENTATION PLAN.*

	Ž		
	MPA	SURVEY 0-3041 CCI-SA	
	N COI	ENGINEERS • SURVEYORS Savannah, Georgia (912) 200-3041 CCI-SAV.COM	
	EMA	ENGIN Savannah, G	
	COL		
NOIL			
CONSTRUCT			
7 <i>1</i>			

62

0

REVISIONS:

