CIVIL CONSTRUCTION PLANS FOR

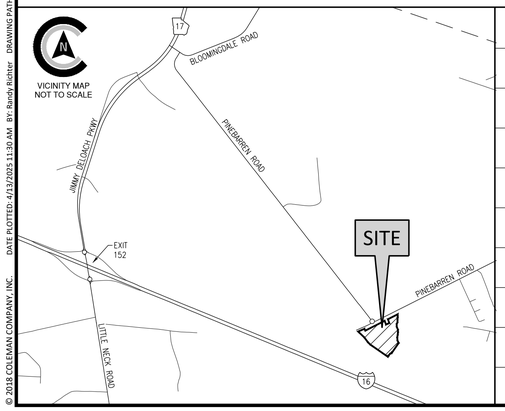
DST TRAILER YARD

PHASE 1

PREPARED FOR
DST DUVAL SEMI TRAILERS

DEPARTMENT OF PLANNING & DEVELOPMENT
APPROVED BY: rjarles
DATE: 10:24 am, Sep 16 2025

VICINITY MAP (N.T.S.)



REVISIONS

PROJECT SITE DATA

PROJECT ADDRESS:	PINE BARREN ROAD
PROJECT CITY, STATE:	POOLER, GEORGIA
OWNER/REPRESENTATIVE:	DST DUVAL SEMI TRAILERS
PROPERTY AREA:	68.78
DISTURBED AREA:	16.60
ZONING:	I-1
VERTICAL DATUM:	NAVD 88
HORIZONTAL DATUM:	NAD 83
FLOOD ZONE:	X
WATER & SEWER PROVIDER:	CITY OF POOLER
PINS:	51032 01013
SURVEY PREPARED BY:	COLEMAN COMPANY, INC.
GEOTECHNICAL BY:	N/A
ARCHITECT:	N/A
CONSTRUCTION EXIT LOCATION:	N32.094770, W81.298783

SHEET INDEX

COLEMAN COMPANY
ENGINEERS • SURVEYORS
Savannah, Georgia | (912) 200-3041 | COLEMAN-SAV.COM

NOT FOR CONSTRUCTION

GEORGIA REGISTERED PROFESSIONAL ENGINEER 10/21/24 DOUGLAS L. FAIRCLOTH

REVISIONS:
12.04.2024 PER HGB COMMENTS
12.18.2024 PER CITY & HGB COMMENTS
01.14.2025 ACCESS ROAD REVISION
02.25.2025 PER CITY COMMENTS
04.11.2025 PER CITY & HGB COMMENTS

CIVIL CONSTRUCTION PLANS FOR
DST TRAILER YARD
PHASE 1
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER: 23-142
DATE: 10/16/24
DRAWN BY: CLM
CHECKED BY: DLF
SCALE: AS NOTED

COVER

SHEET:
COV

DATE PLOTTED: 4/13/2025 11:30 AM BY: Randy Richter DRAWING PATH: Q:\2023\23-142.000\DWG\Civil\23-142_DET.dwg

GENERAL NOTES:

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. A MINIMUM SHOULDER WIDTH OF 4 FEET WITH A MINIMUM TRANSVERSE SLOPE OF 5% WILL BE PROVIDED ADJACENT TO CURBS AND WALKS. ALL WALKS SHALL HAVE A MINIMUM SLOPE OF 1%.

6. MAXIMUM EARTH SLOPES WILL BE 3:1. GRADE FROM SHOULDER EDGE TO RIGHT- OF-WAY AT 1% MINIMUM.

7. 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.

8. 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.

9. SAW-CUT CONTRACTION JOINTS WILL BE PROVIDED IN ACCORDANCE WITH DETAILS, CUT TO BE 1/4 DEPTH OF CONCRETE MINIMUM.

10. ALL DIMENSIONS ARE TO EXTERIOR FACE OF BUILDING , EDGE OF SURFACE COURSE OR FACE OF CURBING UNLESS OTHERWISE NOTED.

11. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.

12. THE CONTRACTOR SHALL KEEP ACCURATE RECORDS FOR "AS BUILT" 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 STORMWATER 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.

13. ALL NEW DISTURBED AREAS WILL BE GRASSED BY SEEDING OR SPRIGGING IN ACCORDANCE WITH CURRENT VERSION OF THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA, AND AS DIRECTED BY THE ENGINEER.

14. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

15. CONTRACTOR SHALL PROVIDE DUST CONTROL OF ALL DISTURBED AREAS BY THE USE OF WATER AND FAST GROWING, TEMPORARY VEGETATION ON ALL STOCKPILED SOILS.

16. CONTRACTOR WILL PROVIDE A CONSTRUCTION SCHEDULE INCLUDING ALL EROSION AND SEDIMENT CONTROL MEASURES.

17. ALL EXISTING INLETS AND DITCHES SUBJECT TO STORM WATER RUNOFF FROM THE SITE AND ALL NEW INLETS SHALL BE PROVIDED WITH HAY BALES SILT CARRIERS TO MINIMIZE SOIL TRANSPORT OFF SITE BY STORM WATERS.

18. ALL MATERIAL AND INSTALLATION PRACTICES ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT SHALL MEET THE CURRENT REQUIREMENTS OF THE CITY OF POOLER AND CHATHAM COUNTY DEVELOPMENT REGULATIONS AND SPECIFICATIONS.

19. TESTING - PROVIDE ALL TESTING AS REQUIRED IN THE SPECIFICATIONS. PROVIDE ENGINEER WITH COPY DIRECT FROM TESTING LAB.

20. 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.

21. ANY DETENTION BASINS SHALL BE CONSTRUCTED IN CONJUNCTION WITH CLEARING AND GRADING TO HELP PREVENT THE LOSS OF SEDIMENT FROM THE SITE. THE CONTRACTOR SHALL 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.

22. PRIOR TO CONSTRUCTION, ALL BUILDING AREAS, PLUS 10 FEET ON EACH SIDE AND ALL AREAS TO BE PAVED, SHALL BE STRIPPED OF ALL VEGETATION, TOP SOIL AND ROOT SYSTEMS.

23. SITE DRAINAGE SHALL BE ESTABLISHED TO PREVENT ANY PONDED WATER CONDITIONS WITHIN THE CONSTRUCTION AREA AND TO FACILITATE THE RAPID RUN-OFF OF STORM WATER.

24. ANY STUMP HOLES OR OTHER DEPRESSIONS SHALL BE CLEARED OF LOOSE MATERIAL AND DEBRIS AND SHALL THEN BE BACKFILLED WITH APPROVED FILL. THE BACKFILL SHALL BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.

25. ANY UTILITIES THAT UNDERLIE THE SITE SHALL BE RELOCATED AND THE TRENCHES BACKFILLED WITH APPROVED SOIL. THE BACKFILL SHOULD BE PLACED IN SIX INCH MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY IN ACCORDANCE WITH ASTM-D-1557.

26. THE SUBGRADE SHALL BE PROOFROLLED WITH A LOADED DUMP TRUCK TO LOCATE UNSTABLE OR SOFT AREAS. THESE AREAS SHALL 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 SHALL 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 SOIL, THE AREA SHALL 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.

27. ALL OF THE FILL FOR THIS PROJECT SHALL CONSIST OF A CLEAN, FREE DRAINING SAND WITH A MAXIMUM OF 15% FINES. THE FILL SHALL BE FREE OF OBJECTIONABLE ROOTS, CLAY LUMPS AND DEBRIS.

28. MOISTURE CONTENT SHALL BE AT OR BELOW OPTIMUM.

29. ALL WATER USED FOR CONSTRUCTION SHALL BE METERED THROUGH AN APPROVED BACKFLOW PREVENTION DEVICE AND FIRE HYDRANT METER OBTAINED FROM THE CITY OF POOLER CONVEYANCE AND DISTRIBUTION DEPARTMENT.

30. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO FOLLOW THE COMPREHENSIVE MONITORING PLAN PREPARED FOR THE DEVELOPER BY COLEMAN COMPANY, INC.

31. 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".

32. ALL FIRE HYDRANTS AND VALVES SHALL BE MANUFACTURED BY AMERICAN, DARLING, MUELLER OR M&H.

33. 50 L.F. OF 6" UNDERDRAIN AND ROCK SHALL BE INSTALLED FROM EACH SIDE OF EACH GRATE INLET. 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.

34. 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.

35. 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.

36. 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 UTILITY PROTECTION CENTER (1-800-282-7411) AT LEAST SEVENTY TWO (72) HOURS PRIOR TO DIGGING AND SHALL NOT BEGIN DIGGING UNTIL ALL UNDERGROUND UTILITY LOCATIONS ARE COMPLETE.

37. ALL DEMOLITION DEBRIS SHALL BE PROPERLY DISPOSED AT THE CONTRACTOR'S EXPENSE.

38. 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 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 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'.

39. 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 AND TRACER WIRE AS DESCRIBED ABOVE.

40. 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'.

41. 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 AND TRACER WIRE AS DESCRIBED ABOVE.

42. TRACER WIRE SHALL BE REQUIRED ON ALL STORM PIPE.

43. THE CONTRACTOR SHALL HAVE APPROVED PLANS ON SITE AT ALL TIMES DURING LAND DISTURBING ACTIVITIES.

44. THE CONTRACTOR SHALL HAVE A CERTIFIED EROSION AND SEDIMENTATION CONTROL INSPECTOR ON SITE AT ALL TIMES DURING LAND DISTURBING ACTIVITIES.

45. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CITY OF POOLER AND CHATHAM COUNTY'S LATEST CONSTRUCTION SPECIFICATIONS AND DETAILS.

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

47. FOR CITY WATER AND SEWER LINE LOCATIONS, CONTACT THE UTILITIES PROTECTION CENTER (1-800-282-7411) A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO DIGGING.

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

49. STORM SEWER SPECIFICATIONS FOR MANHOLE COVER IN STREET:

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 SMOOTH AND WELL CLEANED BY SHOT BLASTING.

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. CASTING'S WEIGHT SHALL NOT VARY MORE THAN 5% ABOVE OR BELOW THOSE VALUES REPRESENTED BY THE MANUFACTURER.

MARKINGS: ALL CASTINGS SHALL BE CLEARLY MARKED WITH THE MANUFACTURE'S NAME, COMPANY LOGO AND "MADE IN USA" IN CAST LETTERS. ADDITIONALLY, THE TOP OR TRAFFIC SIDE OF ALL CASTINGS SHALL BE CLEARLY MARKED "STORM" AND "CITY OF POOLER " 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 SIMILAR VERBIAGE THAT ACHIEVES THE SAME MEANING.

50. INTERNATIONAL FIRE CODE, 2012 EDITION:

SECTION 3310
ACCESS FOR FIREFIGHTING
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 (30.5 METERS) OF TEMPORARY OR PERMANENT FIRE DEPARTMENT CONNECTIONS. VEHICLE ACCESS SHALL BE PROVIDED BY EITHER TEMPORARY OR PERMANENT ROADS, CAPABLE OF SUPPORTING VEHICLE LOADING UNDER ALL WEATHER CONDITIONS. VEHICLE ACCESS SHALL BE MAINTAINED UNTIL PERMANENT FIRE APPARATUS ACCESS ROADS ARE AVAILABLE.

SECTION 3312
WATER SUPPLY FOR FIRE PROTECTION
3312.1 WHEN REQUIRED. AN APPROVED WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE.

51. IN THE CASE OF ANY CONFLICT OF THESE CONSTRUCTION DOCUMENTS AND THE CITY OF POOLER CODIFIED ORDINANCES, STANDARDS, SPECIFICATIONS, OR DETAILS, THE CITY OF POOLER STANDARDS ARE TO TAKE PRECEDENCE.

52. MAXIMUM BUILDING HEIGHT IS TO BE 80' PER APPENDIX A, ARTICLE IV, SECTION 18 OF THE CITY OF POOLER CODIFIED ORDINANCES.

ADA NOTES:

1. ACCESSIBLE ROUTE - EXTERIOR:
MINIMUM CLEAR WIDTH IS 3'. IF ACCESSIBLE ROUTE HAS LESS THAN 5' CLEAR WIDTH, THEN PASSING SPACES AT LEAST 5'X5' SHALL BE LOCATED EVERY 200' OR LESS (INTERSECTING SIDEWALKS MEET THIS REQUIREMENT). LONGITUDINAL (RUNNING) SLOPE MAY NOT EXCEED 5% UNLESS RAMP IS INSTALLED (RAMPS MAY NOT EXCEED 8.33%). CROSS SLOPE MAY NOT EXCEED 2%. GAPS IN ROUTE MAY NOT EXCEED 1/2" IN WIDTH.
2. FINISHED SURFACE HEIGHT DIFFERENCE REQUIREMENTS:
A. 0 TO 1/4" : NO REQUIREMENTS
B. 1/4" TO 1/2" : BEVEL WITH 1:2 SLOPE
C. LARGER THAN 1/2" : CONFORM TO REQUIREMENTS FOR RAMP
3. RAMPS:
•• MAX RAMP SLOPE 8.33% (1:12)
•• RAMPS STEEPER THAN 8.33% ARE NOT ACCEPTABLE
•• MAX RISE FOR ANY RAMP RUN IS 30" (AT 8.33% SLOPE, MAXIMUM RUN OF RAMP IS 30')
•• MAX CROSS SLOPE OF RAMP 2% (1:50)
A. LANDINGS :
••• RAMPS SHALL HAVE LEVEL LANDINGS AT BOTTOM AND TOP OF EACH RAMP.
••• LANDINGS SHALL BE AT LEAST AS WIDE AS RAMP LEADING TO IT.
••• LANDING LENGTH SHALL BE MINIMUM 5' CLEAR
••• IF RAMPS CHANGE DIRECTION AT LANDING, MINIMUM LANDING SIZE SHALL BE 5'X5'.
••• ALL LANDINGS ARE TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.
B. HANDRAILS:
••• HANDRAILS ARE REQUIRED ON BOTH SIDES (MIN. 36" CLEAR BETWEEN HANDRAILS) WHEN RAMP RISE IS GREATER THAN 6".
••• PROVIDE MINIMUM 12" LONG HANDRAIL EXTENSIONS AT TOP AND BOTTOM LANDINGS.
••• PROVIDE MINIMUM 2" HIGH EDGE PROTECTION OR RAIL WITH LESS THAN 4" CLEAR TO RAMP IF RAMP HAS DROP-OFFS.
••• ROUTES BETWEEN BUILDINGS WITH ONLY DWELLING UNITS DO NOT HAVE TO HAVE HANDRAILS.
••• STAIRS ARE NOT ALLOWED AS PART OF ACCESSIBLE ROUTE BUT IF ADJACENT TO ROUTE OR PART OF TENANT THEY SPACE MUST MEET REQUIREMENTS FOR STAIR RAILS.
4. CURB RAMPS :
•• MAX SLOPE OF CURB RAMP 8.33%
•• MAX SLOPE OF SIDE FLARES 10%
•• MAX SLOPE OF ADJOINING GUTTERS, ROAD SURFACE, OR ACCESSIBLE ROUTE 5%.
•• MIN WIDTH 36" (NOT INCLUDING SIDE FLARES).
•• DETECTABLE WARNING IS REQUIRED ON CURB RAMPS IN PUBLIC RIGHT OF WAYS, AND SHALL BE 24" MINIMUM IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB LINE IS 6" TO 8" FROM THE CURB LINE.
5. PAVEMENT MARKINGS :
•• AS REQUIRED BY LOCAL JURISDICTIONAL AUTHORITY (RECOMMENDED CROSSWALK MARKING TO DESIGNATE ACCESSIBLE PEDESTRIAN ROUTE)
6. PARKING SPACES :
•• MINIMUM 8' WIDE ACCESSIBLE PARKING SPACE.
•• MINIMUM 5' WIDE ACCESS AISLE AT STANDARD SPACES
•• MINIMUM 8' WIDE ACCESS AISLE AT VAN ACCESSIBLE SPACES
•• MAXIMUM 2% (1:50) SLOPE IN ANY DIRECTION
7. SIGNAGE :
ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A SIGN SHOWING THE SYMBOL OF ACCESSIBILITY. VAN ACCESSIBLE SPACES SHALL HAVE AN ADDITIONAL SIGN "VAN ACCESSIBLE" MOUNTED BELOW THE SYMBOL. SUCH SIGNS SHALL BE LOCATED SO THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE (SIGNAGE TO BE INSTALLED AT A MINIMUM HEIGHT OF 7' TO BOTTOM OF VAN ACCESSIBLE DESIGNATION, AND 7' MINIMUM TO THE BOTTOM OF ALL OTHER SIGN FACES).
8. ACCESSIBLE ROUTES :
MUST COMPLY WITH ADA, THE FAIR HOUSING ACT AND ICC/ANSI A117.1-2003

WATER - SEWER NOTES:

1. HIGHLY CHLORINATED WATER USED IN THE DISINFECTION PROCESS SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH THE LATEST CITY OF POOLER CONSTRUCTION SPECIFICATIONS.

2. ANY PIPE, SOLDER AND FLUX USED DURING INSTALLATION OF THE WATER LINES MUST BE "LEAD FREE" IN ACCORDANCE WITH THE LATEST CITY OF POOLER CONSTRUCTION SPECIFICATIONS.

3. MAINTAIN MINIMUM HORIZONTAL/VERTICAL CLEARANCE IN ACCORDANCE WITH THE LATEST CITY OF POOLER CONSTRUCTION SPECIFICATIONS.

4. WHERE THE WATER MAIN CROSSES SEWER OR STORM PIPES, THE WATER LINE SHALL BE DUCTILE IRON IN ACCORDANCE WITH THE LATEST CITY OF POOLER CONSTRUCTION SPECIFICATIONS.

5. THE CONTRACTOR IS RESPONSIBLE TO BRING PROPOSED MANHOLE TOPS TO GRADE.

6. MAXIMUM COVER FOR THE WATER MAIN SHALL BE IN ACCORDANCE WITH THE LATEST CITY OF POOLER CONSTRUCTION SPECIFICATIONS.

7. CONTRACTOR TO VERIFY ALL INVERT ELEVATIONS OF SANITARY SEWER LATERALS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER WITH INVERT DATA TO INSURE THERE ARE NO CONFLICTS.

8. ALL FILLING AND HYDROSTATIC TESTING OF NEW MAINS SHALL BE COORDINATED WITH AND WITNESSED BY THE CITY'S INSPECTOR.

9. INDUSTRIAL WASTEWATER DISCHARGE IS NOT ANTICIPATED NOR DESIGNED FOR WITH THIS DEVELOPMENT.

10. IN ADDITION TO THE SEDIMENTATION AND EROSION CONTROL MEASURES AS INDICATED ON THE PLANS THE CONTRACTOR SHALL TAKE WHATEVER ACTIONS AS ARE NECESSARY TO ENSURE THAT ALL SEDIMENTATION IS CONFINED TO THE SITE AND THAT NO OFFSITE EROSION IS CAUSED BY THE WORK EITHER DIRECTLY OR INDIRECTLY.

DEVELOPMENT REQUIREMENTS:

FRONT SETBACK: 60'
SIDE YARD SETBACKS: 20'
REAR YARD SETBACK: 20'

BUILDING AREA = 8,100 SF
PARKING REQUIRED = 12
PARKING PROVIDED = 12

SITE INFORMATION:

PARENT PIN: 51032 01013
ZONING DISTRICT: I-1
FLOOD ZONE: X
SIZE: 68.78

PROPOSED LAND USE: TRAILER PARKING WITH OFFICE AND ASSOCIATED INFRASTRUCTURE

EROSION CONTROL NOTES:

1. EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL UTILIZE BEST MANAGEMENT PRACTICES (BMP) DURING ALL PHASES OF CONSTRUCTION AND SHALL INSTALL & MAINTAIN ALL EROSION CONTROL MEASURES ON THE SITE AT ALL TIMES IN ACCORDANCE WITH THESE PLANS AND THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

2. NARRATIVE DESCRIPTION:

LOCATION: PINE BARREN ROAD POOLER,GEORGIA

PINS: 51032 01013

NATURE OF WORK: CIVIL CONSTRUCTION OF TRAILER YARD AND ASSOCIATED INFRASTRUCTURE

SIZE:
TOTAL PROPERTY ACREAGE: 68.78
DISTURBED ACREAGE: 16.60

ZONING CLASSIFICATION: I-1

MAXIMUM BUILDING HEIGHT: 80'
PROPOSED BUILDING HEIGHT: 15'

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.

6. THE SOILS ON SITE ARE : Cc (CAPE FEAR SOILS), Oj (OCILLA COMPLEX), El (ELLABELLE LOAMY SAND) Mn (MASCOTTE SAND).

7. THIS SITE IS CURRENTLY UNDEVELOPED WOODLANDS

8. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE OWNER.

9. THE CONTRACTOR SHALL ENSURE THAT STRUCTURAL EROSION CONTROL MEASURES ARE INSPECTED DAILY. ANY DEFICIENCIES, INCLUDING SEDIMENT ACCUMULATION AND REMOVAL, OBSERVED SHALL BE CORRECTED 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.

10. 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.

11. 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 WILL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

12. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD OF GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

13. ACCORDING TO THE FLOOD INSURANCE RATE MAPS, AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, THIS PROJECT SITE DOES NOT APPEAR TO LIE IN AN FLOOD HAZARD AREA AS DEPICTED ON FIRM PANEL NO. 13051C0106G EFFECTIVE DATE: AUGUST 16, 2018.

14. CONTACT INFORMATION:

CIVIL ENGINEER:	OWNER/REPRESENTATIVE CONTACT:
PATRICK WARNER, PE	DST DUVAL SEMI TRAILERS
COLEMAN COMPANY, INC.	CHIP MATTHEWS JR.
1480 CHATHAM PKWY,	827 FAIRWAYS COURT SUITE 110
SAVANNAH, GA 31405	STOCKBRIDGE GA, 30281
P: 912.200.3041	
F: 912.200.3056	

16. THE INITIAL RECEIVING WATER FOR THIS PROJECT IS THE LITTLE OGEECHEE RIVER TRIBUTARY. FINAL RECEIVING WATERS ARE THE LITTLE OGEECHEE RIVER.
17. ANY ON-SITE FUEL STORAGE TANK MUST BE PROTECTED FROM LEAKS, SPILLS, AND RUPTURE AS PER APPLICABLE CODES.
18. SILT FENCE MUST BE INSPECTED DAILY FOR FAILURES AND CLEANED OUT WHEN SILT REACHES 1/2 THE FENCE HEIGHT.
19. ALL TEMPORARY BMPS FOR EROSION & SEDIMENT CONTROL SHALL BE REMOVED ONCE FINAL STABILIZATION IS ACHIEVED.

	ARE	IMPERVIOUS	CN	Q25
PRE-DEVELOPMENT	16.55ac	0.00ac	77	(±)41.57 cfs Tc=25.6min.
POST-DEVELOPMENT	16.55ac	10.88ac	92	(±)30.82 cfs Tc=10min.

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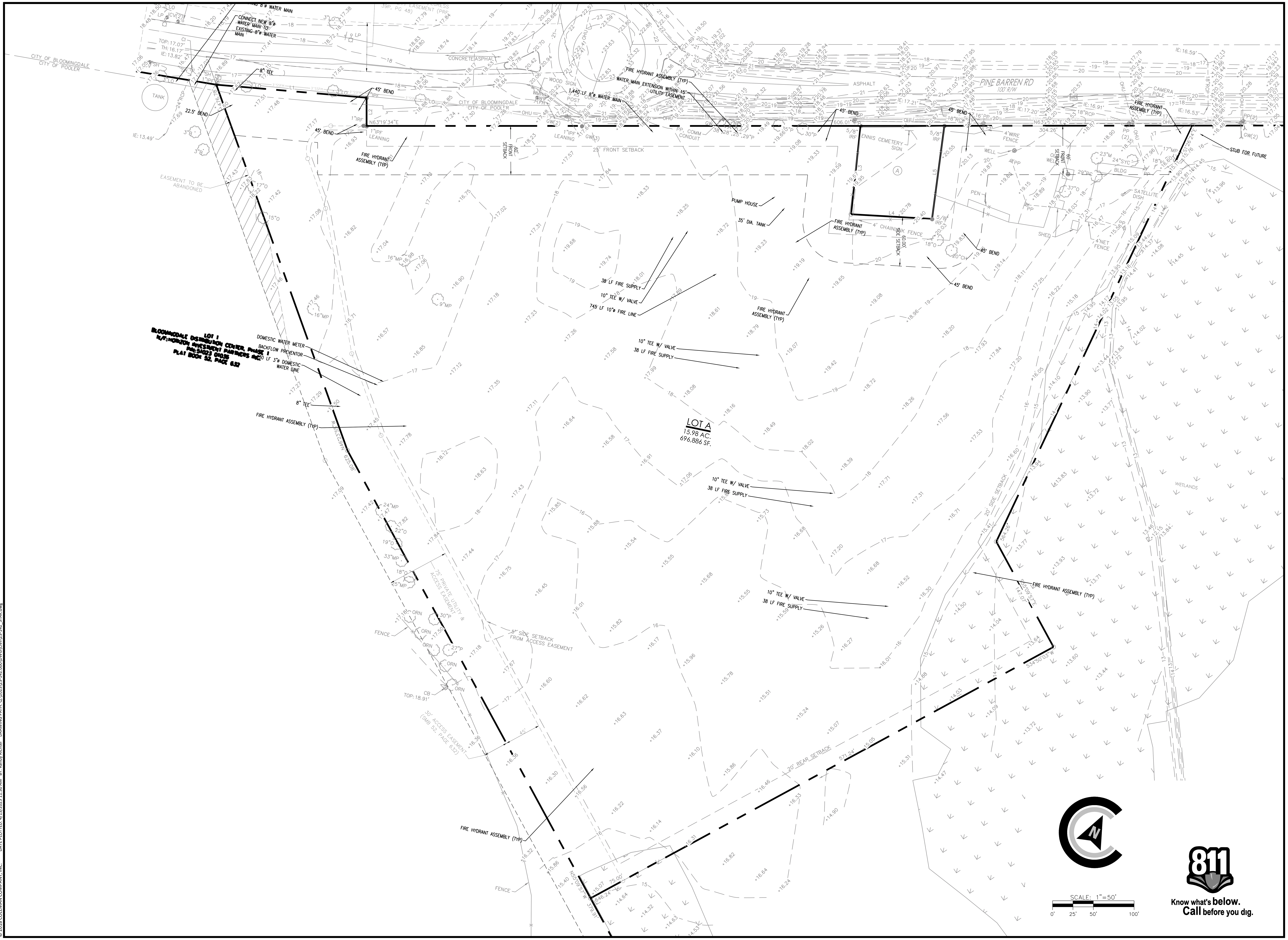
12.18.2024 PER CITY & HGB COMMENTS
01.14.2025 ACCESS ROAD REVISION
02.25.2025 PER CITY COMMENTS
04.11.2025 PER CITY & HGB COMMENTS

CIVIL CONSTRUCTION PLANS FOR
DST TRAILER YARD
PHASE 1
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
CHECKED BY:	DLF
SCALE:	AS NOTED

CONSTRUCTION NOTES

SHEET:
C0.0



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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE042072 DOUGLAS L. FAIRCLOTH 10/23/24

REVISIONS:
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CIVIL CONSTRUCTION PLANS FOR

DST TRAILER YARD

PHASE 1

LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
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SCALE:	AS NOTED

EXISTING CONDITIONS

SHEET:

C1.0

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GEORGIA REGISTERED PROFESSIONAL ENGINEER DOUGLAS L. FAIRCLOTH

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02.25.2025 PER CITY COMMENTS
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CIVIL CONSTRUCTION PLANS FOR

DST TRAILER YARD

PHASE 1

LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

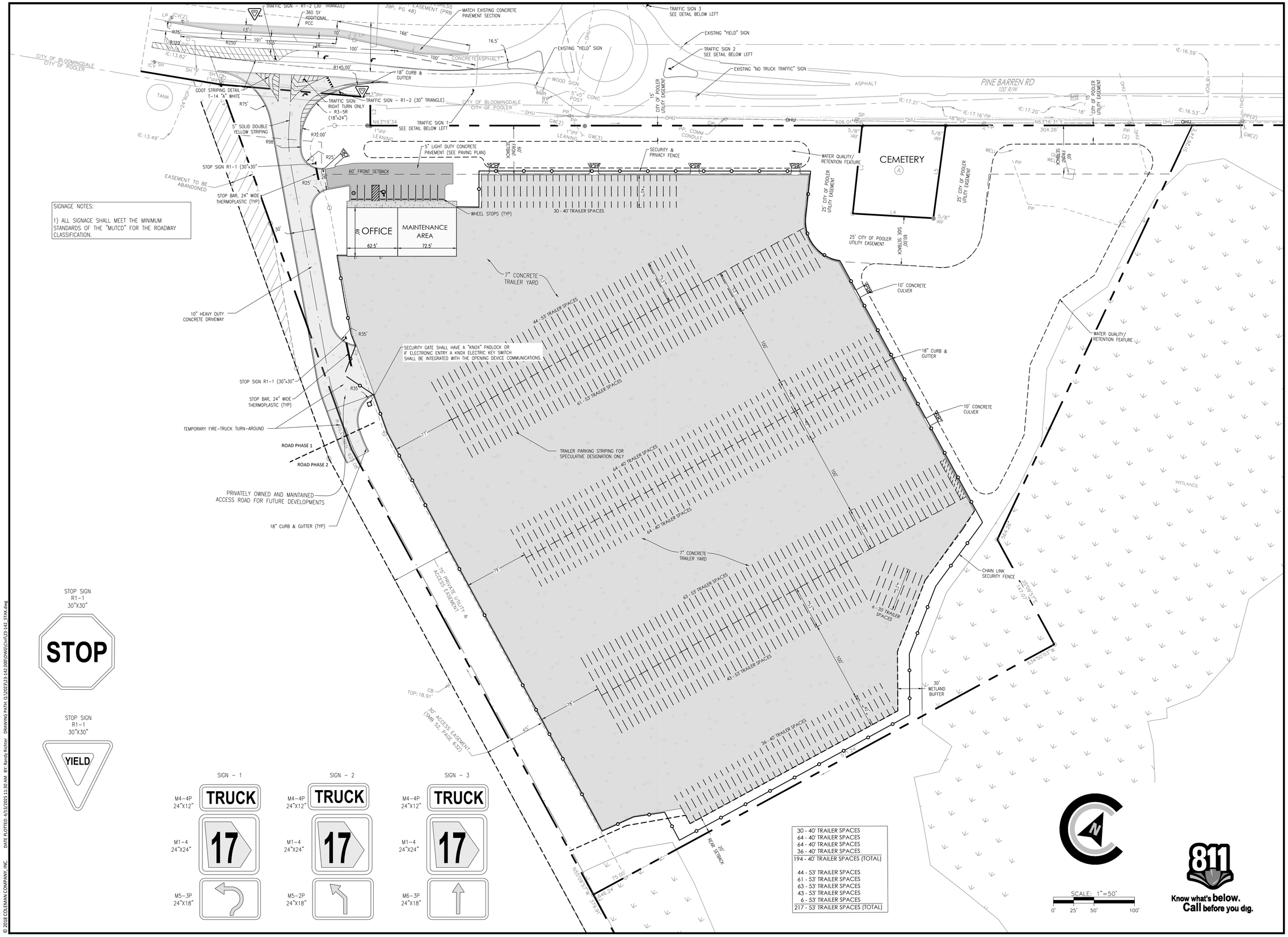
JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
CHECKED BY:	DLF
SCALE:	AS NOTED

DEMOLITION PLAN

SHEET:

C1.1

DATE PLOTTED: 4/13/2025 11:30 AM BY: Randy Richter DRAWING PATH: Q:\2023\23-142.000\DWG\Civil\23-142_STAX.dwg



STOP SIGN R1-1 30"X30"

STOP SIGN R1-1 30"X30"

30 - 40' TRAILER SPACES
64 - 40' TRAILER SPACES
64 - 40' TRAILER SPACES
36 - 40' TRAILER SPACES
194 - 40' TRAILER SPACES (TOTAL)
44 - 53' TRAILER SPACES
61 - 53' TRAILER SPACES
63 - 53' TRAILER SPACES
43 - 53' TRAILER SPACES
6 - 53' TRAILER SPACES
217 - 53' TRAILER SPACES (TOTAL)

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CIVIL CONSTRUCTION PLANS FOR

DST TRAILER YARD

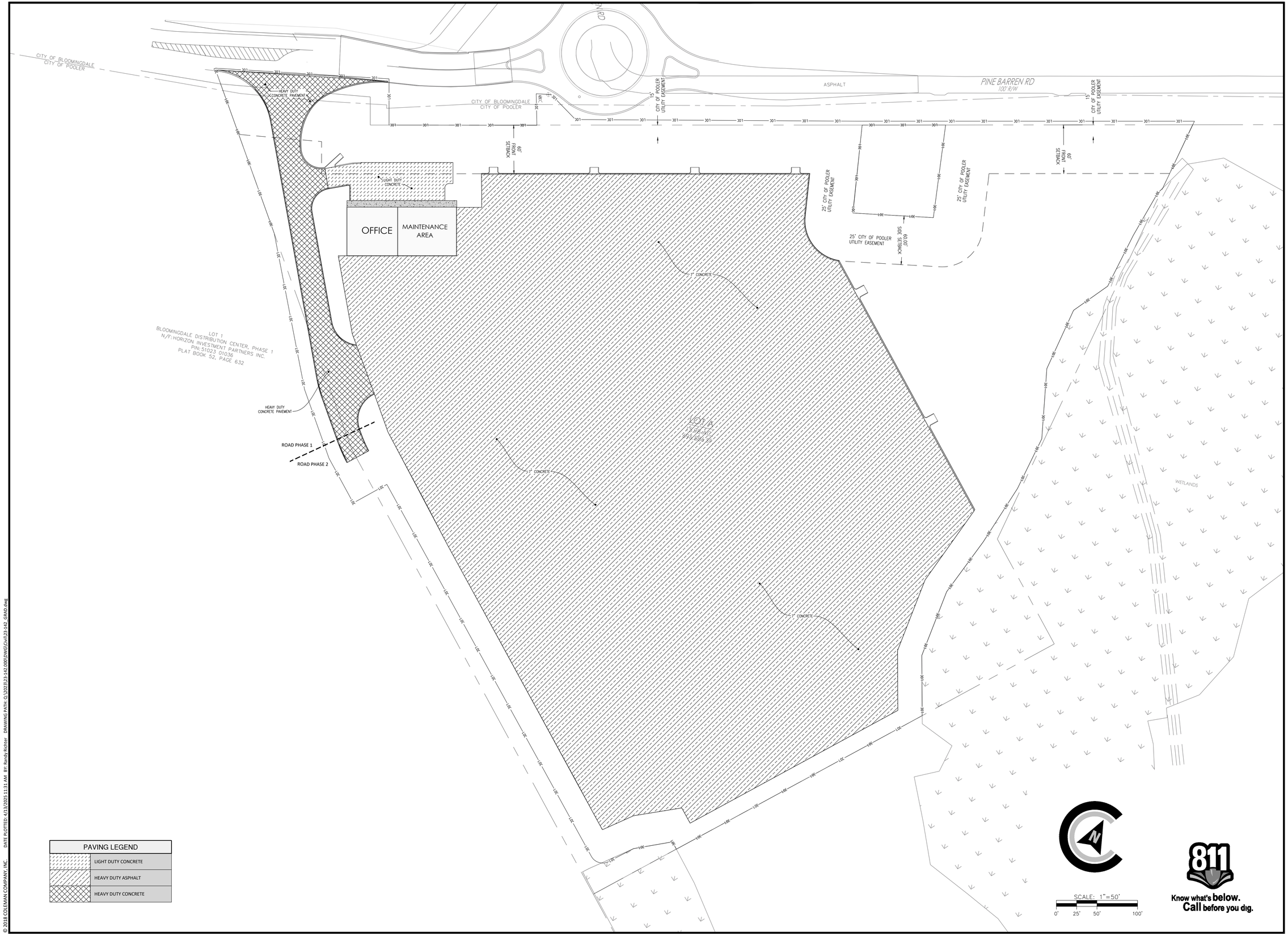
PHASE 1

LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
CHECKED BY:	DLF
SCALE:	AS NOTED

STAKING PLAN

SHEET:
C2.0



PAVING LEGEND
LIGHT DUTY CONCRETE
HEAVY DUTY ASPHALT
HEAVY DUTY CONCRETE

 DATE PLOTTED: 4/13/2025 11:31 AM BY: Randy Richter DRAWING PATH: Q:\2023\23-142.000\DWG\Civil\23-142_GRAD.dwg

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CIVIL CONSTRUCTION PLANS FOR

DST TRAILER YARD

PHASE 1

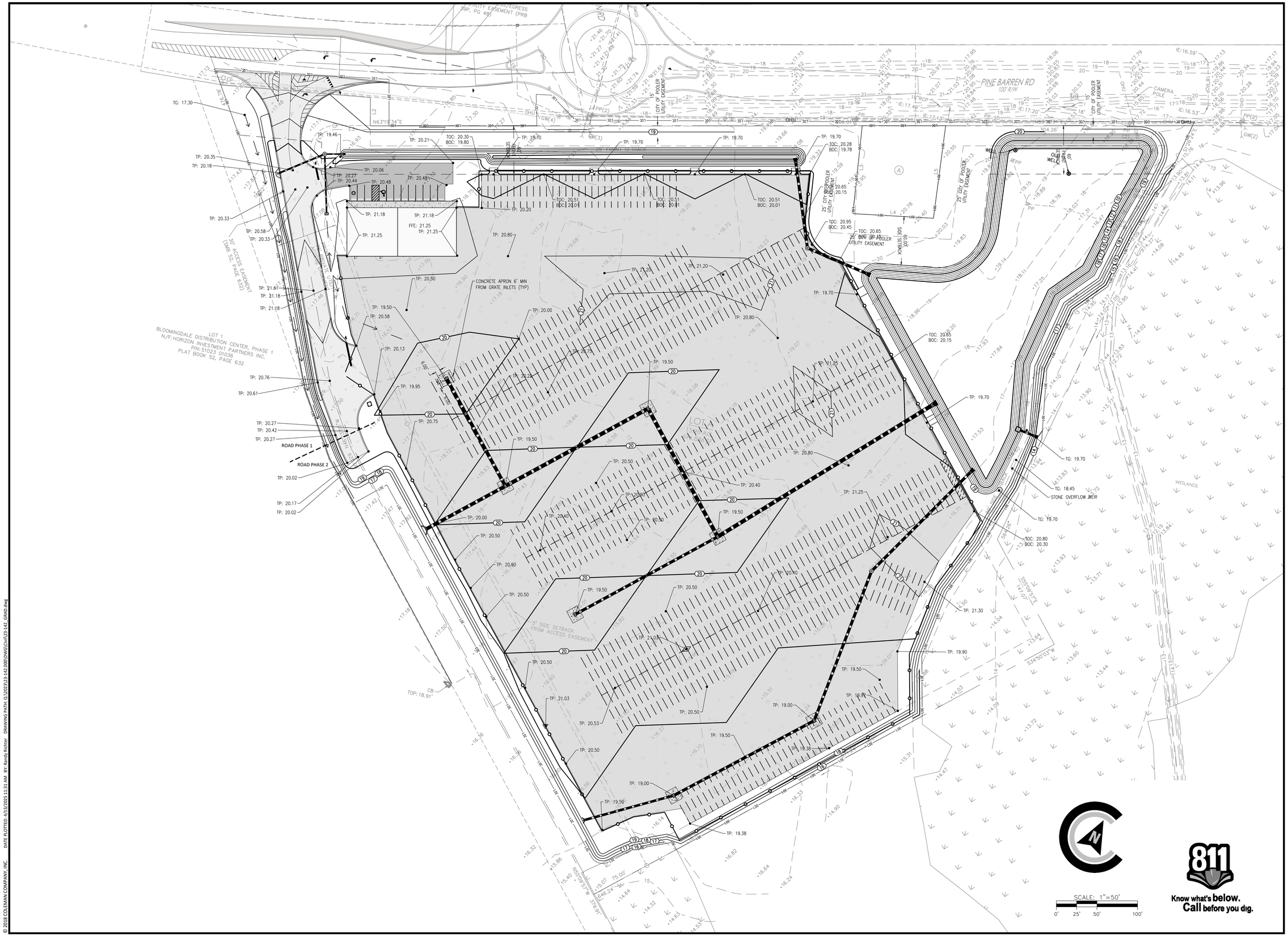
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
CHECKED BY:	DLF
SCALE:	AS NOTED

PAVING PLAN

SHEET:

C3.0



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GEORGIA REGISTERED PROFESSIONAL DOUGLAS L. FAIRCLOTH ENGINEER

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CIVIL CONSTRUCTION PLANS FOR

DST TRAILER YARD

PHASE 1

LOCATED IN POOLER, GEORGIA

PREPARED FOR DST DUVAL SEMI TRAILERS

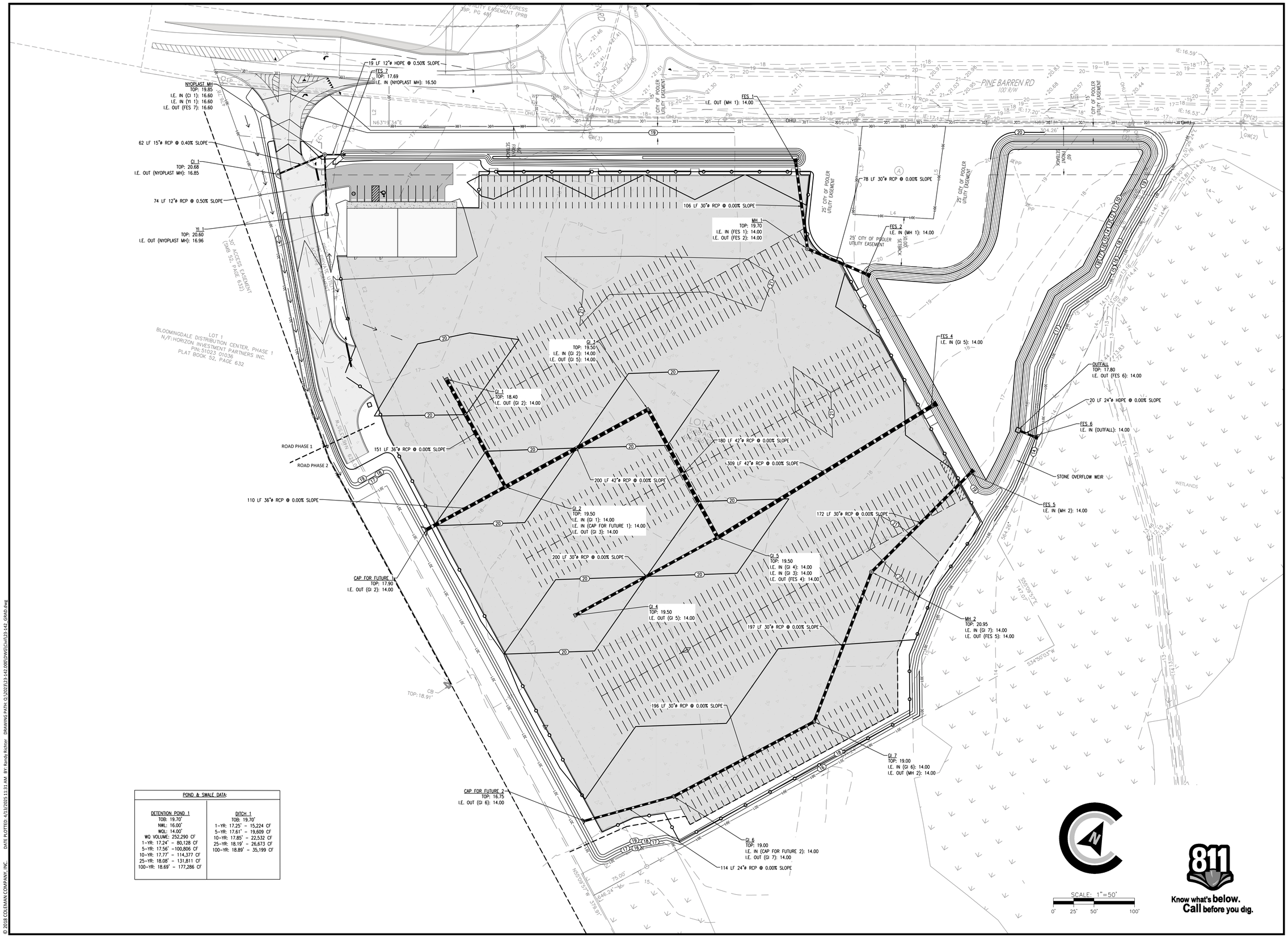
JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
CHECKED BY:	DLF
SCALE:	AS NOTED

GRADING PLAN

SHEET:

C4.0

811 Know what's below. Call before you dig.



POND & SWALE DATA:	
DETENTION POND 1	DITCH 1
TOB: 19.70'	TOB: 19.70'
NWL: 16.00'	1-YR: 17.25' – 15,224 CF
WQL: 14.00'	5-YR: 17.61' – 19,609 CF
WQ VOLUME: 252,290 CF	10-YR: 17.85' – 22,532 CF
1-YR: 17.24' – 80,128 CF	25-YR: 18.19' – 26,673 CF
5-YR: 17.56' – 100,806 CF	100-YR: 18.89' – 35,199 CF
10-YR: 17.77' – 114,377 CF	
25-YR: 18.08' – 131,811 CF	
100-YR: 18.69' – 177,286 CF	

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GEORGIA REGISTERED PROFESSIONAL 032672 ENGINEER DOUGLAS L. FAIRCLOTH

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CIVIL CONSTRUCTION PLANS FOR

DST TRAILER YARD

PHASE 1

LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
CHECKED BY:	DLF
SCALE:	AS NOTED

DRAINAGE PLAN

SHEET:
C5.0

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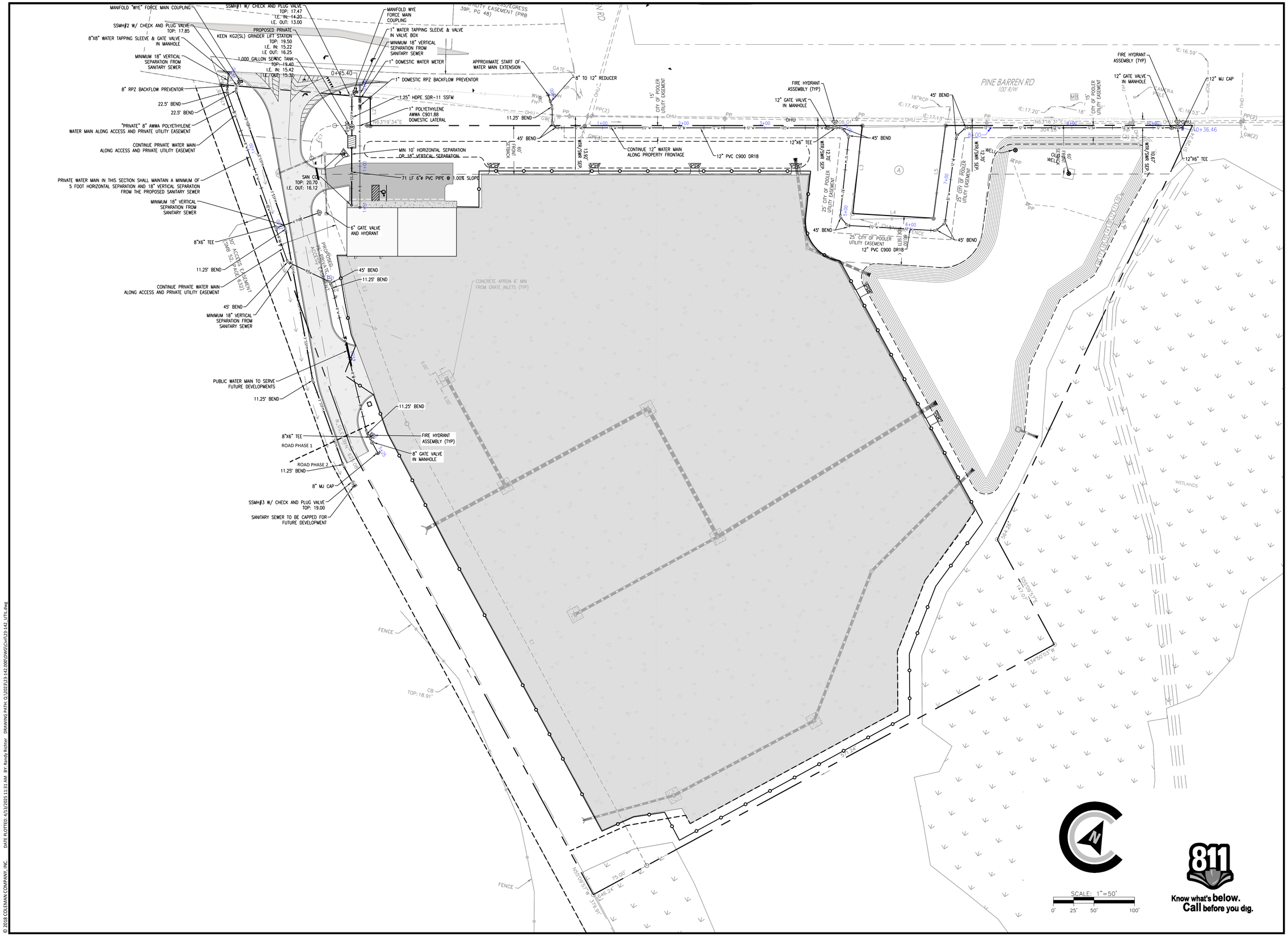

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GEORGIA REGISTERED PROFESSIONAL ENGINEER 034172 DOUGLAS L. FAIRCLOTH

REVISIONS:

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02.25.2025	PER CITY COMMENTS
04.11.2025	PER CITY & HGB COMMENTS

CIVIL CONSTRUCTION PLANS FOR

DST TRAILER YARD

PHASE 1

LOCATED IN POOLER, GEORGIA

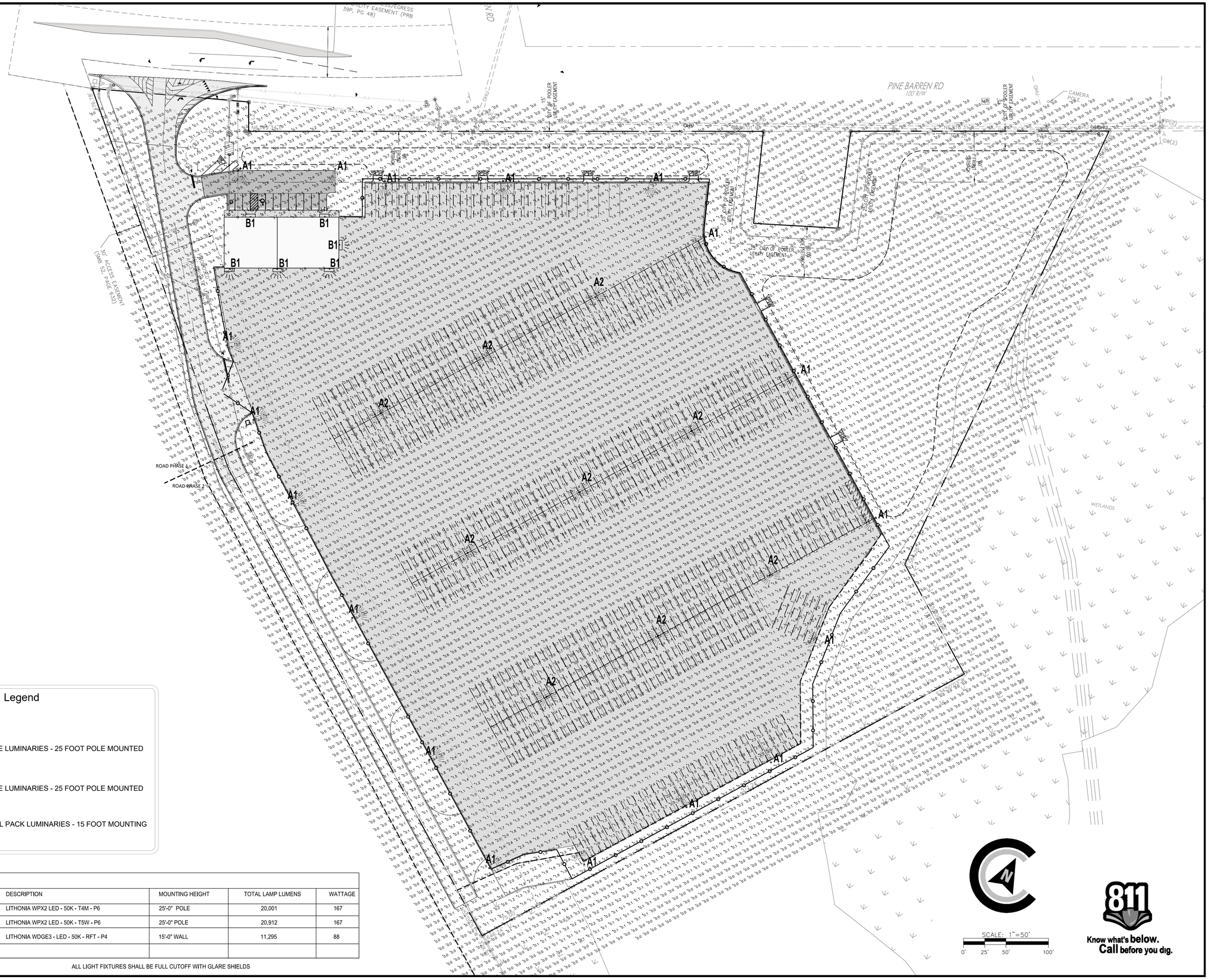
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
CHECKED BY:	DLF
SCALE:	AS NOTED

UTILITY PLAN

SHEET:

C6.0



Legend

A1	POLE LUMINARIES - 25 FOOT POLE MOUNTED
A2	POLE LUMINARIES - 25 FOOT POLE MOUNTED
B1	WALL PACK LUMINARIES - 15 FOOT MOUNTING

LUMINARE SCHEDULE

LIGHT	QUANTITY	DESCRIPTION	MOUNTING HEIGHT	TOTAL LAMP LUMENS	WATTAGE
A1	48	LITHONIA WPX2 LED - 50K - T4M - P6	25'-0" POLE	20,001	167
A2	15	LITHONIA WPX2 LED - 50K - T5W - P6	25'-0" POLE	20,912	167
B1	57	LITHONIA WDGE3 - LED - 50K - RFT - P4	15'-0" WALL	11,295	88

ALL LIGHT FIXTURES SHALL BE FULL CUTOFF WITH GLARE SHIELDS

SCALE: 1"=50'
0' 25' 50' 100'

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CIVIL CONSTRUCTION PLANS FOR
DST TRAILER YARD
PHASE 1
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
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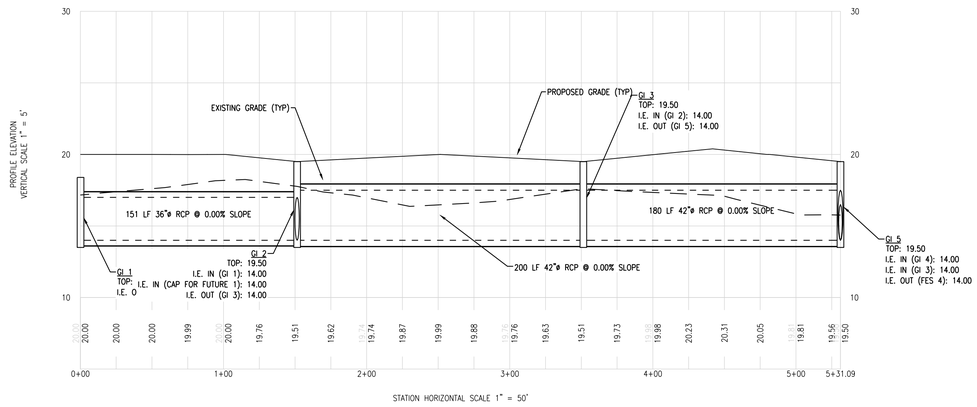
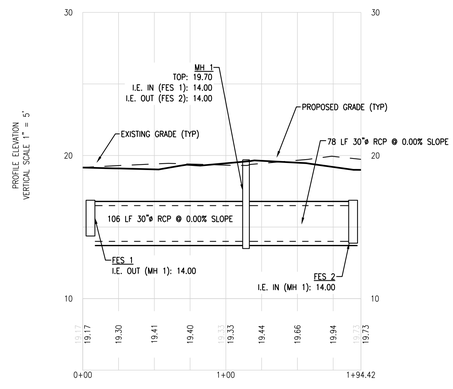
SCALE:	AS NOTED

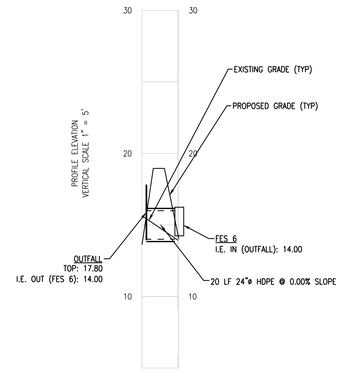
LIGHTING PLAN

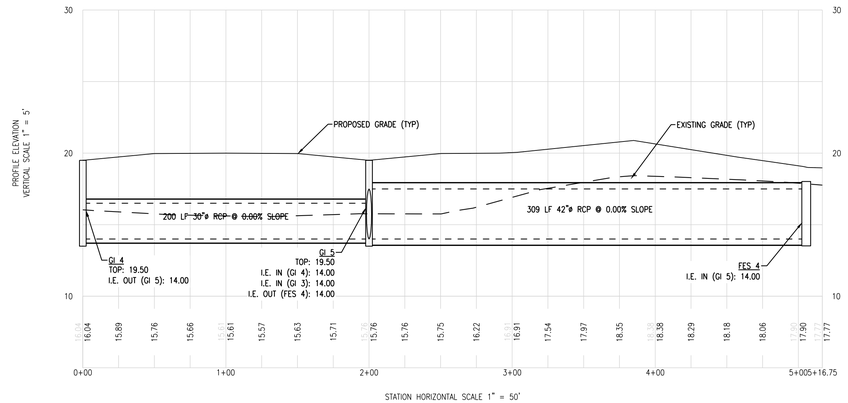
SHEET: C6.1

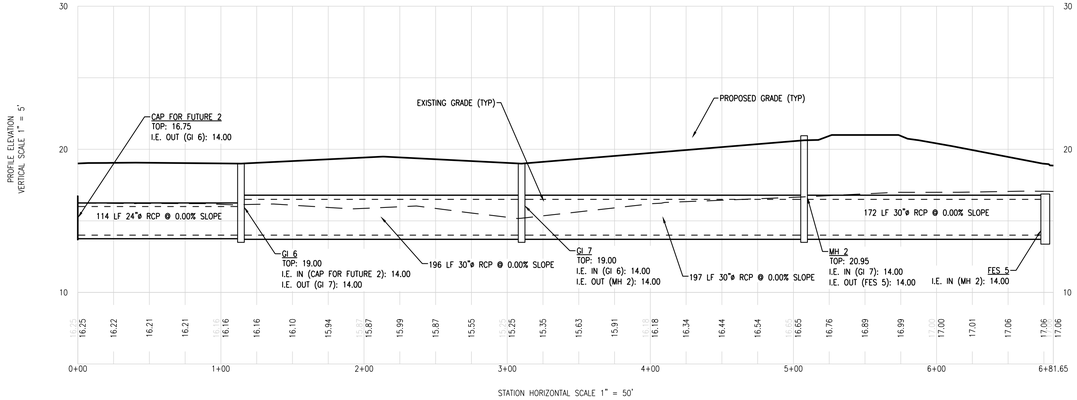
DATE PLOTTED: 4/13/2025 11:32 AM BY: Randy Richter DRAWING PATH: Q:\2023\23-142.000\DWG\Civil\23-142 UTIL.dwg

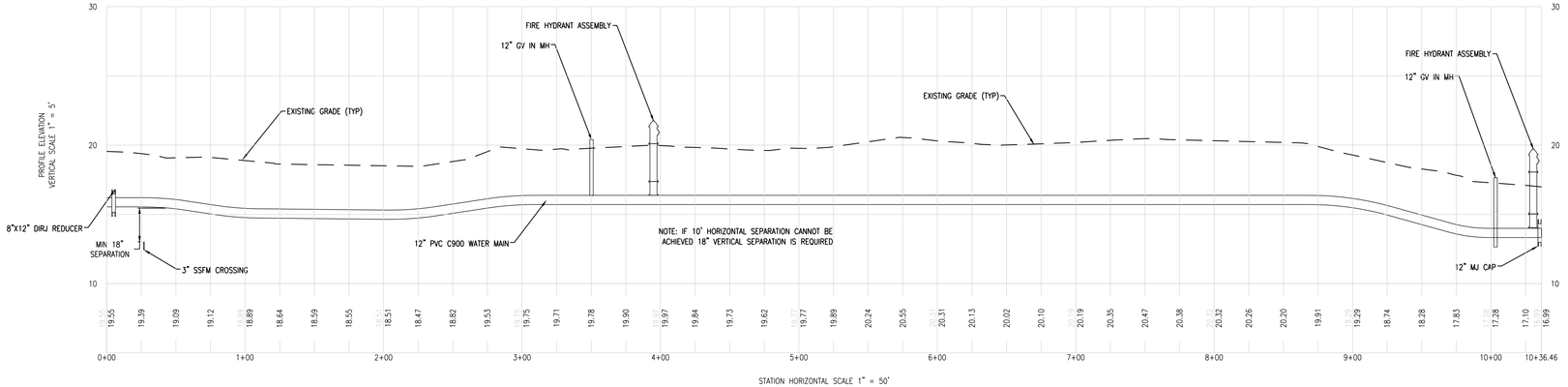


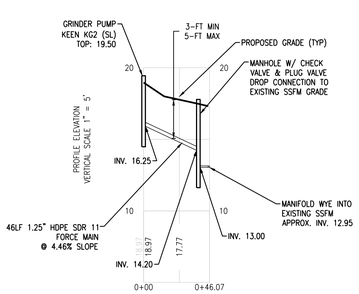












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GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE034672
DOUGLAS L. FAIRCLOTH

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CIVIL CONSTRUCTION PLANS FOR

DST TRAILER YARD

PHASE 1

LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	10/16/24
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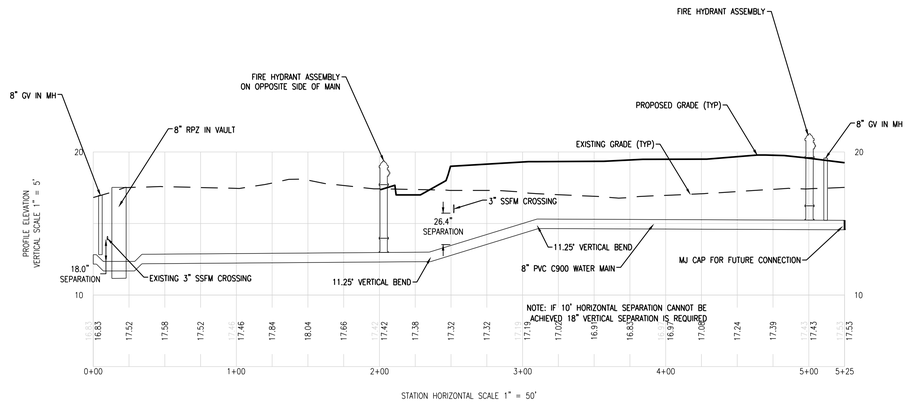
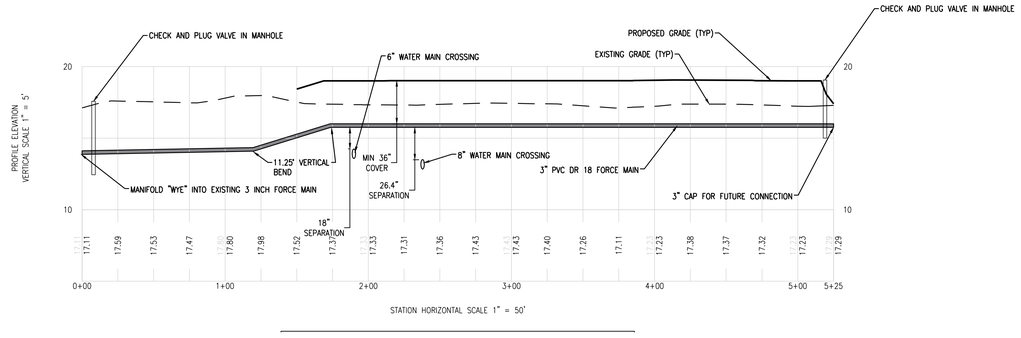
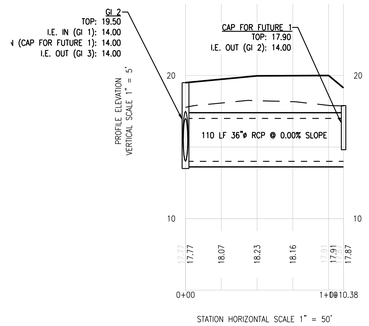
SCALE:	AS NOTED

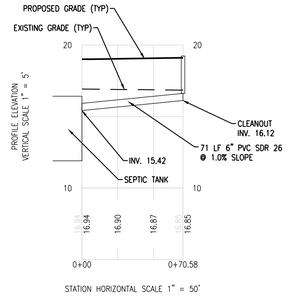
PROFILES

SHEET:
C7.0









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GEORGIA REGISTERED PROFESSIONAL ENGINEER DOUGLAS L. FAIRCLOTH 18824

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CIVIL CONSTRUCTION PLANS FOR

DST TRAILER YARD

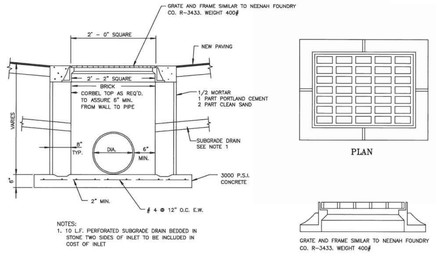
PHASE 1

LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER: 23-142
DATE: 10/16/24
DRAWN BY: CLM
CHECKED BY: DLF
SCALE: AS NOTED

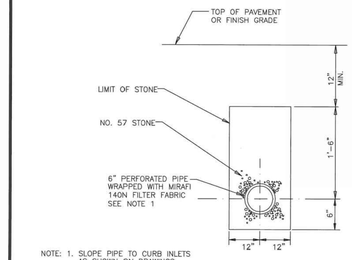
PROFILES

SHEET:
C7.1



GRATE INLET

CITY OF POOLER 2011 STANDARD DETAIL	GRATE INLET W/ FRAME	SCALE: N.T.S. DATE: August 2006	P-20

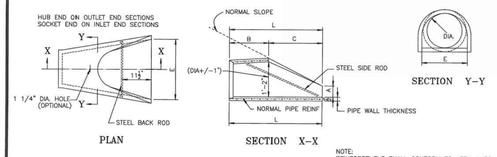


NOTE: 1. SLOPE PIPE TO CURB INLETS AS SHOWN ON DRAWINGS

CITY OF POOLER 2011 STANDARD DETAIL	SUBGRADE DRAIN	SCALE: N.T.S. DATE: August 2006	P-30

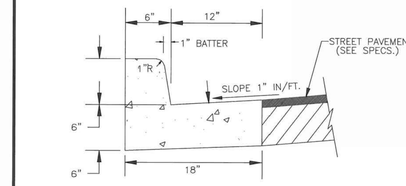
FLARE REINFORCEMENT & DIMENSIONS (+/-1" TOLERANCE)

PIPE DIA.	SIDE RODS	BACK RODS	FABRIC	SLOPE	A	B	C	L	E
12"	2-3X2'5"	NOT REQ'D	2"X8"8/9	2.2:1	4"	2'0"	4'1"	6'1"	2'0"
15"	2-3X2'11"	NOT REQ'D	2"X8"8/9	2.2:1	6"	2'3"	3'10"	6'1"	2'6"
18"	2-3X3'6"	NOT REQ'D	2"X8"8/9	2.2:1	9"	2'3"	3'10"	6'1"	3'0"
24"	2-3X5'0"	NOT REQ'D	2"X8"8/9	2.4:1	10"	3'8"	2'6"	6'2"	4'0"
30"	2-4X6'2"	NOT REQ'D	2"X8"8/9	2.4:1	12"	4'6"	1'8"	6'2"	5'0"
36"	2-4X7'5"	NOT REQ'D	2"X8"8/9	2.4:1	15"	5'3"	2'11"	8'2"	6'0"
42"	2-4X8'7"	NOT REQ'D	2"X8"8/9	2.4:1	21"	5'3"	2'11"	8'2"	6'6"



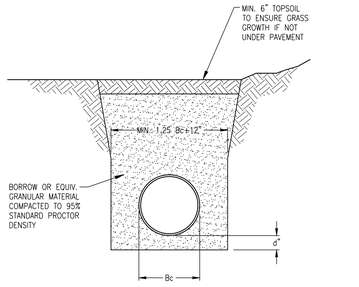
NOTE:
REINFORCEMENT SHALL CONFORM TO ASTM A-82 OR A-306 FOR CASE WIRE AND ATSM A-185 FOR WIRE FABRIC

CITY OF POOLER 2011 STANDARD DETAIL	FLARED END SECTION DETAIL	SCALE: N.T.S. DATE: August 2006	P-32



NORMAL GUTTER

CITY OF POOLER 2011 STANDARD DETAIL	18" CURB & GUTTER	SCALE: N.T.S. DATE: January 2004	P-03

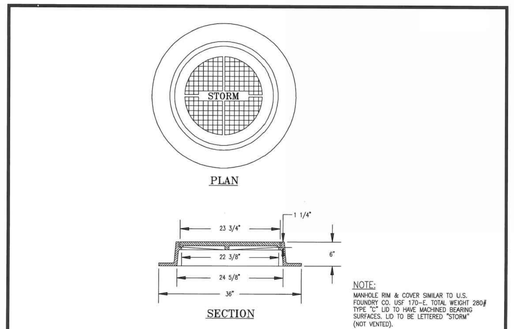


DEPTH OF BEDDING MATERIAL BELOW PIPE	
D	(d) MIN.
27" & SMALLER	3"
30" TO 60"	4"
66" & LARGER	6"

NOTE:
1. ALL BEDDING & INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS
2. MIN. 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE

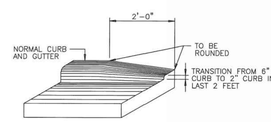
LEGEND:
Bc = OUTSIDE DIAMETER
D = INSIDE DIAMETER
d = DEPTH OF BEDDING MATERIAL BELOW PIPE

REINFORCED CONCRETE PIPE (RCP) TRENCH DETAIL



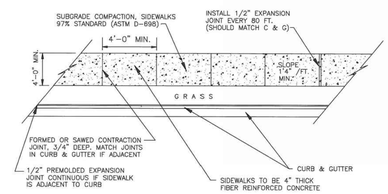
NOTE:
MANHOLE RIM & COVER SIMILAR TO U.S. FOUNDRY CO. USF 170-E, TOTAL WEIGHT 280# TYPE "C" LID TO HAVE MACHINED BEARING SURFACES. LID TO BE LETTERED "STORM" (NOT VENTED).

CITY OF POOLER 2011 STANDARD DETAIL	STORM MANHOLE RING & COVER	SCALE: N.T.S. DATE: August 2006	P-25



NOTE: THIS OCCURS AT END OF CURB AND GUTTER WHERE CALLED FOR ON PLANS

CITY OF POOLER 2011 STANDARD DETAIL	FEATHERING OF CONCRETE CURB & GUTTER	SCALE: N.T.S. DATE: October 2001	P-02

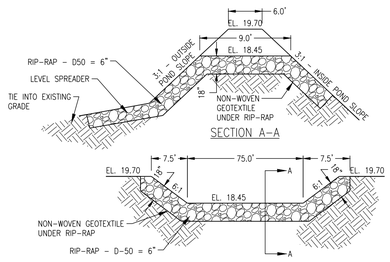


NOTE:
CONTRACTION JOINTS SPACING TO BE THE SAME AS WIDTH OF WALK.

CITY OF POOLER 2011 STANDARD DETAIL	SIDEWALK AND WALKWAY DETAILS	SCALE: N.T.S. DATE: January 2004	P-15

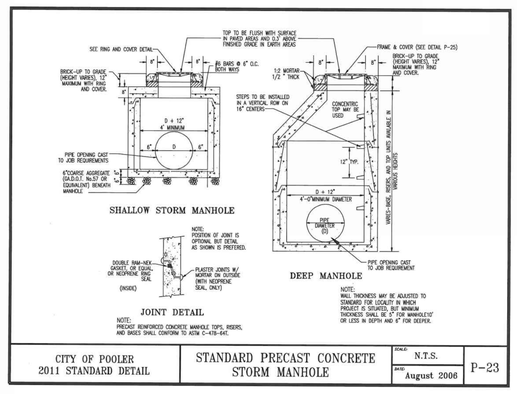
X-X PIPE BEDDING DETAIL

NOT TO SCALE

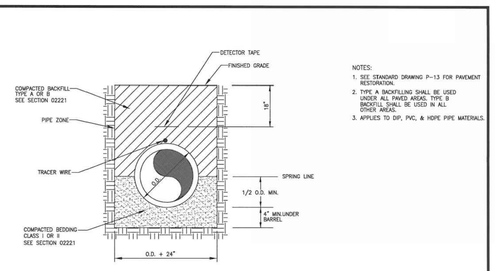


X-X EMERGENCY SPILLWAY DETAIL PROPOSED POND 4

NOT TO SCALE

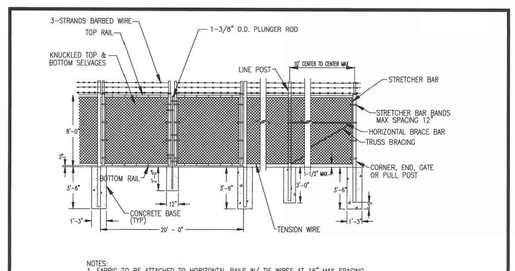


CITY OF POOLER 2011 STANDARD DETAIL	STANDARD PRECAST CONCRETE STORM MANHOLE	SCALE: N.T.S. DATE: August 2006	P-23



NOTES:
1. SEE STANDARD DRAWING P-13 FOR PAVEMENT RESTORATION.
2. TYPE A BACKFILLING SHALL BE USED UNDER ALL PAVED AREAS. TYPE B BACKFILL SHALL BE USED IN ALL OTHER AREAS.
3. APPLIES TO DIP, PVC, & HDPE PIPE MATERIALS.

CITY OF POOLER 2011 STANDARD DETAIL	PIPE BEDDING DETAIL	SCALE: N.T.S. DATE: June 2012	W-39



NOTES:
1. FABRIC TO BE ATTACHED TO HORIZONTAL RAILS W/ TIE WIRES AT 16" MAX SPACING MADE ON INSIDE OF FENCE AND NOT ACCESSABLE FROM OUTSIDE
2. FABRIC TO BE ATTACHED TO TENSION WIRES W/ HOG RINGS AT 24" MAX SPACING
3. FABRIC TO BE ATTACHED TO LINE POSTS W/ SELF-LOCKING BANDS AT 12" MAX SPACING
4. TOP RAIL TO TOP OF FABRIC SHALL BE 2" MAX
5. ALL MATERIALS SHALL BE AS SPECIFIED IN SECTION 02451

CITY OF POOLER 2011 STANDARD DETAIL	CHAIN LINK FENCE DETAIL	SCALE: N.T.S. DATE: August 2006	S-15

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GEORGIA REGISTERED PROFESSIONAL ENGINEER 027672 DOUGLAS L. FAIRCLOTH

REVISIONS:
12.04.2024 PER HGB COMMENTS
12.18.2024 PER CITY & HGB COMMENTS
01.14.2025 ACCESS ROAD REVISION
02.25.2025 PER CITY COMMENTS
04.11.2025 PER CITY & HGB COMMENTS

CIVIL CONSTRUCTION PLANS FOR

DST TRAILER YARD

PHASE 1

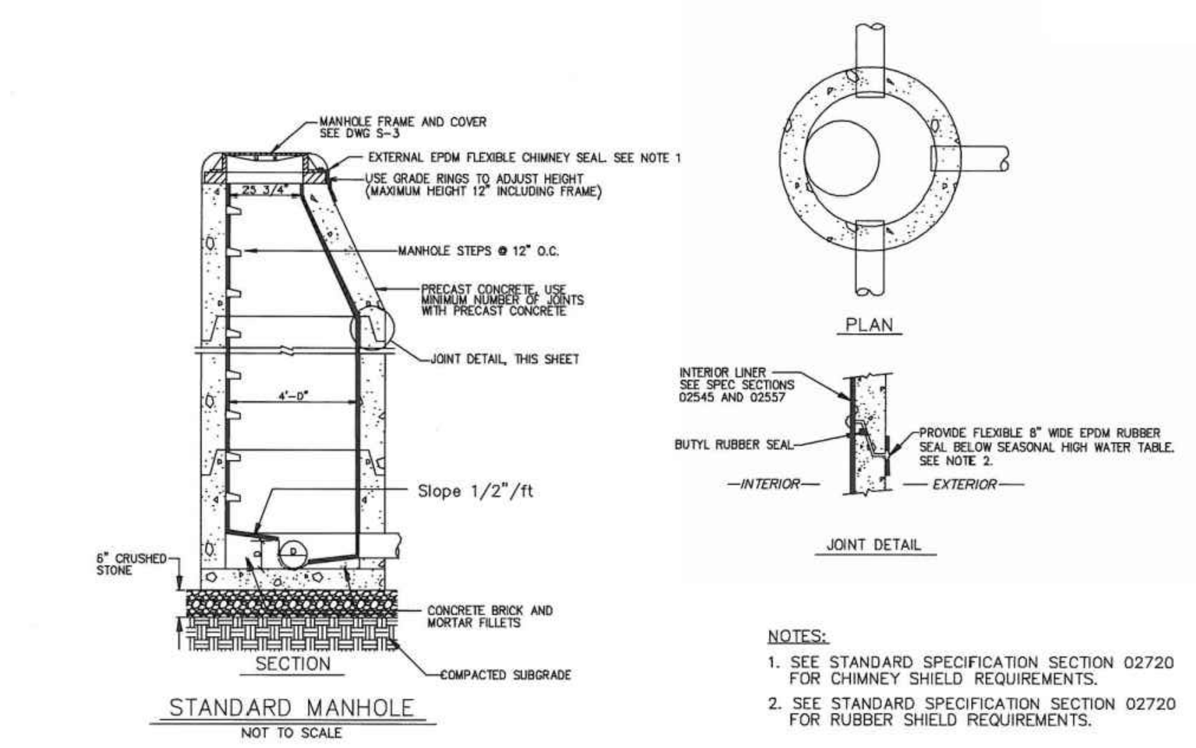
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
CHECKED BY:	DLF
SCALE:	AS NOTED

CONSTRUCTION DETAILS

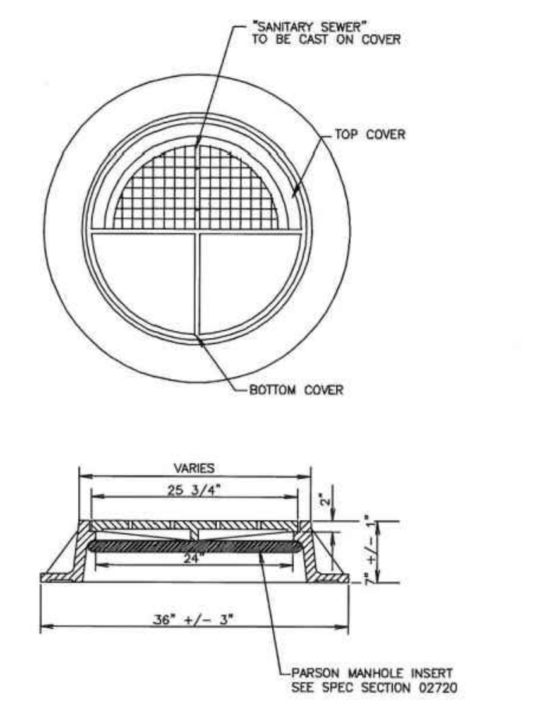
SHEET: C8.0

811 Know what's below. Call before you dig.



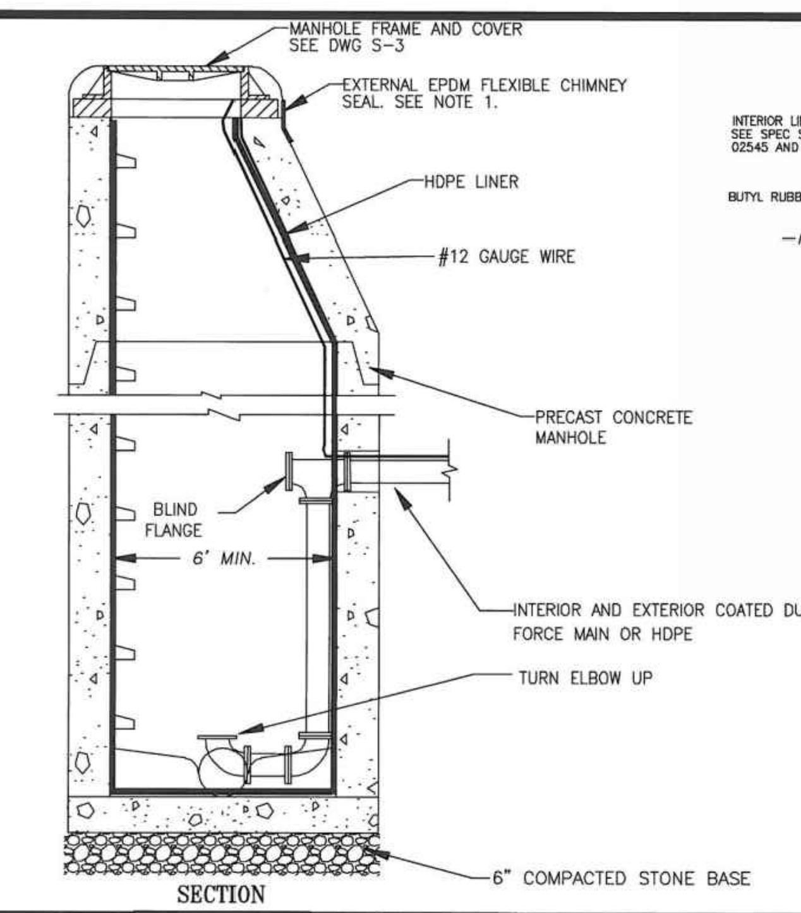
NOTES:
1. SEE STANDARD SPECIFICATION SECTION 02720 FOR CHIMNEY SHIELD REQUIREMENTS.
2. SEE STANDARD SPECIFICATION SECTION 02720 FOR RUBBER SHIELD REQUIREMENTS.

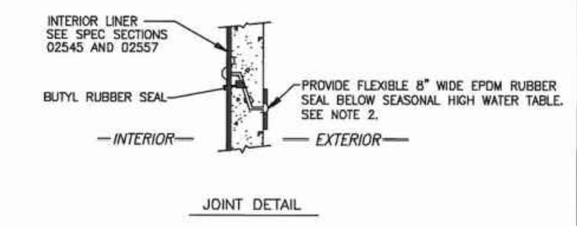
CITY OF POOLER 2011 STANDARD DETAIL	STANDARD MANHOLE	SCALE: N.T.S. DATE: August 2006	S-01



NOTES:
1: CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE, DISTORTION OR OTHER DEFECTS THEY SHALL BE SMOOTH AND WELL CLEANED BY SHOTBLASTING OR BY SOME OTHER APPROVED METHOD. CASTING SHALL NOT BE PAINTED.
2: MATERIALS USED IN THE MANUFACTURE OF CASTINGS SHOULD CONFORM TO AASHO M105/ASTM A48, CLASS 35B OF ASTM A48, CLASS 30, FOR GRAY IRON.
3: ALL CASTINGS SHALL BE MANUFACTURED TRUE TO PATTERN: COMPONENT PARTS SHALL FIT TOGETHER IN A SATISFACTORY MANNER, ROUND FRAMES AND COVERS SHALL BE OF NON-ROCKING DESIGN, OR SHALL HAVE MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING UNDER TRAFFIC. FRAME SHALL BE SUITABLE FOR CAST IRON OR STEEL RISER RING FOR UPWARD ADJUSTMENT OF COVER. CLEAR OPENING SHALL BE 24".
4: MANHOLE COVER SHALL BE 25-3/4" IN DIAMETER AND SHALL BE 2-INCHES THICK AT THE BEARING SURFACE.
5. CASTINGS SHALL BE PROVIDED WITH THE INSCRIPTION "SANITARY SEWER" CAST INTO THE COVER IN LETTERING AT LEAST 2-INCHES HIGH. MANUFACTURER'S NAME , IF IT APPEARS ON THE COVER, SHALL BE CONFINED TO THE PERIPHERY.
6. MANHOLE COVERS AND FRAMES SHALL BE USF 227, TYPE "AS" OR EQUAL.

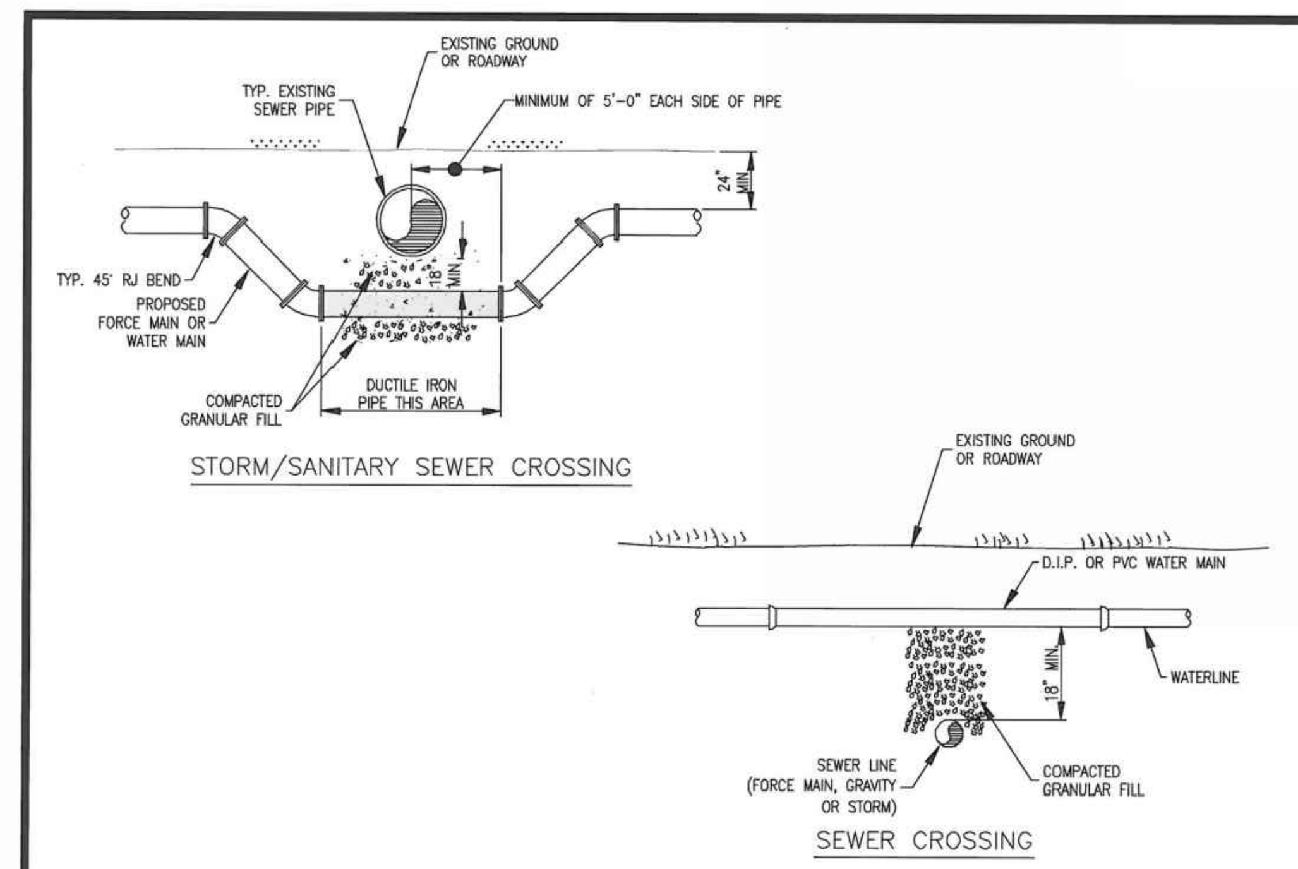
CITY OF POOLER 2011 STANDARD DETAIL	MANHOLE COVER & FRAME DETAIL	SCALE: N.T.S. DATE: August 2006	S-03



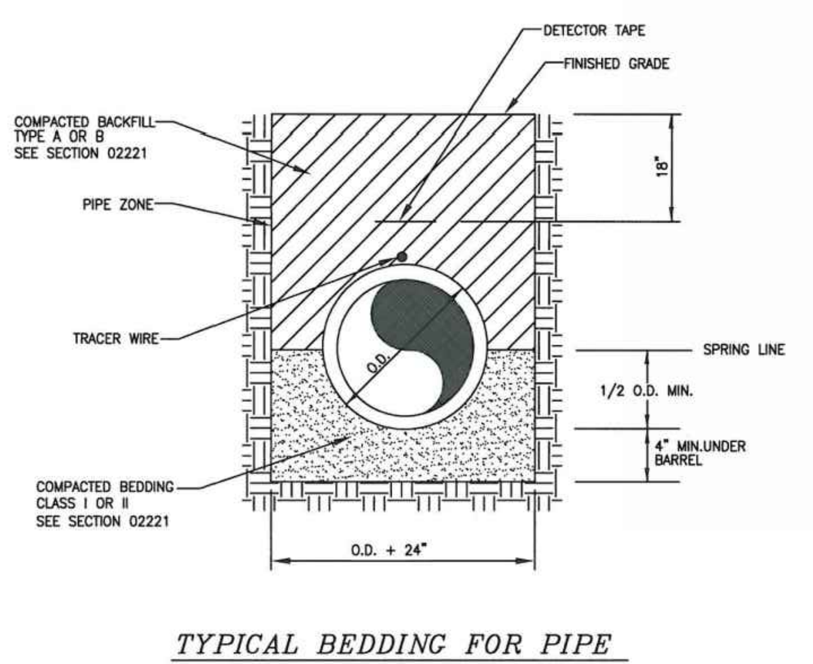


NOTES:
1. SEE STANDARD SPECIFICATION SECTION 02720 FOR CHIMNEY SHIELD REQUIREMENTS.
2. SEE STANDARD SPECIFICATION SECTION 02720 FOR RUBBER SHIELD REQUIREMENTS.

CITY OF POOLER 2011 STANDARD DETAIL	FORCEMAIN DROP INTO MANHOLE	SCALE: N.T.S. DATE: August 2006	S-04

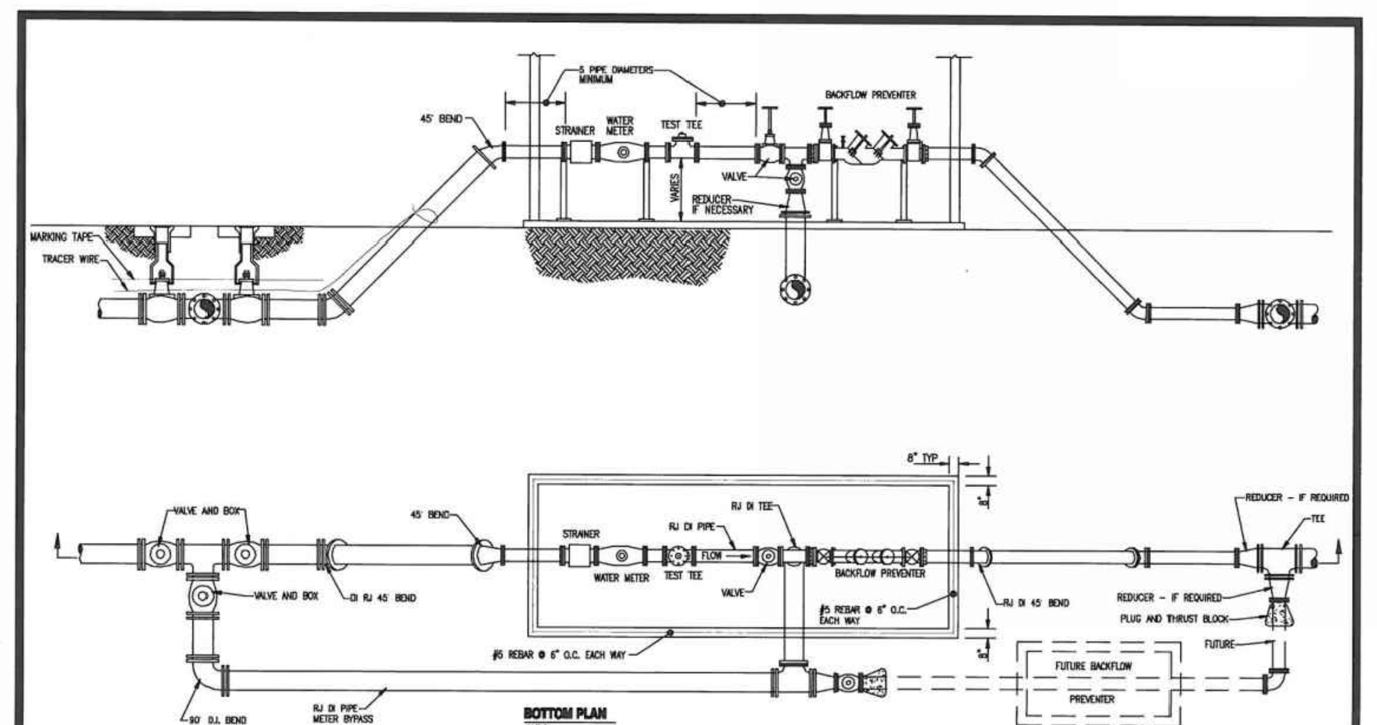


CITY OF POOLER 2011 STANDARD DETAIL	PIPELINE CROSSING DETAIL	SCALE: N.T.S. DATE: August 2006	W-16



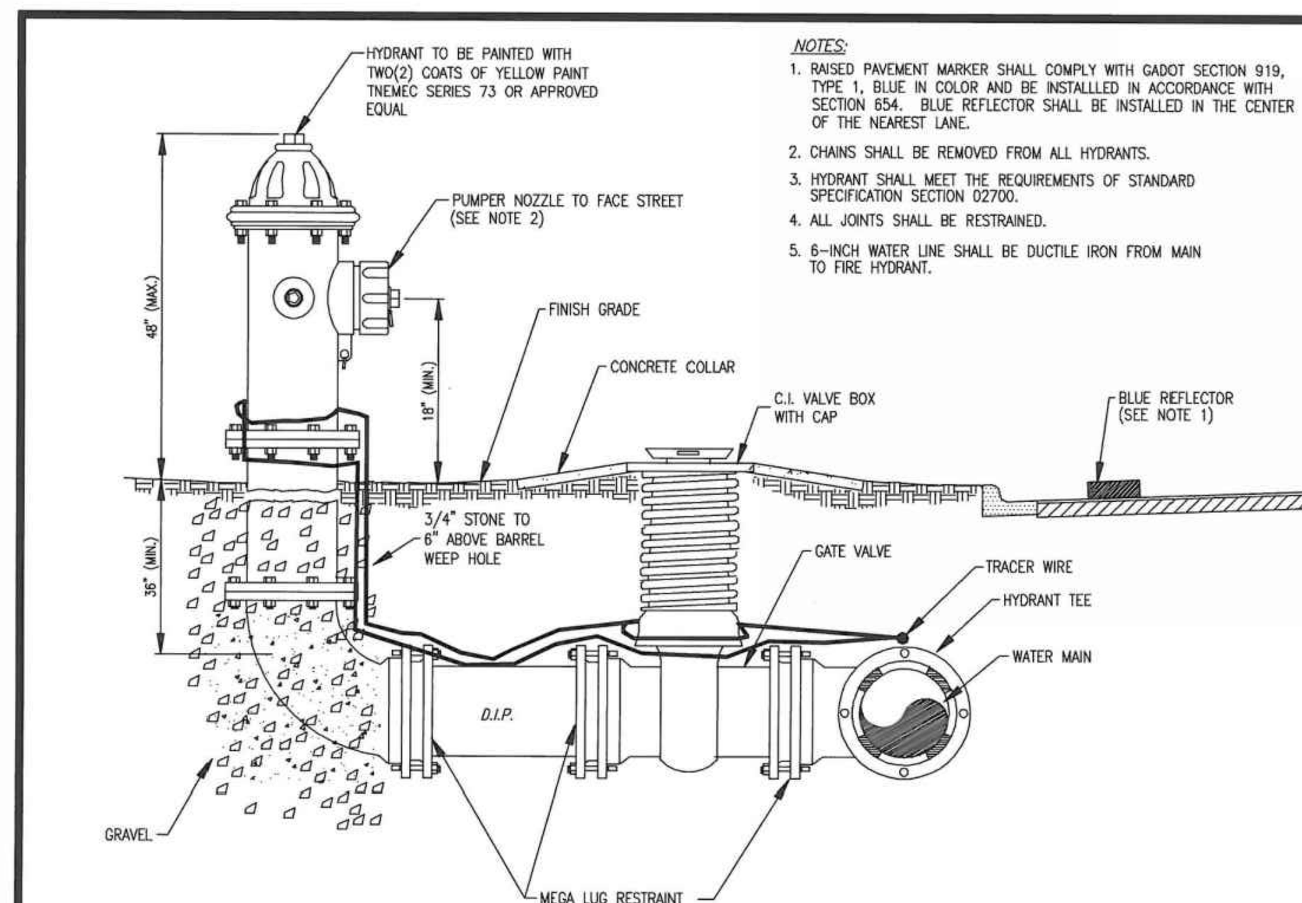
NOTES:
1. SEE STANDARD DRAWING P-13 FOR PAVEMENT RESTORATION.
2. TYPE A BACKFILLING SHALL BE USED UNDER ALL PAVED AREAS. TYPE B BACKFILL SHALL BE USED IN ALL OTHER AREAS.
3. APPLIES TO ALL GRAVITY, FORCEMAIN, AND RECLAIMED WATER MAINS.
4. APPLIES TO DIP, PVC, & HDPE PIPE MATERIALS.

CITY OF POOLER 2011 STANDARD DETAIL	PIPE BEDDING DETAIL	SCALE: N.T.S. DATE: June 2012	S-12



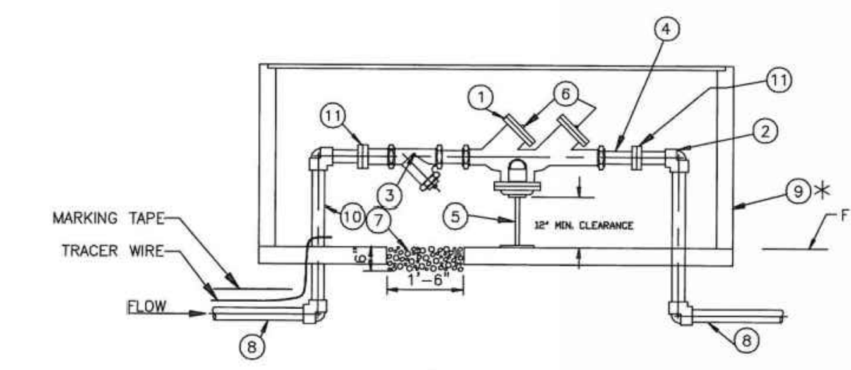
NOTES:
1. CITY MUST APPROVE THE ENCLOSURE AND HATCH COVERS.
2. METER SHALL BE PROVIDED WITH "TOUCHREAD" DEVICE
3. ALL PIPING SHALL BE M.J. DUCTILE IRON, EXCEPT FLANGES FOR STRAINERS, METERS & BFP.

CITY OF POOLER 2011 STANDARD DETAIL	MASTER METER WITH BACK FLOW PREVENTER INSTALLATION DETAIL	SCALE: N.T.S. DATE: August 2006	W-27



NOTES:
1. RAISED PAVEMENT MARKER SHALL COMPLY WITH GADOT SECTION 919, TYPE 1, BLUE IN COLOR AND BE INSTALLLED IN ACCORDANCE WITH SECTION 654. BLUE REFLECTOR SHALL BE INSTALLED IN THE CENTER OF THE NEAREST LANE.
2. CHAINS SHALL BE REMOVED FROM ALL HYDRANTS.
3. HYDRANT SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 02700.
4. ALL JOINTS SHALL BE RESTRAINED.
5. 6-INCH WATER LINE SHALL BE DUCTILE IRON FROM MAIN TO FIRE HYDRANT.

CITY OF POOLER 2011 STANDARD DETAIL	FIRE HYDRANT DETAIL	SCALE: N.T.S. DATE: August 2006	W-04

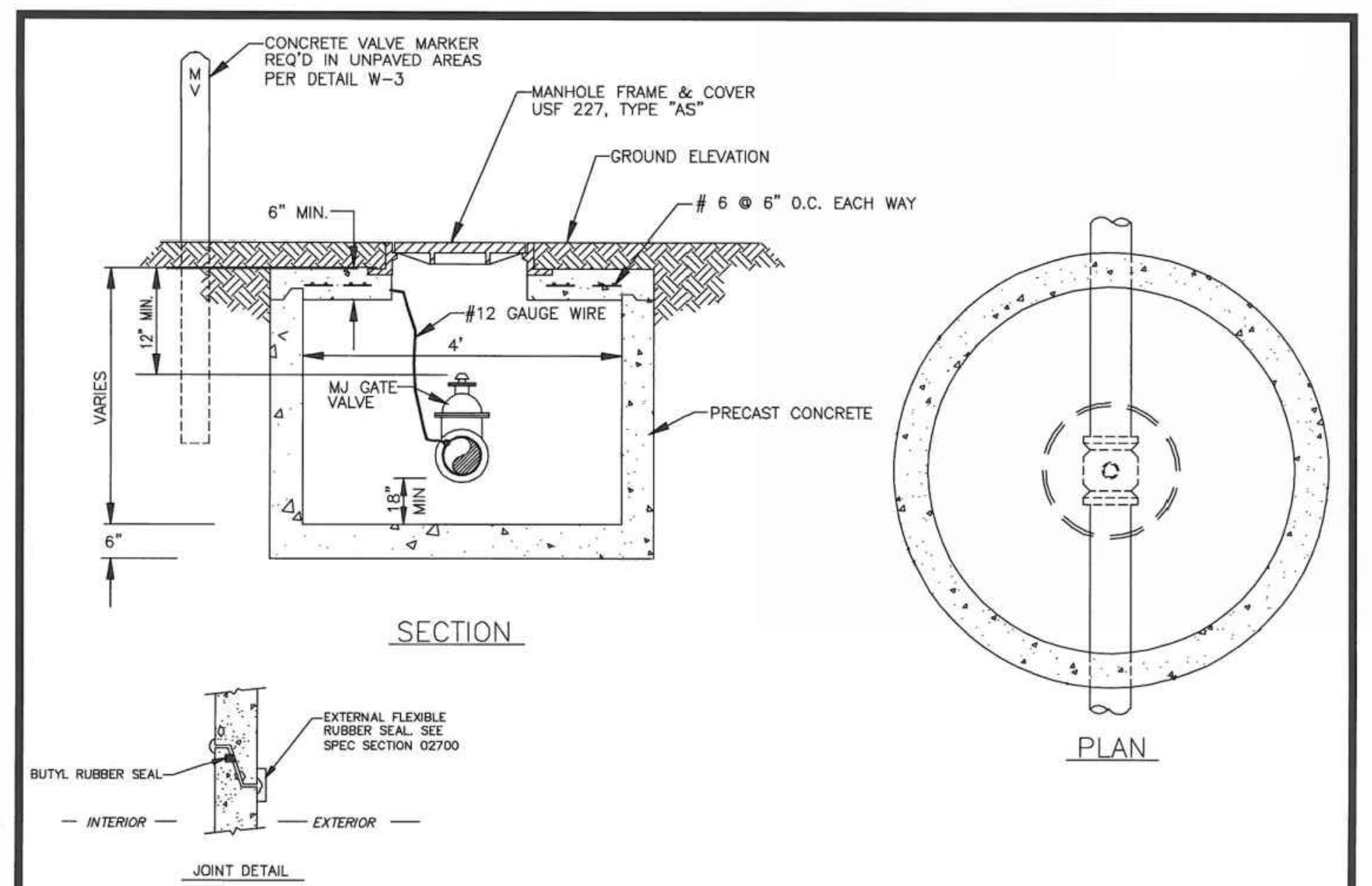


MATERIALS

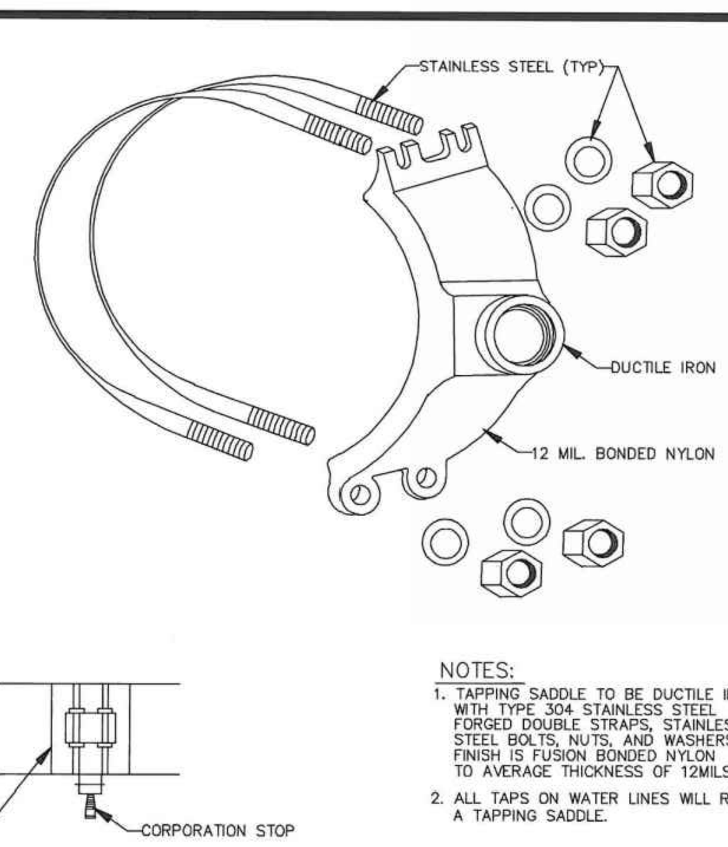
ITEM	QUAN.	DESCRIPTION
1	1	REDUCED PRESSURE ZONE DEVICE/DOUBLE CHECK VALVE
2	4	BRASS 90' (DOMESTIC MADE)
3	1	STRAINER W/ RPZ DEVICE/DOUBLE CHECK VALVE
4	4	BRASS NIPPLE (DOMESTIC MADE)
5	1	PIPE SUPPORT
6	2	BRASS PLUGS INSERTED IN TEST COCKS
7		6" GRAVEL & DRAIN
8		POLYTHYLENE PIPE WITH COMPRESSION FITTINGS
9	*	CITY APPROVED ENCLOSURE WITH HATCH COVER FOR BFP
10	2	CUT BRASS (DOMESTIC MADE)
11	2	UNION

* REQUIRED BY THE CITY FOR FREEZE PROTECTION

CITY OF POOLER 2011 STANDARD DETAIL	BACKFLOW PREVENTER DETAIL 3/4", 1", 1-1/2", 2"	SCALE: N.T.S. DATE: January 2011	W-28

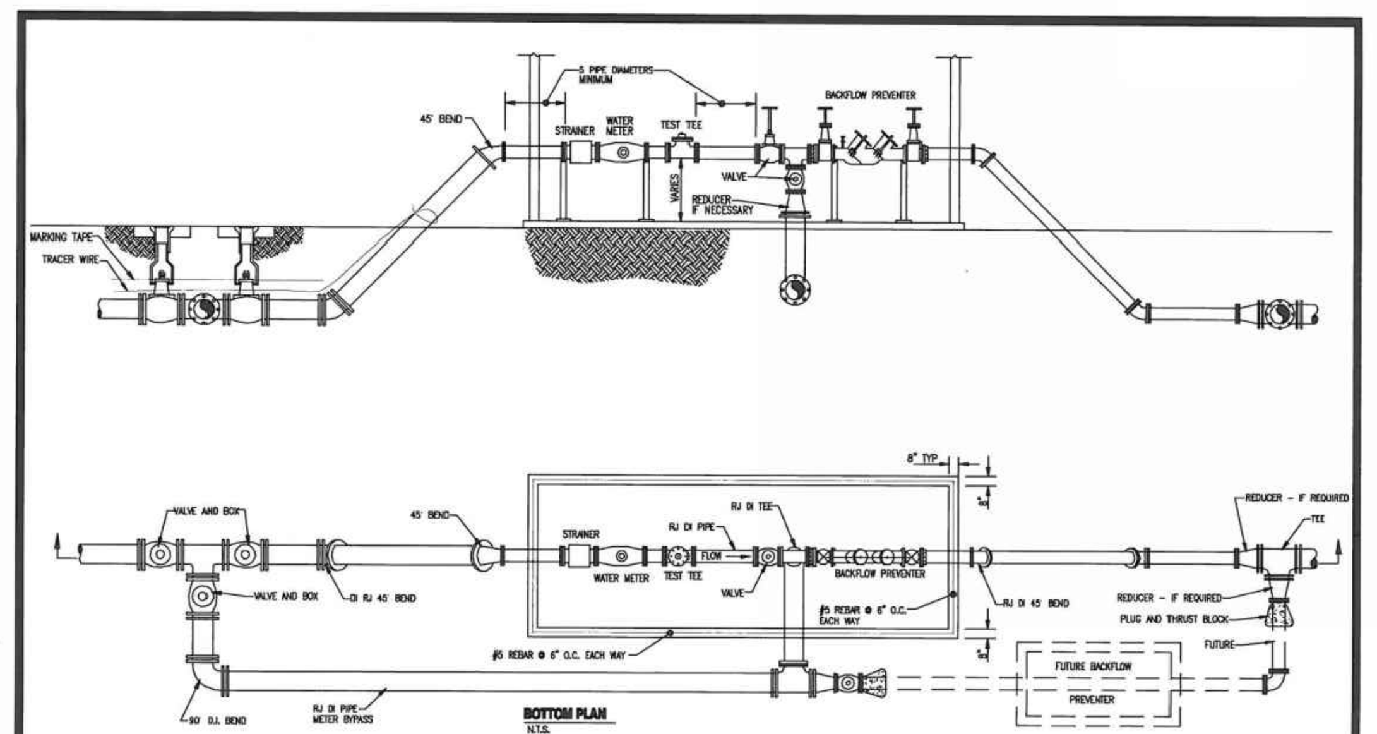


CITY OF POOLER 2011 STANDARD DETAIL	VALVE MANHOLE FOR 4" TO 8" GATE VALVES	SCALE: N.T.S. DATE: August 2006	W-13



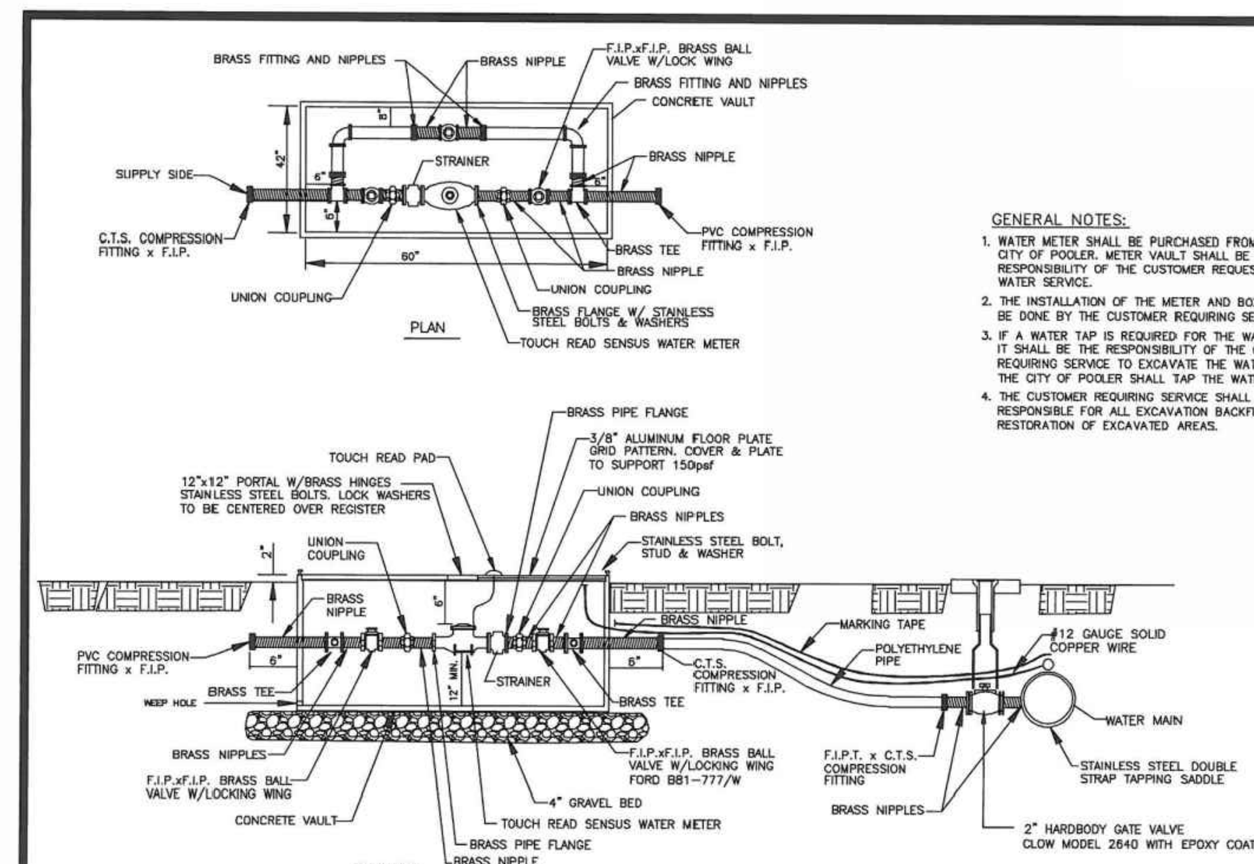
NOTES:
1. TAPPING SADDLE TO BE DUCTILE IRON WITH TYPE 304 STAINLESS STEEL FORGED DOUBLE STRAPS, STAINLESS STEEL BOLTS, NUTS, AND WASHERS. FINISH IS FUSION BONDED NYLON TO AVERAGE THICKNESS OF 12MILS.
2. ALL TAPS ON WATER LINES WILL REQUIRE A TAPPING SADDLE.

CITY OF POOLER 2011 STANDARD DETAIL	1" & 2" TAPPING SADDLE	SCALE: N.T.S. DATE: August 2006	W-11



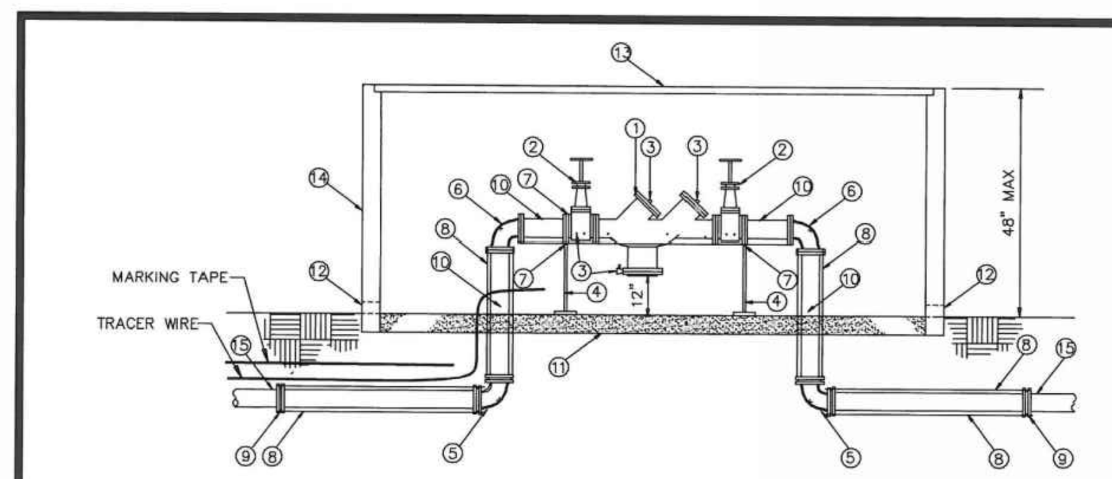
NOTES:
1. CITY MUST APPROVE THE ENCLOSURE AND HATCH COVERS.
2. METER SHALL BE PROVIDED WITH "TOUCHREAD" DEVICE
3. ALL PIPING SHALL BE M.J. DUCTILE IRON, EXCEPT FLANGES FOR STRAINERS, METERS & BFP.

CITY OF POOLER 2011 STANDARD DETAIL	MASTER METER WITH BACK FLOW PREVENTER INSTALLATION DETAIL	SCALE: N.T.S. DATE: August 2006	W-27



GENERAL NOTES:
1. WATER METER SHALL BE PURCHASED FROM THE CITY OF POOLER. METER VAULT SHALL BE THE RESPONSIBILITY OF THE CUSTOMER REQUESTING WATER SERVICE.
2. THE INSTALLATION OF THE METER AND BOX SHALL BE DONE BY THE CUSTOMER REQUIRING SERVICE.
3. IF A WATER TAP IS REQUIRED FOR THE WATER SERVICE IT SHALL BE THE RESPONSIBILITY OF THE CUSTOMER REQUIRING SERVICE TO EXCAVATE THE WATER MAIN. THE CITY OF POOLER SHALL TAP THE WATER MAIN ONLY.
4. THE CUSTOMER REQUIRING SERVICE SHALL BE RESPONSIBLE FOR ALL EXCAVATION BACKFILLING AND RESTORATION OF EXCAVATED AREAS.

CITY OF POOLER 2011 STANDARD DETAIL	WATER METER INSTALLATION 2" SERVICE PIPE & 1-1/2" & 2" WATER METERS DOMESTIC	SCALE: N.T.S. DATE: August 2006	W-23

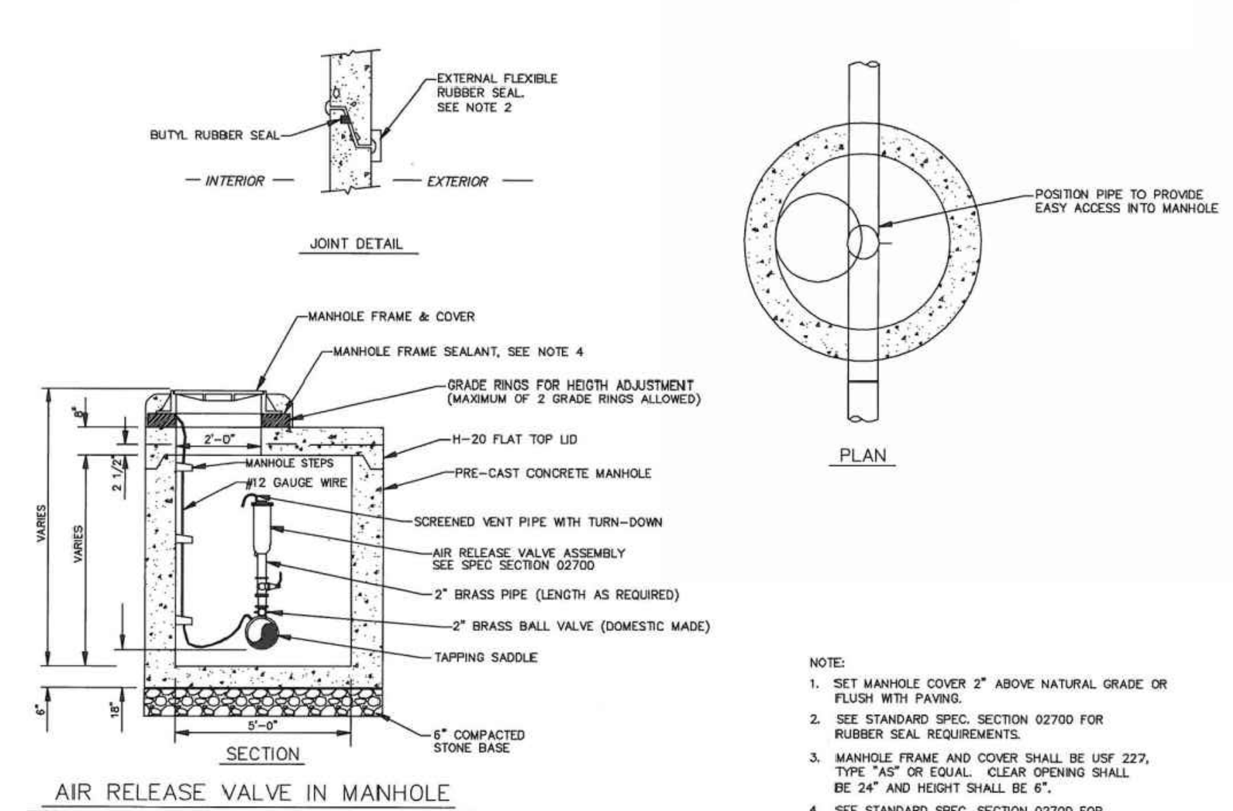


MATERIALS

ITEM	QUAN.	DESCRIPTION
1	1	REDUCED PRESSURE ZONE DEVICE/DDCV, DCV
2	2	O.S & Y RESILIENT GATE VALVES
3	4	TEST COCKS
4	2	2" GALV. PIPE STAND & BASE BOLTED TO FLANGE
5	2	MJ 90' BENDS
6	4	FLANGED 90' BENDS
7	2	COMPANION FLANGES
8	8	3/4" DIA. GALV. OR CADMIUM ALL THREAD ROD
9	16	CARBON STEEL EYE BOLTS
10		DUCTILE IRON PIPE, CUT TO FIT
11		4" PEA GRAVEL IN BOTTOM OF PIT OR CONCRETE SLAB WITH DRAIN SUMP
12	2	DRAIN PORTS
13		3/8 ALUMINUM FLOOR PLATE
14		BOX-MASONRY BLOCK, POURED CONCRETE OR PREFABRICATED BOX APPROVED BY CITY
15		DUCTILE IRON PIPE

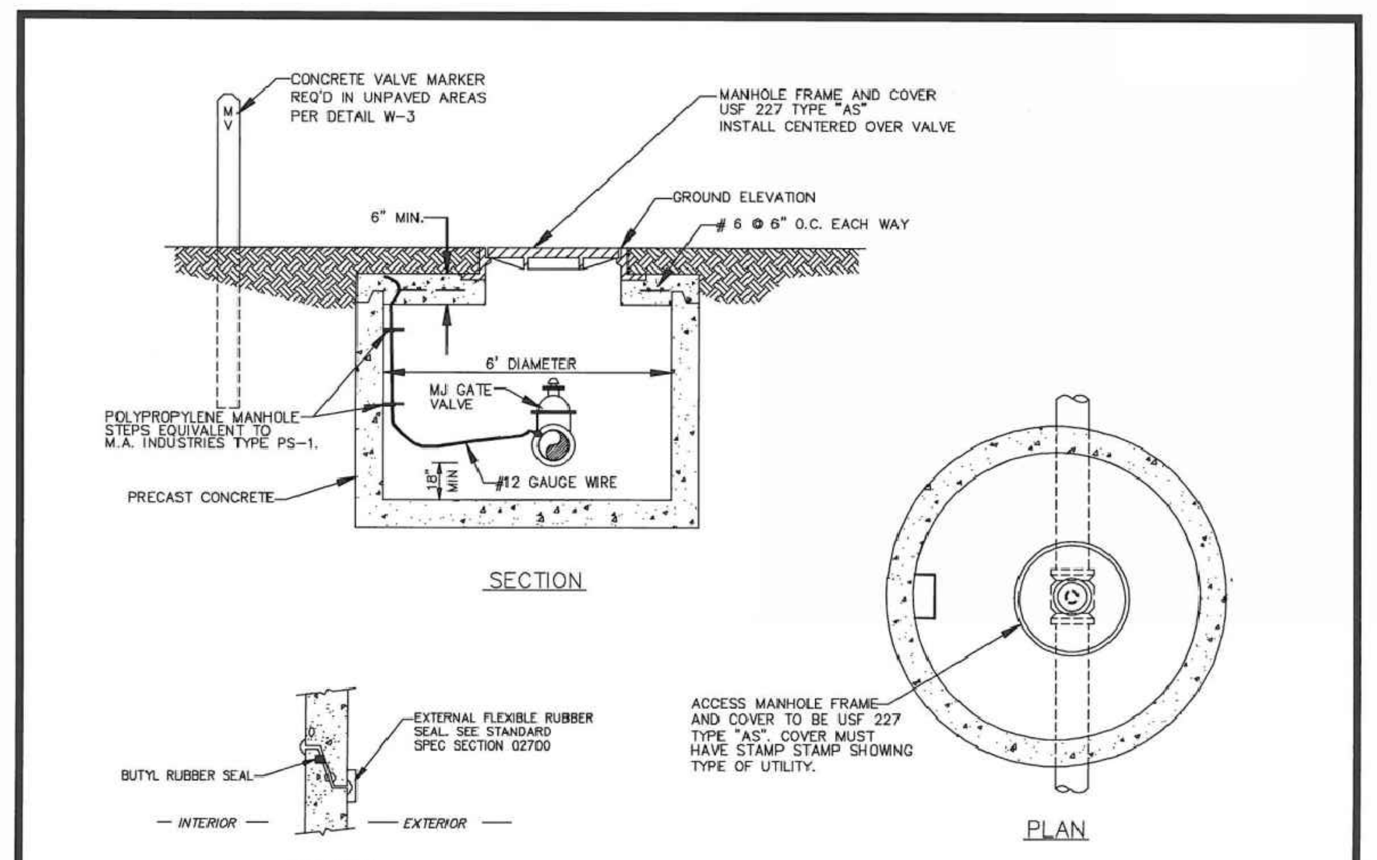
1. FOR FINAL APPROVAL, ASSEMBLY MUST BE CENTERED IN ENCLOSURE (IF APPLICABLE). UNDER NO CONDITIONS WILL ANY CONNECTIONS BE ALLOWED BETWEEN THE SERVICE METER AND A BACKFLOW PREVENTER USED FOR THE SYSTEM CONTAINMENT. BACKFLOW PREVENTER SHALL ALWAYS BE INSTALLED DOWNSTREAM OF METER.
2. IF A PRESSURE MONITOR IS TO BE INSTALLED, ADD A TEE, VALVE, FITTINGS, AND MOUNT ON SUPPLY SIDE PRIOR TO BACKFLOW PREVENTER. UNDER NO CIRCUMSTANCE SHALL TEST PORTS BE MODIFIED OR UTILIZED FOR THIS OR OTHER APPLICATIONS, OTHER THAN BACKFLOW DEVICE TESTING.

CITY OF POOLER 2011 STANDARD DETAIL	REDUCED PRESSURE ZONE DEVICE/DOUBLE CHECK VALVE - TYPICAL OUTSIDE INSTALLATION DETAIL (3", 4", 6", 8" & 10" SIZES)	SCALE: N.T.S. DATE: August 2006	W-29



NOTE:
1. SET MANHOLE COVER 2" ABOVE NATURAL GRADE OR FLUSH WITH PAVING.
2. SEE STANDARD SPEC. SECTION 02700 FOR RUBBER SEAL REQUIREMENTS.
3. MANHOLE FRAME AND COVER SHALL BE USF 227, TYPE "AS" OR EQUAL. CLEAR OPENING SHALL BE 24" AND HEIGHT SHALL BE 6".
4. SEE STANDARD SPEC. SECTION 02700 FOR REQUIREMENTS.

CITY OF POOLER 2011 STANDARD DETAIL	AIR RELEASE VALVE	SCALE: N.T.S. DATE: January 2011	W-01



CITY OF POOLER 2011 STANDARD DETAIL	VALVE MANHOLE FOR 10" & 12" GATE VALVES	SCALE: N.T.S. DATE: January 2011	W-14

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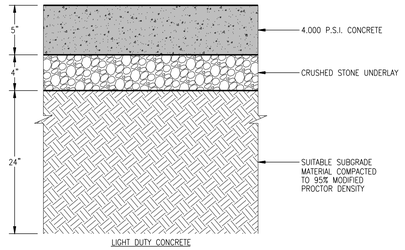
12.04.2024 PER HGB COMMENTS
12.18.2024 PER CITY & HGB COMMENTS
01.14.2025 ACCESS ROAD REVISION
02.25.2025 PER CITY COMMENTS
04.11.2025 PER CITY & HGB COMMENTS

CIVIL CONSTRUCTION PLANS FOR
DST TRAILER YARD
PHASE 1
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

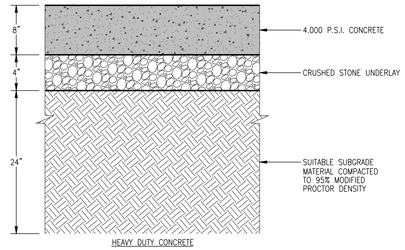
JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
CHECKED BY:	DLF
SCALE:	AS NOTED

CONSTRUCTION DETAILS

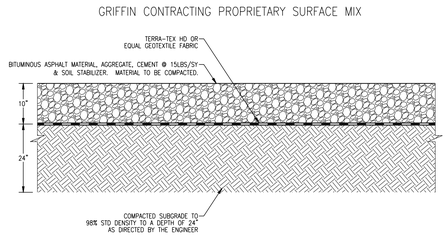
SHEET:
C8.1



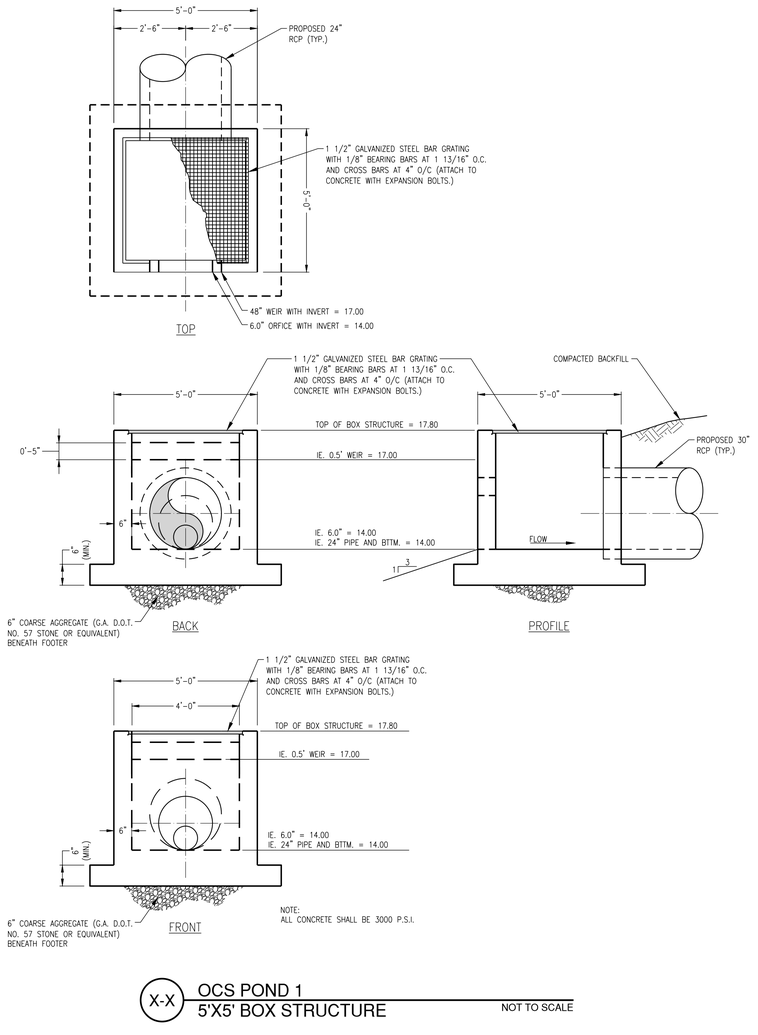
P-20B LIGHT DUTY CONCRETE SECTION
NOT TO SCALE



P-20 HEAVY DUTY CONCRETE SECTION
NOT TO SCALE



P-48 STABILIZED BITUMINOUS ASPHALT & CEMENT
NOT TO SCALE



X-X OCS POND 1
5'X5' BOX STRUCTURE
NOT TO SCALE

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REVISIONS:
- 12.04.2024 PER HGB COMMENTS
- 12.18.2024 PER CITY & HGB COMMENTS
- 01.14.2025 ACCESS ROAD REVISION
- 02.25.2025 PER CITY COMMENTS
- 04.11.2025 PER CITY & HGB COMMENTS

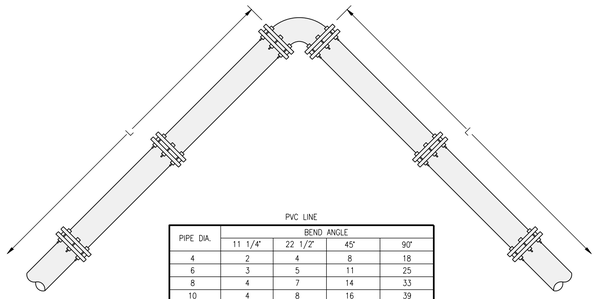
CIVIL CONSTRUCTION PLANS FOR
DST TRAILER YARD
PHASE 1
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
CHECKED BY:	DLF
SCALE:	AS NOTED

CONSTRUCTION DETAILS

SHEET: C8.2

811 Know what's below. Call before you dig.



PVC LINE

PIPE DIA.	BEND ANGLE			
	11 1/4°	22 1/2°	45°	90°
4	2	4	8	18
6	3	5	11	25
8	4	7	14	33
10	4	8	16	39
12	5	9	19	45
16	5	9	19	45
20	6	11	23	54
24	8	16	26	62

PVC DESIGN
SOIL TYPE: SM
TRENCH TYPE: 3
COVER: 3'<12" DIA.
4'>12" DIA.
TEST PRESSURE: 150 PSI

POLYETHYLENE WRAPPED DUCTILE IRON LINE

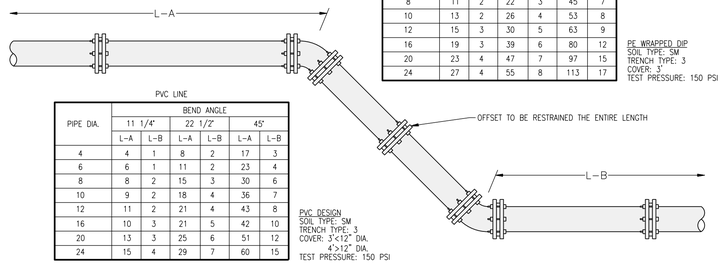
PIPE DIA.	BEND ANGLE			
	11 1/4°	22 1/2°	45°	90°
4	3	5	9	20
6	3	6	12	28
8	4	8	16	36
10	5	9	19	43
12	6	11	22	51
16	7	14	28	65
20	8	16	33	79
24	9	19	38	92

MINIMUM RESTRAINED LENGTH (L)

PE WRAPPED DIP
SOIL TYPE: SM
TRENCH TYPE: 3
COVER: 3'
TEST PRESSURE: 150 PSI

NOTE:
1. LENGTH OF RESTRAINT SHOWN IS IN FEET. PIPE DIAMETERS ARE IN INCHES.
2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
3. INFORMATION IN THE TABLES ABOVE ARE BASED ON THE DESIGN INFORMATION SHOWN. THE ENGINEER SHALL PROVIDE AMENDED RESTRAINT LENGTHS IF SITE CONDITIONS DIFFER

W-28 HORIZONTAL BEND RESTRAINT
NOT TO SCALE



POLYETHELYNE WRAPPED DUCTILE IRON LINE

PIPE DIA.	BEND ANGLE					
	11 1/4°		22 1/2°		45°	
	L-A	L-B	L-A	L-B	L-A	L-B
4	6	1	12	2	24	4
6	9	2	17	3	34	5
8	11	2	22	3	45	7
10	13	2	26	4	53	8
12	15	3	30	5	63	9
16	19	3	39	6	80	12
20	23	4	47	7	97	15
24	27	4	55	8	113	17

PE WRAPPED DIP
SOIL TYPE: SM
TRENCH TYPE: 3
COVER: 3'
TEST PRESSURE: 150 PSI

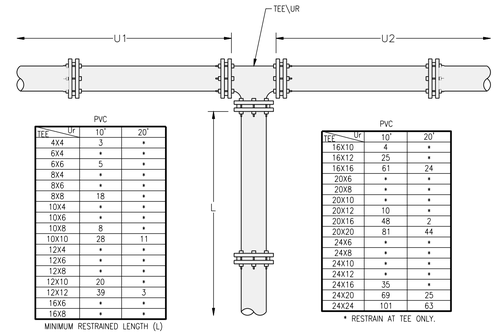
PVC LINE

PIPE DIA.	BEND ANGLE					
	11 1/4°		22 1/2°		45°	
	L-A	L-B	L-A	L-B	L-A	L-B
4	4	1	8	2	17	3
6	6	1	11	2	23	4
8	8	2	15	3	30	6
10	9	2	18	4	36	7
12	11	2	21	4	43	8
16	10	3	21	5	42	10
20	13	3	25	6	51	12
24	15	4	29	7	60	15

PVC DESIGN
SOIL TYPE: SM
TRENCH TYPE: 3
COVER: 3'<12" DIA.
4'>12" DIA.
TEST PRESSURE: 150 PSI

NOTE:
1. LENGTH OF RESTRAINT SHOWN IS IN FEET. PIPE DIAMETERS ARE IN INCHES.
2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
3. INFORMATION IN THE TABLES ABOVE ARE BASED ON THE DESIGN INFORMATION SHOWN. THE ENGINEER SHALL PROVIDE AMENDED RESTRAINT LENGTHS IF SITE CONDITIONS DIFFER

W-29 VERTICAL BEND RESTRAINT
NOT TO SCALE



PVC

TEE \ Ur	10'	20'
4X4	3	*
6X4	*	*
6X6	5	*
8X4	*	*
8X6	*	*
8X8	18	*
10X4	*	*
10X6	*	*
10X8	8	*
10X10	28	11
12X4	*	*
12X6	*	*
12X8	*	*
12X10	20	*
12X12	39	3
16X6	*	*
16X8	*	*

MINIMUM RESTRAINED LENGTH (L)

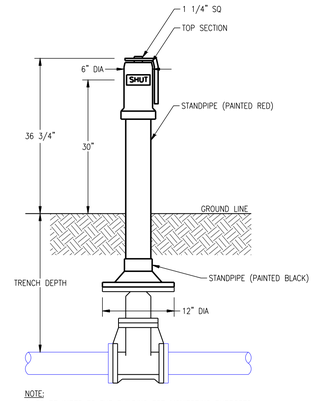
PVC

TEE \ Ur	10'	20'
16X10	4	*
16X12	25	*
16X16	61	24
20X6	*	*
20X8	*	*
20X10	*	*
20X12	10	*
20X16	48	2
20X20	81	44
24X6	*	*
24X8	*	*
24X10	*	*
24X12	*	*
24X16	35	*
24X20	69	25
24X24	101	63

* RESTRAIN AT TEE ONLY.

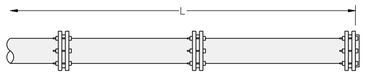
NOTE:
1. LENGTH OF RESTRAINT SHOWN IS IN FEET. PIPE DIAMETERS ARE IN INCHES.
2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
3. U1 AND U2 = UNINTERRUPTED STRAIGHT RUNS OF PIPE IN EACH DIRECTION
4. Ur = THE SMALLER OF U1 OR U2.
5. L = MINIMUM RESTRAINED LENGTH ALONG THE BRANCH.
6. WHERE Ur IS LESS THAN 5', RESTRAIN TEE AS A 90° HORIZONTAL BEND.
7. INFORMATION IN THE TABLES ABOVE ARE BASED ON THE DESIGN INFORMATION SHOWN. THE ENGINEER SHALL PROVIDE AMENDED RESTRAINT LENGTHS IF SITE CONDITIONS DIFFER.

W-30 TEE RESTRAINT (PVC PIPE)
NOT TO SCALE



NOTE:
1. TO BE WIRED TO THE BUILDING FOR MONITORING PURPOSES.

W-25 POST INDICATOR VALVE
NOT TO SCALE



POLYETHYLENE WRAPPED DUCITLE IRON LINE

PIPE DIA.	L
4	58
6	82
8	107
10	128
12	151
16	193
20	234
24	273

PVC DESIGN
SOIL TYPE: SM
TRENCH TYPE: 3
COVER: 3'<12" DIA.
4'>12" DIA.
TEST PRESSURE: 150 PSI

PE WRAPPED DIP
SOIL TYPE: SM
TRENCH TYPE: 3
COVER: 3'
TEST PRESSURE: 150 PSI

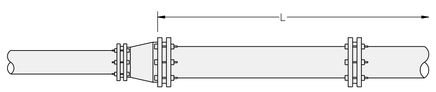
PVC LINE

PIPE DIA.	L
4	39
6	55
8	72
10	87
12	102
16	131
20	159
24	185

MINIMUM RESTRAINED LENGTH (L)

NOTES:
1. LENGTH OF RESTRAINT SHOWN IS IN FEET. FITTING DIAMETERS ARE IN INCHES.
2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
3. FOR LINE STUBS (SEE DETAIL W34), THE LENGTH OF RESTRAINT (L) SHALL BE FROM THE VALVE AND NOT THE CAP.
4. INFORMATION IN THE TABLES ABOVE ARE BASED ON THE DESIGN INFORMATION SHOWN. THE ENGINEER SHALL PROVIDE AMENDED RESTRAINT LENGTHS IF SITE CONDITIONS DIFFER.

W-32 DEAD END RESTRAINT DETAIL
NOT TO SCALE



PVC LINE

REDUCER	L
6X4	29
8X4	52
8X6	31
10X4	71
10X6	53
10X8	29
12X4	89
12X6	74
12X8	54
12X10	30
16X6	111
16X8	96
16X10	78
16X12	56
20X10	117
20X12	100
20X16	56
24X12	137
24X16	101
24X20	56

PVC DESIGN
SOIL TYPE: SM
TRENCH TYPE: 3
COVER: 3'<12" DIA.
4'>12" DIA.
TEST PRESSURE: 150 PSI

POLYETHELYNE WRAPPED DUCTILE IRON LINE

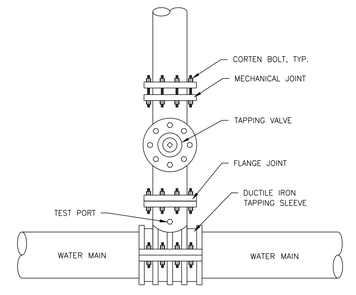
REDUCER	L
6X4	43
8X4	77
8X6	45
10X4	104
10X6	79
10X8	43
12X4	131
12X6	110
12X8	80
12X10	45
16X6	163
16X8	141
16X10	115
16X12	82
20X10	172
20X12	147
20X16	82
24X12	201
24X16	149
24X20	82

PE WRAPPED DIP
SOIL TYPE: SM
TRENCH TYPE: 3
COVER: 3'
TEST PRESSURE: 150 PSI

NOTE:
1. LENGTH OF RESTRAINT SHOWN IS IN FEET. PIPE DIAMETERS ARE IN INCHES.
2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
3. INFORMATION IN THE TABLES ABOVE ARE BASED ON THE DESIGN INFORMATION SHOWN. THE ENGINEER SHALL PROVIDE AMENDED RESTRAINT LENGTHS IF SITE CONDITIONS DIFFER

W-33 REDUCER RESTRAINT
NOT TO SCALE

NOTE:
1. THE TAPPING SLEEVE AND VALVE MUST BE INSTALLED IN A MANHOLE. (SEE DETAILS W25C & W25D FOR THE MANHOLE DETAILS)



PLAN VIEW

TYPICAL TAPPING SLEEVES & TAPPING VALVE

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Savannah, Georgia | (912) 200-3041 | COLSAV.COM

NOT FOR CONSTRUCTION

GEORGIA REGISTERED PROFESSIONAL ENGINEER 12/12/24 DOUGLAS L. FAIRCLOTH

REVISIONS:
12.04.2024 PER HGB COMMENTS
12.18.2024 PER CITY & HGB COMMENTS
01.14.2025 ACCESS ROAD REVISION
02.25.2025 PER CITY COMMENTS
04.11.2025 PER CITY & HGB COMMENTS

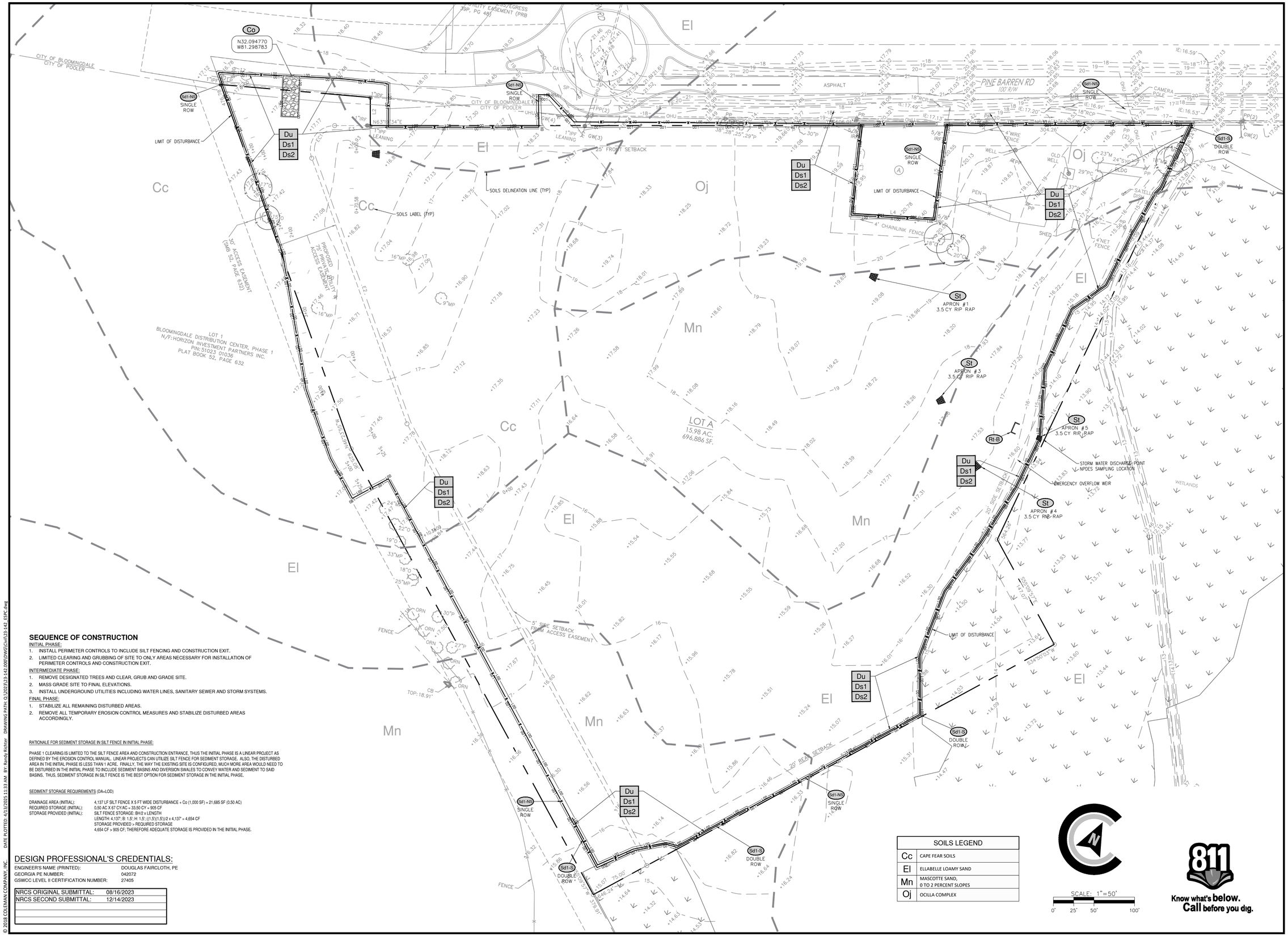
CIVIL CONSTRUCTION PLANS FOR
DST TRAILER YARD
PHASE 1
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER: 23-142
DATE: 10/16/24
DRAWN BY: CLM
CHECKED BY: DLF
SCALE: AS NOTED

CONSTRUCTION DETAILS

SHEET: C8.3

 DATE PLOTTED: 4/13/2025 11:33 AM BY: Randy Richter DRAWING PATH: Q:\2023\23-142.000\DWG\Civil\23-142_DET.dwg



SEQUENCE OF CONSTRUCTION

INITIAL PHASE:

1. INSTALL PERIMETER CONTROLS TO INCLUDE SILT FENCING AND CONSTRUCTION EXIT.
2. LIMITED CLEARING AND GRUBBING OF SITE TO ONLY AREAS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS AND CONSTRUCTION EXIT.

INTERMEDIATE PHASE:

1. REMOVE DESIGNATED TREES AND CLEAR, GRUB AND GRADE SITE.
2. MASS GRADE SITE TO FINAL ELEVATIONS.
3. INSTALL UNDERGROUND UTILITIES INCLUDING WATER LINES, SANITARY SEWER AND STORM SYSTEMS.

FINAL PHASE:

1. STABILIZE ALL REMAINING DISTURBED AREAS.
2. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND STABILIZE DISTURBED AREAS ACCORDINGLY.

RATIONALE FOR SEDIMENT STORAGE IN SILT FENCE IN INITIAL PHASE:

PHASE 1 CLEARING IS LIMITED TO THE SILT FENCE AREA AND CONSTRUCTION ENTRANCE, THUS THE INITIAL PHASE IS A LINEAR PROJECT AS DEFINED BY THE EROSION CONTROL MANUAL. LINEAR PROJECTS CAN UTILIZE SILT FENCE FOR SEDIMENT STORAGE. ALSO, THE DISTURBED AREA IN THE INITIAL PHASE IS LESS THAN 1 ACRE. FINALLY, THE WAY THE EXISTING SITE IS CONFIGURED, MUCH MORE AREA WOULD NEED TO BE DISTURBED IN THE INITIAL PHASE TO INCLUDE SEDIMENT BASINS AND DIVERSION SWALES TO CONVEY WATER AND SEDIMENT TO SAID BASINS. THUS, SEDIMENT STORAGE IN SILT FENCE IS THE BEST OPTION FOR SEDIMENT STORAGE IN THE INITIAL PHASE.

SEDIMENT STORAGE REQUIREMENTS (DA=LOD)

DRAINAGE AREA (INITIAL):	4,137 LF SILT FENCE X 5 FT WIDE DISTURBANCE + Cc (1,000 SF) = 21,685 SF (0.50 AC)
REQUIRED STORAGE (INITIAL):	0.50 AC X 67 CY/AC = 33.50 CY = 905 CF
STORAGE PROVIDED (INITIAL):	SILT FENCE STORAGE: BH/2 x LENGTH LENGTH: 4,137'; B: 1.5'; H: 1.5'; (1.5')/2 x 4,137' = 4,654 CF STORAGE PROVIDED > REQUIRED STORAGE 4,654 CF > 905 CF; THEREFORE ADEQUATE STORAGE IS PROVIDED IN THE INITIAL PHASE.

DESIGN PROFESSIONAL'S CREDENTIALS:

ENGINEER'S NAME (PRINTED):	DOUGLAS FAIRCLOTH, PE
GEORGIA PE NUMBER:	042072
GSWCC LEVEL II CERTIFICATION NUMBER:	27405

NRCS ORIGINAL SUBMITTAL:	08/16/2023
NRCS SECOND SUBMITTAL:	12/14/2023

SOILS LEGEND	
Cc	CAPE FEAR SOILS
El	ELLABELLE LOAMY SAND
Mn	MASCOTTE SAND, 0 TO 2 PERCENT SLOPES
Oj	OCILLA COMPLEX

SCALE: 1"=50'
0' 25' 50' 100'

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GEORGIA REGISTERED PROFESSIONAL ENGINEER 042072 DOUGLAS L. FAIRCLOTH 10/24/24

REVISIONS:
09.24.2024 PER CITY COMMENTS
12.04.2024 PER HGB COMMENTS
12.18.2024 PER CITY & HGB COMMENTS
01.14.2025 ACCESS ROAD REVISION
02.25.2025 PER CITY COMMENTS

ES&PC CONTROL PLANS FOR

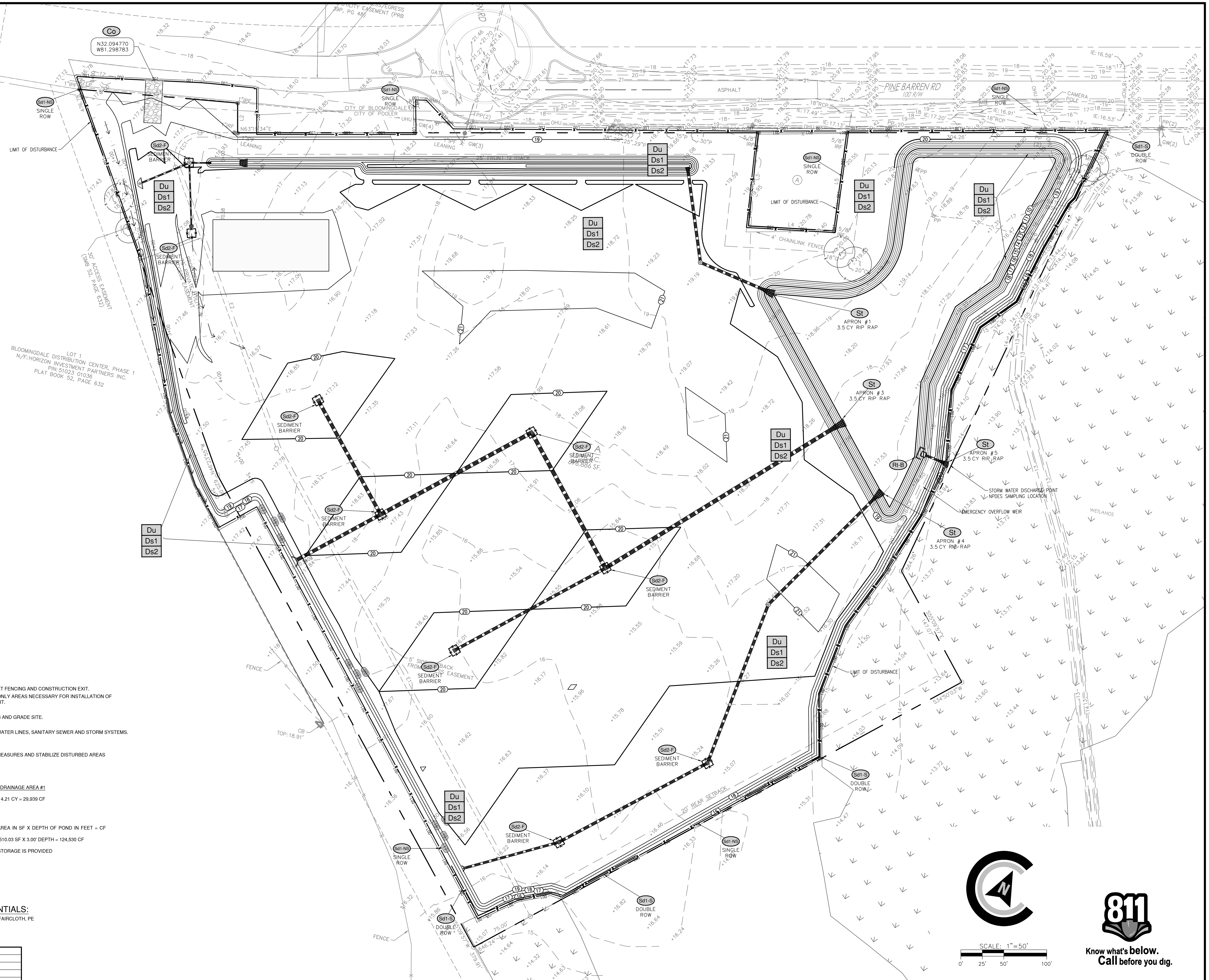
DST TRAILER YARD

LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
CHECKED BY:	DLF
SCALE:	AS NOTED

INITIAL ES&PC PLAN

SHEET:
CE1.0



SEQUENCE OF CONSTRUCTION

INITIAL PHASE:

1. INSTALL PERIMETER CONTROLS TO INCLUDE SILT FENCING AND CONSTRUCTION EXIT.
2. LIMITED CLEARING AND GRUBBING OF SITE TO ONLY AREAS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS AND CONSTRUCTION EXIT.

INTERMEDIATE PHASE:

1. REMOVE DESIGNATED TREES AND CLEAR, GRUB AND GRADE SITE.
2. MASS GRADE SITE TO FINAL ELEVATIONS.
3. INSTALL UNDERGROUND UTILITIES INCLUDING WATER LINES, SANITARY SEWER AND STORM SYSTEMS.

FINAL PHASE:

1. STABILIZE ALL REMAINING DISTURBED AREAS.
2. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND STABILIZE DISTURBED AREAS ACCORDINGLY.

TEMPORARY SEDIMENT STORAGE REQUIREMENTS - DRAINAGE AREA #1

DRAINAGE AREA: 16.55 AC
REQUIRED STORAGE: 16.55 AC X 67 CY/AC = 1,114.21 CY = 29,939 CF

POND 1 STORAGE PROVIDED:
ELEV 1 10.00 = AREA: 36,482.84 SF (3.00' DEPTH)
ELEV 2 13.00 = AREA: 46,537.22 SF (3.00' DEPTH)
(TOP ELEV. AREA + BOTTOM ELEV. AREA)/2 = AREA IN SF X DEPTH OF POND IN FEET = CF
(AVERAGE END METHOD)
AREA: (36,482.84 + 46,537.22)/2 = 83,020.06/2 = 41,510.03 SF X 3.00' DEPTH = 124,530 CF

124,530 CF > 29,939 CF THEREFORE ADEQUATE STORAGE IS PROVIDED

DESIGN PROFESSIONAL'S CREDENTIALS:

ENGINEER'S NAME (PRINTED):	DOUGLAS FAIRCLOTH, PE
GEORGIA PE NUMBER:	042072
GSWCC LEVEL II CERTIFICATION NUMBER:	27405

NRCS ORIGINAL SUBMITTAL:	08/16/2023
NRCS SECOND SUBMITTAL:	12/14/2023

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GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE042072 DOUGLAS L. FAIRCLOTH 10/21/24

REVISIONS:

09.24.2024 PER CITY COMMENTS
12.04.2024 PER HGB COMMENTS
12.18.2024 PER CITY & HGB COMMENTS
01.14.2025 ACCESS ROAD REVISION
02.25.2025 PER CITY COMMENTS

ES&PC CONTROL PLANS FOR DST TRAILER YARD

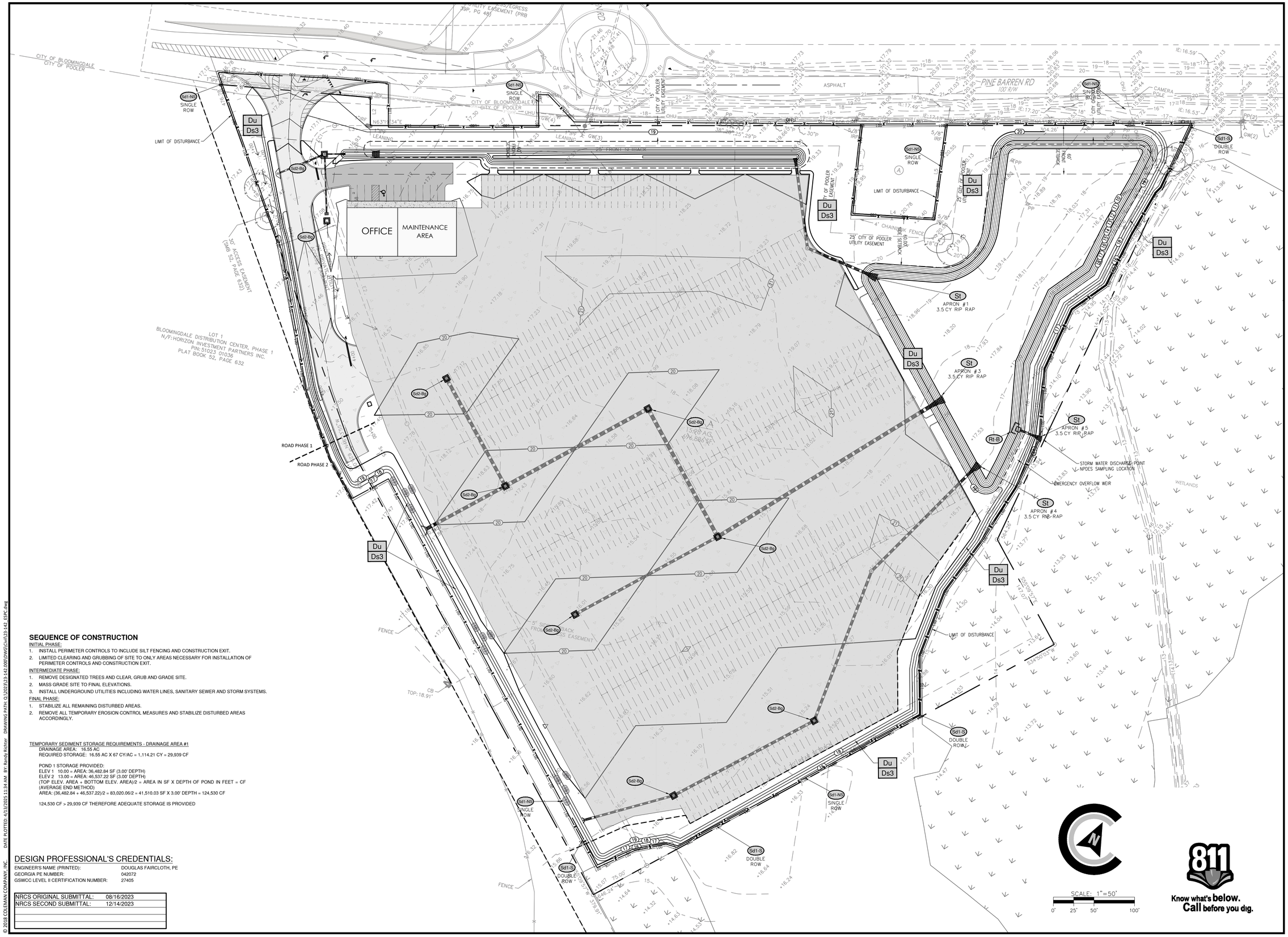
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
CHECKED BY:	DLF
SCALE:	AS NOTED

INTERM ES&PC PLAN

SHEET:

CE2.0



SEQUENCE OF CONSTRUCTION

INITIAL PHASE:

1. INSTALL PERIMETER CONTROLS TO INCLUDE SILT FENCING AND CONSTRUCTION EXIT.
2. LIMITED CLEARING AND GRUBBING OF SITE TO ONLY AREAS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS AND CONSTRUCTION EXIT.

INTERMEDIATE PHASE:

1. REMOVE DESIGNATED TREES AND CLEAR, GRUB AND GRADE SITE.
2. MASS GRADE SITE TO FINAL ELEVATIONS.
3. INSTALL UNDERGROUND UTILITIES INCLUDING WATER LINES, SANITARY SEWER AND STORM SYSTEMS.

FINAL PHASE:

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2. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND STABILIZE DISTURBED AREAS ACCORDINGLY.

TEMPORARY SEDIMENT STORAGE REQUIREMENTS - DRAINAGE AREA #1

DRAINAGE AREA: 16.55 AC
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ELEV 1 10.00 = AREA: 36,482.84 SF (3.00' DEPTH)
ELEV 2 13.00 = AREA: 46,537.22 SF (3.00' DEPTH)
(TOP ELEV. AREA + BOTTOM ELEV. AREA)/2 = AREA IN SF X DEPTH OF POND IN FEET = CF
(AVERAGE END METHOD)
AREA: (36,482.84 + 46,537.22)/2 = 83,020.06/2 = 41,510.03 SF X 3.00' DEPTH = 124,530 CF

124,530 CF > 29,939 CF THEREFORE ADEQUATE STORAGE IS PROVIDED

DESIGN PROFESSIONAL'S CREDENTIALS:

ENGINEER'S NAME (PRINTED):	DOUGLAS FAIRCLOTH, PE
GEORGIA PE NUMBER:	042072
GSWCC LEVEL II CERTIFICATION NUMBER:	27405

NRCS ORIGINAL SUBMITTAL:	08/16/2023
NRCS SECOND SUBMITTAL:	12/14/2023

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GEORGIA REGISTERED PROFESSIONAL 042072 ENGINEER DOUGLAS L. FAIRCLOTH 10/24/24

REVISIONS:
09.24.2024 PER CITY COMMENTS
12.04.2024 PER HGB COMMENTS
12.18.2024 PER CITY & HGB COMMENTS
01.14.2025 ACCESS ROAD REVISION
02.25.2025 PER CITY COMMENTS

ES&PC CONTROL PLANS FOR

DST TRAILER YARD

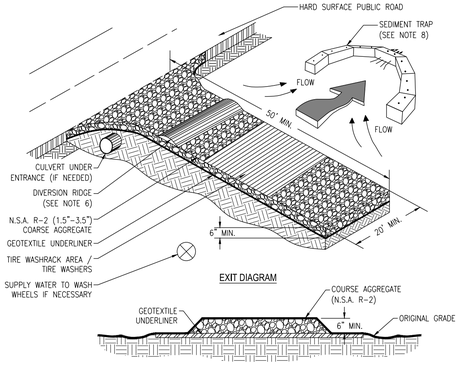
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
CHECKED BY:	DLF
SCALE:	AS NOTED

FINAL ES&PC PLAN

SHEET:

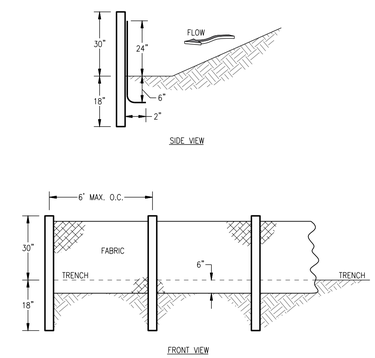
CE3.0



NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Co CRUSHED STONE CONSTRUCTION EXIT

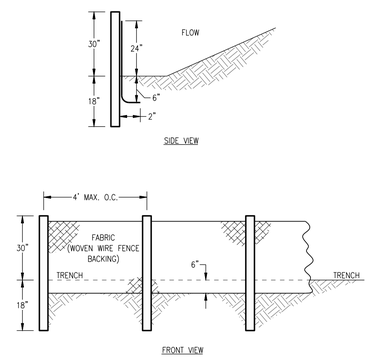
NOT TO SCALE



NOTE:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd1-NS SILT FENCE - TYPE NON-SENSITIVE

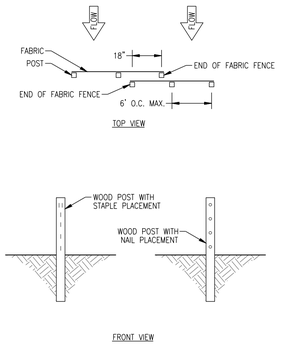
NOT TO SCALE



NOTE:
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd1-S SILT FENCE - TYPE SENSITIVE

NOT TO SCALE



NOTE:
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

Ds1

MULCHING WITHOUT TEMPORARY GRASSING:
WOOD MULCH SHALL BE PLACED AT A RATE OF 140 TONS PER ACRE AND APPLIED TO A DEPTH OF 2 TO 3 INCHES.

TEMPORARY GRASSING:
AGRICULTURAL LIME: APPLY 1 TON/ACRE
FERTILIZER: FOR SOILS WITH VERY LOW FERTILITY, APPLY 500-700 LBS. 10-10-10 PER ACRE FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

PERMANENT GRASSING:
AGRICULTURAL LIME IS REQUIRED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. SOIL TEST ARE REQUIRED PRIOR TO PERMANENT VEGETATION. PERMANENT GRASSING SHALL BE SOD.

HYDRAULIC SEEDING:
MIX THE SEED (INOCULATED IF NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD 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.

MULCHING:
MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED:
1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2-1/2 TONS PER ACRE.
2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER WILL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.
3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 3/4:1 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 BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUALITY MAY BE USED WHERE ORNAMENTALS OR OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS.
6. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED.
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 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.

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

DEFINITION

THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREAS.

CONDITIONS

TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO USE AS COMPANION CROPS UNTIL THE PERMANENT VEGETATION IS ESTABLISHED.

SPECIFICATIONS

GRADING AND SHAPING

EXCESSIVE WATER RUN-OFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS.

NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

SEEDBED PREPARATION

WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HANDSEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL.

WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

LIME AND FERTILIZER

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 LBS./1,000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

SEEDING

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTIPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RAKED" LIGHTLY TO COVER SEED WITH SOIL IF SEEDED BY HAND.

MULCHING

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. REFER TO DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

IRRIGATION

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

SEEDING RATES FOR 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.

Ds3 DISTURBED AREA STABILIZATION (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.

CONDITIONS

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

SPECIFICATIONS

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.

PLANTING

HYDRAULIC SEEDING

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

SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING, USE A CULTIPACKER SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE 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

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

1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY 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. 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 SEEDING.
3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 3/4:1 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 BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS.
6. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED.
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.
3. 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.

SEEDING RATES FOR PERMANENT SEEDING

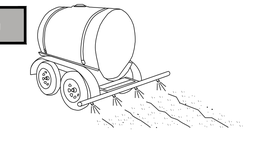
SPECIES	RATE PER 1,000 SF	RATE PER ACRE*	PLANTING DATES**
BAHIA	1.4 LBS	60 LBS	1/1-12/31
BERMUDA	0.2 LB	10 LBS	2/15-7/1
CENTIPEDE	BLOCK SOD ONLY	BLOCK SOD ONLY	4/1-7/1
LESPEDEZA	1.7 LB	75 LBS	1/1-12/31
WEEPING LOVE GRASS	0.1 LB	4 LBS	2/1-6/15
SWITCHGRASS	0.9 LBS	40 LBS	3/15-6/1

* UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES
** SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND CONDITIONS.

LIME AND FERTILIZER
AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS, OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 LBS./1,000 SQ. FT.) SHALL BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

DUST CONTROL ON DISTURBED AREAS

Du



CONTRACTOR SHALL EMPLOY THE FOLLOWING TEMPORARY METHODS TO LIMIT THE SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES:

*TEMPORARY METHODS:
- MULCHES
- VEGETATIVE COVER
- SPRAY ON ADHESIVES
- TILLAGE
- IRRIGATION
- BARRIERS
- CALCIUM CHLORIDE

*PERMANENT METHODS
- PERMANENT VEGETATION
- TOPSOIL
- STONE COVER

*CHEMICAL CONTROL

ADHESIVE ADHESIVE	WATER DILUTION	TYPE OF NOZZLE	APPLICATION RATE (GAL/AC)
ANIONIC ASPHALT EMULSION	7:1	SPRAY	1200
LATEX EMULSION	12 1/2:1	FINE SPRAY	235
RESIN-IN-WATER EMULSION	4:1	FINE SPRAY	300

DESIGN PROFESSIONAL'S CREDENTIALS:

ENGINEER'S NAME (PRINTED):	DOUGLAS FAIRCLOTH, PE
GEORGIA PE NUMBER:	042072
GSWCC LEVEL II CERTIFICATION NUMBER:	27405

NRCS ORIGINAL SUBMITTAL:	08/16/2023
NRCS SECOND SUBMITTAL:	12/14/2023

811 Know what's below. Call before you dig.

DATE PLOTTED: 4/13/2025 11:34 AM BY: Randy Richter DRAWING PATH: Q:\2023\23-142.000\DWG\Civil\23-142 ESPC.dwg

COLEMAN COMPANY ENGINEERS • SURVEYORS
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GEORGIA REGISTERED PROFESSIONAL 042072 ENGINEER 10/21/24 DOUGLAS L. FAIRCLOTH

REVISIONS:
09.24.2024 PER CITY COMMENTS
12.04.2024 PER HGB COMMENTS
12.18.2024 PER CITY & HGB COMMENTS
01.14.2025 ACCESS ROAD REVISION
02.25.2025 PER CITY COMMENTS

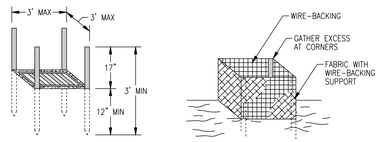
ES&PC CONTROL PLANS FOR
DST TRAILER YARD
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

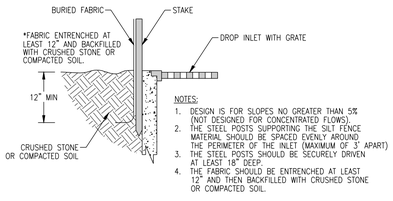
JOB NUMBER: 23-142
DATE: 10/16/24
DRAWN BY: CLM
CHECKED BY: DLF
SCALE: AS NOTED

EROSION CONTROL DETAILS

SHEET:
CE4.0

STEEL FRAME AND SILT FENCE INSTALLATION



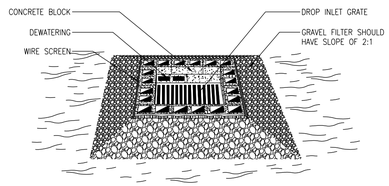


NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART)
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

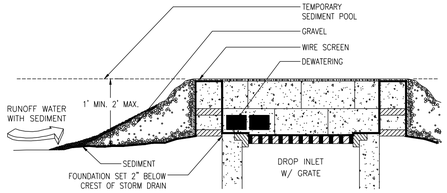
Sd2-F FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

NOT TO SCALE

BLOCK AND GRAVEL PERSPECTIVE



BLOCK AND GRAVEL SECTION



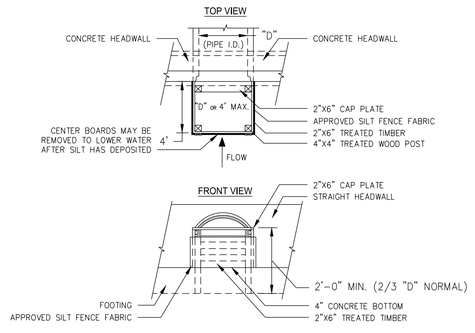
NOTES:
1. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH ½ INCH OPENINGS SHALL BE FITTED OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
2. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. THE FIRST ROW OF BLOCKS WILL BE PLACED HERE FOR LATERAL SUPPORT.
3. ONE BLOCK (AS SHOWN) IS TO BE PLACED ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW FOR POOL DRAINAGE.

Sd2-Bg BLOCK GRAVEL DROP INLET PROTECTION

NOT TO SCALE

TYPE 2: FOR STRAIGHT HEADWALLS

NOTES:
1. SLOTTED BOARD DAM SHALL BE INSTALLED WITH MINIMUM SIZE 4" X 4" POSTS.
2. BOARDS SHOULD HAVE A 0.5" TO 1"SPACE BETWEEN THEM AND MUST HAVE GROUND OR BOTTOM OF CONCRETE CONTACT.
3. MINIMUM SIZE 3-4" STONE FILTER SHALL BE INSTALLED AROUND THE UPSTREAM SIDE OF THE BOARD DAM.
4. POSTS FOR THE SILT CONTROL GATE SHALL BE 4: X 4" TREATED LUMBER AND FACE BOARDS SHALL BE 2" X 6" TREATED LUMBER WITH NO SPACING ALLOWED BETWEEN BOARDS.
5. AN APPROVED SILT FENCE FABRIC SHALL BE SECURELY FASTENED TO THE FRONT OF THE STRUCTURE USING STABLES (BE SURE TO HAVE SILT FENCE ON UPSTREAM SIDE OF STRUCTURE).
6. SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT GATE. FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED AND/OR DETERIORATED.
7. ALL DISTURBED AREAS SHALL BE VEGETATED IMMEDIATELY AFTER CONSTRUCTION WITH PERMANENT VEGETATION.

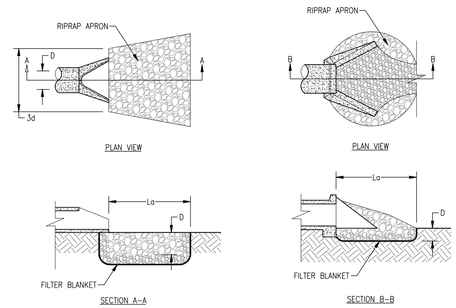


USES: A SILT CONTROL GATE IS A STRUCTURE PLACED ON A PIPE, SINGLE BARREL BOX CULVERT, OR DROP INLET TO FORM A BASIN TO TRAP SILT.
NOTE: SILT CONTROL GATES SHALL NOT BE USED ON STRUCTURES THAT CONVEY STATE WATERS.

Rt-B SILT CONTROL GATE WITH SLOTTED BOARD DAM

NOT TO SCALE

NOTE:
1. Lo IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER.
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.



PIPE OUTLET TO FLAT AREA NO WELL DEFINED CHANNEL

PIPE OUTLET TO WELL DEFINED CHANNEL

St RIPRAP OUTLET PROTECTION

NOT TO SCALE

TO BE SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

Storage Calculations

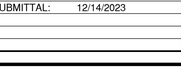
1. Required stormwater storage = 0 cy (as determined by local ordinance)
2. Required sediment storage = 1,114.21 cy (67 cy/oc * 16.55 oc disturbed area)
3. Total required storage = 0 + 1,114.21 = 1,114.21 cy
4. Available storage = 4,612.22 cy
5. Is the available storage (4) greater than the total required storage (3)?
   X yes ____ no
6. If "no", the sediment storage capacity of the pond must be increased. Choose the method to be used:
   _____ Raise the invert of the outlet structure _____ inches
   _____ Undercut the pond _____ feet
   _____ Other _____
7. Clean-out elevation = 10.3 ft (Elevation corresponding to 22 cy/oc *16.55 oc disturbed area)
8. Is the length-width ratio 2:1 or greater?
   X yes ____ no
9. If "no", the length of fow must be increased. Choose the method to be used:
   _____ Baffles (Type of baffle: _____)
   _____ Other _____

Note the CMP diameter and height if a half-round CMP retrofit is to be used.
Diameter = N/A inches Height = N/A feet

RIP RAP APRON DESIGN
JUNE 30, 2023
23-142 DST TRAILER YARD

APRON	OUTLET PIPE DIAMETER	VELOCITY	TOTAL OUTFLOW	La AND Do FROM FIGURE 6-24.1 IN THE GREEN BOOK		W_t = 3*Do	W_2 = Do + La	DEPTH OF APRON = 1.5*D 50 (6"min)
	Do (FT)	Vd (fps)	Q_{50} (cfs)	La (ft)	D_{50} (in)	W_t (ft)	W_2 (ft)	H (in)
ST-1	2.50	7.74	38.00	15.50	6.25	7.50	8.70	9.38
ST-2	3.00	7.92	56.00	19.50	7.00	9.00	10.80	10.50
ST-3	2.50	7.74	38.00	15.50	6.25	7.50	8.70	9.38
ST-4	2.50	7.74	38.00	15.50	6.25	15.50	8.70	9.38
ST-5	2.50	7.74	38.00	15.50	6.25	15.50	8.70	9.38

SOD LAYOUT AND PREPARATION



LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

BUTTING : ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

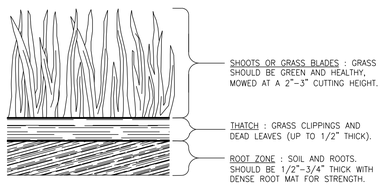
DIRECTIONS FOR INITIAL MAINTENANCE

Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL

Step 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

Step 3. MOW WHEN THE SOD IS ESTABLISHED -- IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD

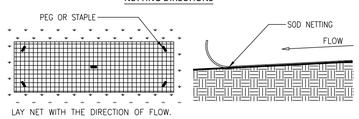


SOD MAINTENANCE AND INSTALLATION

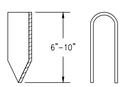
NOT TO SCALE

SOD DIRECTIONS

NETTING DIRECTIONS



PEG DETAIL



IN CRITICAL AREAS, SECURE SOD WITH NETTING USING STAPLES.

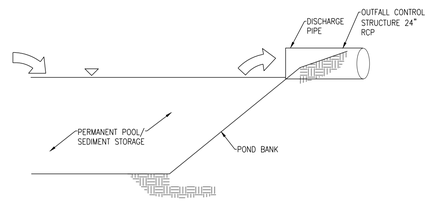
USE PEGS OR STAPLES TO FASTEN SOD FIRMLY -- AT THE ENDS OF STRIPS AND IN THE CENTER, OR EVERY 3-4 FEET IF THE STRIPS ARE LONG. WHEN READY TO MOW, DRIVE PEGS OR STAPLES FLUSH WITH THE GROUND.

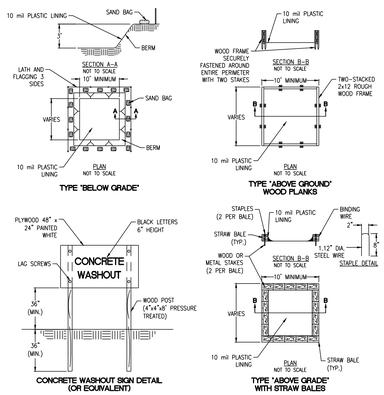
SODDED WATERWAYS

NOT TO SCALE

49 RATIONAL FOR DEWATERING FROM TOP

THIS PROJECT WILL UTILIZE A PERMANENT DETENTION POND FOR SEDIMENT STORAGE WITH WATER SURFACE ELEVATION CONTROL. A 24" RCP WILL MAINTAIN WATER SURFACE ELEVATION, NOT A RISER THEREFORE A SKIMMER CANNOT REPLACE THE PIPE. BY NATURE, THE PIPE OUTFALL DOES DISCHARGE FROM THE TOP SURFACE OF THE PERMANENT POOL WHICH WILL BE USED FOR SEDIMENT STORAGE, AS CAN BE SEEN IN DIAGRAM BELOW. THE PIPE DEWATERS WHEN INCREASED WATER LEVEL PASSES OVER ITS INVERT FROM THE TOP SURFACE OF THE POOL. SEDIMENT HAS NO MORE CHANCE OF ENTERING THE INVERT OF THE WEIR AS ENTERING THE ORIFICE OF A SKIMMER.





CONCRETE WASHOUT DETAIL

NOTES:
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.
5. MUST BE LOCATED >50 FT AWAY FROM INLETS/WATERWAYS UNLESS THERE IS NO OTHER PRACTICAL ALTERNATIVE.

DESIGN PROFESSIONAL'S CREDENTIALS:

ENGINEER'S NAME (PRINTED):	DOUGLAS FAIRCLOTH, PE
GEORGIA PE NUMBER:	042072
GSWCC LEVEL II CERTIFICATION NUMBER:	27405

NRCS ORIGINAL SUBMITTAL:	08/16/2023
NRCS SECOND SUBMITTAL:	12/14/2023

COLEMAN COMPANY
ENGINEERS • SURVEYORS
Savannah, Georgia | (912) 200-3041 | COLSAV.COM

GEORGIA REGISTERED PROFESSIONAL DOUGLAS L. FAIRCLOTH 042072 PROFESSIONAL ENGINEER 10/24/24

REVISIONS:
09.24.2024 PER CITY COMMENTS
12.04.2024 PER HGB COMMENTS
12.18.2024 PER CITY & HGB COMMENTS
01.14.2025 ACCESS ROAD REVISION
02.25.2025 PER CITY COMMENTS

ES&PC CONTROL PLANS FOR
DST TRAILER YARD
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER: 23-142
DATE: 10/16/24
DRAWN BY: CLM
CHECKED BY: DLF
SCALE: AS NOTED

EROSION CONTROL DETAILS

SHEET: CE4.1

811 Know what's below. Call before you dig.

INITIAL 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.

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 EXIT 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:

1. 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 EXIT(S). ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE INITIAL PHASE EROSION CONTROL PLAN.

3. TYPE 'NS' & 'S', IF REQUIRED, AND TYPE 'S' AS APPLICABLE, SILT FENCE SHALL BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6-27.2. THE SILT FENCE SHALL BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHALL BE REMOVED WHEN ACCUMULATION REACHED ½ THE HEIGHT OF THE BARRIER. THE PERIMETER SILT FENCE SHALL 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 SHALL BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHALL BE REPAIRED IMMEDIATELY.

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 MEASURES, 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 INTERMEDIATE 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.

INTERMEDIATE PHASE
THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE INTERMEDIATE PHASE OF CONSTRUCTION.

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.

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 SHALL BE INSTALLED AT THE TOE OF ALL FILL SLOPES 10 FEET OR GREATER IN HEIGHT. THE SILT FENCE SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL FOR EROSION CONTROL IN GEORGIA, TABLE 6.27.1. THE SILT FENCE SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED ON THE SLOPE. SILT FENCE SHALL BE REMOVED WHEN ACCUMULATION REACHES ½ 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"

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 INTERMEDIATE PHASE EROSION CONTROL PLAN.

ALL SILT FENCE MUST MEET THE REQUIREMENTS OF SECTION 171- SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, STANDARD SPECIFICATIONS, CONSTRUCTION OF TRANSPORTATION SYSTEMS 2013 EDITION.

ALL ITEMS IN THIS SECTION OF THE SPECIFICATIONS SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTION 161, 162, 163, AND 165 OF THE GEORGIA D.O.T. STANDARD SPECIFICATIONS, CONSTRUCTION OF TRANSPORTATION SYSTEMS, 2013 EDITION.

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

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

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.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING 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 PROPERLY.

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 AS DIRECTED BY THE ON-SITE INSPECTOR OR THE CIVIL ENGINEER.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

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.

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

INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL STORM STRUCTURES AS THEY ARE CONSTRUCTED. SEE PLAN VIEW FOR SPECIFIC TYPE AND SEPARATE DETAILS FOR ADDITIONAL INFORMATION.

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

E,S&PC PLAN CHECKLIST NUMBER

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

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.

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

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

THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE HALF WAY POINT ON THE RISER OR THE SPECIFIED ELEVATION ON THE CLEANOUT STAKE.

AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAVE 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 SEPARATE DETAIL FOR ADDITIONAL INFORMATION.

ALL AREAS ADJACENT TO ROADWAY AND PARKING AREAS SHOULD HAVE A VEGETATIVE COVER APPLIED AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.

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.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING 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 PROPERLY.

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 AS DIRECTED BY THE ON-SITE INSPECTOR OR THE CIVIL ENGINEER.

FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.

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.

UPON COMPLETION OF THE PROJECT AND RECEIPT OF A CERTIFICATE OF OCCUPANCY OR FINAL ACCEPTANCE OF THE SITE, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.

PERMIT COVERAGE
THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF 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 STAND ALONE CONSTRUCTION.

AUTHORIZED DISCHARGES
1. ALL DISCHARGES OF STORM WATER ASSOCIATED WITH STAND ALONE CONSTRUCTION PROJECTS THAT WILL RESULT IN LAND DISTURBANCE EQUAL TO OR GREATER THAT ONE ACRE. PART I.C.1.

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.

3. AUTHORIZED MIXED STORM WATER DISCHARGES: PART 1.C.2
   A. THE INDUSTRIAL SOURCE OR ACTIVITY OTHER THAN CONSTRUCTION IS LOCATED ON THE SAME SITE AS THE CONSTRUCTION ACTIVITY AND IS AN INTEGRAL PART OF THE CONSTRUCTION ACTIVITY.

   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.

   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 I.C.3
1. THE FOLLOWING STORM WATER DISCHARGES FROM CONSTRUCTION SITES ARE NOT AUTHORIZED BY THIS PERMIT:

   A. STORM WATER DISCHARGES ASSOCIATED WITH AN INDUSTRIAL ACTIVITY THAT ORIGINATE FROM THE SITE AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION.

   B. DISCHARGES THAT ARE MIXED WITH SOURCES OF NON-STORMWATER OTHER THAN DISCHARGES WHICH ARE IDENTIFIED IN PART III.A.2 OF THIS PERMIT AND WHICH ARE IN COMPLIANCE WITH PART IV.D.7 (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 BE 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. THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORMWATER DISCHARGE(S) FROM A SITE SHALL BE PRVENTED . THIS PERMIT DOES NOT RELIEVE THE PERMITTEE OF THE REPORTING REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIALS SPILLS OR RELEASE ACT (O.C.G.A 12-14-2 ET SEQ), 40 CFR PART 117 AND 40 CFR PART 302. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A 12-14-2, ET SEQ.), 40 CFR 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, AND THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802. PART III.B.1

3. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ON-SITE SPILL. PART III.B.2

NO DISCHARGES AUTHORIZED BY THIS PERMIT SHALL CAUSE VIOLATIONS OF GEORGIA'S IN-STREAM WATER QUALITY STANDARDS AS PROVIDED BY THE RULES AND REGULATIONS FOR WATER QUALITY CONTROL, CHAPTER 391-3-6-03. WATER QUALITY COMPLIANCE PART I.C.4

DESIGN PROFESSIONAL'S CREDENTIALS:

ENGINEER'S NAME (PRINTED):	DOUGLAS FAIRCLOTH, PE
GEORGIA PE NUMBER:	042072
GSWCC LEVEL II CERTIFICATION NUMBER:	27405

NRCS ORIGINAL SUBMITTAL:	08/16/2023
NRCS SECOND SUBMITTAL:	12/14/2023

29 TENTATIVE ACTIVITY SCHEDULE

CONSTRUCTION DATES: Oct. 26, 2023 - Apr. 26,2024	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6
CONSTRUCTION EXIT (Co)	■					
SILT FENCE AND OTHER ES&PC PRACTICES	■	■	■	■	■	■
RETROFIT (Rt)		■	■	■	■	■
INLET SEDIMENT TRAP (Sd2)		■	■	■	■	■
CLEARING AND GRUBBING		■	■	■		
GRADING / UTILITY		■	■	■	■	
DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) (Ds2)		■	■	■	■	
FINE GRADING AND PAVING						■
BUILDING CONSTRUCTION	■	■	■	■	■	■
DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION) (Ds3)		■	■	■	■	■
LANDSCAPE INSTALLATION						■
MAINTENANCE OF ES&PC BMP's	■	■	■	■	■	■

THE ESCAPE OF SEDIMENTS FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

SAMPLING REQUIREMENTS PART IV.D.6
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 STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

1. SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.

2. LARGE MOUTH, CLEAN AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATIONS.

3. IDEALLY THE 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 IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FURTHEST 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 DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORMWATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E. THE DISCHARGE FARTHERMOST 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 DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER.

12. SAMPLES ARE NOT REQUIRED TO BE COOLED.

13. SAMPLES 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.

14. TURBIDITY RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS " EXCEEDS 1000 NTU."

SAMPLING FREQUENCY PART IV.D.6.D
1. SAMPLING FREQUENCY SHALL OCCUR IN ACCORDANCE WITH PART IV.D.6.D (3) OF THE PERMIT.

2. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN FORTY-FIVE (45) MINUTES OF OR AS SOON AS POSSIBLE:

   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 IMPOSSIBLE (AS DEFINED 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 DEFINED BY THE PERMIT, ARE MONDAY THROUGH FRIDAY, 8:00 AM TO 5:00 PM EXCLUDING ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY & NON-WORKING FEDERAL HOLIDAY.

3. SAMPLING SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL:

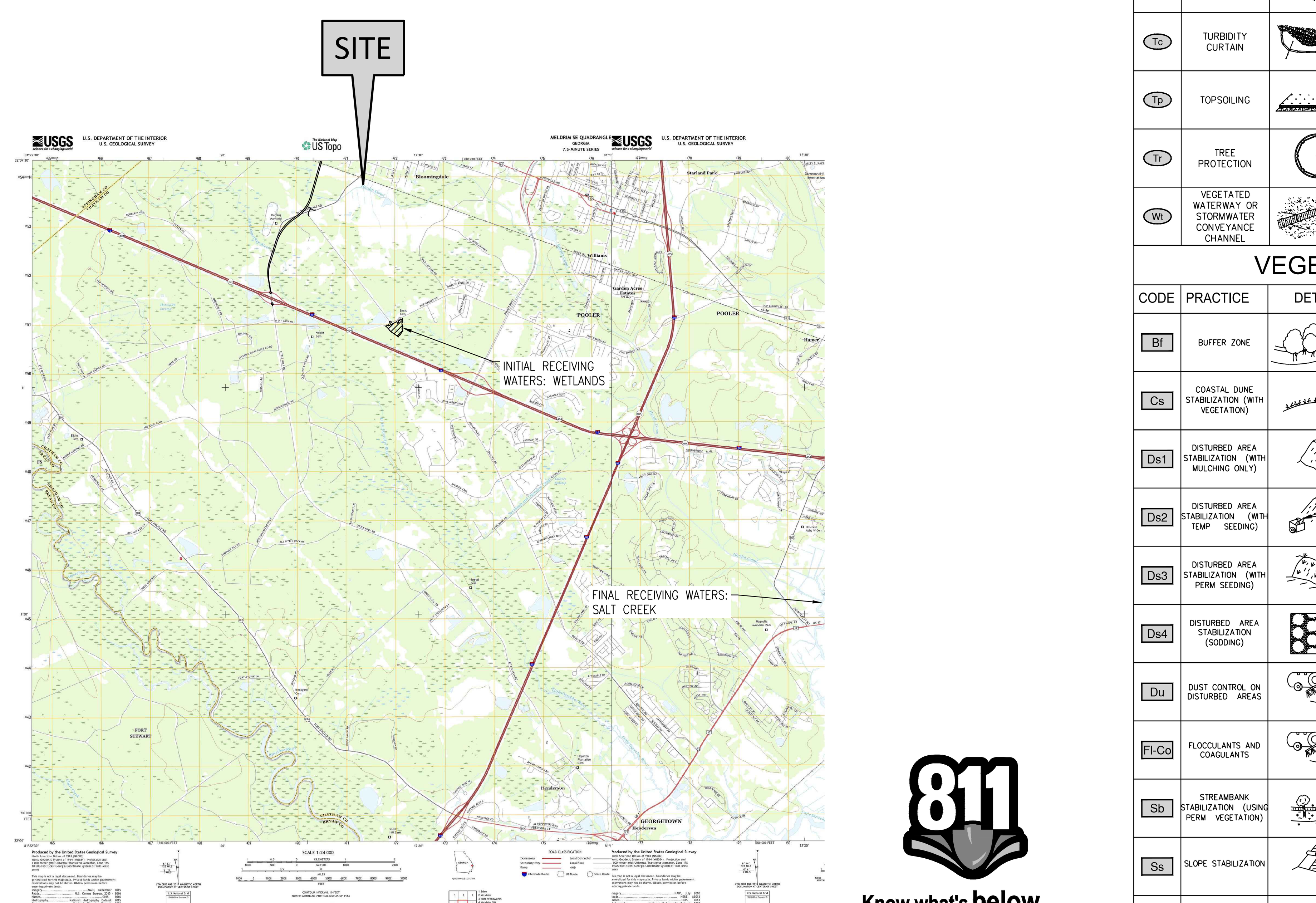
   A. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORMWATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT 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 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 STORMWATER 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 N.O.T., IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST.

4. 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 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.

5. NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF NO. 3.A AND NO. 3.B 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."

15 "NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 5O-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS."



Know what's below. Call before you dig.

GEORGIA UNIFORM CODING SYSTEM FOR SOIL AND SEDIMENT CONTROL PRACTICES

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT		Co (LABEL)	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 roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			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 (LABEL)	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		Dn2 (LABEL)	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE		Gr (LABEL)	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			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			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL		Re (LABEL)	A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING		Rt (LABEL)	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		(INDICATE TYPE)	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 silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN		Sd3 (LABEL)	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			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 or riser.
Sk	FLOATING SURFACE SKIMMER		Sk (LABEL)	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 (LABEL)	Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.
Sr	TEMPORARY STREAM CROSSING		Sr (LABEL)	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN 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.
Tc	TURBIDITY CURTAIN		Tc	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING		Tp (SHOW STRIPING AND STORAGE AREAS)	The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION		(DENOTE TREE CENTERS)	To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE		Bf (LABEL)	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 seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS		Fl-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)		Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

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GEORGIA REGISTERED No. PE042072 PROFESSIONAL ENGINEER DOUGLAS L. FAIRCLOTH 10/21/24

REVISIONS:
- 09.24.2024 PER CITY COMMENTS
- 12.04.2024 PER HGB COMMENTS
- 12.18.2024 PER CITY & HGB COMMENTS
- 01.14.2025 ACCESS ROAD REVISION
- 02.25.2025 PER CITY COMMENTS

ES&PC CONTROL PLANS FOR
DST TRAILER YARD
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
CHECKED BY:	DLF
SCALE:	AS NOTED

NPDES PERMIT NOTES

SHEET: CE5.0

4 TWENTY-FOUR HOUR CONTACT RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL
C MATTHEWS
827 FAIRWAYS COURT, SUITE 110
STOCKBRIDGE, GA 30281
888-872-4537

5 PRIMARY PERMITTEE / DEVELOPER / OWNER
DST DUVAL SEMI TRAILERS
827 FAIRWAYS COURT, SUITE 110
STOCKBRIDGE, GA 30281
888-872-4537
cmatthews@rentdst.com

6 THE TOTAL ACREAGE FOR THE SITE IS 68.78 ACRES
DISTURBED ACREAGE IN THIS PHASE IS 16.60 ACRES

7 THE GPS LOCATION OF THE CONSTRUCTION EXIT FOR THE SITE IS N32.094770° LATITUDE, W81.298783° LONGITUDE

9 DESCRIPTION AND NATURE OF THE CONSTRUCTION ACTIVITY AND EXISTING SITE CONDITIONS
THIS SITE WILL BE USED AS A CONCRETE TRAILER YARD. THE EXISTING CONDITIONS FOR THIS SITE IS UNDISTURBED.

11 STORM WATER LEAVES THIS SIGHT WITH WETLANDS AS THE INITIAL RECEIVING WATERS. THE STORM WATER IS CONVEYED THROUGH A SERIES OF DRAINAGE DITCHES WHERE IT OUTFALLS INTO SALT CREEK AS THE FINAL RECEIVING WATERS.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Douglas L. Faircloth, PE
DOUGLAS FAIRCLOTH, PE - DESIGN PROFESSIONAL - GSWCC LEVEL II CERTIFICATION NUMBER: 27405

12 I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR BY MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

Douglas L. Faircloth, PE
DOUGLAS FAIRCLOTH, PE - DESIGN PROFESSIONAL - GSWCC LEVEL II CERTIFICATION NUMBER: 27405

13 I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001.

Douglas L. Faircloth, PE
DOUGLAS FAIRCLOTH, PE - DESIGN PROFESSIONAL - GSWCC LEVEL II CERTIFICATION NUMBER: 27405

14 FOR STAND ALONE PROJECTS THAT BEGIN CONSTRUCTION ACTIVITY AFTER THE EFFECTIVE DATE OF THIS PERMIT, THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR AN ALTERNATIVE DESIGN PROFESSIONAL APPROVED BY EPD IN WRITING, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMPS HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION
DATE OF INSPECTION: ????

I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES&PC PLAN ON THE DATE OF INSPECTION.

____

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&PC PLAN:
____
____
____
____

THESE DEFICIENCIES MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

15 "NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 5O-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS."

ADDITIONAL SITE/EROSION CONTROL NOTES:

16

A. ZONING: THE PRESENT ZONING CLASSIFICATION FOR THIS SITE IS I-1. PIN(S): 51032 01013
B. BUFFER REQUIREMENTS: AS REQUIRED BY ARTICLES 15 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 SHALL BE KEPT TO AN ABSOLUTE MINIMUM. VEGETATION AND MULCH SHALL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER GRADING IS COMPLETED. GRAVEL SHALL BE APPLIED TO PARKING AREAS AND ROADWAYS AS SOON AS GRADING IS COMPLETED. LAND SHALL BE SCHEDULED TO LIMIT EXPOSURE OF BARE SOILS TO EROSION ELEMENTS. STORM WATER MANAGEMENT STRUCTURES SHALL BE EMPLOYED TO PREVENT EROSION IN AREAS OF CONCENTRATED WATER FLOWS. EROSION AT THE EXITS OF ALL STORM WATER STRUCTURES SHALL BE PREVENTED BY THE INSTILLATION OF STORM DRAIN OUTLET PROTECTION DEVICES.
D. STANDARDS AND SPECIFICATIONS: ALL DESIGNS SHALL CONFORM TO AND ALL WORK SHALL 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 SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LAWS, RULES AND REGULATIONS.
F. MAINTENANCE PROGRAM: SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED DAILY. ANY DAMAGES OBSERVED SHALL BE REPAIRED BY THE END OF THAT DAY. CLEANOUT OF SEDIMENT CONTROL STRUCTURES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATIONS AND SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON THE SITE. BARRIERS SHALL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. THE SEDIMENT FENCES, AND THE BARRIERS SHALL THEN BE REMOVED AND THE AREAS OCCUPIED BY THESE DEVICES SHALL THEN BE VEGETATED. GUIDELINES FOR THE MAINTENANCE OF ESTABLISHED VEGETATION SHALL BE PROVIDED TO THE OWNER WHEN ALL DISTURBED AREAS ARE STABILIZED.
G. EROSION CONTROL MEASURES SHALL 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, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE OWNER.
I. BASED ON MY OBSERVATION THIS PROPERTY IS LOCATED IN ZONE I-1, IS NOT A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP NUMBERS 13051C0106G DATED FEBRUARY 8, 2018 AND 13051C0108G DATED FEBRUARY 8, 2018.
J. THERE ARE NO STATE WATERS LOCATED ON OR WITHIN 200' OF THIS SITE.
K. THE POINT OF CONTACT FOR CIVIL SITE WORK FOR THIS PROJECT IS:

DOUG FAIRCLOTH, PE
COLEMAN COMPANY
1480 CHATHAM PARKWAY, SUITE 100
SAVANNAH, GA 31405
(912) 200-3041

16 **THERE ARE NO BUFFER ENCROACHMENTS ON THIS SITE.**

17 "AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL."

18 "WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT."

19 " THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES."

20 " 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."

21 " ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING."

22 THIS CONSTRUCTION ACTIVITY WHICH DOES NOT DISCHARGE STORMWATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT MUST COMPLY WITH PART III. C. OF THE PERMIT. (INCLUDE THE COMPLETED APPENDIX 1 LISTING ALL THE BMPS THAT WILL BE USED FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO THE IMPAIRED STREAM SEGMENT.)

23 IF A TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS BEEN FINALIZED FOR THE IMPAIRED STREAM SEGMENT (IDENTIFIED IN ITEM 23 OF THE EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN CHECKLIST) AT LEAST SIX MONTHS PRIOR TO SUBMITTAL OF N.O.I., THE ES&PC PLAN MUST ADDRESS ANY SITE-SPECIFIC CONDITIONS OR REQUIREMENTS INCLUDED IN THE TMDL IMPLEMENTATION PLAN.

24 WASH DOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND THE REAR OF THE VEHICLES SHALL BE ALLOWED AT THE CONCRETE WASHOUT AREA, TO BE DESIGNATED IN THE FIELD BY THE CONTRACTOR. WASHOUT OF THE CONCRETE MIXER'S DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

25 **SPILL CLEANUP AND CONTROL PRACTICES**

- LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND PROCEDURES SHALL BE MADE AVAILABLE TO SITE PERSONNEL.
- MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
- SPILL PREVENTION PRACTICES AND PROCEDURES SHALL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS SHALL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
- FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED WITH IN 24 HOURS AT 1-800-424-8802.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE EPD SHALL BE CONTACTED WITHIN 24 HOURS AT (800) 241-4113 OR (404) 656-4863
- FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL SHALL BE CLEANED UP AND LOCAL AGENCIES SHALL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM ARE STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR SHALL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

26 MEASURES THAT SHALL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT SHALL REMAIN IN PLACE AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED: RIP-RAP OUTFALL APRON (ST), PERMANENT VEGETATIVE STABILIZATION (DS3).
THE SITE SHALL UTILIZE A SERIES OF PRACTICAL BMP'S. GRADES AND INLETS SHALL BE USED TO CONVEY THE STORM WATER TO THE PROPOSED WET DETENTION POND. THE POND IS A CONSTRUCTED BASIN THAT CONTAINS A PERMANENT POOL OF WATER AND TREATS POLLUTED STORM WATER RUNOFF VIA SETTLEMENT. THE WET DETENTION POND DETAINS THE STORM WATER RUNOFF LONG ENOUGH FOR CONTAMINATED SEDIMENTS TO SETTLE AND REMAIN IN THE POND, AS IT EVENTUALLY OUTFALLS THROUGH A SLOTTED BOARD RETROFIT. THIS SETTLEMENT PROCESS REMOVES PARTICULATES, ORGANIC MATTER, AND METALS FROM THE WATER WHILE NUTRIENTS ARE REMOVED THROUGH BIOLOGICAL UPTAKE. THE WET DETENTION POND SHALL OUTLET THE STORM WATER RUNOFF AT A SIGNIFICANTLY REDUCED RATE.

27 **PRODUCT SPECIFIC PRACTICES**

-CONTRACTOR SHALL MAINTAIN WEATHER-PROOF COVER FOR ALL BUILDING MATERIALS AND PRODUCTS STORED ON SITE.
-PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS SHALL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS SHALL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS SHALL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
-PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS SHALL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT SHALL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS SHALL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
-CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS SHALL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.
-FERTILIZER/HERBICIDES - THESE PRODUCTS SHALL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS SHALL BE UNDER ROOF IN SEALED CONTAINERS.
BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS SHALL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL SHALL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

28 **PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES AFTER COMPLETION OF CONSTRUCTION ACTIVITIES**

1. PERMANENT SEEDING: THE SITE SHALL BE STABILIZED UTILIZING PERMANENT SEEDING TO PRE-TREAT THE STORMWATER RUNOFF PRIOR TO ENTERING THE DOWNSTREAM CONVEYANCE BY REMOVING SEDIMENT AS WELL AS ANY ATTACHED CHEMICALS FROM RUNOFF. PERMANENT SEEDING ALSO PREVENTS EROSION, REDUCES THE VOLUME AND VELOCITY OF THE RUNOFF AND IMPROVES WATER QUALITY.
2. TEMPORARY DIVERSION DITCHES WILL ACT AS NATURAL BIOFILTERS TO REDUCE STORM WATER VELOCITY AND POLLUTANT LOAD PRIOR TO RELEASE OF THE RUNOFF INTO THE DOWNSTREAM CONVEYANCE. THIS IS ACCOMPLISHED VIA INFILTRATION AND SETTLEMENT.
3. WET POND: THE PERMANENT POOL OF THE WET POND ENHANCES PARTICULATE SETTLING BY INCREASING RESIDENCE TIME AND WILL EFFECTIVELY HAVE AN 80% TSS REMOVAL RATE, BY ALLOWING SETTLEMENT OF THE SEDIMENT AND OTHER POLLUTANTS THAT ARE TRANSFERRED TO THE POND VIA OTHER CONVEYANCES, THUS ELIMINATING THE RELEASE INTO AND IMPROVING THE WATER QUALITY OF THE DOWNSTREAM CONVEYANCE. WET PONDS ALSO SIGNIFICANTLY REDUCE THE VOLUME AND THE VELOCITY OF THE RUNOFF CONTRIBUTING TO THE DOWNSTREAM CONVEYANCE.

30 **INSPECTIONS REQUIREMENTS BY THE PERMITTEE:**

A. PRIMARY PERMITTEE REQUIREMENTS.

(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(2). MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. 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 PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(5). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL) , MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5) . OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2 OF THIS PERMIT.

31 REPORTING.

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.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 USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY THE EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
2. 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;
   c. THE DATE(S) ANALYSES WERE PERFORMED;
   d. THE TIME(S) ANALYSES WERE INITIATED ;
   e. 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 APPLICABLE 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.

32 RETENTION OF RECORDS

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
   a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
   b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
   c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
   d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
   e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
   f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND
   g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT.
2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION , INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS 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.

33 **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 SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FINE (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 DEVELOPMENT; (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) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING 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-B-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), 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.
(C). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING 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 III.D.3. OR III.D.4.., WHICHEVER IS APPLICABLE.

*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.

33 SAMPLE ANALYSIS

STORM WATER SHALL BE SAMPLED FOR NEPHLOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION. THE 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 , THE VALUE SELECTED FROM APPENDIX B IN PERMIT NO. GAR100001. THE NTU IS BASED UPON THE SITE ACREAGE OF 68.78 AC FOR THE CONSTRUCTION SITE, THE SURFACE WATER DRAINAGE AREA OF <4.99 SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

34 APPENDIX B
NEPHELOMETRIC TURBIDITY UNIT (NTU) TABLES - WARM WATER (SUPPORTING WARM WATER FISHERIES)
STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION, PAGE 46 OF 46, PERMIT NO. GAR100001

		SURFACE WATER DRAINAGE AREA (SQUARE MILES)							
		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
SITE SIZE (ACRES)	1.00-10	75	150	200	400	750	750	750	750
	10.01-25	50	100	100	200	300	500	750	750
	25.01-50	50	50	100	100	200	300	750	750
	50.01-100	50	50	50	100	100	150	300	600
	100.01+	50	50	50	50	50	100	200	100

REFER TO GA DEPARTMENT OF NATURAL RESOURCES ENVIRONMENTAL PROTECTION DIVISION GENERAL PERMIT NO. GAR100001 FOR STAND ALONE FOR DEFINITIONS AND DETAILS.

45 ESTIMATED PEAK DISCHARGE OR RUNOFF CURVE NUMBER FOR PRE AND POST CONDITIONS:

	PRE	POST
10 YEAR	30.50	21.34
100 YEAR	61.83	57.86

RUNOFF CURVE NUMBER	
PRE-DEVELOPED	77
POST-DEVELOPED	97
(SCS METHOD USED FOR LARGE SITE)	

47 THE EXISTING SITE HAS THE FOLLOWING SOILS:
CAPE FEAR SOILS (Cc), ELLABELLE LOAMY SAND (El), MASCOTTE SAND (Mn) AND OCILLA COMPLEX (Oj)

DESIGN PROFESSIONAL'S CREDENTIALS:

ENGINEER'S NAME (PRINTED):	DOUGLAS FAIRCLOTH, PE
GEORGIA PE NUMBER:	042072
GSWCC LEVEL II CERTIFICATION NUMBER:	27405

NRCS ORIGINAL SUBMITTAL:	08/16/2023
NRCS SECOND SUBMITTAL:	12/14/2023

811
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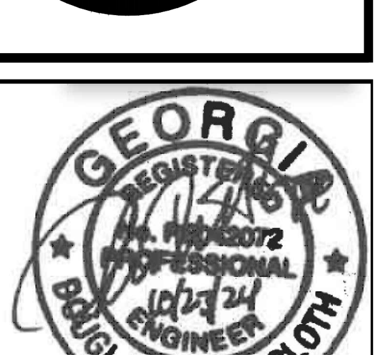


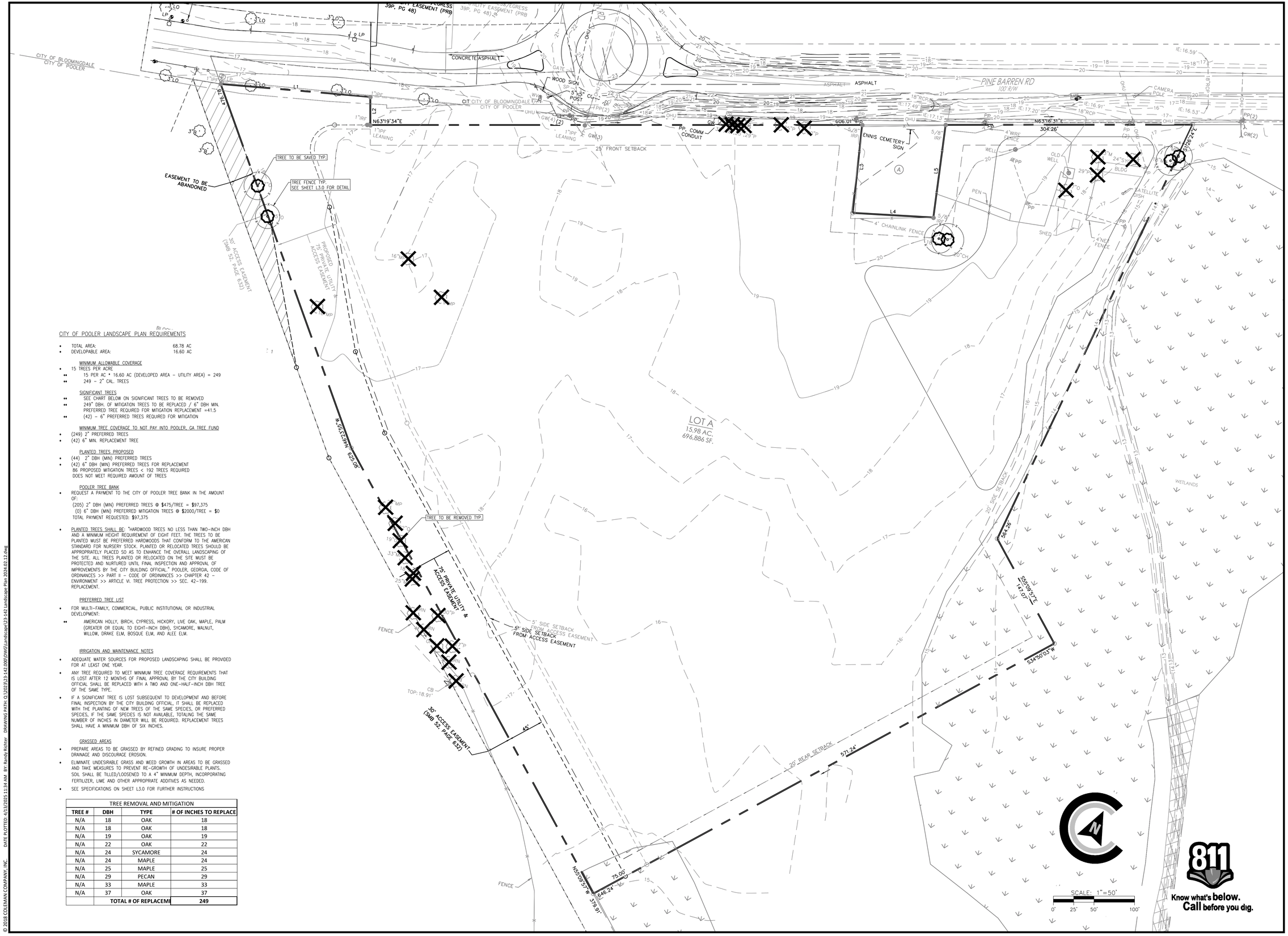
REVISIONS:
09.24.2024 PER CITY COMMENTS
12.04.2024 PER HGB COMMENTS
12.18.2024 PER CITY & HGB COMMENTS
01.14.2025 ACCESS ROAD REVISION
02.25.2025 PER CITY COMMENTS

ES&PC CONTROL PLANS FOR
DST TRAILER YARD
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	10/16/24
DRAWN BY:	CLM
CHECKED BY:	DLF
SCALE:	AS NOTED

NPDES PERMIT NOTES

SHEET:
CE5.1



CITY OF POOLER LANDSCAPE PLAN REQUIREMENTS

- TOTAL AREA: 68.78 AC
- DEVELOPABLE AREA: 16.60 AC

MINIMUM ALLOWABLE COVERAGE

- 15 TREES PER ACRE
  - 15 PER AC * 16.60 AC (DEVELOPED AREA – UTILITY AREA) = 249
  - 249 – 2" CAL. TREES

SIGNIFICANT TREES

- SEE CHART BELOW ON SIGNIFICANT TREES TO BE REMOVED
- 249" DBH, OF MITIGATION TREES TO BE REPLACED / 6" DBH MIN. PREFERRED TREE REQUIRED FOR MITIGATION REPLACEMENT =41.5
- (42) – 6" PREFERRED TREES REQUIRED FOR MITIGATION

MINIMUM TREE COVERAGE TO NOT PAY INTO POOLER, GA TREE FUND

- (249) 2" PREFERRED TREES
- (42) 6" MIN. REPLACEMENT TREE

PLANTED TREES PROPOSED

- (44) 2" DBH (MIN) PREFERRED TREES
- (42) 6" DBH (MIN) PREFERRED TREES FOR REPLACEMENT
  86 PROPOSED MITIGATION TREES < 192 TREES REQUIRED
  DOES NOT MEET REQUIRED AMOUNT OF TREES

POOLER TREE BANK

- REQUEST A PAYMENT TO THE CITY OF POOLER TREE BANK IN THE AMOUNT OF:
  (205) 2" DBH (MIN) PREFERRED TREES @ $475/TREE = $97,375
  (0) 6" DBH (MIN) PREFERRED MITIGATION TREES @ $2000/TREE = $0
  TOTAL PAYMENT REQUESTED: $97,375

- PLANTED TREES SHALL BE: "HARDWOOD TREES NO LESS THAN TWO-INCH DBH AND A MINIMUM HEIGHT REQUIREMENT OF EIGHT FEET. THE TREES TO BE PLANTED MUST BE PREFERRED HARDWOODS THAT CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK. PLANTED OR RELOCATED TREES SHOULD BE APPROPRIATELY PLACED SO AS TO ENHANCE THE OVERALL LANDSCAPING OF THE SITE. ALL TREES PLANTED OR RELOCATED ON THE SITE MUST BE PROTECTED AND NURTURED UNTIL FINAL INSPECTION AND APPROVAL OF IMPROVEMENTS BY THE CITY BUILDING OFFICIAL." POOLER, GEORGIA, CODE OF ORDINANCES >> PART II – CODE OF ORDINANCES >> CHAPTER 42 – ENVIRONMENT >> ARTICLE VI. TREE PROTECTION >> SEC. 42-199. REPLACEMENT.

PREFERRED TREE LIST

- FOR MULTI-FAMILY, COMMERCIAL, PUBLIC INSTITUTIONAL OR INDUSTRIAL DEVELOPMENT:
  - AMERICAN HOLLY, BIRCH, CYPRESS, HICKORY, LIVE OAK, MAPLE, PALM (GREATER OR EQUAL TO EIGHT-INCH DBH), SYCAMORE, WALNUT, WILLOW, DRAKE ELM, BOSQUE ELM, AND ALEE ELM.

IRRIGATION AND MAINTENANCE NOTES

- ADEQUATE WATER SOURCES FOR PROPOSED LANDSCAPING SHALL BE PROVIDED FOR AT LEAST ONE YEAR.
- ANY TREE REQUIRED TO MEET MINIMUM TREE COVERAGE REQUIREMENTS THAT IS LOST AFTER 12 MONTHS OF FINAL APPROVAL BY THE CITY BUILDING OFFICIAL SHALL BE REPLACED WITH A TWO AND ONE-HALF-INCH DBH TREE OF THE SAME TYPE.
- IF A SIGNIFICANT TREE IS LOST SUBSEQUENT TO DEVELOPMENT AND BEFORE FINAL INSPECTION BY THE CITY BUILDING OFFICIAL, IT SHALL BE REPLACED WITH THE PLANTING OF NEW TREES OF THE SAME SPECIES, OR PREFERRED SPECIES, IF THE SAME SPECIES IS NOT AVAILABLE, TOTALING THE SAME NUMBER OF INCHES IN DIAMETER WILL BE REQUIRED. REPLACEMENT TREES SHALL HAVE A MINIMUM DBH OF SIX INCHES.

GRASSED AREAS

- PREPARE AREAS TO BE GRASSED BY REFINED GRADING TO INSURE PROPER DRAINAGE AND DISCOURAGE EROSION.
- ELIMINATE UNDESIRABLE GRASS AND WEED GROWTH IN AREAS TO BE GRASSED AND TAKE MEASURES TO PREVENT RE-GROWTH OF UNDESIRABLE PLANTS. SOIL SHALL BE TILLED/LOOSENED TO A 4" MINIMUM DEPTH, INCORPORATING FERTILIZER, LIME AND OTHER APPROPRIATE ADDITIVES AS NEEDED.
- SEE SPECIFICATIONS ON SHEET L3.0 FOR FURTHER INSTRUCTIONS

TREE REMOVAL AND MITIGATION

TREE #	DBH	TYPE	# OF INCHES TO REPLACE
N/A	18	OAK	18
N/A	18	OAK	18
N/A	19	OAK	19
N/A	22	OAK	22
N/A	24	SYCAMORE	24
N/A	24	MAPLE	24
N/A	25	MAPLE	25
N/A	29	PECAN	29
N/A	33	MAPLE	33
N/A	37	OAK	37
	TOTAL # OF REPLACEM		249

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GEORGIA REGISTERED No. 1923 PROFESSIONAL LANDSCAPE ARCHITECT JAY M GEHLER
JAY M GEHLER
10/25/23

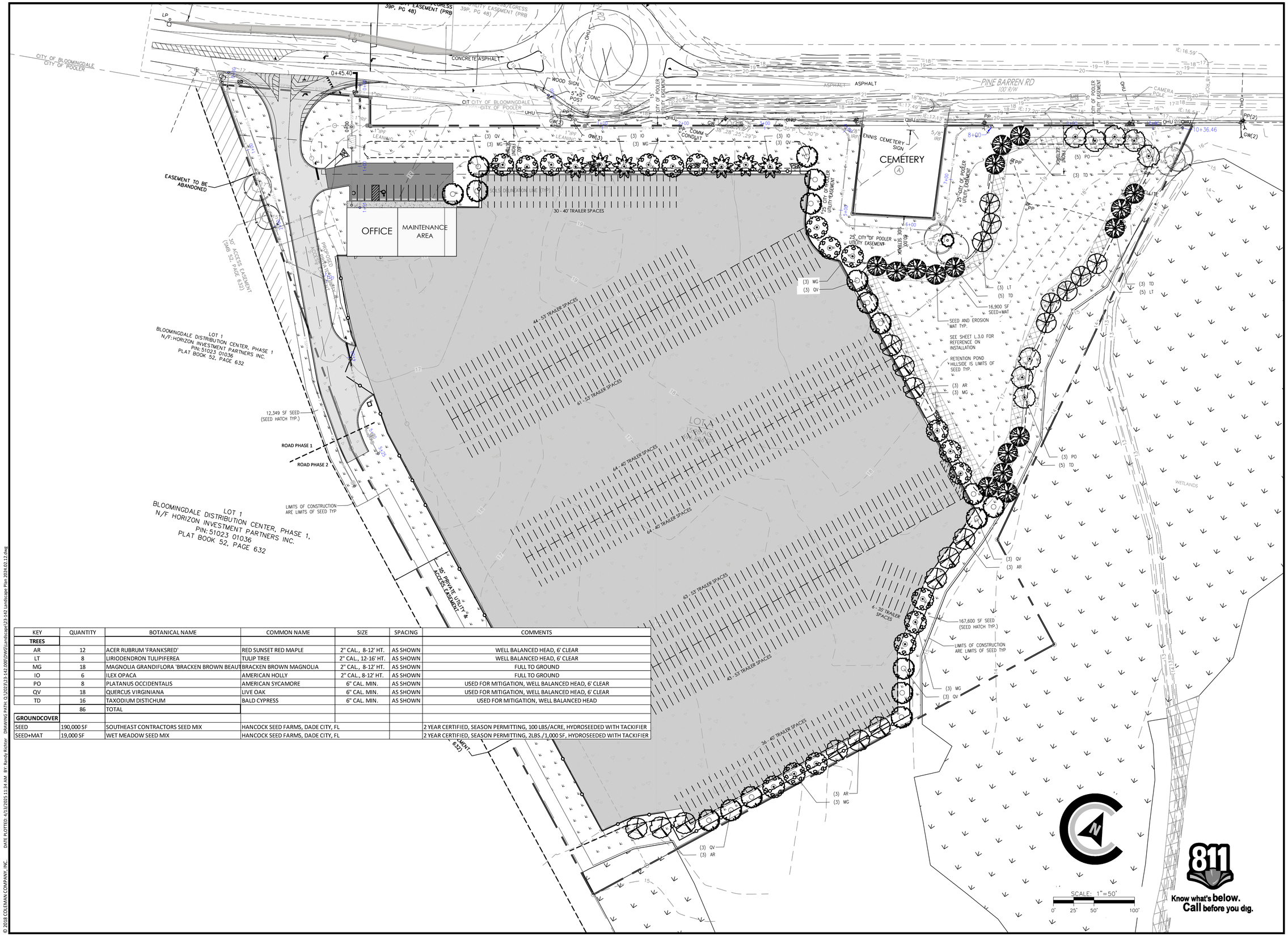
REVISIONS:
09.24.2024 PER CITY COMMENTS
01.14.2025 ACCESS ROAD REVISION
02.25.2025 PER CITY COMMENTS

LANDSCAPE PLANS FOR
DST TRAILER YARD
PHASE 1
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	12/12/23
DRAWN BY:	MRC
CHECKED BY:	JMG
SCALE:	AS NOTED

EXISTING CONDITIONS

SHEET:
L1.0



KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	COMMENTS
TREES						
AR	12	ACER RUBRUM 'FRANKSRED'	RED SUNSET RED MAPLE	2" CAL., 8-12' HT.	AS SHOWN	WELL BALANCED HEAD, 6' CLEAR
LT	8	LIRIODENDRON TULIPIFEREA	TULIP TREE	2" CAL., 12-16' HT.	AS SHOWN	WELL BALANCED HEAD, 6' CLEAR
MG	18	MAGNOLIA GRANDIFLORA 'BRACKEN BROWN BEAUT	BRACKEN BROWN MAGNOLIA	2" CAL., 8-12' HT.	AS SHOWN	FULL TO GROUND
IO	6	ILEX OPACA	AMERICAN HOLLY	2" CAL., 8-12' HT.	AS SHOWN	FULL TO GROUND
PO	8	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	6" CAL. MIN.	AS SHOWN	USED FOR MITIGATION, WELL BALANCED HEAD, 6' CLEAR
QV	18	QUERCUS VIRGINIANA	LIVE OAK	6" CAL. MIN.	AS SHOWN	USED FOR MITIGATION, WELL BALANCED HEAD, 6' CLEAR
TD	16	TAXODIUM DISTICHUM	BALD CYPRESS	6" CAL. MIN.	AS SHOWN	USED FOR MITIGATION, WELL BALANCED HEAD
	86	TOTAL				
GROUNDCOVER						
SEED	190,000 SF	SOUTHEAST CONTRACTORS SEED MIX	HANCOCK SEED FARMS, DADE CITY, FL			2 YEAR CERTIFIED, SEASON PERMITTING, 100 LBS/ACRE, HYDROSEEDED WITH TACKIFIER
SEED+MAT	19,000 SF	WET MEADOW SEED MIX	HANCOCK SEED FARMS, DADE CITY, FL			2 YEAR CERTIFIED, SEASON PERMITTING, 2LBS./1,000 SF, HYDROSEEDED WITH TACKIFIER

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GEORGIA REGISTERED No. 1923 PROFESSIONAL LANDSCAPE ARCHITECT JAY M GEHLER
JAY M. GEHLER
02/25/25

REVISIONS:
09.24.2024 PER CITY COMMENTS
01.14.2025 ACCESS ROAD REVISION
02.25.2025 PER CITY COMMENTS

LANDSCAPE PLANS FOR
DST TRAILER YARD
PHASE 1
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	12/12/23
DRAWN BY:	MRC
CHECKED BY:	JMG
SCALE:	AS NOTED

LANDSCAPE PLAN

SHEET:
L2.0

DATE PLOTTED: 4/13/2025 11:34 AM BY: Randy Richter DRAWING PATH: Q:\2023\23-142.000\DWG\Landscape\23-142 Landscape Plan 2024.02.12.dwg

PLANTING NOTES

GENERAL:

1. CONTRACTOR SHALL BE KNOWLEDGEABLE OF ALL OTHER SITE IMPROVEMENTS PRIOR TO STARTING LANDSCAPE WORK AND SHALL PROMPTLY REPORT AN DISCREPANCIES.
2. CONTRACTOR SHALL USE CAUTION WHILE EXCAVATING TO AVOID DISTURBING ANY EXISTING UTILITIES. IF ANY ARE ENCOUNTERED. CONTRACTOR IS TO PROMPTLY ADVISE THE GENERAL CONTRACTOR, LANDSCAPE ARCHITECT, AND OWNER.
3. GENERAL SITE CONTRACTOR SHALL PROVIDE SUBGRADE TO WITHIN ½" OF FINISH GRADE.
4. ALL PLANTING SHALL ADHERE TO THE STANDARDS AS SPECIFIED IN CITY OF HARDEEVILLE ORDINANCE.

PLANT QUALITY:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TREES, SHRUBS, GROUNDCOVER, VINES AND SOD AS SHOWN ON LANDSCAPE PLAN. ALL PLANT MATERIALS SHALL CONFORM TO THE STANDARDS SET FORTH IN THE CURRENT EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK", PUBLISHED BY THE ASSOCIATION OF NURSERYMEN, 1250 I STREET, N.W. SUITE 500, WASHINGTON D.C. 20005, (202) 789-2900.
2. **ALL PLANT MATERIAL SHALL HAVE A ONE-YEAR WARRANTY UPON ACCEPTANCE BY THE OWNER.**
3. PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY, AND HAVE A NORMAL WELL-DEVELOPED BRANCHING STRUCTURE AND A VIGOROUS FIBROUS ROOT SYSTEM. PLANTS SHALL BE HEALTHY, VIGOROUS , AND FREE FROM INSECTS AND DISEASE. TREE TRUNKS NOT LOWER THAN FOUR FEET ABOVE THE GROUND, DEPENDENT ON THE SPECIES. TRUNKS AND STEMS SHALL BE FIRM WITH NO INDICATION OF FUNGAL CANKERS, GALLS, INSECT BORERS, DIE BACK, FROST CRACKS, SUN SCALD, OR OTHER DEFECTS THAT WOULD CAUSE THE TREE TO DECLINE OR BECOME STRUCTURALLY UNSOUND. TREES SHALL BE DENSELY FOLIATED WHEN IN LEAF.
4. ALL PLANTS SHALL BE COMMERCIALLY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE OF HARDEEVILLE, SC
5. ALL PLANTS SHALL EQUAL OR EXCEED THE MINIMUM SIZE AS SHOWN IN THE PLANT LIST, AND ALL METHODS OF PLANT MEASUREMENT SHALL CONFORM TO THE "AMERICAN STANDARD FOR NURSERY STOCK".
6. CALIPER OF MULTI-TRUNK TREES SHALL BE DETERMINED BY MEASURING THE LARGEST TRUNK ONLY.
7. **PLANTS SHALL BE SUBJECT TO INSPECTION FOR CONFORMITY TO SPECIFICATIONS AND REQUIREMENTS.** SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION DURING PROGRESS OF THE WORK. ACCEPTANCE AT THE NURSERY, IN WHICH THE PLANT IS GROWING PRIOR TO TRANSPLANTING, DOES NOT PRECLUDE REJECTION AT THE SITE FOR JUST CAUSE.

ROOT SYSTEM:

1. ALL TREE SHALL BE BALLED AND BURLAPPED (B&B) OR CONTAINER GROWN. NO BARE ROOT TREES SHALL BE ACCEPTABLE.
2. ALL SHRUBS SHALL BE BALLED AND BURLAPPED (B&B) OR CONTAINER GROWN. NOR BARE ROOT SHRUBS SHALL BE ACCEPTABLE.
3. THE MINIMUM SIZE OF BALLS, BALL DEPTHS, AND BALL DIAMETER SHALL CONFORM TO BALLING AND BURLAPPING SPECIFICATIONS AS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK".
4. ALL BALLED AND BURLAPPED PLANTS SHALL HAVE THE TOP ⅓ OF THE BURLAP REMOVED FROM THE BALL AFTER THE POSITION OF THE PLANT IS STABILIZED. NO BURLAP SHALL BE REMOVED FROM UNDER THE BALL, AND ALL WIRE AND SURPLUS FROM THE TOP OF THE BALL SHALL BE REMOVED.

SEEDING AND SODDING:

1. ALL EXTERIOR GROUND AREA NOT OCCUPIED BY BUILDINGS, STRUCTURES, PAVEMENT, PLANT MATERIAL, AND MULCH SHALL BE SEEDED OR SODDED IN AN ACCEPTABLE MANNER IN ACCORDANCE WITH LOCAL NURSERY STANDARDS, UNLESS OTHERWISE NOTED.
2. ALL SEED SHALL BE PURCHASED FROM A REPUTABLE SUPPLIER AND SHALL BEAR THE CURRENT SEASON'S CERTIFICATES OF WEIGHT, PURITY AND GERMINATION.
3. ALL SOD SHALL BE COMMERCIALLY GROWN IN GEORGIA OR NEIGHBORING AREAS, STRONGLY ROOTED AND FREE FROM WEEDS.
4. ALL SOD SHALL BE LAYED WITHIN 48 HOURS AFTER BEING CUT AT THE NURSERY.
5. SOD SHALL BE LAYED OUT SO THAT NO VOIDS OCCUR AND IN SUCH A MANNER THAT THE END JOINTS BETWEEN INDIVIDUAL SOD PIECES OF ADJOINING ROW DO NOT COINCIDE. SOD SHALL BE LAID ON TOPSOIL AT THE REQUIRED FINISH GRADE AND SHALL BE FLUSH WITH ADJACENT PAVEMENT, CURBS, AND PLANTING BED EDGES.

TOPSOIL:

1. CONTRACTOR SHALL PROVIDE A MINIMUM 3" DEPTH OF TOPSOIL IN ALL PLANTING AREAS.
2. ALL TOPSOIL SHALL BE FREE FROM ROCKS, DEBRIS, NOXIOUS WEEDS, EXCESSIVE WEEDS, PLANT WASTE, SUBSOIL, HEAVY CLAY, ROOTS, STUMPS, AND ANY OTHER MATERIAL HARMFUL TO PLANT GROWTH
3. TOPSOIL SHALL BE NATURAL, FERTILE, SANDY LOAM POSSESSING CHARACTERISTICS COMMON TO PRODUCTIVE SOILS IN THE SOUTHEASTERN COASTAL REGION, AND IT SHALL NOT CONTAIN ANY TOXIC SUBSTANCES.

PLANTING:

1. GROUND COVER SHALL BE PLANTED AS SPECIFIED BELOW:
   1.1. GROUND COVER SHALL BE PLANTED IN AN EQUILATERAL TRIANGULAR SPACING PATTERN AT THE ON-CENTER DISTANCES SHOWN ON THE PLANT LIST.
   1.2. WHERE GROUND COVER ABUTS CURBS, PAVEMENT, SIGNS AND POLES, MINIMUM PLANTING DISTANCE SHALL BE 12" FROM CENTER OF PLANT TO SAID OBJECT.
   1.3. GROUND COVER SHALL BE PLANTED A MINIMUM OF 1-4" FROM CENTER OF ALL TREES.
2. SHRUBS AND GRASSES SHALL BE PLANTED A MINIMUM OF 4' FROM CENTER OF ALL LARGE TREES.
3. SHRUBS AND TREES SHALL BE PLANTED A MINIMUM OF 36" FROM CURBS AT CAR PARKING AREAS TO ALLOW FOR OVERHANG, UNLESS WHEEL STOPS ARE PROVIDED.
4. NO LARGE OR MEDIUM TREE SPECIES SHALL BE PLANTED WITHIN TEN (10) FEET OF ANY UNDERGROUND UTILITY LINE OR UNDERNEATH ANY OVERHEAD POWER LINES. SMALL TREE SPECIES MUST MAINTAIN A MINIMUM FIVE (5) FOOT SEPARATION FROM UNDERGROUND UTILITY LINES.
5. TREES SHALL BE PLANTED AT PROPER DEPTH OR SHALL BE REJECTED AT TIME OF INSPECTION.
6. STAKE TREES ONLY WHEN NECESSARY.

FERTILIZER:

1. CONTRACTOR SHALL PERFORM A SOIL TEST ON ALL PROPOSED LANDSCAPE AREAS BEFORE INSTALLING ANY PROPOSED PLANT MATERIAL.
2. IF A SOIL TEST DETERMINES THAT ADDITIONAL SOIL AMENDMENTS ARE REQUIRED, CONTRACTOR SHALL APPLY AN APPROPRIATE FERTILIZER IN CONFORMANCE WITH INSTRUCTIONS ON THE CONTAINER.

MULCH:

1. ALL TREES AND SHRUBS SHALL BE MULCHED IMMEDIATELY FOLLOWING INSTALLATION WITH A MINIMUM 3" LAYER OF ACCEPTABLE MATERIAL.
2. ALL GROUND COVER SHALL BE MULCHED IMMEDIATELY FOLLOWING INSTALLATION WITH A MINIMUM 1" LAYER OF ACCEPTABLE MATERIAL.
3. ACCEPTABLE MULCHING MATERIAL INCLUDES PINE NEEDLES, SHREDDED BARK, AND WOOD CHIPS.

WATERING:

1. ALL PLANTS INCLUDING TREES, SHRUBS, AND GROUNDCOVER SHALL BE THOROUGHLY WATERED IMMEDIATELY FOLLOWING INSTALLATION.
2. ALL SEEDED AND SODDED AREAS SHALL BE THOROUGHLY WATERED IMMEDIATELY FOLLOWING INSTALLATION.

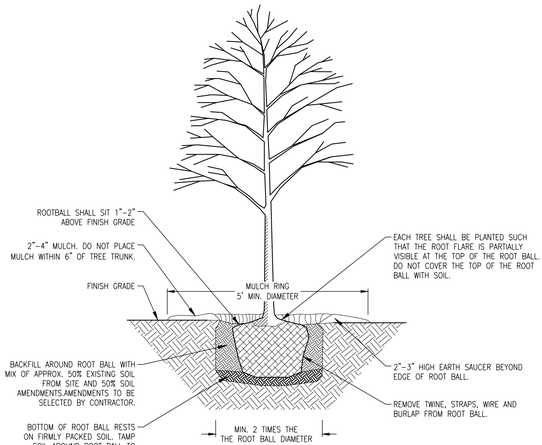
MAINTENANCE:

1. CONTRACTOR SHALL INSPECT PLANTS ON A WEEKLY BASIS; MAINTAIN AND WATER ALL SODDED AREAS AND PLANT MATERIALS; AND WEED, PRUNE, AND RE-MULCH PLANTING BEDS AS NECESSARY MAINTAIN HEALTHY GROWING CONDITIONS UNTIL LANDSCAPE INSTALLATION IS COMPLETE.
2. OWNER IS RESPONSIBLE FOR ON-GOING MAINTENANCE OF ALL PLANT MATERIAL UPON COMPLETION OF LANDSCAPE INSTALLATION.
3. GUYING AND STAKING SHALL BE REMOVED NO LATER THAN 6 MONTHS AFTER INSTALLATION.

PLANT ALTERATIONS AND SUBSTITUTIONS:

1. **ANY CHANGE TO PLANT QUANTITY, PLANT SPECIES, PLANT SIZE, OR PLANT LOCATION IS UNACCEPTABLE WITHOUT SPECIFIC APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT.**

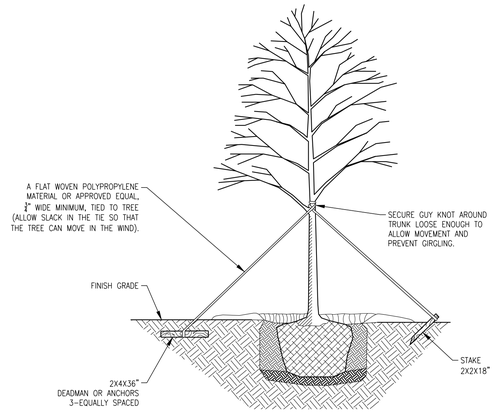
NOTES:
1. PLANT LIST QUANTITIES ARE FOR REFERENCE ONLY. KEYED PLANS SHALL GOVERN OVER PLANT LIST.
2. ALL PLANTS/PLANT BEDS SHALL RECEIVE A 3" LAYER OF FRESH PINE STRAW MULCH.
3. THE GENERAL CONTRACTOR SHALL SUPPLY ROUGH GRADES ±0.2' WITH POSITIVE DRAINAGE PATTERNS ESTABLISHED. THE LANDSCAPE CONTRACTOR WILL FINE GRADE FOR PLANTING OPERATIONS.
4. SEE SPECIFICATIONS THIS SHEET FOR FURTHER INSTRUCTIONS.
5. TOPSOIL SHALL BE STRIPPED AND STOCKPILED BY THE GRADING CONTRACTOR. STOCKPILED TOPSOIL SHALL BE SPREAD BY THE GRADING CONTRACTOR TO A DEPTH OF 4 INCHES IF QUANTITIES ARE SUFFICIENT. GRADING CONTRACTOR SHALL PROVIDE STOCKPILED TOPSOIL FOR LANDSCAPE CONTRACTOR USE FOR BACKFILLING LANDSCAPE ISLANDS.
6. ALL PLANT MATERIAL SHALL MEET OF EXCEED SIZE AND SHAPE RELATIONSHIPS SPECIFIED IN THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
7. ALL SIZES SPECIFIED REFER TO THE SIZE AT THE TIME OF PLANTING.



NOTE:

1. TREES SHALL BE PRUNED IMMEDIATELY AFTER PLANTING TO REMOVE DEAD, BROKEN, DISEASED, DYING OR RUBBING BRANCHES. CO-DOMINANT STEMS LESS THAN 4" IN DIAMETER AT THE FORK SHALL BE PRUNED OFF AND ONE MAIN STEM REMAIN. TREE TOPPING OR HEADING IS NOT PERMITTED AT ANY TIME.
2. STAKING IS NOT REQUIRED, BUT IF INSTALLED IT SHALL BE REMOVED NO LATER THAN SIX MONTHS AFTER PLANTING.

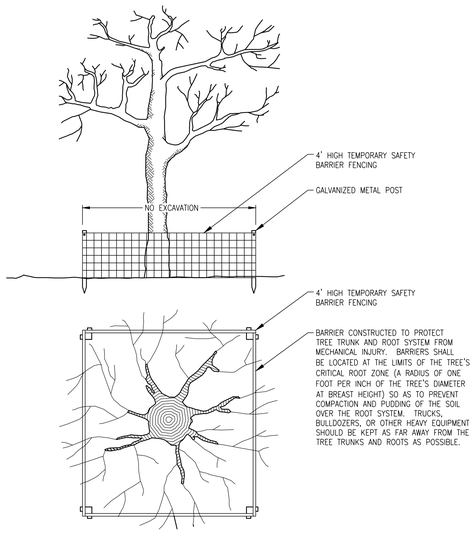
TREE PLANTING DETAIL
NOT TO SCALE



NOTE:

1. SELECT DEADMAN, ANCHORS OR STAKES TO SECURE TREE
2. STAKE TREES ONLY WHEN NECESSARY, STAKES TO BE REMOVED 6 MONTHS AFTER PLANTING.
3. TREES LARGER THAN 2" CALIPER SHOULD BE STAKED BY THREE STRAPS WHEN NECESSARY.
4. DO NOT USE STRAPS TO PULL TREE PLUMB.

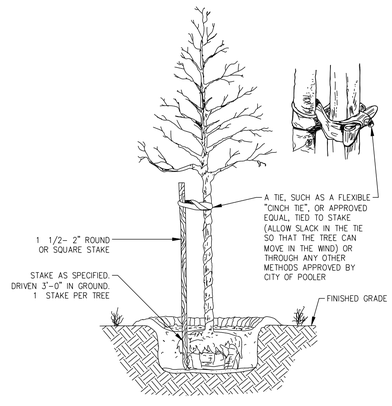
TREE STAKING
2" CAL. AND ABOVE
NOT TO SCALE



FOR ADDED PROTECTION:

- PROVIDE 4" DEEP WOOD CHIP MULCH OVER ANY UNPROTECTED ROOT ZONE.
- MAKE CLEAN CUTS ON ROOTS EXPOSED BY GRADING AND BACKFILL IMMEDIATELY.
- PROVIDE TEMPORARY IRRIGATION WHERE PRACTICAL AND FEASIBLE.

TREE PROTECTION FENCING
NOT TO SCALE



1. STAKE TREES ONLY WHEN NECESSARY. STAKES SHALL BE REMOVED 6 MONTHS AFTER PLANTING.
2. OTHER ALTERNATE STAKING METHODS MAY BE USED UPON APPROVAL BY MUNICIPALITY.

ALTERNATIVE TREE STAKING
NOT TO SCALE

DATE PLOTTED: 4/13/2025 11:35 AM BY: Randy Richter DRAWING PATH: Q:\2023\23-142.000\DWG\Landscape\23-142 Landscape Plan 2024.02.12.dwg

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NOT FOR CONSTRUCTION

GEORGIA REGISTERED LANDSCAPE ARCHITECT No. 1921 PROFESSIONAL JAY M GEHLER
JAY M. GEHLER 10/25/23

REVISIONS:
09.24.2024 PER CITY COMMENTS
01.14.2025 ACCESS ROAD REVISION
02.25.2025 PER CITY COMMENTS

LANDSCAPE PLANS FOR
DST TRAILER YARD
PHASE 1
LOCATED IN POOLER, GEORGIA
PREPARED FOR DST DUVAL SEMI TRAILERS

JOB NUMBER:	23-142
DATE:	12/12/23
DRAWN BY:	MRC
CHECKED BY:	JMG
SCALE:	AS NOTED

LANDSCAPE DETAILS

SHEET:
L3.0