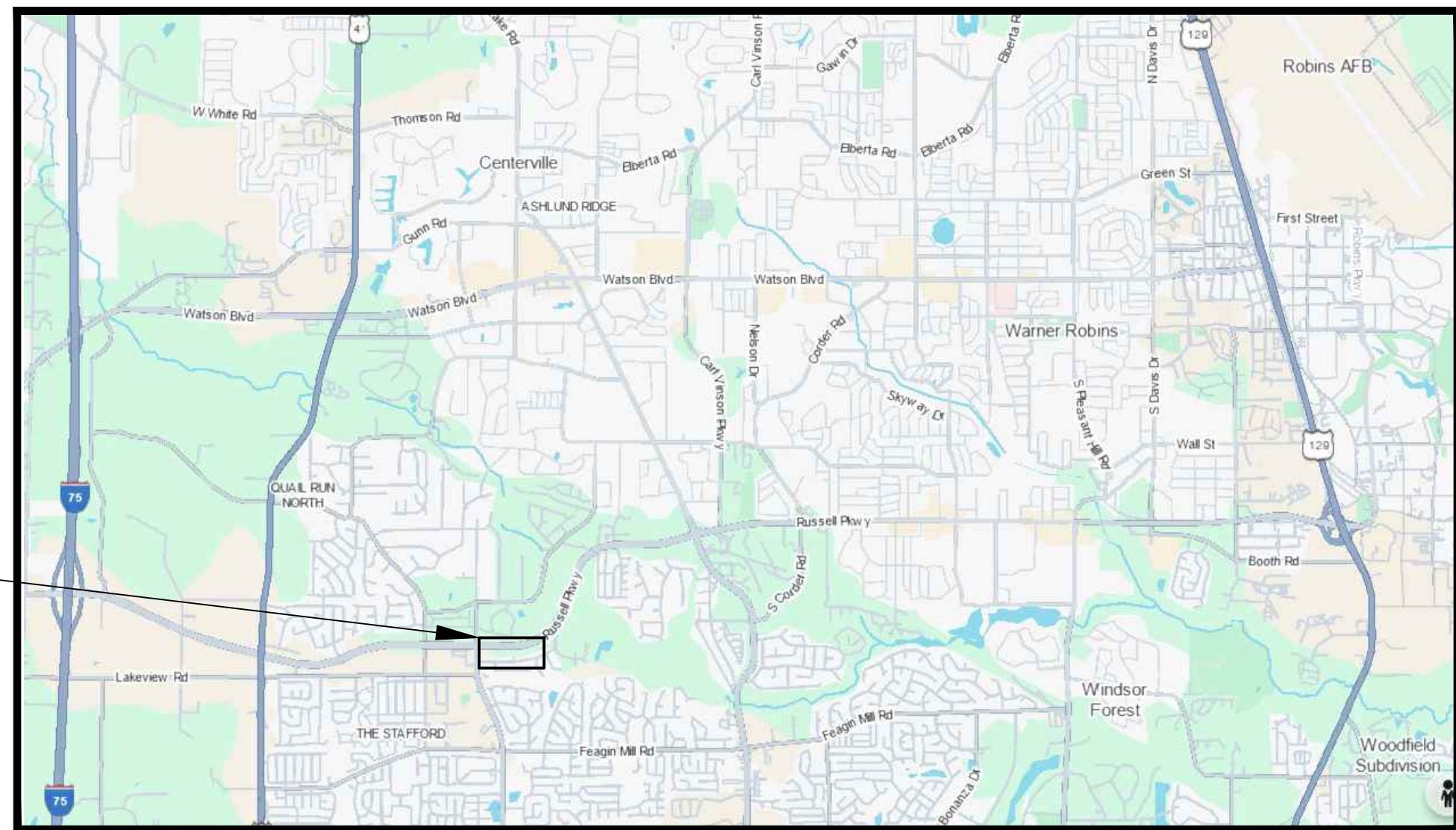


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 Sheet List Table
 

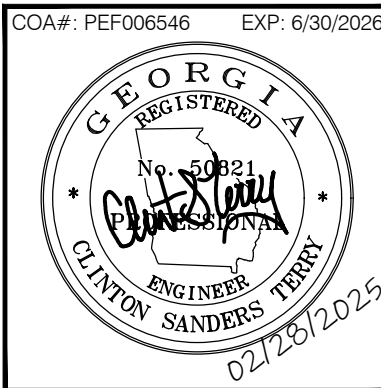


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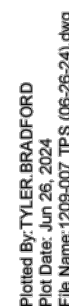


TRIPLE

TITLE SHEET

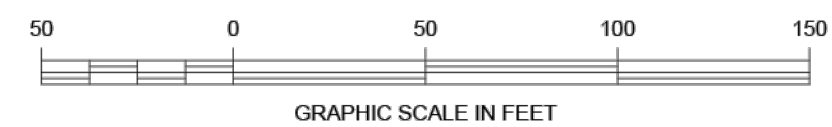


PROJECT NO.: STR-014
DATE: FEBRUARY 2025
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MISCELLANEOUS NOTES

1. THIS DOCUMENT WAS CREATED ELECTRONICALLY. THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT UNLESS IT HAS BEEN PROPERLY SEALED AND ORIGINALLY SIGNED BY A REGISTERED LAND SURVEYOR AT THE TIME OF THE SURVEY. THE SURVEYOR'S SIGNATURE AND SEAL ARE LOCATED ON THE UNDERGROUND UTILITIES SHOWN ON THIS DRAWING WERE COMPILED FROM FIELD OBSERVATIONS, UTILITY COMPANY RECORDS AND UNDERGROUND UTILITIES LOCATING PROGRAM. THE DATA IS THE RESULT OF EXCAVATION, SURVEYING AND MAPPING, LLC DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN. VERIFICATION OF UTILITIES SHOULD BE MADE BY THE INDIVIDUAL UTILITY COMPANY PRIOR TO ANY CONSTRUCTION.
2. THE EXISTING FLOOD PLAIN AND MAPED FLOOD PLAIN ARE THOSE THAT ALL EASEMENTS WHICH MAY AFFECT THE SUBJECT TRACT ARE SHOWN.
3. BY GRAPHICAL PLOTTING ONLY, THE SUBJECT AREA LIES WITHIN ZONE "X" OF THE NATIONAL FLOOD INSURANCE PROGRAM. FLOOD INSURANCE RATE MAP NO. 13153C00B, DATED 09/26/2007.
4. ONE FOOT CONTOUR INTERVAL SHOWN. ELEVATIONS SHOWN ARE REFERENCE TO THE 1985 MEAN SEA LEVEL.
5. PROPERTY LINES SHOWN HEREON WERE TAKEN FROM MATTERS OF RECORD AND EVIDENCE FOUND IN THE FIELD. THE SURVEYOR'S CERTIFICATION EXTENDS ONLY TO THE TOPOGRAPHIC ASPECTS AND THE TOPOGRAPHIC ASPECTS DOES NOT COVER THE MATTERS OF RECORD. MATTERS OF RECORD IS NOT TO BE RECORDED AND SHOULD NOT BE USED TO CONVEY PROPERTY.



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TOPOGRAPHIC SURVEY

LANDS OF

RICHARD B. RUSSELL PARKWAY

LAND LOT 128 & 129

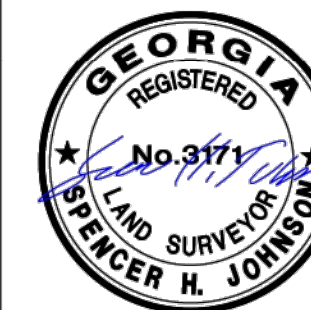
HOUSTON COUNTY

WARNER ROBINS

10TH LAND DISTRICT

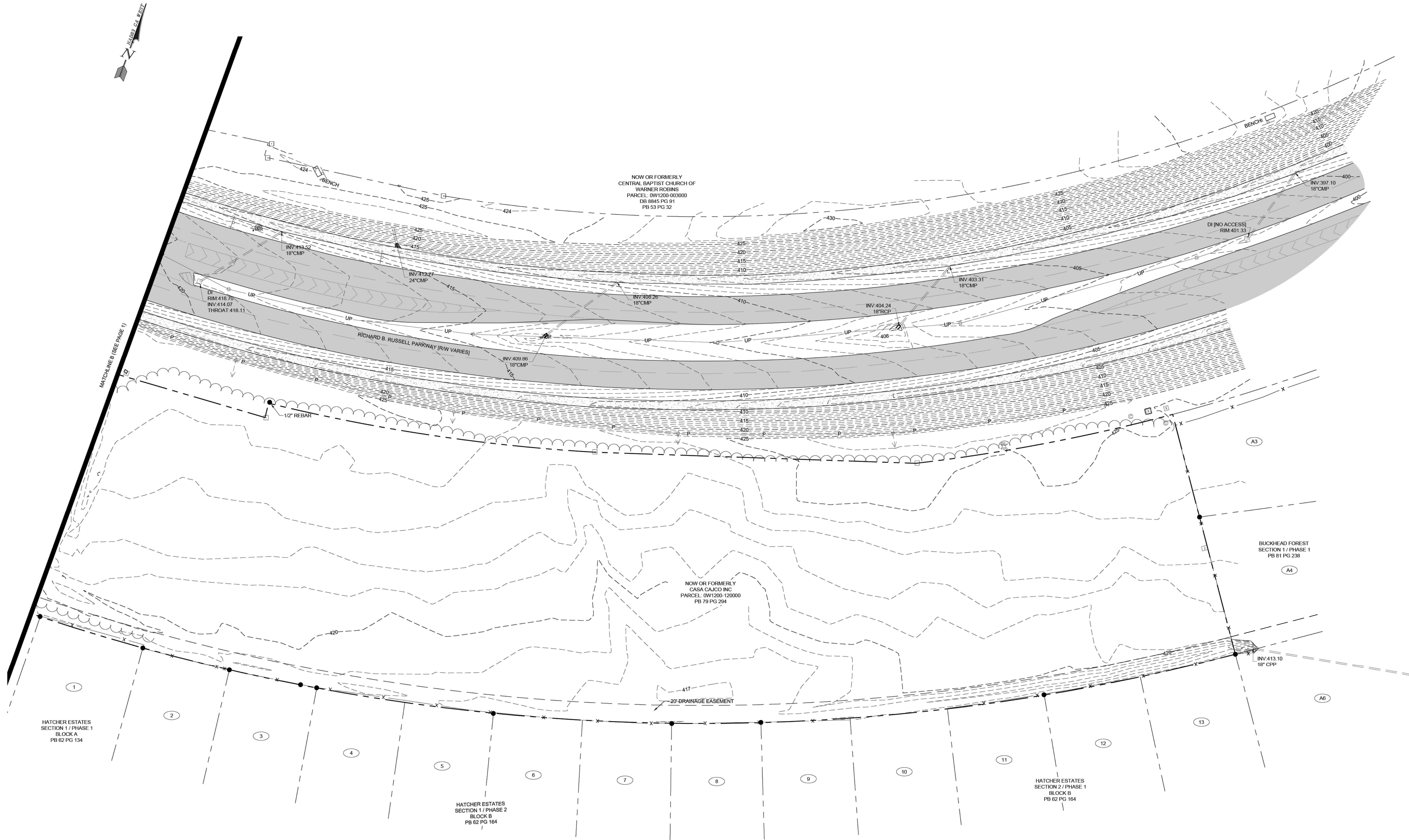
GEORGIA

Project No.:	1209-001
Drawing No.:	TPS
Drawn By:	T.W.B
Checked By:	S.H.J
R.L.S. No.:	317



Date:	06-10-20
Scale:	1"=50'

Sheet No.:
1 of 2



Revisions		
No.	Date	Description
1	06-26-24	ADDED STORM DRAIN TO SE CORNER OF PROPERTY

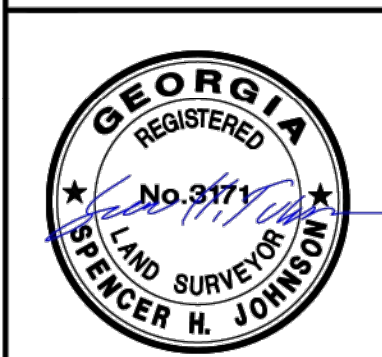
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TOPOGRAPHIC SURVEY
LANDS OF
RICHARD B. RUSSELL PARKWAY
LAND LOT 128 & 129
HOUSTON COUNTY
WARNER ROBINS
10TH LAND DISTRICT
GEORGIA

Project No.: 1209-007
Drawing No.: TPS
Drawn By: T.W.B.
Checked By: S.H.J.
R.L.S. No.: 3171



Date: 06-10-24
Scale: 1"=50'

Sheet No.:
2 of 2

LEGEND

	EXISTING	PROPOSED
IRON PIN FOUND		
IRON PIN SET		
CONCRETE MONUMENT FOUND		
BENCHMARK		
PROPERTY LINE / RIGHT OF WAY		
CREEK / SWALE		
CONTOUR		
BOLLARD		
WATER LINE		
FIRE HYDRANT		
WATER VALVE		
IRRIGATION CONTROL VALVE		
WATER METER		
WELL		
GAS LINE		
GAS VALVE		
GAS METER		
MANHOLE		
SANITARY SEWER LINE		
CLEAN OUT		
STORM SEWER PIPE		
HEADWALL		
DROP/YARD INLET/JUNCTION BOX		
END SECTION		
CATCH BASIN (GA. DOT)		
LIGHT POLE		
POWER/UTILITY POLE/GUY WIRE		
OVERHEAD POWER, TELEPHONE, & CABLE		
UNDERGROUND POWER		
UNDERGROUND TELEPHONE		
TRANSFORMER		
TELEPHONE BOX		
CABLE BOX		
TREE		
ASPHALT PAVEMENT		
CONCRETE PAVEMENT		
UNPAVED/GRAVEL ROAD		
WETLANDS		
LANDLOT		
100-YEAR FLOOD LIMITS		
EASEMENT		
RAILROAD TRACK		
GUARD RAIL		
FENCE		
BORE HOLE		

CONTRACTOR/DEVELOPER NOTES:

- FOR OTHER SITE, MISCELLANEOUS AND/OR SPECIAL NOTES SPECIFIC TO VARIOUS CONSTRUCTION PHASES, REFER TO EACH INDIVIDUAL SHEET FOR SAID NOTES AND/OR CONDITIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND TO THE STORMWATER CONVEYANCE SYSTEM.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTACTOR TO INSURE THAT PRIOR TO ORDERING PROJECT MATERIALS THE MOST CURRENT SET OF CONSTRUCTION DOCUMENTS HAVE BEEN OBTAINED FROM THE PROJECT ENGINEER INCLUDING, BUT NOT LIMITED TO, THE APPROVED SET(S) FROM ALL APPLICABLE AGENCIES AS APPROPRIATE. THE PROJECT ENGINEER ACCEPTS NO RESPONSIBILITY FOR IMPROPER ORDERING OF MATERIALS.
- THE DEVELOPER AND/OR DEVELOPERS CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION, SIZE AND MATERIAL OF ANY EXISTING WATER OR SEWER FACILITY PROPOSED FOR CONNECTION OR USE BY THIS PROJECT.
- DISTURBANCE TO ANY SURVEY MARKER MAY REQUIRE RE-ESTABLISHMENT OF THE MARKER OR MONUMENT BY A LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY IF PRE CONSTRUCTION CONDITIONS ENCOUNTERED ON THE PROJECT SITE DIFFER FROM THOSE DEPICTED ON THE PLANS. IF ANY CONFLICTS, DISCREPANCIES, AND/OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE OR CONTINUE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, AND/OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.**

STRIPING AND SIGNAGE:

- WARNING DEVICES SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF WORK WITHIN A PUBLIC RIGHT-OF-WAY AND SHALL REMAIN IN PLACE UNTIL THE WORK WITHIN THE RIGHT-OF-WAY HAS BEEN COMPLETED.
- ALL WARNING DEVICES SHALL BE EITHER TYPE I BARRICADES OR DRUMS WITH WARNING LIGHTS ON EVERY OTHER DEVICE, AND SHALL CONFORM WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND LOCAL ORDINANCES FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
- ALL SIGNS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND LOCAL ORDINANCES FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
- STRIPING (WHITE AND YELLOW) AND ARROW MARKINGS SHALL BE APPLIED USING PAINT MEETING THE STANDARDS OF THE GEORGIA DOT OR LOCAL ORDINANCE.
- WHEN NECESSARY, EXISTING STRIPING SHALL BE REMOVED BY GRINDING, UNLESS SPECIFIED OTHERWISE BY THE LOCAL TRAFFIC ENGINEER.
- ALL SIGNS SHALL BE INSTALLED CONCURRENT WITH THE PERFORMANCE OF THE STRIPING WORK.

DEMOLITION:

- CONTRACTOR SHALL REVIEW SITE DEVELOPMENT PLANS, AND SHALL REMOVE ALL EXISTING SITE FEATURES REQUIRED FOR CONSTRUCTING THE PROPOSED IMPROVEMENTS.
- ALL PAVEMENT TO BE REMOVED (CONCRETE & ASPHALT) SHALL BE SAW CUT AT THE EDGE OF THE REMOVAL.
- THE CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY OWNERS TO ENSURE UNINTERRUPTED UTILITY SERVICE TO USERS. SERVICE LINES TO BE REMOVED SHALL BE REMOVED TO THE MAIN LINE.
- CLEAN-UP AND DISPOSAL**
TRANSPORT TRASH, RUBBISH AND DEBRIS FROM SITE DAILY AND DISPOSE OF THEM IN A LEGAL FASHION. REMOVE AND PROMPTLY DISPOSE OF CONTAMINATED, VERMIN INFESTED, OR DANGEROUS MATERIALS ENCOUNTERED. DO NOT BURN OR BURY MATERIALS ON SITE. REMOVE TOOLS, EQUIPMENT, AND PROTECTIONS WHEN WORK IS COMPLETE AND WHEN AUTHORIZED TO DO SO BY THE OWNER AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE WORK.

GRADING AND EARTHWORK NOTES:

- SURVEY CONTROL**
THE VERTICAL AND HORIZONTAL DATUM FOR THIS PROJECT CAN BE OBTAINED FROM THE SURVEYOR LISTED ON THE TITLE SHEET.
- UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AS DEPICTED ON THE DRAWINGS, INCLUDING ADJACENT TRANSITION AREAS. SMOOTH FINISHED SOIL SURFACE WITHIN 0.1' OF THE PROPOSED CONTOURS AS DEPICTED ON THE DRAWINGS, COMPACT WITH UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN, OR BETWEEN SUCH POINTS AND EXISTING GRADES.
- SUB-GRADE AND FOUNDATION PREPARATION**
REMOVE ALL TOPSOIL, VEGETATION, DEBRIS, UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACEMENT OF FILLS. TOPSOIL SHALL BE CONSIDERED TO MEAN ORIGINAL SURFACE SOIL, TYPICAL OF AREA, WHICH IS CAPABLE OF SUPPORTING NATIVE PLANT GROWTH, AND SHALL BE FREE OF LARGE STONES, ROOTS, BRUSH, WASTE CONSTRUCTION DEBRIS AND OTHER UNDESIRABLE MATERIAL OR CONTAMINATION. PLOW, STRIP, OR BREAK-UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SO THAT FILL MATERIAL WILL BOND WITH EXISTING SURFACE.
- WHEN EXISTING GROUND SURFACE HAS A DENSITY LESS THAN THAT SPECIFIED UNDER "COMPACTION" FOR PARTICULAR AREA CLASSIFICATIONS, BREAK UP GROUND SURFACE, PULVERIZE, MOISTURE-CONDITION TO OPTIMUM MOISTURE CONTENT, AND COMPACT TO REQUIRED DEPTH AND PERCENTAGE OF MAXIMUM DENSITY. REMOVE AND REPLACE ANY EXISTING GROUND MATERIAL THAT DOES NOT MEET THE CRITERIA FOR SATISFACTORY SOIL MATERIAL OR WILL NOT COMPACT TO THE SPECIFICATIONS LISTED BELOW.
- SATISFACTORY SOIL MATERIALS:**
SATISFACTORY SOIL MATERIALS FOR FILL MATERIAL SHALL BE LIMITED TO SOILS CLASSIFIED IN ACCORDANCE WITH ASTM D2487 AS SM, SC, ML AND CL. SATISFACTORY SOIL MATERIALS DESCRIBED ABOVE MUST BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, OR ANY OTHER DELETERIOUS MATTER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING INCLUDING TESTING OF BORROW MATERIALS TO DETERMINE SUITABILITY FOR USE AS FILL MATERIAL. UNSUITABLE MATERIALS FOR FILLING AND BACKFILLING ARE THOSE CLASSIFIED AS MH, CH, OL, OH AND PT IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM. EXCAVATED SOILS THAT ARE TOO WET TO COMPACT SHALL NOT BE CLASSIFIED UNSUITABLE DUE TO HIGH MOISTURE CONTENT ALONE.
- SOIL PLACEMENT, COMPACTION, AND TESTING REQUIREMENTS**
CONTROL SOIL COMPACTION DURING CONSTRUCTION PROVIDING NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D-698) FOR SOILS WHICH EXHIBIT A WELL-DEFINED MOISTURE DENSITY RELATIONSHIP DETERMINED IN ACCORDANCE WITH ASTM STANDARDS. ADDITIONAL COMPACTION SPECIFICATIONS MAY BE ASSOCIATED WITH THE CONSTRUCTION DETAILS.
- PLACE BACKFILL AND MATERIALS IN LAYERS NOT MORE THAN 6" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT AND NOT MORE THAN 4" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND OPERATED TAMPERS.
- BEFORE COMPACTION, MOISTEN OR AERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM (AND NO MORE THAN 3% ABOVE OPTIMUM) MOISTURE CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF MAXIMUM DRY DENSITY OR RELATIVE DRY DENSITY FOR EACH AREA CLASSIFICATION. DO NOT PLACE BACKFILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY.
- PLACE BACKFILL AND FILL MATERIALS EVENLY ADJACENT TO STRUCTURES TO REQUIRED ELEVATIONS. TAKE CARE TO PREVENT WEDGING ACTION OF BACKFILL AGAINST STRUCTURES BY CARRYING MATERIAL UNIFORMLY AROUND STRUCTURE TO APPROXIMATELY SAME ELEVATION IN EACH LIFT. COMPACTION OF SOILS ADJACENT TO STRUCTURES MUST MEET THE SPECIFICATIONS LISTED ABOVE.
- PERFORM FIELD DENSITY TESTS IN ACCORDANCE WITH ASTM D 2937 (DRIVE CYLINDER METHOD), ASTM D 1556 (SAND CONE METHOD), OR NUCLEAR METHOD ASTM D 2922, AS APPLICABLE. MAKE AT LEAST ONE FIELD DENSITY TEST FOR EACH 12" LAYER OF FILL PLACEMENT FOR EVERY 5,000 SQ. FT. FOR EARTHWORK AREAS.
- IF IN THE OPINION OF THE ENGINEER, BASED ON TESTING SERVICE REPORTS AND INSPECTIONS, SUBGRADE OR FILLS WHICH HAVE BEEN PLACED ARE BELOW SPECIFIED DENSITY, REMOVE THE UNSUITABLE FILL AND REPLACE IT WITH FILL MATERIAL COMPACTED TO THE SPECIFICATIONS ABOVE.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THE DISCOVERY OF ANY GROUNDWATER, SUB-SURFACE SEEPAGE, OR SPRINGS DISCOVERED DURING THE COURSE OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE OWNER TO CONSULT WITH A REGISTERED GEOTECHNICAL ENGINEER TO INSPECT THE SITE, AND TO MAKE ANY RECOMMENDATIONS REGARDING EVIDENCE AND REMEDIATION (IF ANY) OF SAID SUB-SURFACE WATERS.
- THE CONTRACTOR SHALL INCLUDE IN THE BID COSTS ANY ITEMS RELATED TO TEMPORARY AND/OR PERMANENT MEASURES PROVIDED TO REMOVE ANY SUBSURFACE SEEPAGE, SPRINGS, OR ANY OTHER GROUND WATER, WHETHER OR NOT DEPICTED IN THE BID SET.
- ALL CUT AND FILL SLOPES (WHERE NO WALL IS PROPOSED) SHALL BE EQUAL TO OR FLATTER THAN 3:1 (HORIZONTAL:VERTICAL).
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STATE, CITY, AND LOCAL PERMITS; INCLUDING, BUT NOT LIMITED TO BUILDING, EROSION CONTROL, AND ENCROACHMENT PERMITS. NO WORK IS TO BE INITIATED UNTIL PERMITS ARE RECEIVED.
- ALL UTILITY TRENCHES SHALL BE THOROUGHLY COMPACTED TO PREVENT SETTLEMENT.
- UNLESS OTHERWISE NOTED FINISH GROUND IS 8" BELOW TOP OF SLAB IN AREAS WHERE LANDSCAPING IS PLANNED ADJACENT THE PROPOSED STRUCTURE.

ELECTRONIC CAD FILE NOTICE

THE DWG FILE IS ONLY SUITABLE FOR USE BY THE DESIGN PROFESSIONAL FOR PRODUCING PRINTS OF THE DESIGN INTENT. ANY OTHER USE OF THE DWG FILE IS AT THE RISK OF THE USER.

FLOODPLAIN/WETLANDS/STATE WATERS:

- WETLANDS SHOWN UPON THESE CONSTRUCTION DOCUMENTS (IF ANY) ARE UNDER THE JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS. CURRENT AND/OR FUTURE LAND OWNERS MAY BE SUBJECT TO LAW ENFORCEMENT FOR DISTURBANCE TO THESE WETLANDS AREAS WITHOUT PROPER AUTHORIZATION.
- 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. NO LAND DISTURBING ACTIVITIES SHALL BE CONDUCTED WITHIN A STATE WATER BUFFER UNLESS A BUFFER VARIANCE HAS BEEN OBTAINED FOR THIS PROJECT.

UTILITY LOCATION:

- THE CONTRACTOR SHALL LOCATE UTILITIES BY CALLING (TOLL FREE) 811 A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY EXCAVATION AS SHOWN ON THIS PLAN. ABOVE GROUND UTILITY LOCATIONS WERE OBTAINED FROM FIELD OBSERVATIONS AND AVAILABLE RECORDS. UNDERGROUND UTILITY LOCATIONS AND EASEMENT LOCATIONS AND/OR REFERENCES WERE FURNISHED TO US BY AGENCIES OR INDIVIDUALS AND WE DO NOT CERTIFY THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. UTILITY LOCATIONS SHALL BE CONFIRMED IN THE FIELD PRIOR TO PROCEEDING WITH CONSTRUCTION. THE OWNER SHALL COORDINATE WITH EASEMENT AND UTILITY OWNERS PRIOR TO COMMENCING CONSTRUCTION.
- ALL EXISTING UTILITIES, UTILITIES EASEMENTS, AND UTILITY RIGHT-OF-WAY MAY NOT BE DEPICTED ON THESE DRAWINGS. UNDERGROUND UTILITY LOCATIONS SHOWN ON THIS PLAN (IF ANY) ARE APPROXIMATE ONLY, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF ANY SUCH UTILITIES. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO COMMENCING WORK. THE UTILITY LOCATIONS SHOWN ON THIS PLAN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY TO VERIFY ALL UTILITY LOCATION. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY EXISTING UTILITIES WILL AFFECT OR IMPEDE THE PROGRESSION OR COMPLETION OF THE DESIGN INTENT OF THESE CONSTRUCTION DOCUMENTS.
- THE CONTRACTOR SHALL COORDINATE RELOCATION OF ANY EXISTING UTILITIES WITH THE APPROPRIATE UTILITY OWNER PRIOR TO THE START OF ANY CONSTRUCTION.
- UTILITY OWNERS SHALL BE NOTIFIED IN ADVANCE OF THE WORK.

STORMWATER:

- THE CONTRACTOR MUST PROTECT DRAINAGE STRUCTURES DURING CONSTRUCTION. ONCE A PIPE IS PLACED, ADDITIONAL PROTECTIVE FILL MAY BE NEEDED OVER STORM DRAIN PIPES DURING THE CONSTRUCTION PROCESS.
- ALL PIPE THAT IS PART OF A ROADWAY DRAINAGE SYSTEM, IF ANY, SHALL BE CLASS III RCP UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- PIPE SHALL BE INSTALLED PER GA DOT STD 1030D AND/OR BY BEDDING DETAILS CONTAINED IN THESE PLANS.
- CORRUGATED METAL PIPE, IF SHOWN, SHALL BE INSTALLED IN LENGTHS TO PREVENT JOINTS FROM BEING LOCATED UNDER THE PAVEMENT.
- ALL DROP INLETS SHALL BE INSTALLED PER GA DOT STANDARDS OR OTHER ACCEPTABLE DESIGN MODIFIED WITH A RAISED WEIR INLET AND A METAL CLEAN OUT COVER.
- ALL HEADWALLS SHALL BE CONSTRUCTED PER GA DOT STANDARDS.
- ALL CATCH BASINS SHALL BE CONSTRUCTED PER GA DOT STD 1033D OR 1034D. UNLESS AN ALTERNATE DETAIL IS PROVIDED.
- ALL FLARED END SECTIONS SHALL BE INSTALLED PER GA DOT STD 1120.
- ALL JUNCTION BOXES SHALL BE INSTALLED PER GA DOT STANDARDS OR OTHER ACCEPTABLE DESIGN MODIFIED WITH A METAL CLEAN OUT COVER.

EROSION AND CONTROL:

- ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING AS SHOWN AND/OR AS DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL INSPECTOR. GRADING SHALL NOT BE INITIATED UNTIL SILT BARRIER INSTALLATION AND SEDIMENT CONTROL FACILITIES ARE CONSTRUCTED.
- ADDITIONAL EROSION CONTROL MEASURES SHALL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
- PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE, AT A MINIMUM, IN CONFORMANCE WITH THE REQUIREMENTS OF THE MANUAL FOR SEDIMENT AND EROSION CONTROL IN GEORGIA, LATEST EDITION AND IN CONFORMANCE WITH LOCAL ORDINANCES.
- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION EXIT SHALL BE CONSTRUCTED AT EACH SITE ENTRY/EXIT. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THEY MAY REQUIRE PERIODIC REPAIR AND/OR TOP DRESSING WITH STONE. ALL CONSTRUCTIONS EXITS SHALL BE UNDERPINNED WITH A MINIMUM 2 OZ/SY NON-WOVEN CONTINUOUS FILAMENT NEEDLE PUNCHED FILTER FABRIC.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITIES, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR INSIDE THE APPROVED LIMITS AS INDICATED ON THE APPROVED PLANS.
- IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND SEDIMENT STORAGE DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- STORM DRAIN SYSTEMS SHALL BE PROTECTED AND MAINTAINED SUCH THAT THEY REMAIN CLEAN AND FREE OF SILT AND DEBRIS.
- SEEDING SPECIFICATIONS AND APPLICATION RATES ARE SHOWN IN THIS PLAN. ANY SUBSTITUTIONS WILL REQUIRE APPROVAL OF THE LOCAL GOVERNMENTAL AGENCY AND THE OWNER.
- THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY NEED TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DIFFICULTY IN CONTROLLING EROSION DURING CONSTRUCTION TO THE ENGINEER.

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ISSUE SEQUENCE

DESCRIPTION

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DATE

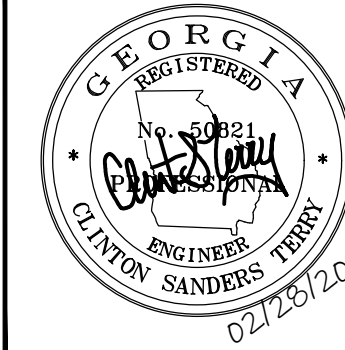
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GENERAL NOTES

RUSSELL SPEC
BUILDING SITE PLAN
FOR
STROUD AND COMPANY
WARNER ROBINS, GA

COA# PEFO06546 EXP: 6/30/2026



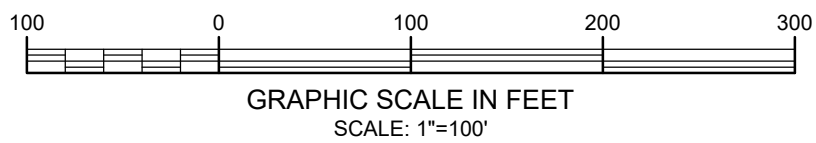
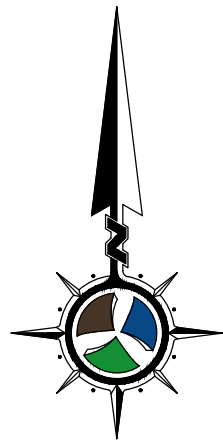
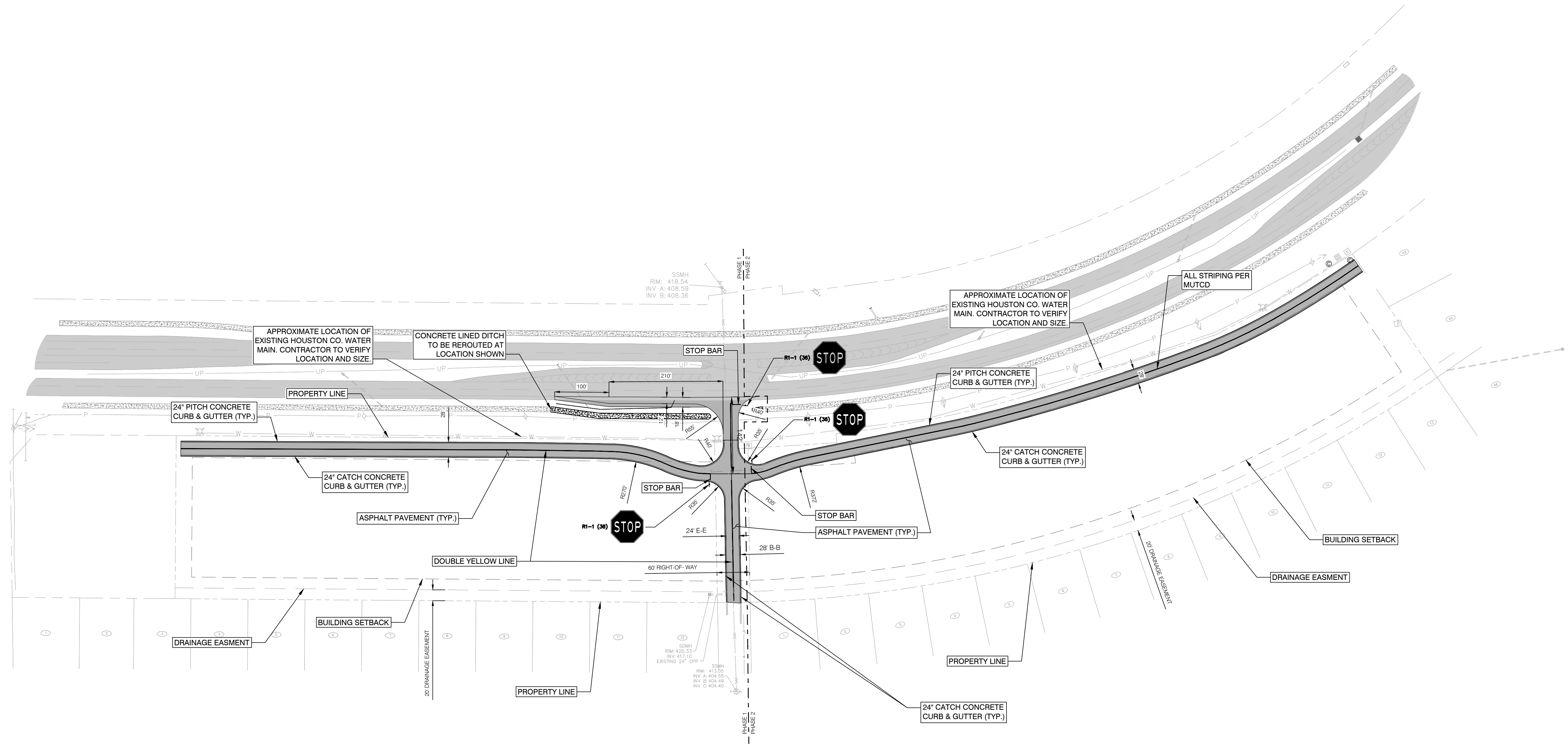
PROJECT NO.: STR-014
DATE: FEBRUARY 2025
SCALE: NTS



Know what's below.
Call before you dig.

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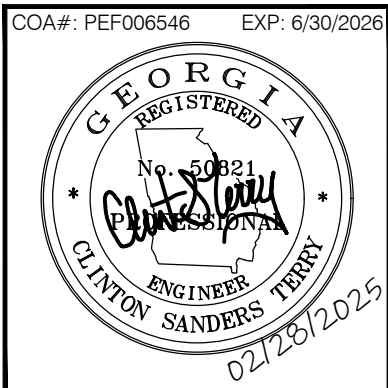
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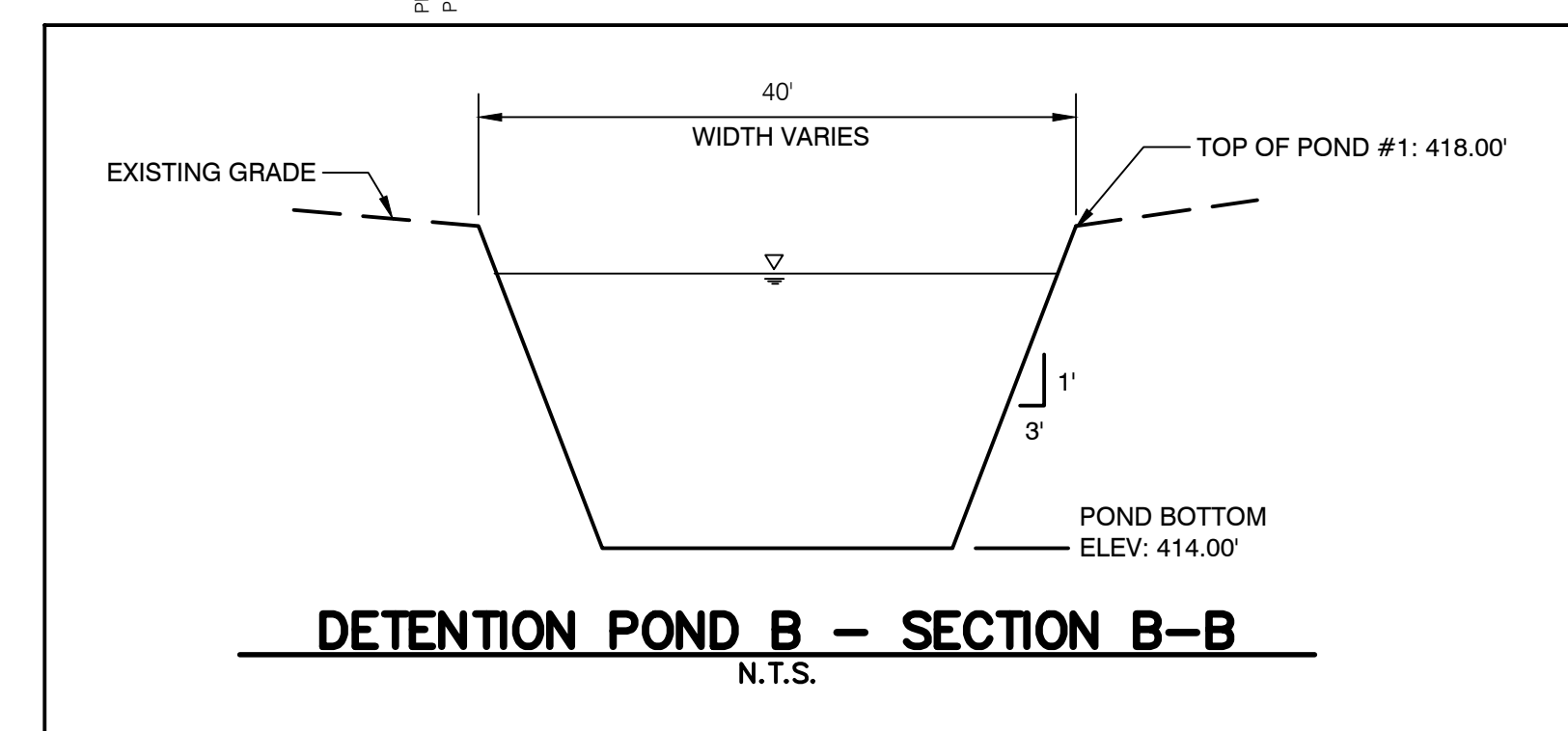
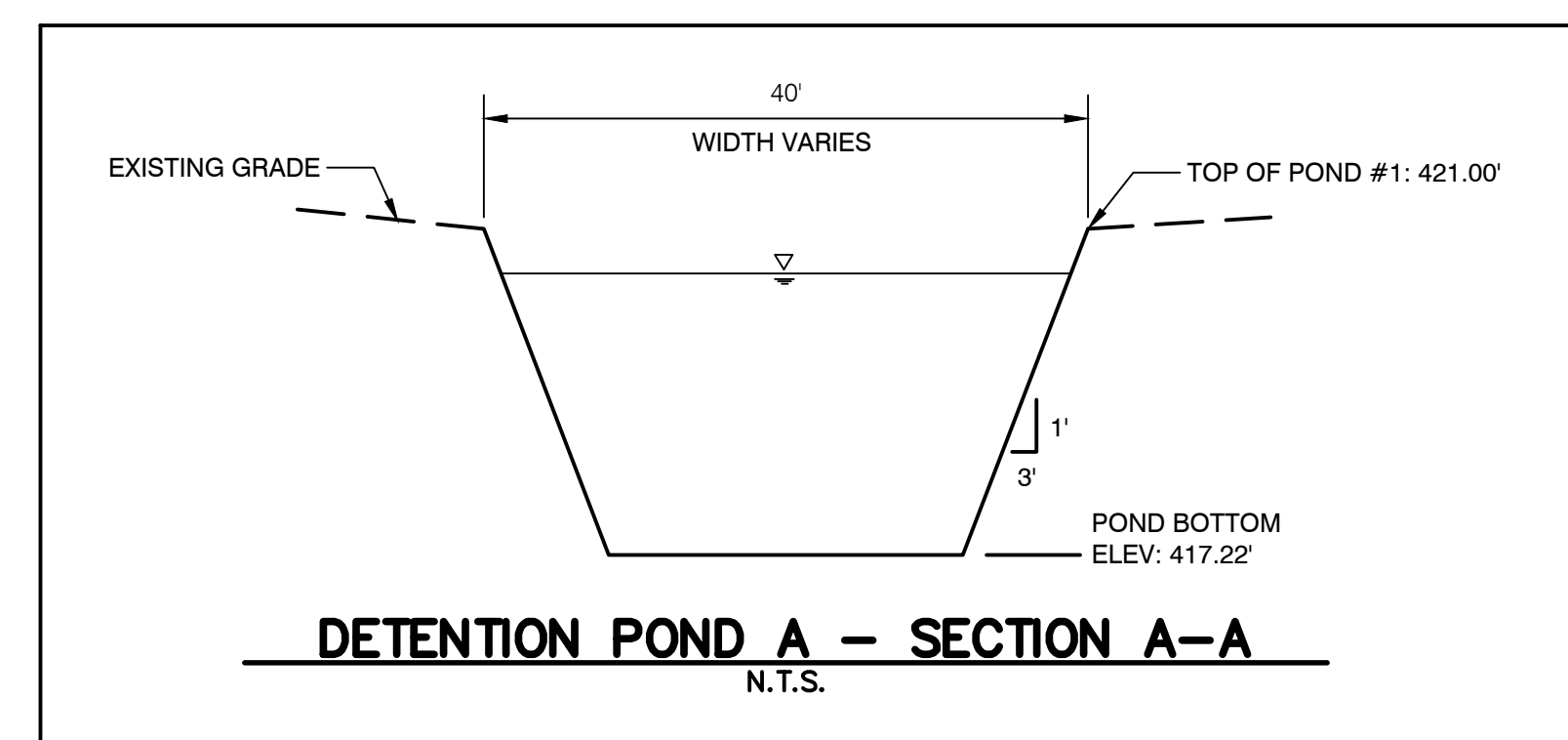
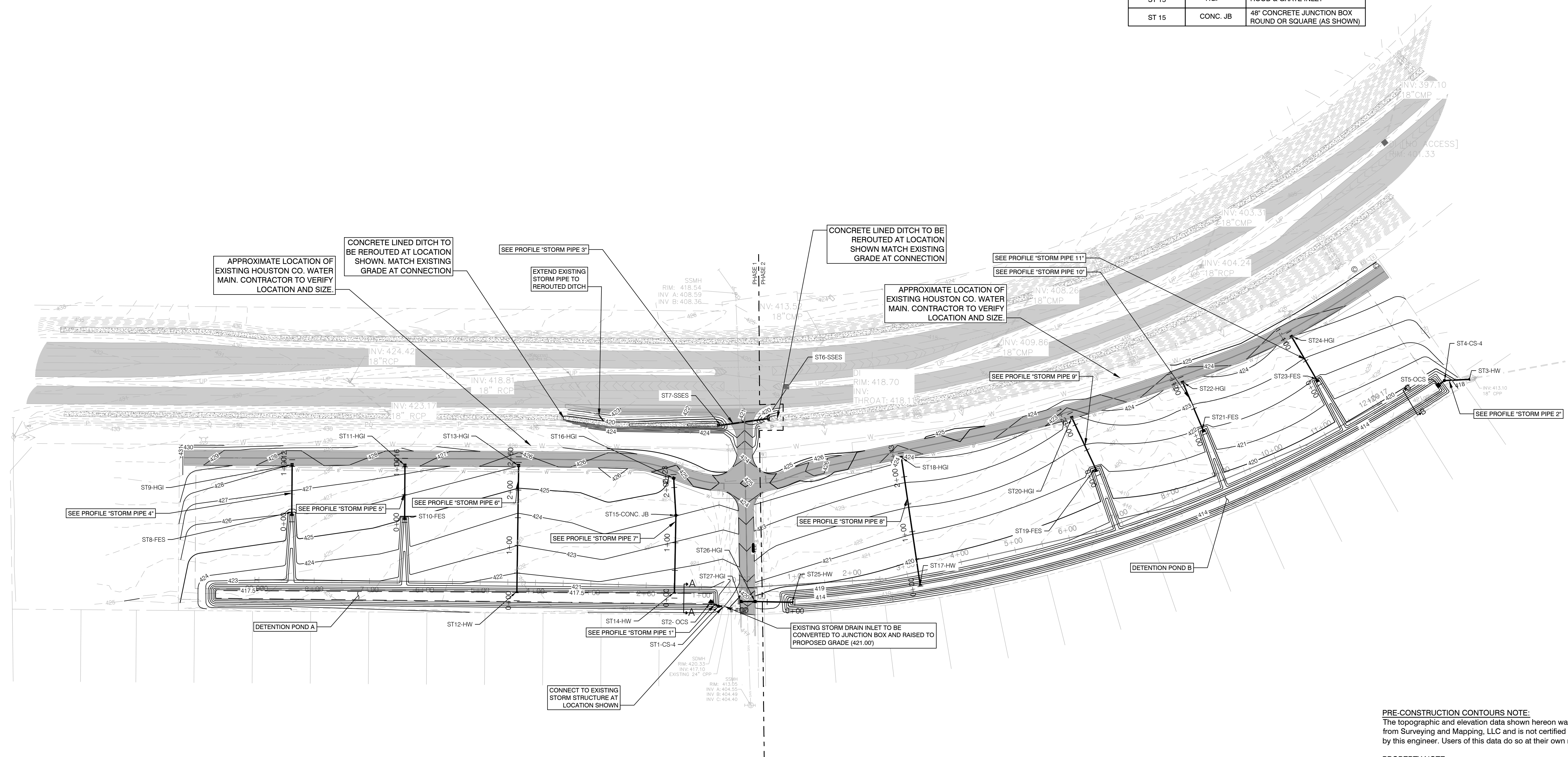
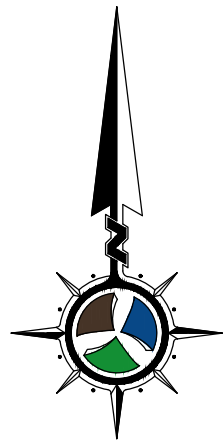
SITE LAYOUT PLAN
RUSSELL SPEC
BUILDING SITE PLAN
FOR
STROUD AND COMPANY
WARNER ROBINS, GA



PROJECT NO.: STR-014
DATE: FEBRUARY 2025
SCALE: AS SHOWN

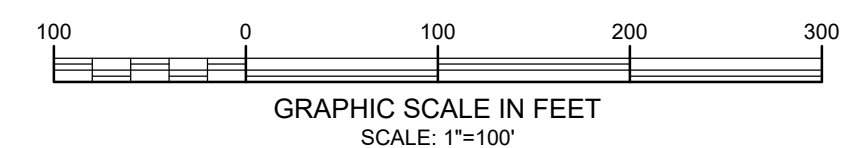
C2.0

LABEL		DESCRIPTION
STRUCTURE #	ABBREVIATION	
ST 1	CS-4	CONTECH CS-4 (SEE DETAIL SHEET CS.1)
ST 2	OCS	OUTLET CONTROL STRUCTURE (SEE DETAIL SHEET CS.1)
ST 3	HW	CONCRETE HEADWALL
ST 6	SSES	SAFETY SLOPE END SECTION
ST 8	FES	FLARED END SECTION
ST 15	HGI	HOOD & GRATE INLET
ST 15	CONC. JB	48" CONCRETE JUNCTION BOX ROUND OR SQUARE (AS SHOWN)



PRE-CONSTRUCTION CONTOURS NOTE:
The topographic and elevation data shown hereon was obtained from Surveying and Mapping, LLC and is not certified as correct by this engineer. Users of this data do so at their own risk.

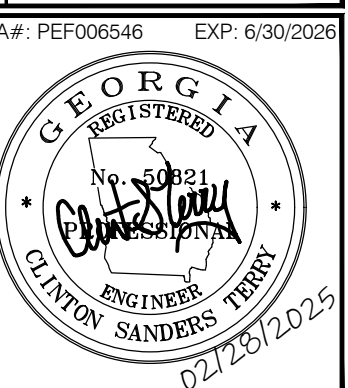
PROPERTY NOTE:
The property information and easements (or lack thereof) shown hereon was obtained from Surveying and Mapping, LLC and is not certified as correct by this engineer. Users of this data do so at their own risk.



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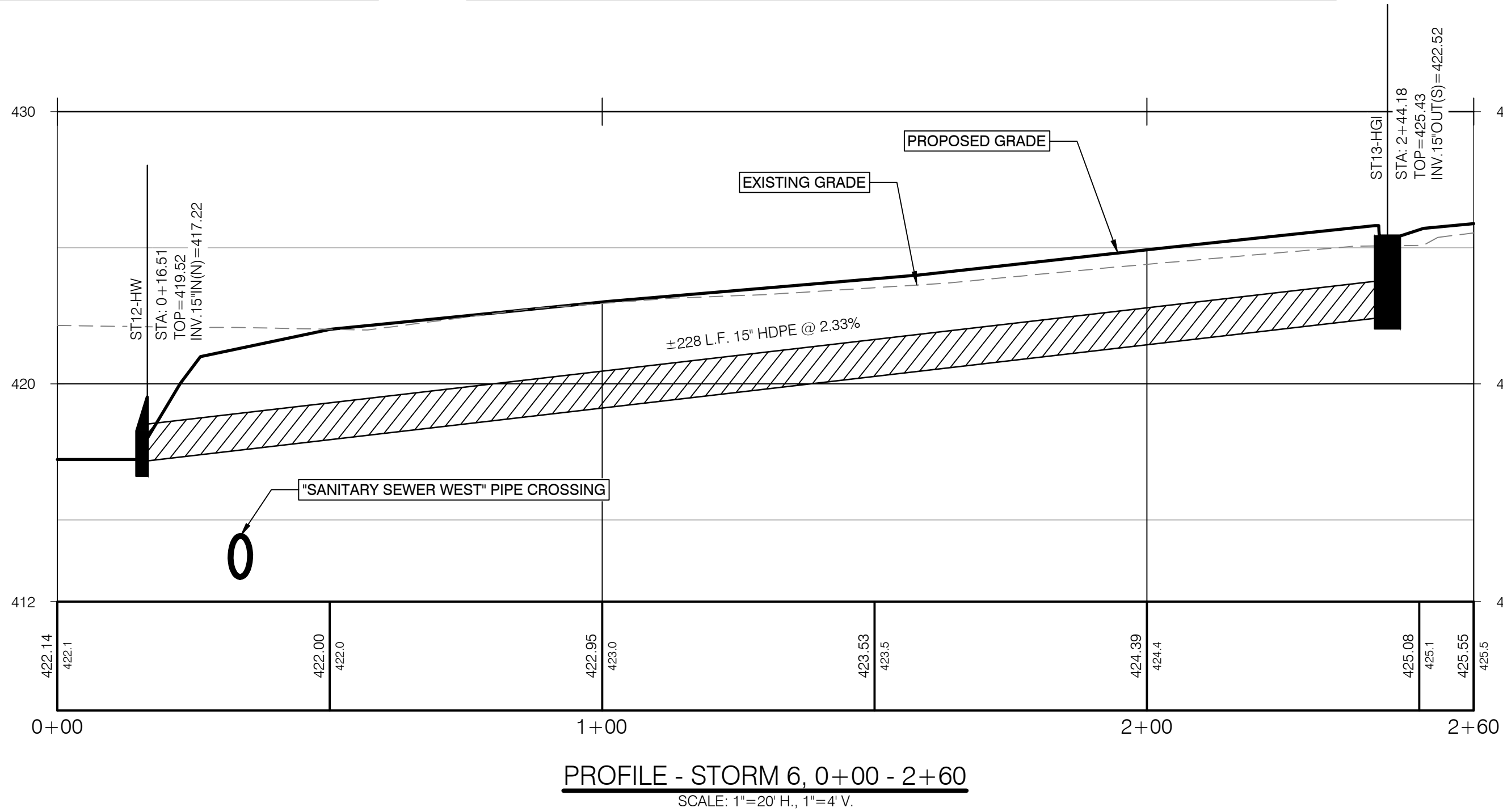
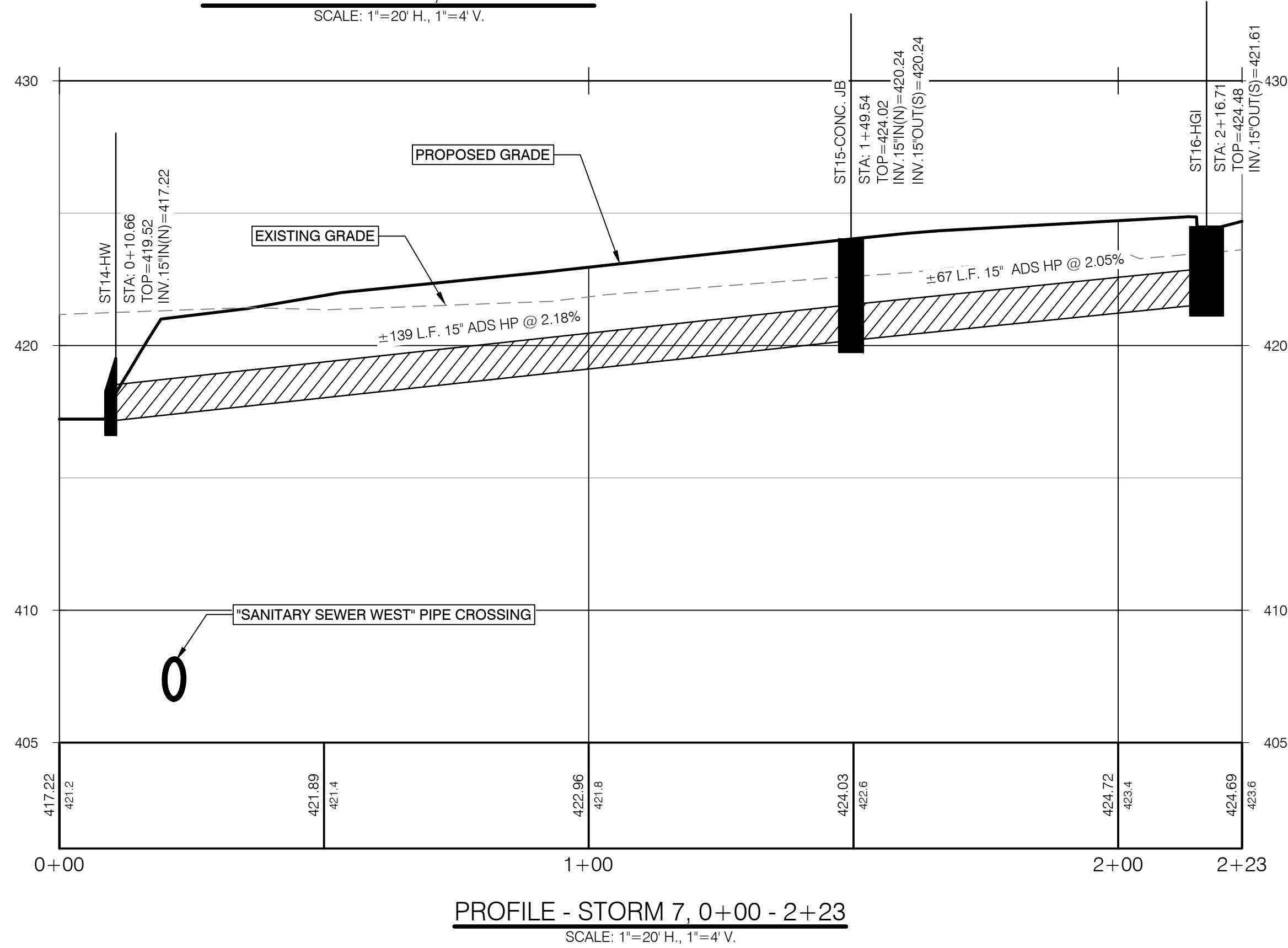
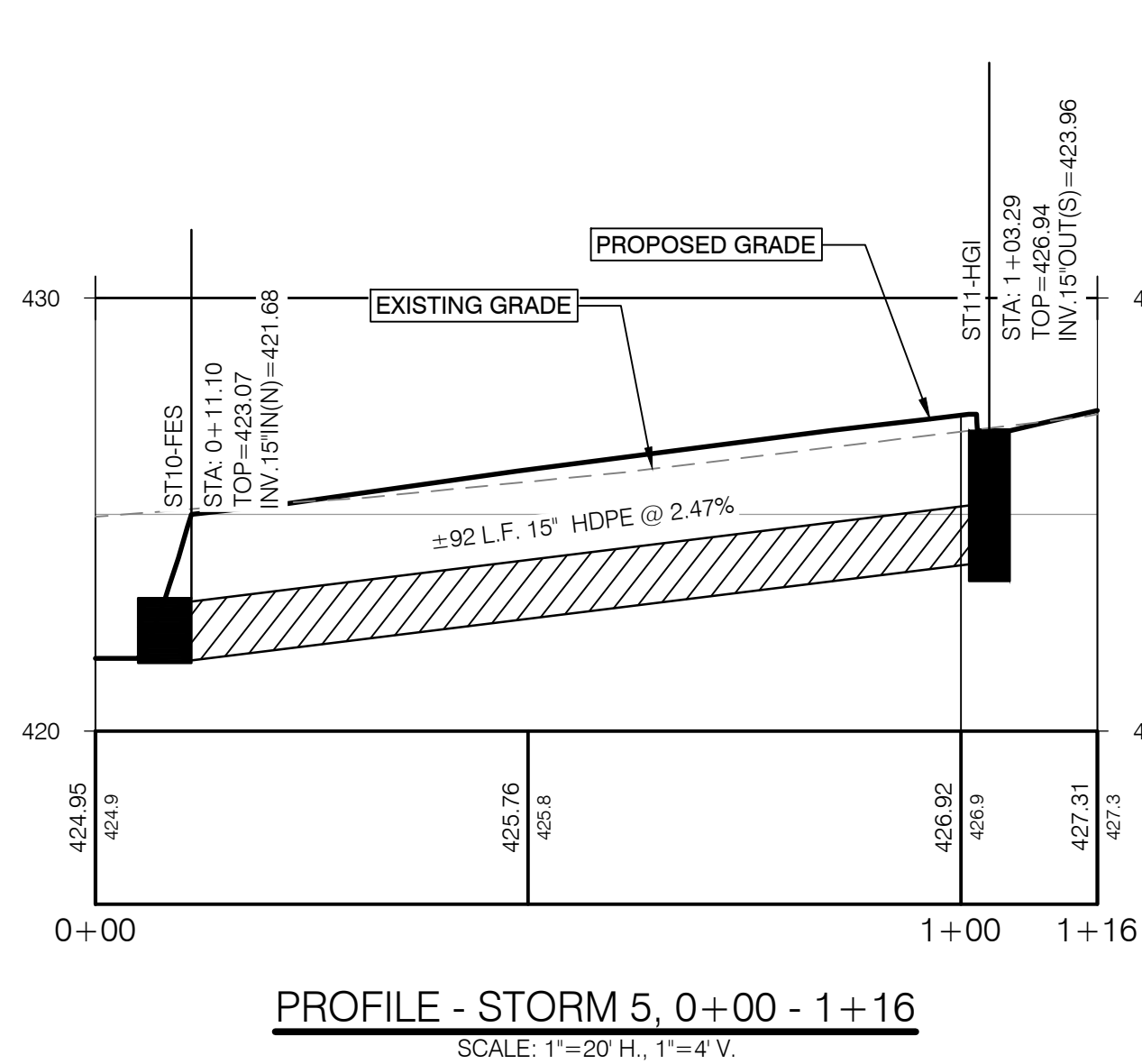
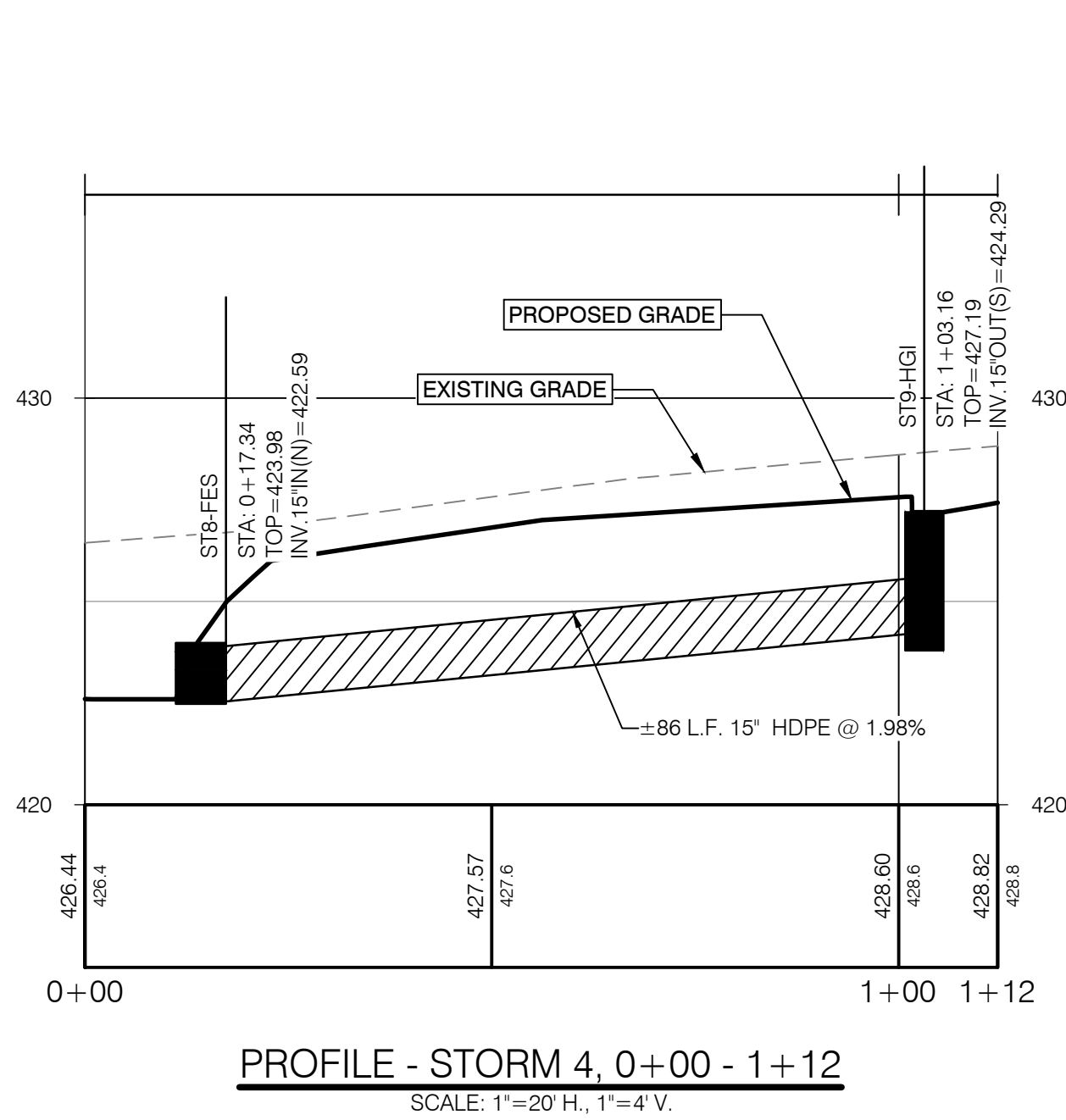
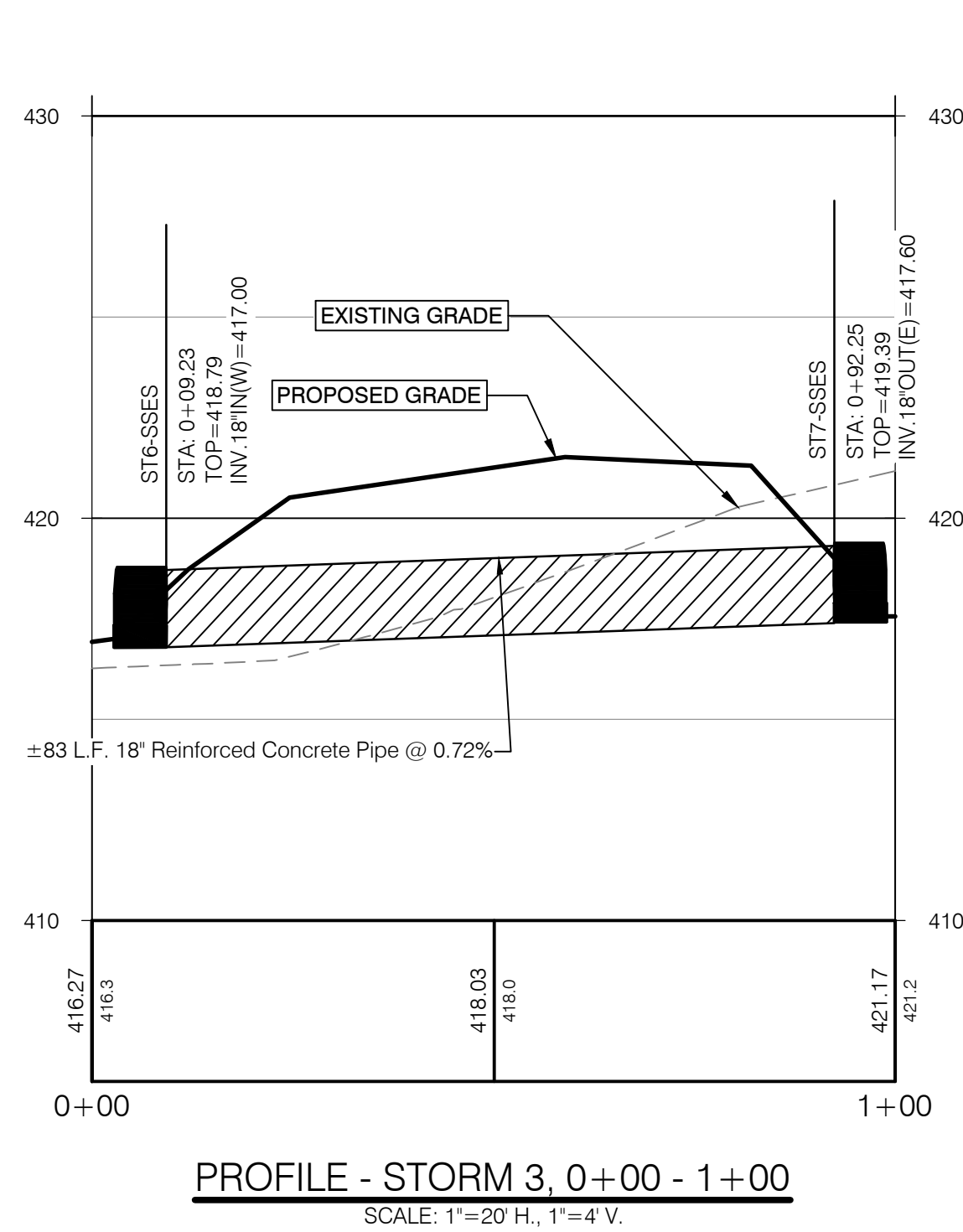
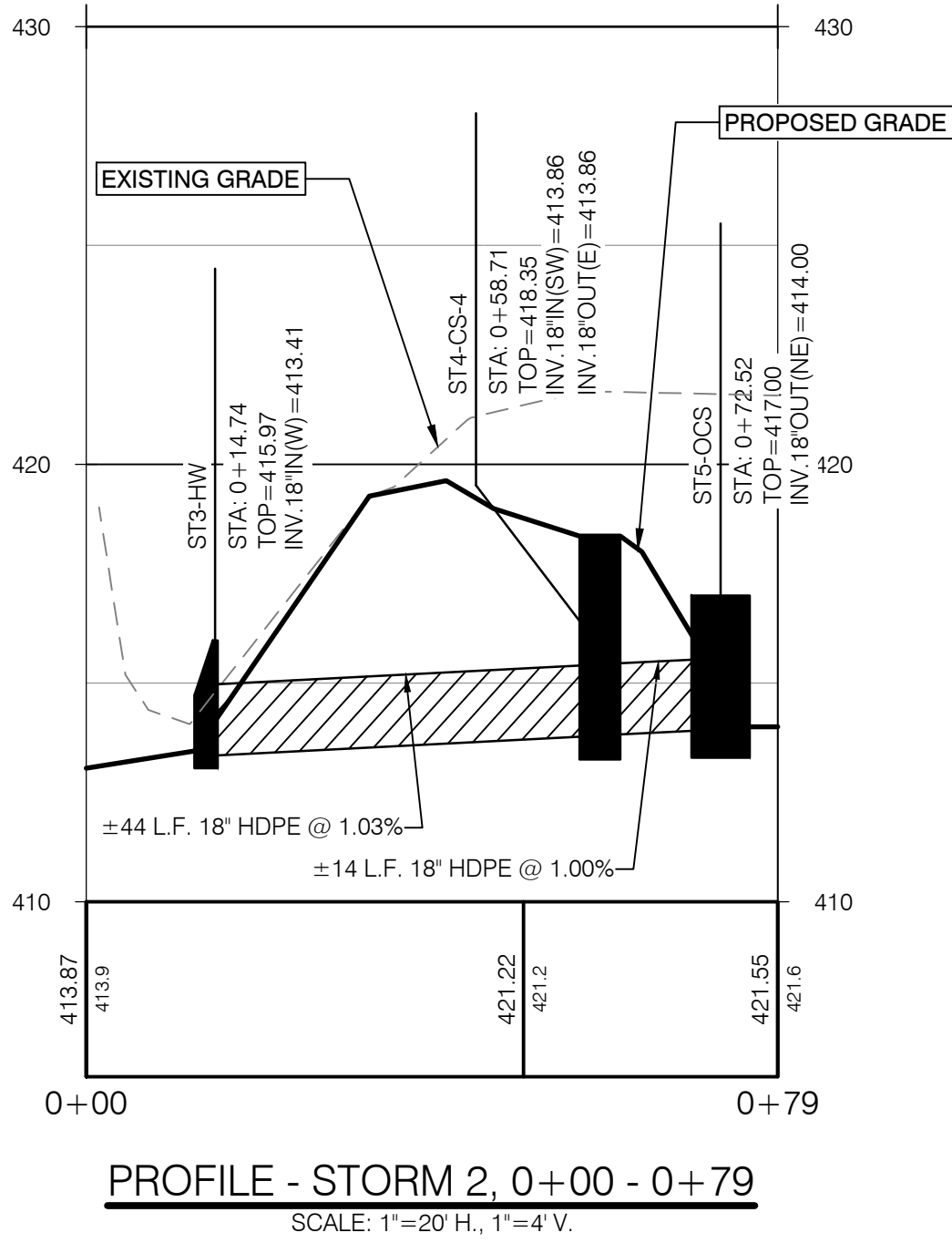
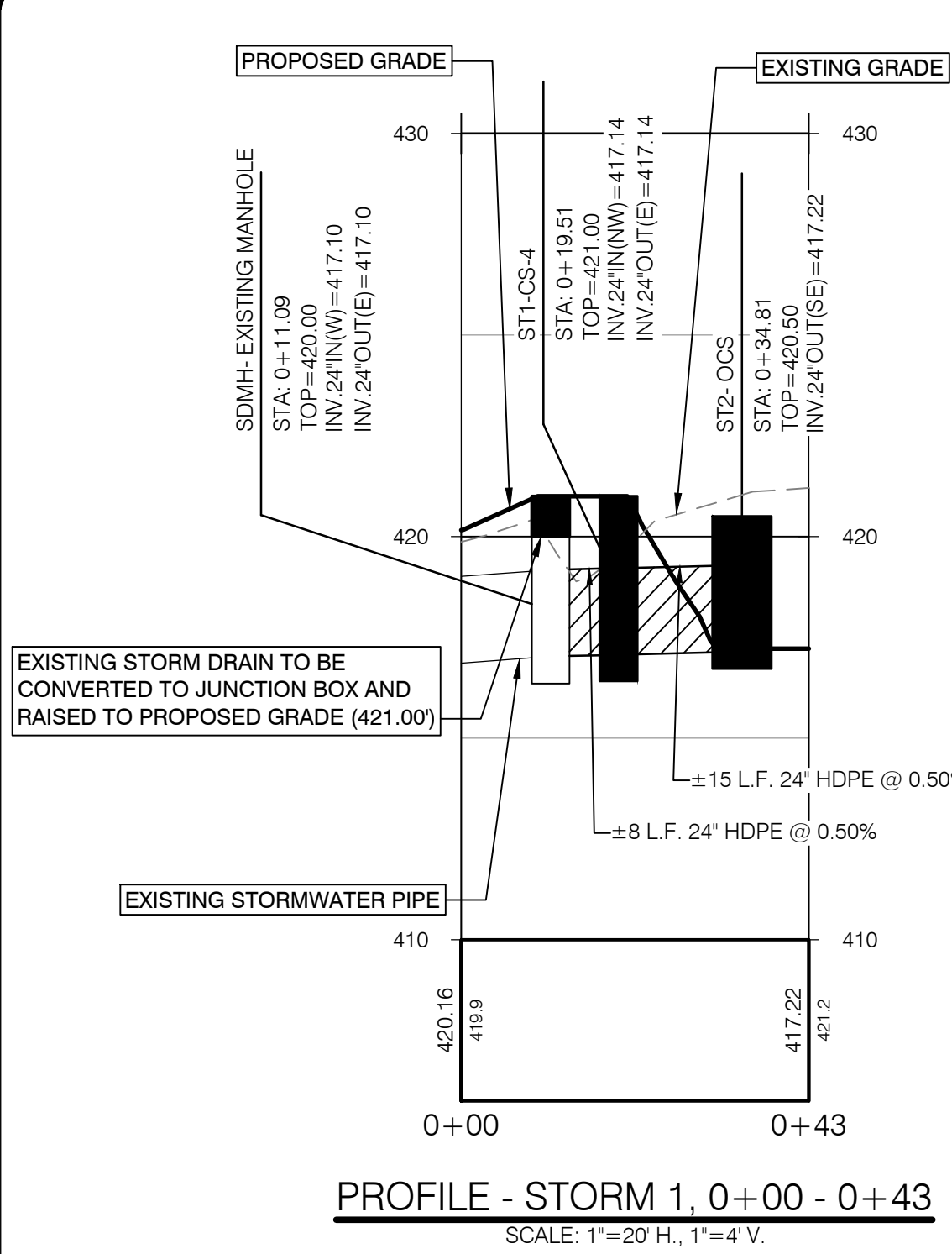
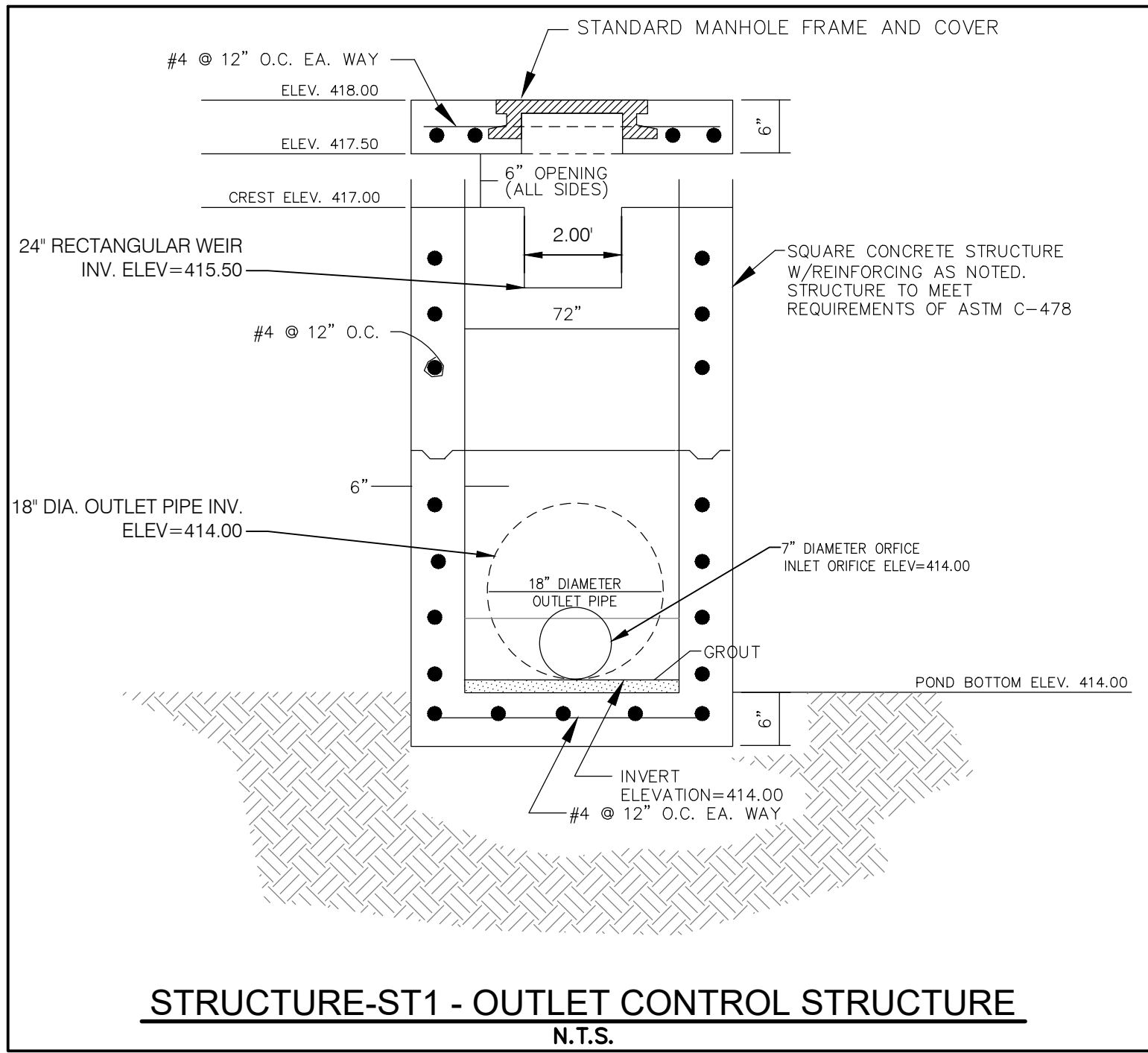
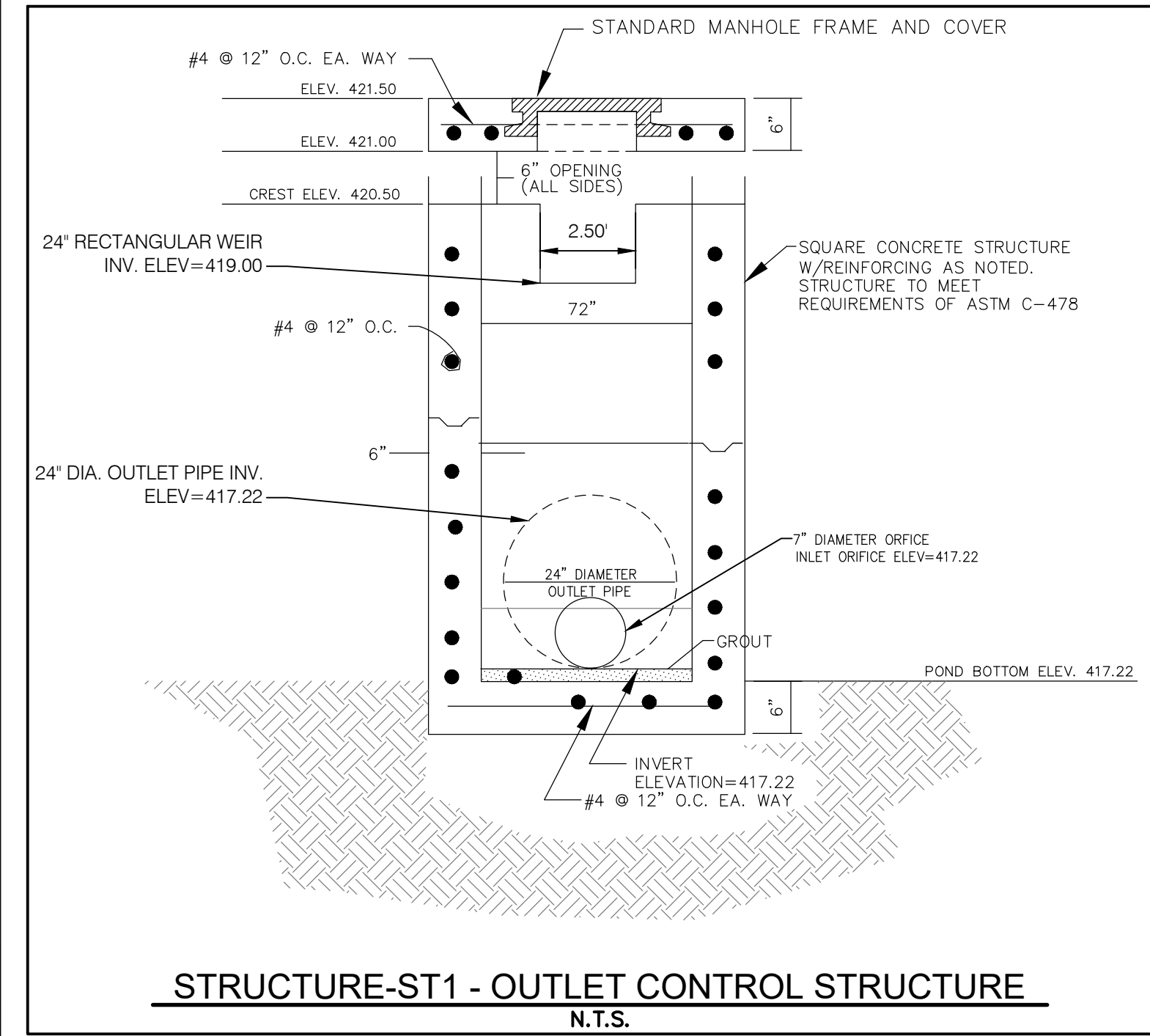
RUSSELL SPEC
BUILDING SITE PLAN
FOR
STROUD AND COMPANY
WARNER ROBINS, GA



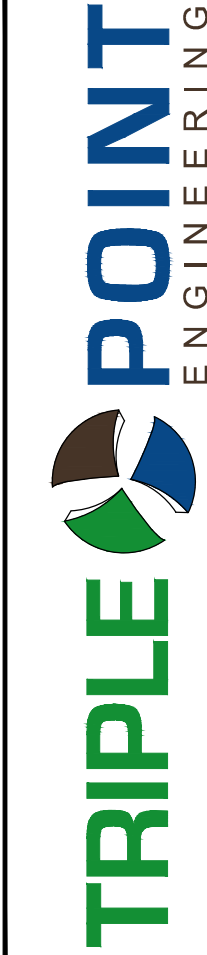
PROJECT NO.: STR-014
DATE: FEBRUARY 2025
SCALE: AS SHOWN

C3.0

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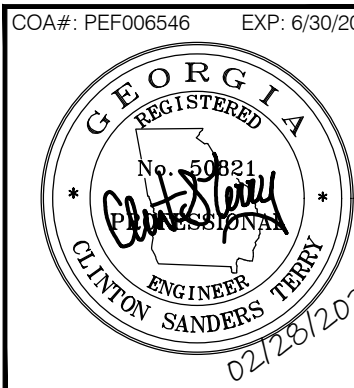


STORM STRUCTURE LEGEND		
LABEL	ABBREVIATION	DESCRIPTION
ST 1	CS-4	CONTECH CS-4 (SEE DETAIL SHEET C5.1)
ST 2	OCS	OUTLET CONTROL STRUCTURE (SEE DETAIL SHEET C3.1)
ST 3	HW	CONCRETE HEADWALL
ST 6	SSES	SAFETY SLOPE END SECTION
ST 8	FES	FLARED END SECTION
ST 15	HGI	HOOD & GRATE INLET
ST 15	CONC. JB	48\" CONCRETE JUNCTION BOX ROUND OR SQUARE (AS SHOWN)



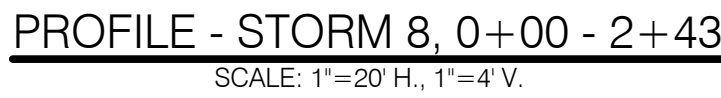
5223 Riverside Drive • Suite 101 • Macon, Georgia 31210
phone 478.476.0700 • fax 478.476.0776 • www.triplepointeng.com

RUSSELL SPEC
BUILDING SITE PLAN
FOR
STROUD AND COMPANY
WARNER ROBINS, GA

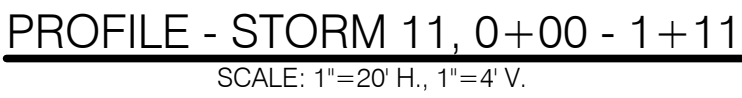
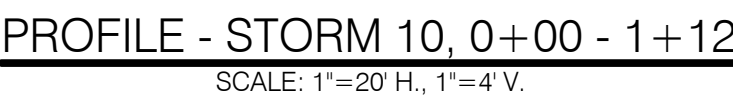
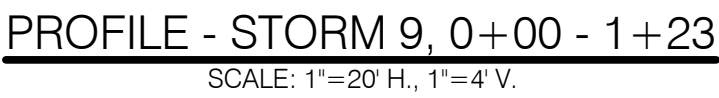


PROJECT NO.: STR-014
DATE: FEBRUARY 2025
SCALE: AS SHOWN

C3.1



STORM STRUCTURE LEGEND		
LABEL		DESCRIPTION
STRUCTURE #	ABBREVIATION	
ST 1	CS-4	CONTECH CS-4 (SEE DETAIL SHEET C5.1)
ST 2	OCS	OUTLET CONTROL STRUCTURE (SEE DETAIL SHEET C3.1)
ST 3	HW	CONCRETE HEADWALL
ST 6	SSES	SAFETY SLOPE END SECTION
ST 8	FES	FLARED END SECTION
ST 15	HGI	HOOD & GRATE INLET
ST 15	CONC. JB	48" CONCRETE JUNCTION BOX ROUND OR SQUARE (AS SHOWN)



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

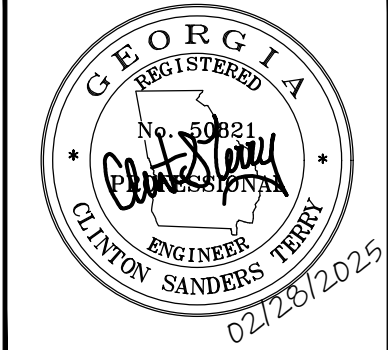
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STORM PIPE PROFILES

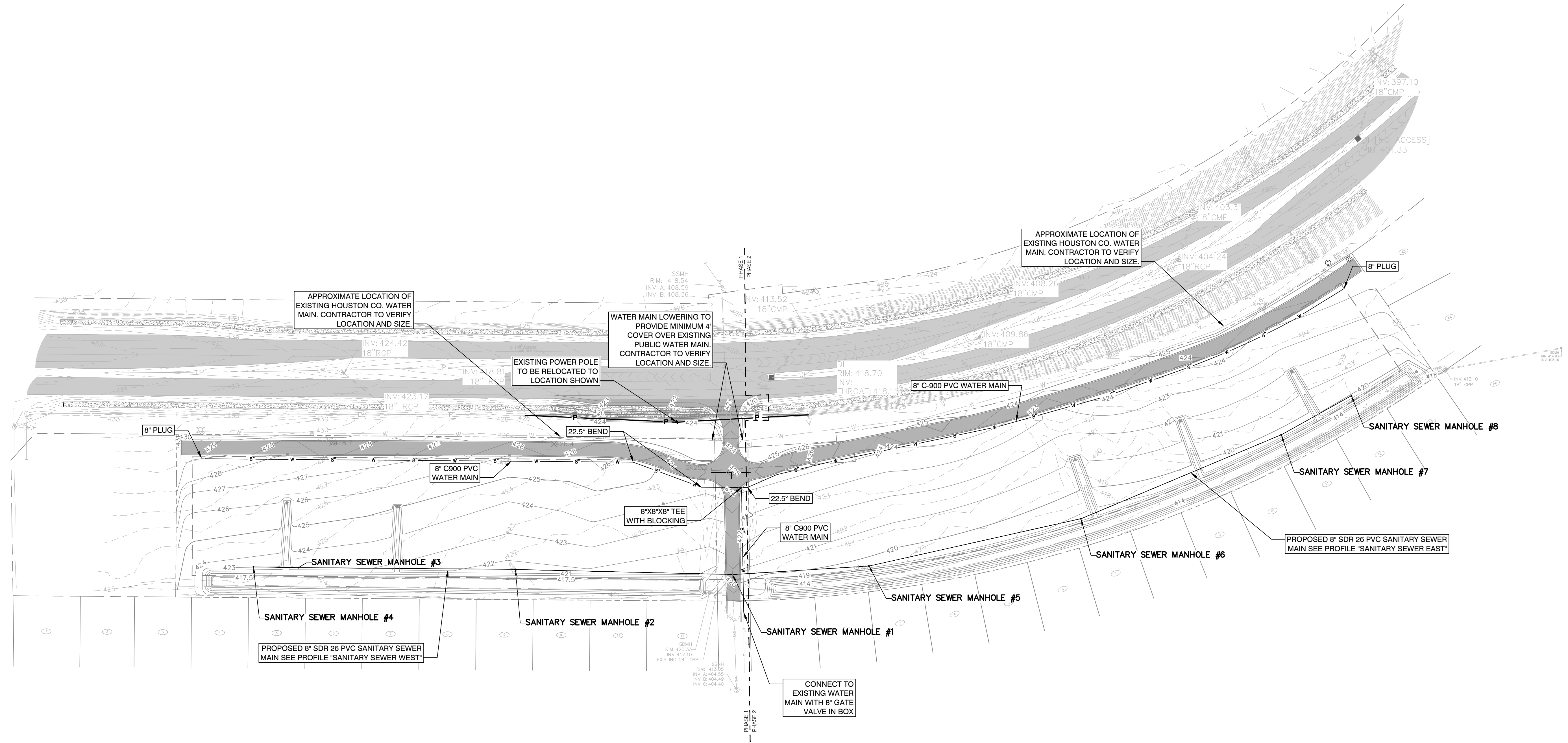
**RUSSELL SPEC
BUILDING SITE PLAN
FOR
STROUD AND COMPANY
WARNER ROBINS, GA**

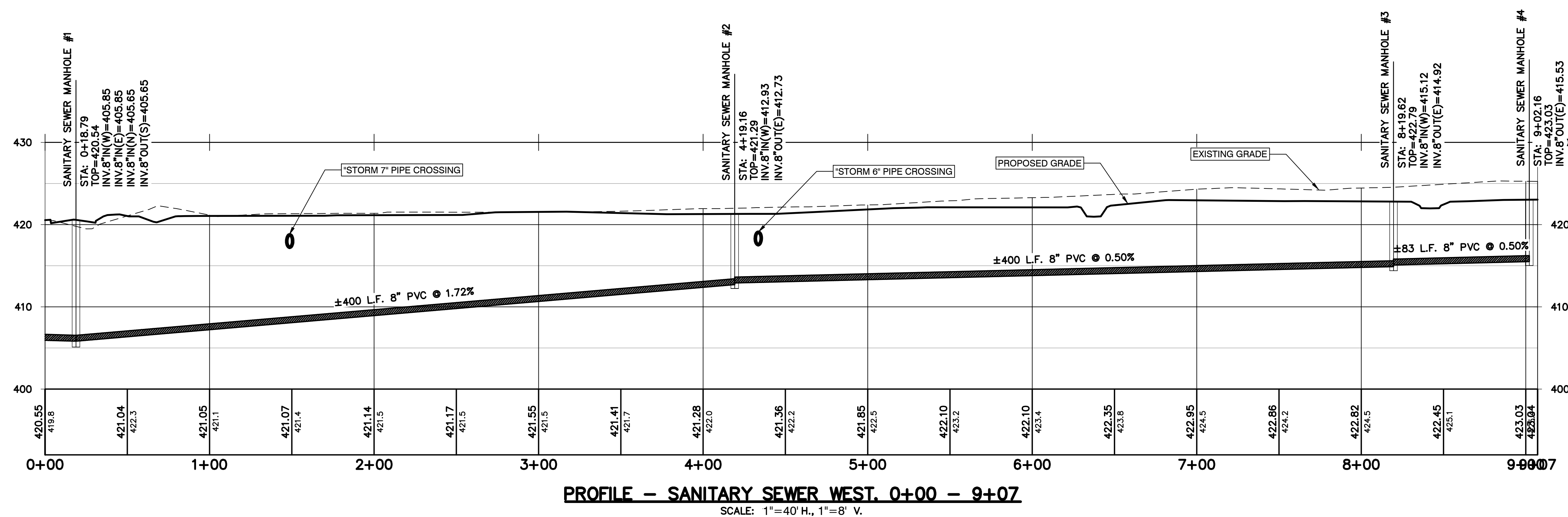
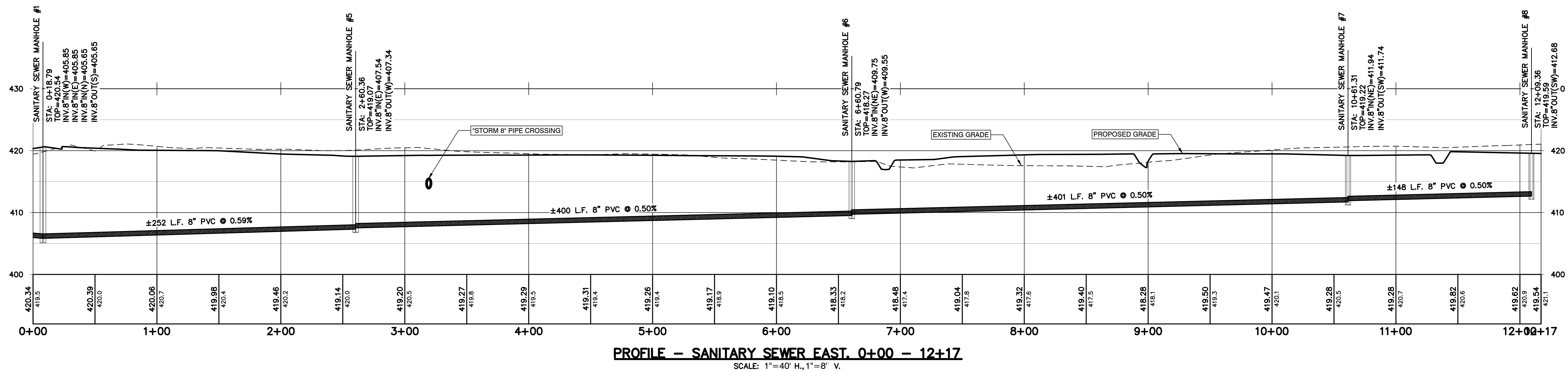
COA#: PEF006546 EXP: 6/30/2026



PROJECT NO.: STR-014
DATE: FEBRUARY 2025
SCALE: AS SHOWN

C3.2





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ENGINEERING

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SANITARY SEWER PROFILE

RUSSELL SPEC

BUILDING SITE PLAN

FOR

STROUD AND COMPANY

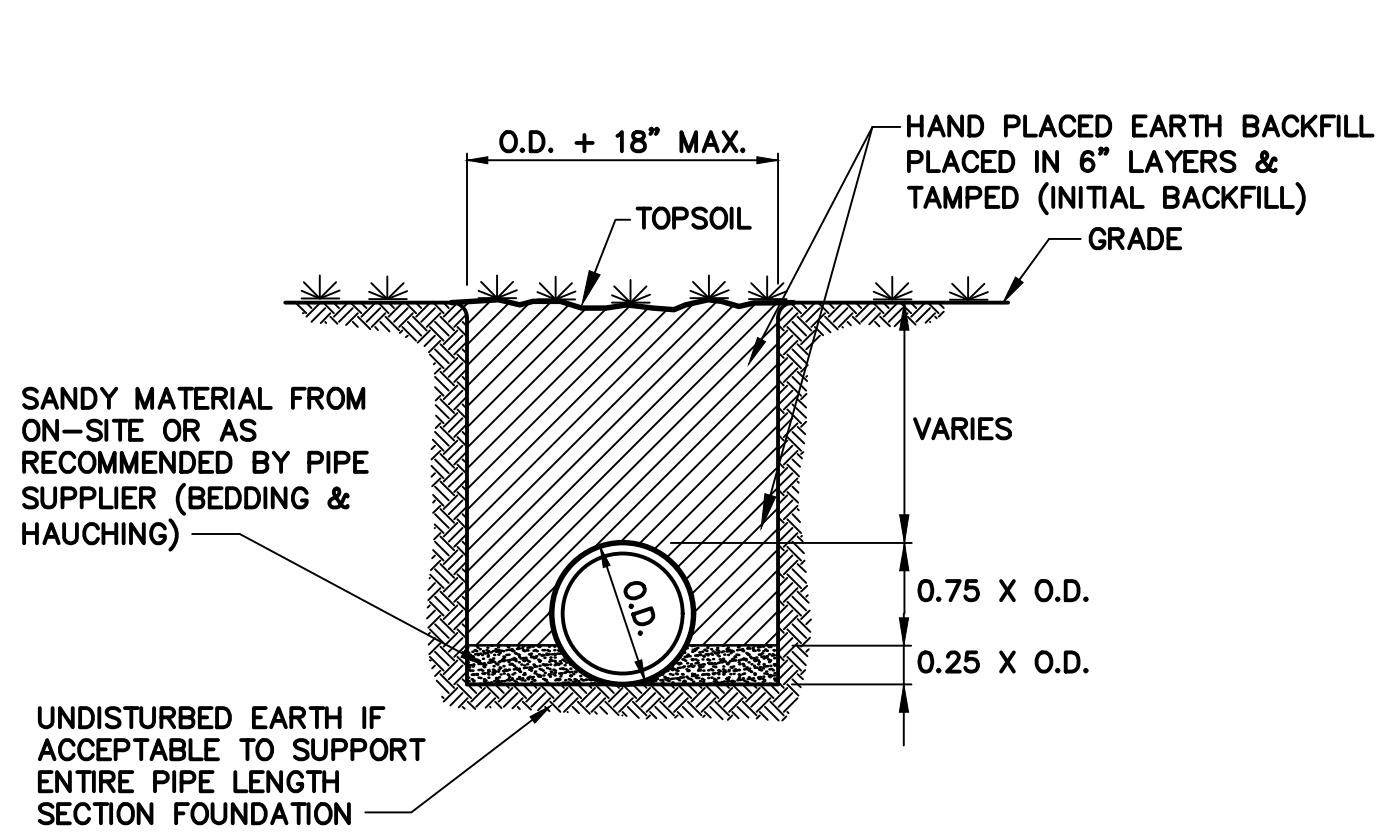
WARNER ROBINS, GA

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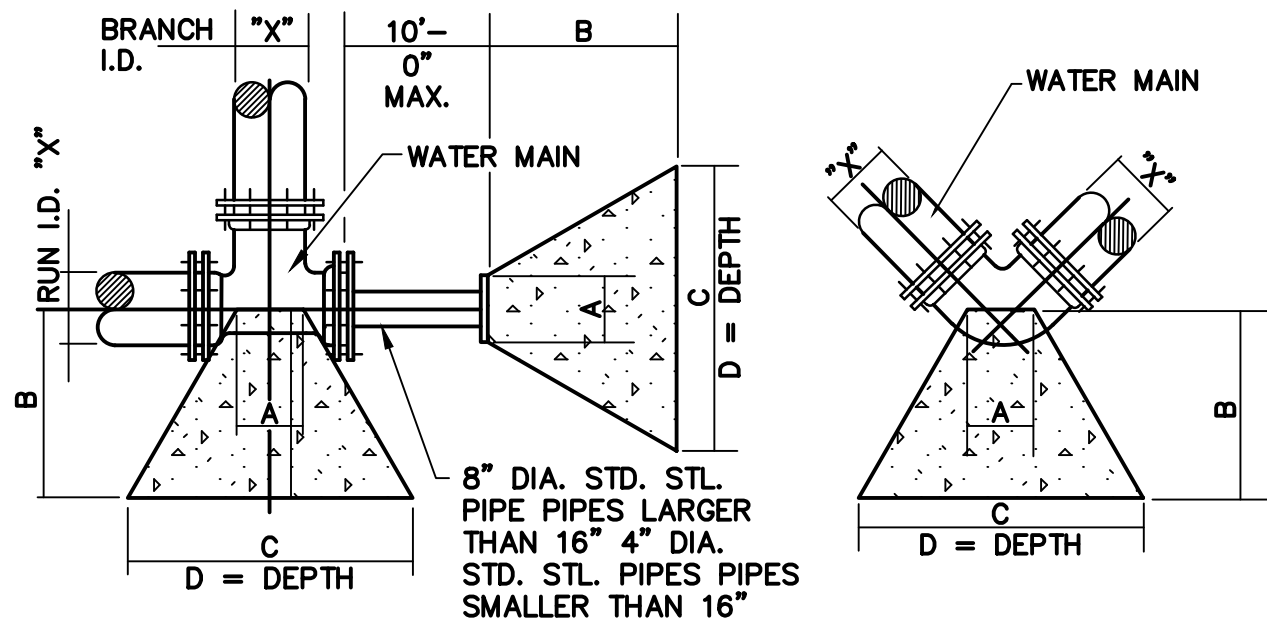
GEORGIA
REGISTERED
No. 50321
Clinton Sanders Terry
ENGINEER
CLINTON SANDERS TERRY
02/28/2020

PROJECT NO.: STR-014
DATE: FEBRUARY 2023
SCALE: AS SHOWN

C4.1



DETAIL - STORM SEWER BEDDING (ALL TYPES)
N.T.S.



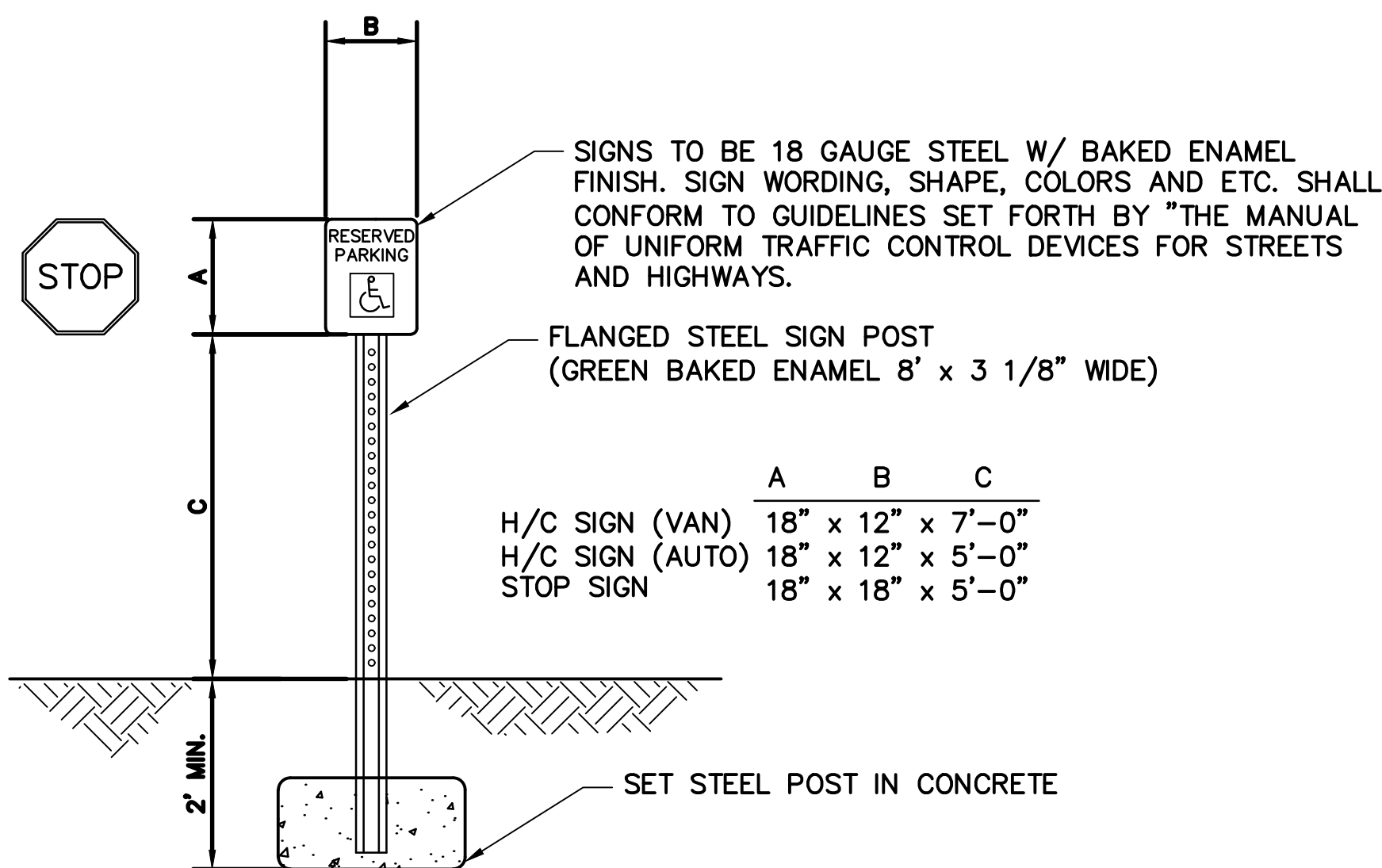
BLOCKING DIMENSIONS

BENDS										
	X	A	B	C	D	X	A	B	C	D
90° BEND	4"	6"	8"	1'-2"	1'-2"	4"	6"	6"	1'-0"	1'-0"
	6"	8"	1'-2"	1'-10"	1'-10"	6"	8"	6"	1'-0"	1'-0"
	8"	9"	1'-6"	2'-4"	2'-4"	8"	9"	8"	1'-4"	1'-4"
	10"	11"	1'-10"	3'-0"	3'-0"	10"	11"	8"	1'-8"	1'-8"
	12"	12"	2'-2"	3'-6"	3'-6"	12"	12"	10"	1'-10"	1'-10"
45° BEND	4"	6"	6"	1'-0"	1'-0"	4"	6"	6"	1'-0"	1'-0"
	6"	8"	8"	1'-4"	1'-4"	6"	8"	6"	1'-0"	1'-0"
	8"	9"	1'-0"	1'-10"	1'-10"	8"	9"	6"	1'-0"	1'-0"
	10"	11"	1'-2"	2'-2"	2'-2"	10"	11"	6"	1'-2"	1'-2"
	12"	12"	1'-6"	2'-8"	2'-8"	12"	12"	6"	1'-4"	1'-4"
BENDS										
	X	A	B	C	D	X	A	B	C	D
90° BEND	4"	6"	8"	1'-2"	1'-2"	4"	6"	6"	1'-0"	1'-0"
	6"	8"	1'-2"	1'-10"	1'-10"	6"	8"	6"	1'-0"	1'-0"
	8"	9"	1'-6"	2'-4"	2'-4"	8"	9"	8"	1'-4"	1'-4"
	10"	11"	1'-10"	3'-0"	3'-0"	10"	11"	8"	1'-8"	1'-8"
	12"	12"	2'-2"	3'-6"	3'-6"	12"	12"	10"	1'-10"	1'-10"
45° BEND	4"	6"	6"	1'-0"	1'-0"	4"	6"	6"	1'-0"	1'-0"
	6"	8"	8"	1'-4"	1'-4"	6"	8"	6"	1'-0"	1'-0"
	8"	9"	1'-0"	1'-10"	1'-10"	8"	9"	6"	1'-0"	1'-0"
	10"	11"	1'-2"	2'-2"	2'-2"	10"	11"	6"	1'-2"	1'-2"
	12"	12"	1'-6"	2'-8"	2'-8"	12"	12"	6"	1'-4"	1'-4"
BENDS										
	X	A	B	C	D	X	A	B	C	D
90° BEND	4"	6"	8"	1'-2"	1'-2"	4"	6"	6"	1'-0"	1'-0"
	6"	8"	1'-2"	1'-10"	1'-10"	6"	8"	6"	1'-0"	1'-0"
	8"	9"	1'-6"	2'-4"	2'-4"	8"	9"	8"	1'-4"	1'-4"
	10"	11"	1'-10"	3'-0"	3'-0"	10"	11"	8"	1'-8"	1'-8"
	12"	12"	2'-2"	3'-6"	3'-6"	12"	12"	10"	1'-10"	1'-10"
45° BEND	4"	6"	6"	1'-0"	1'-0"	4"	6"	6"	1'-0"	1'-0"
	6"	8"	8"	1'-4"	1'-4"	6"	8"	6"	1'-0"	1'-0"
	8"	9"	1'-0"	1'-10"	1'-10"	8"	9"	6"	1'-0"	1'-0"
	10"	11"	1'-2"	2'-2"	2'-2"	10"	11"	6"	1'-2"	1'-2"
	12"	12"	1'-6"	2'-8"	2'-8"	12"	12"	6"	1'-4"	1'-4"

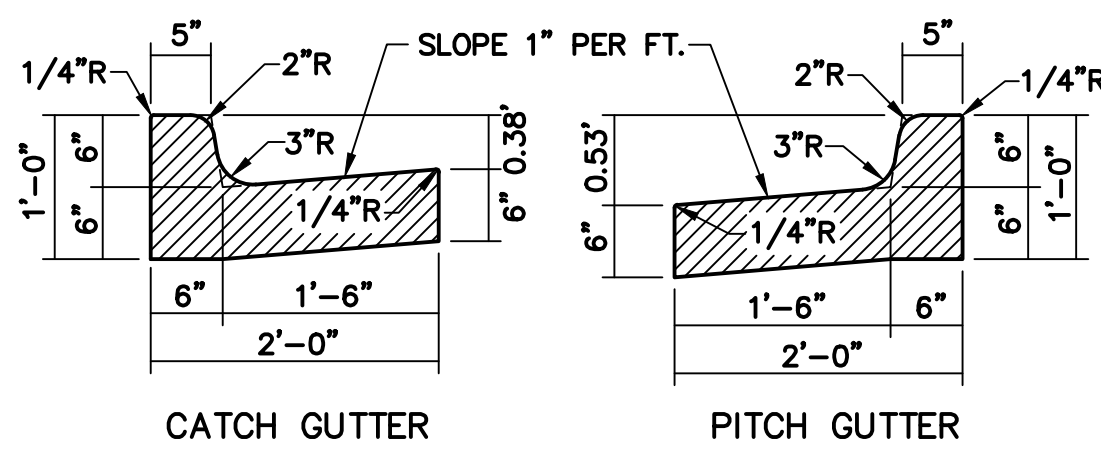
TEES & DEAD ENDS				
X	A	B	C	D
4"	6"	6"	1'-0"	1'-0"
6"	8"	10"	1'-6"	1'-6"
8"	9"	1'-2"	2'-0"	2'-0"
10"	11"	1'-6"	2'-6"	2'-6"
12"	12"	1'-10"	3'-0"	3'-0"

NOTE: 150 P.S.I. TEST PRESSURE SOIL BEARING OF 2000 P.S.F. 3000 P.S.I. CONCRETE.
ALL C AND D'S HAVE MIN. OF 1'-0"

DETAIL - THRUST BLOCK
N.T.S.

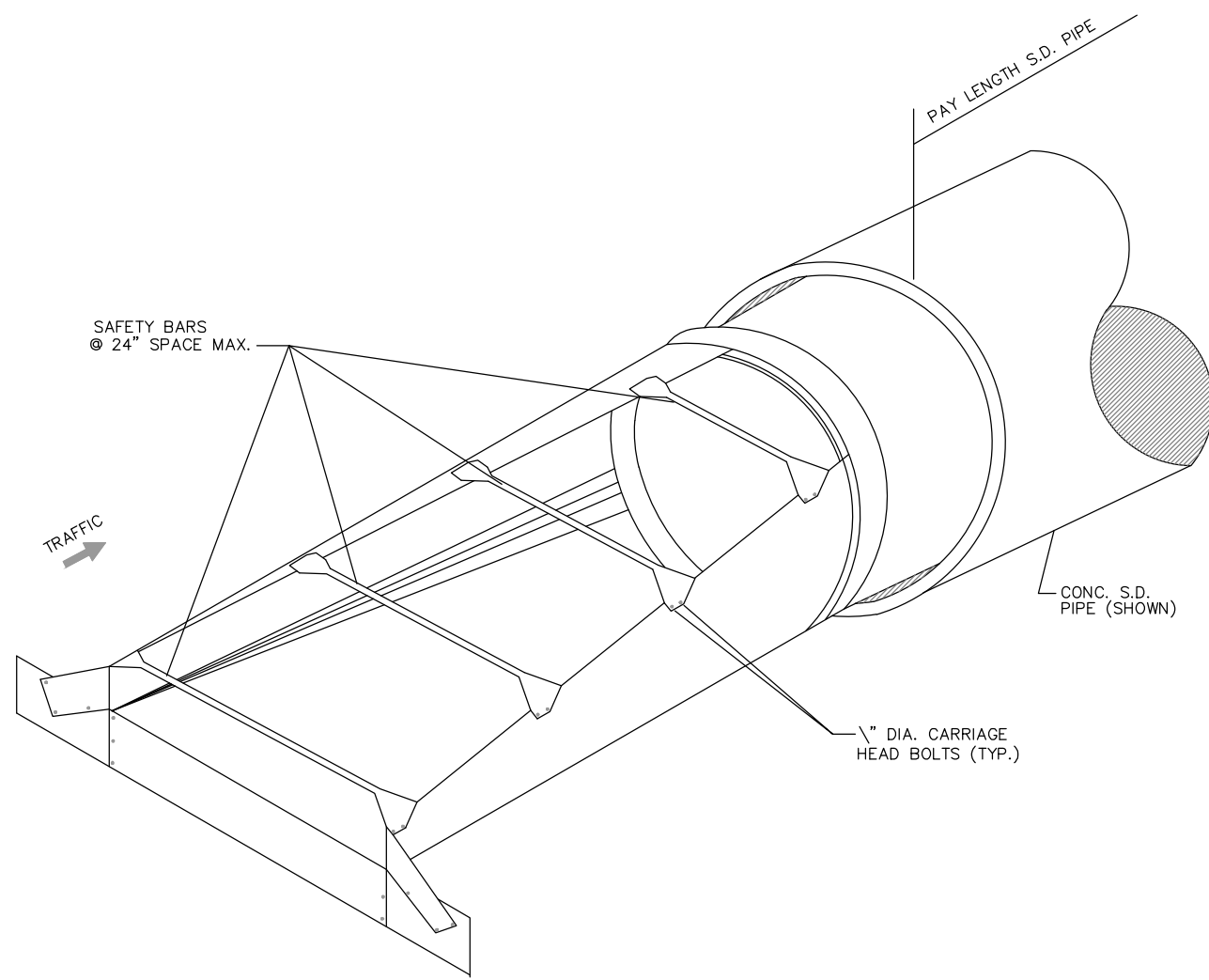


DETAIL - SIGNAGE
N.T.S.

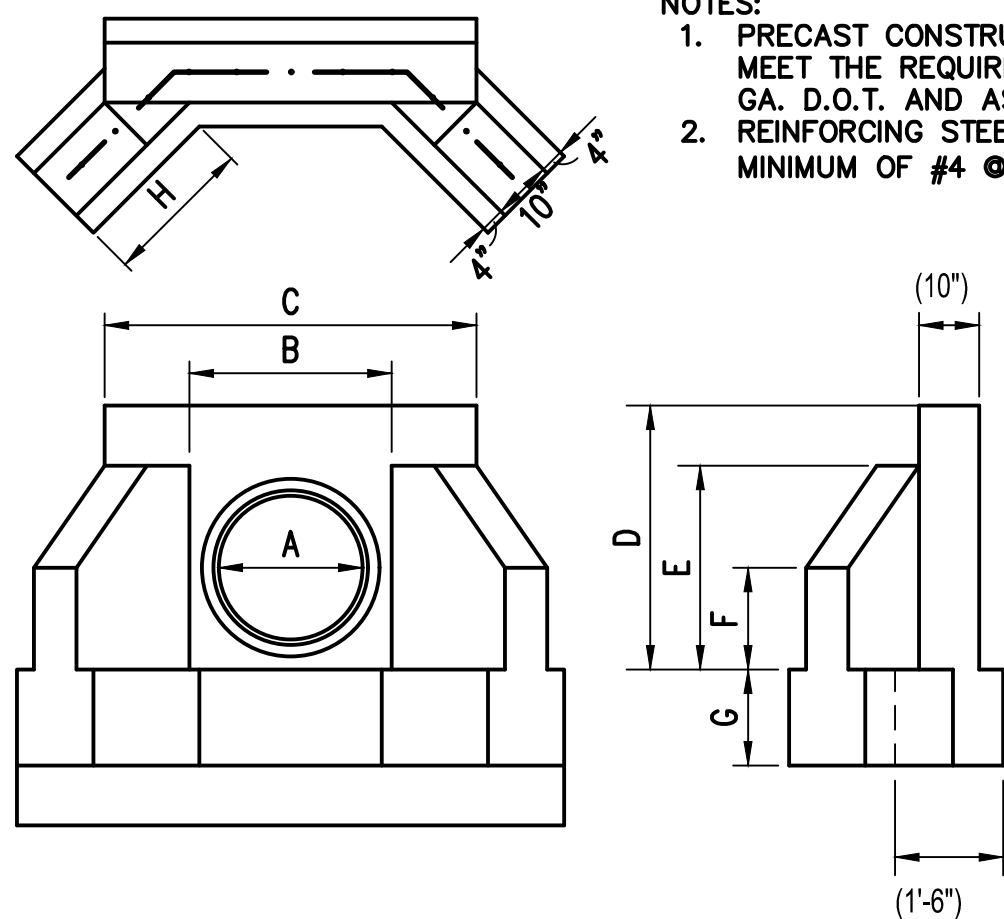


- NOTES:
- 1/2" PERFORMED EXPANSION JOINTS REQUIRED AT ALL STRUCTURES & CURB RETURNS.
 - MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS = 40.0'.
 - DISTANCE BETWEEN DUMMY JOINTS = 10.0'.
 - CONCRETE STRENGTH - 3000 PSI; SLUMP 2"; FINISH SHALL BE SMOOTHED & EVENED WITH A WOODEN FLOAT.
 - PITCHED GUTTER TO BE USED WHERE PAVEMENT DRAINS AWAY FROM CURB AND CATCH GUTTER TO BE USED WHERE PAVEMENT DRAINS TOWARD CURB.
 - FIVE FOOT LONG TRANSITIONS SHALL BE PROVIDED BETWEEN CATCH GUTTER & PITCH GUTTER.

DETAIL - 24" CONCRETE CURB & GUTTER
N.T.S.



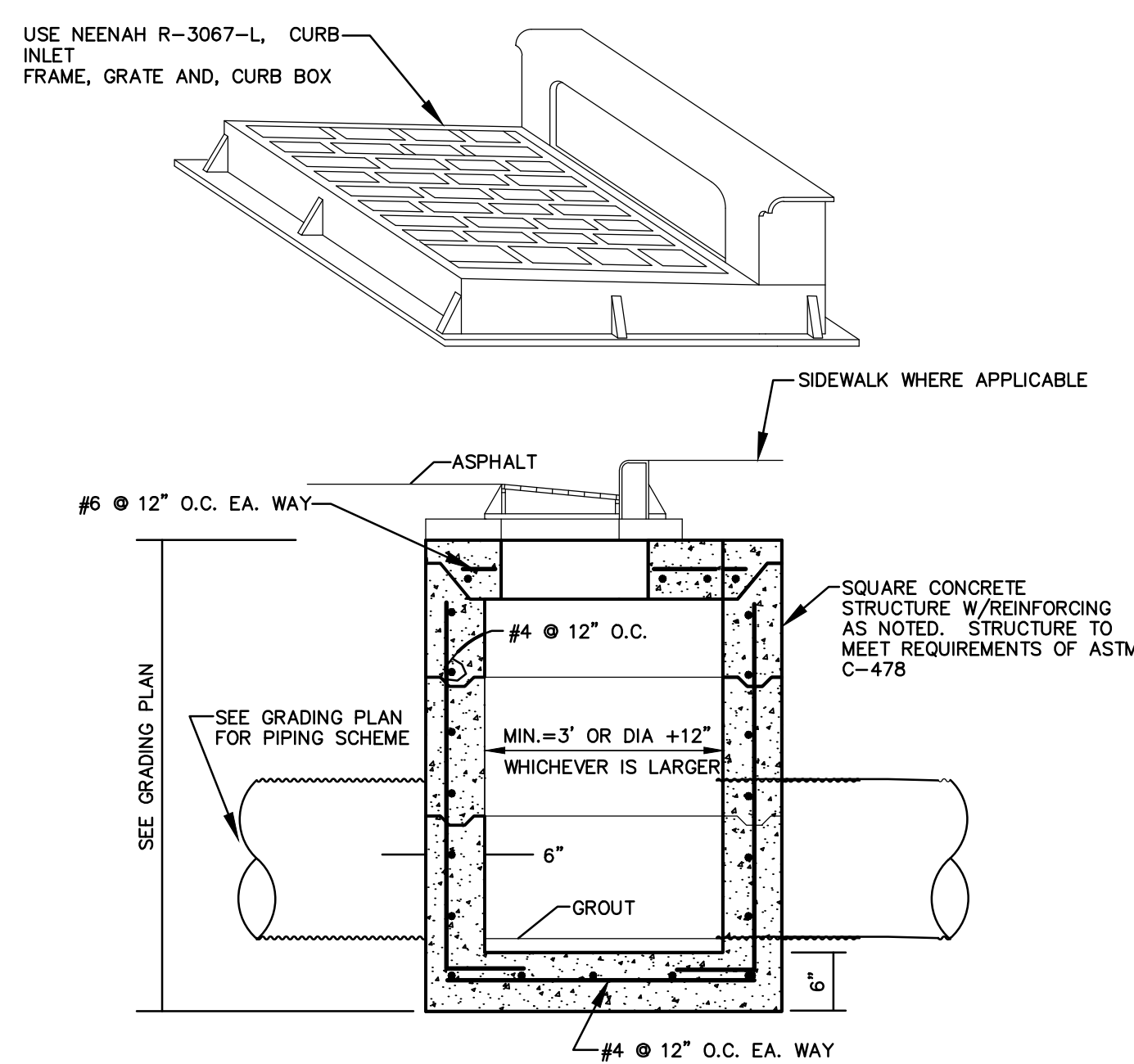
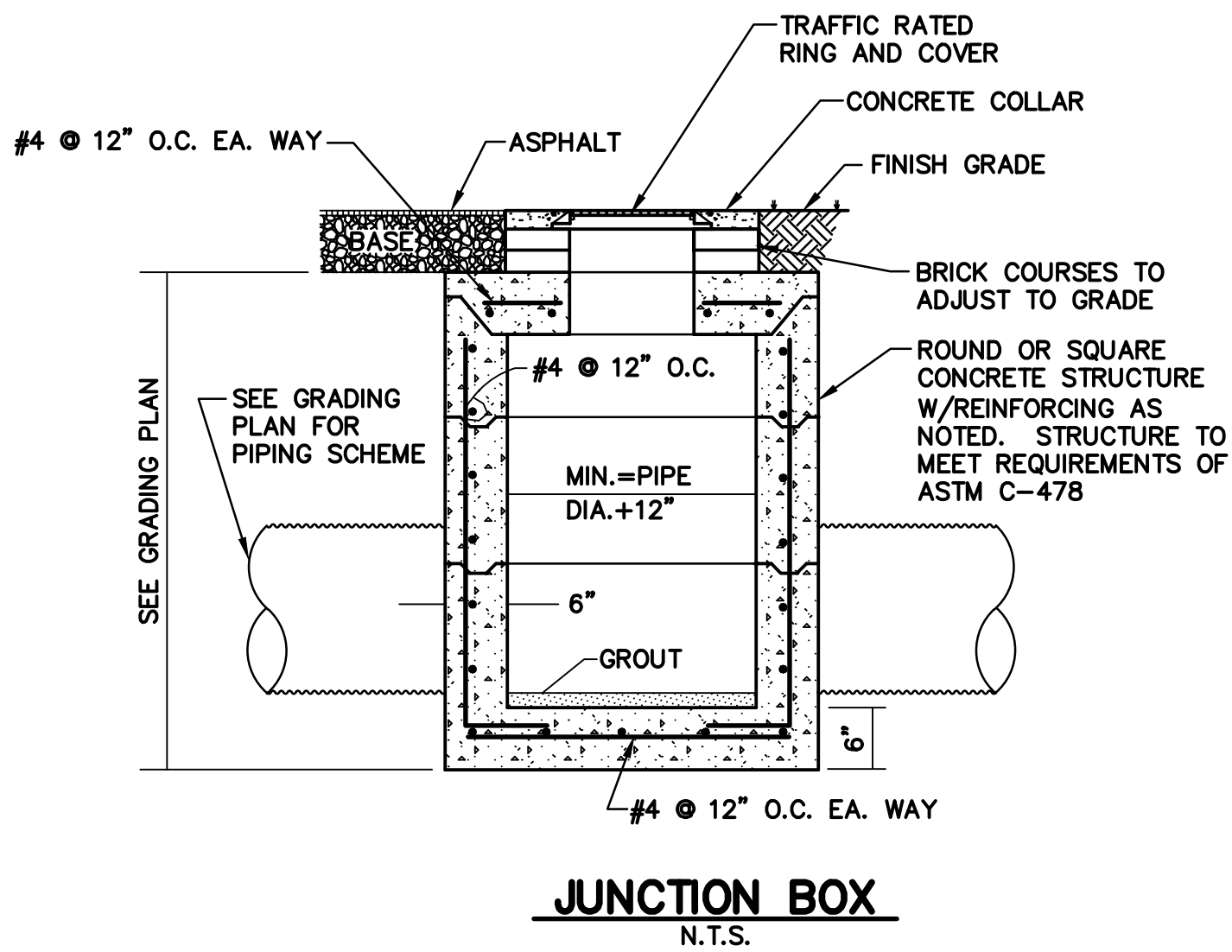
D.O.T. SAFETY SLOPE END SECTION DETAIL
N.T.S.



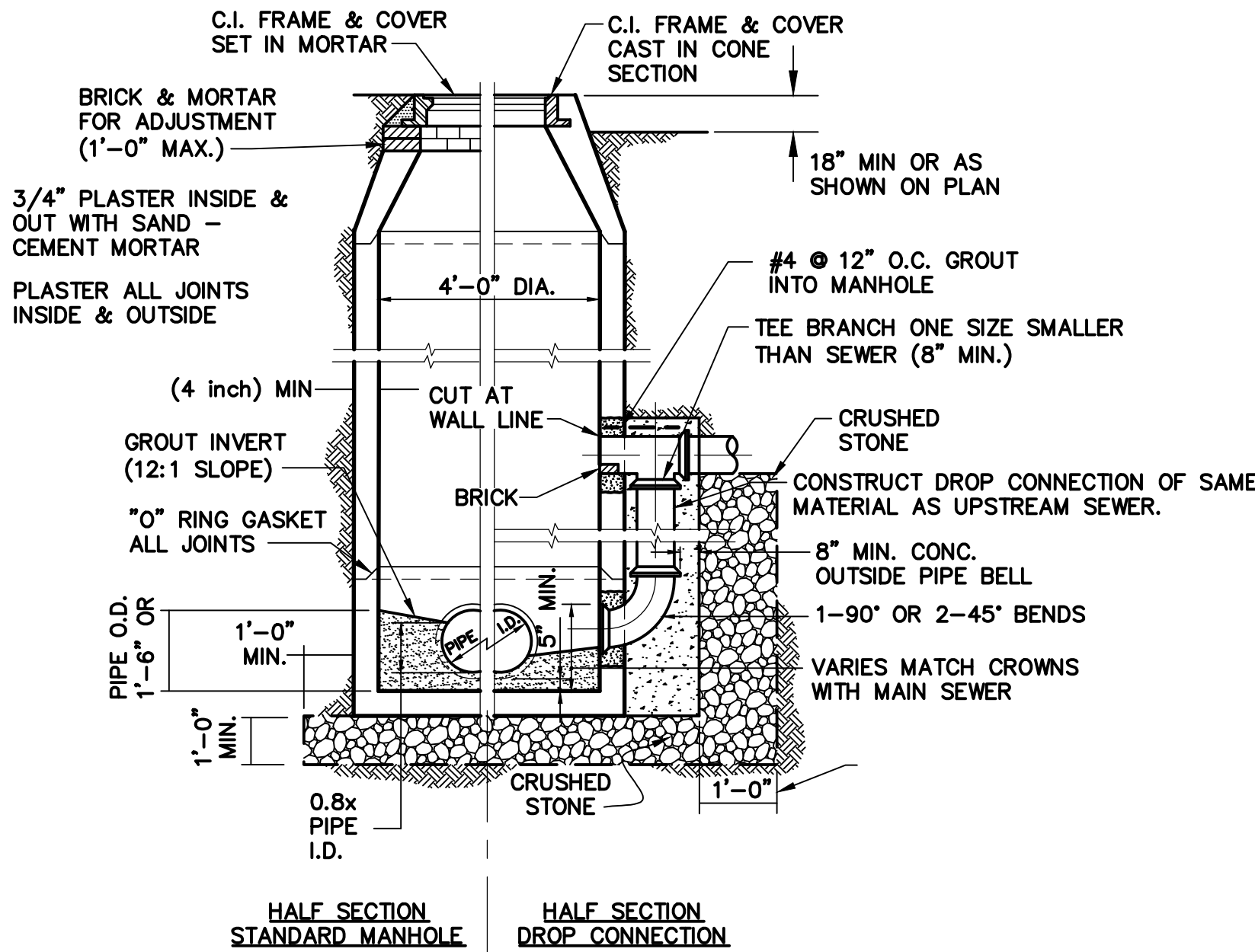
ENGLISH I-P UNITS

"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"
12"	1'-8"	4'-0"	2'-6"	1'-8"	1'-2"	1'-3"	1'-7"
15"	2'-0"	4'-4"	2'-10"	2'-0"	1'-3"	1'-3"	1'-7"
18"	2'-4"	4'-8"	3'-2"	2'-4"	1'-4"	1'-3"	1'-7"
24"	2'-10"	5'-2"	3'-8"	2'-10"	1'-5"	1'-4"	2'-1"
30"	3'-6"	5'-10"	4'-4"	3'-6"	1'-9"	1'-6"	2'-5"
36"	4'-0"	6'-4"	4'-10"	4'-0"	2'-0"	1'-8"	2'-11"
42"	4'-6"	6'-10"	5'-4"	4'-6"	2'-3"	2'-0"	3'-6"
48"	5'-2"	7'-6"	6'-0"	5'-2"	2'-6"	2'-0"	4'-0"
54"	5'-9"	8'-1"	6'-7"	5'-9"	2'-9"	2'-0"	4'-6"
60"	6'-4"	8'-8"	7'-2"	6'-4"	3'-0"	2'-2"	5'-0"

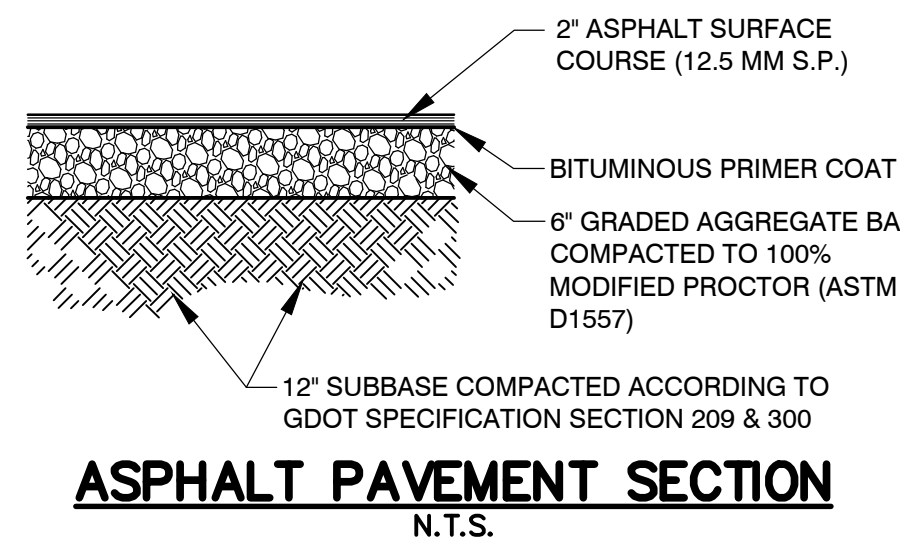
DETAIL - PRECAST CONCRETE HEADWALL
N.T.S.



CURB INLET - HOOD & GRATE DROP INLET DETAIL
N.T.S.



DETAIL - PRECAST CONCRETE MANHOLE
N.T.S.



ASPHALT PAVEMENT SECTION
N.T.S.



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NO.	DATE	DESCRIPTION

TRIPLE POINT ENGINEERING

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MISCELLANEOUS SITE DETAILS

RUSSELL SPEC BUILDING SITE PLAN FOR STRAUD AND COMPANY
WARNER ROBINS, GA

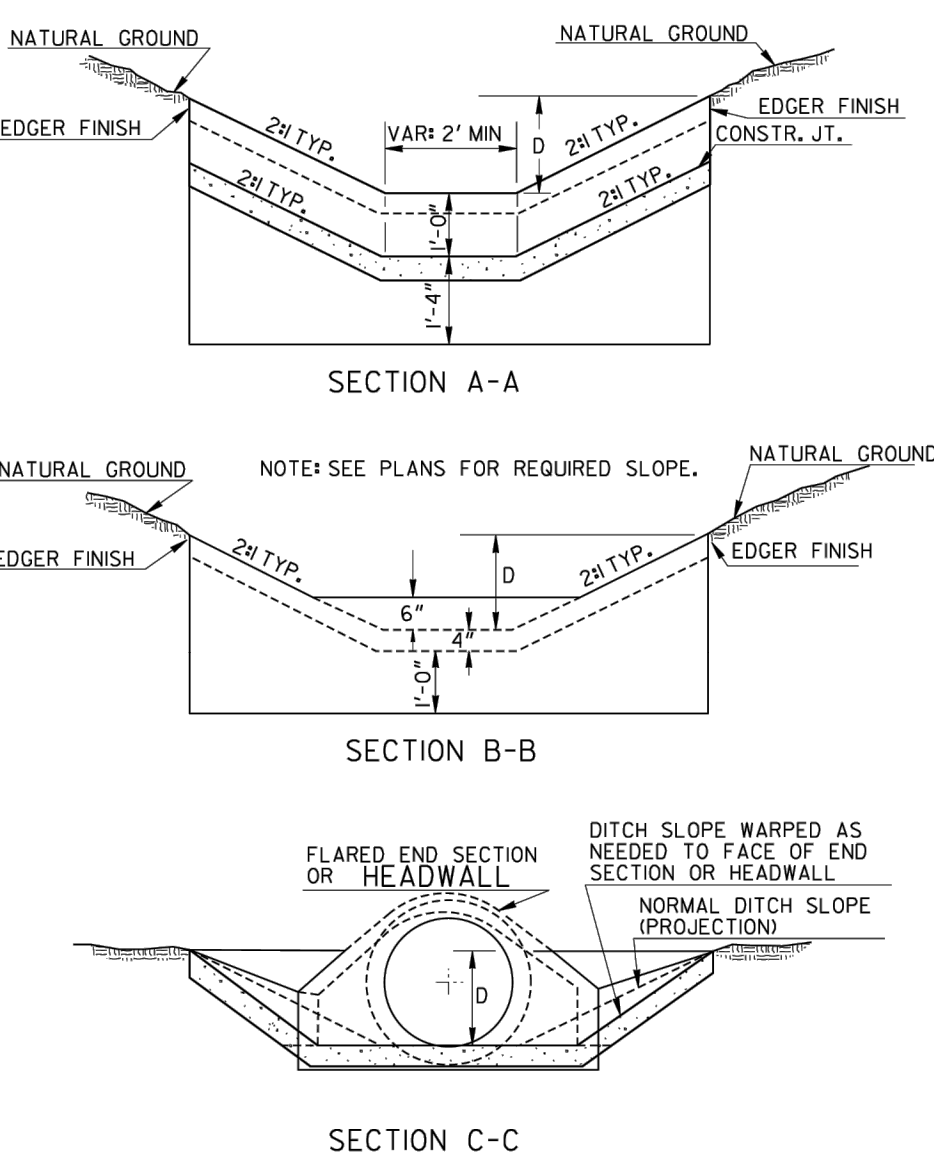
COA# PEFO06546 EXP: 6/30/2026

GEORGIA REGISTERED PROFESSIONAL ENGINEER
CLYTON SANDERS TERRY
02/28/2025

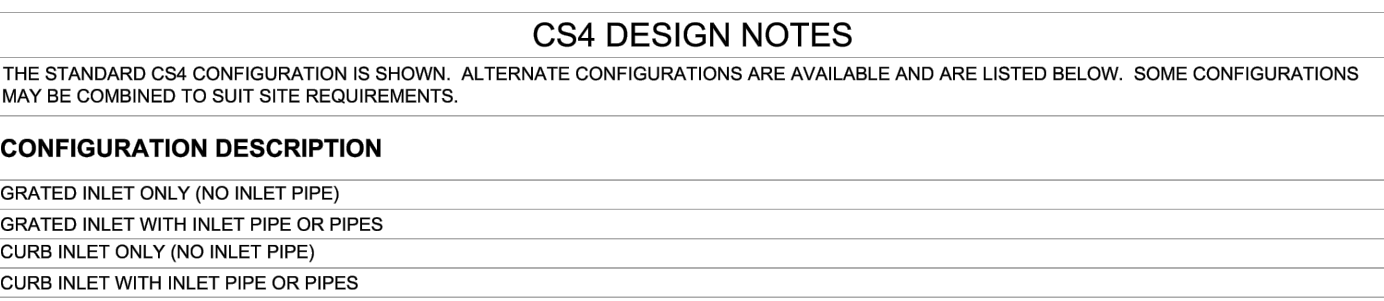
PROJECT NO.: STR-014
DATE: FEBRUARY 2025
SCALE: NTS

C5.0

 Georgia Department of Transportation	P. I. No.
	XXXXXXXX



	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
	REVISION	CONSTRUCTION DETAIL 4" CONCRETE DITCH PAVING <i>DETAILS AND QUANTITIES</i>	
BY		JANUARY 1988 NOT TO SCALE	NUMBER D-10



SITE SPECIFIC DATA REQUIREMENTS				
STRUCTURE ID				*
WATER QUALITY FLOW RATE (CFS OR L/s)				*
PEAK FLOW RATE (CFS OR L/s)				*
RETURN PERIOD OF PEAK FLOW (YRS)				*
PIPE DATA:	I.E.	MATERIAL		DIAMETER
INLET PIPE 1	*	*		*
INLET PIPE 2	*	*		*
OUTLET PIPE	*	*		*
RIM ELEVATION				*
ANTI-FLOTTATION BALLAST		WIDTH		HEIGHT
				*
NOTES/SPECIAL REQUIREMENTS:				
* PER ENGINEER OF RECORD				

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contech.com
3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THE CONTECH CONTRACT DOCUMENTS. SEE THE CONTECH CONTRACT DOCUMENTS FOR ALL SPECIFICATIONS AND REQUIREMENTS.
4. STRUCTURE SHALL MEET AASHTO H250 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2", AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INLET ELEVATION. ENGINEER OR RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M208 AND BE CAST WITH THE CONTECH LOGO.
5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES

- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- B. CONTRACTOR TO PROVIDE LIFTING AND SHORING WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
- C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTRLINES TO MATCH PIPE OPENING CENTRLINES.
- E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

 ENGINEERED SOLUTIONS LLC www.contechES.com 9025 Centre Pointe Dr., Suite 400, West Chester, OH 45390 800.328.1199 610.645.7000 610.645.7099 FAX	CS4 CASCADE SEPARATOR STANDARD DETAIL
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CS4
CASCADE SEPARATOR
STANDARD DETAIL

[illegible]

TRIPLE POINT
ENGINEERING

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RUSSELL SPEC
 BUILDING SITE PLAN
 FOR
 STROUD AND COMPANY
 WARNER ROBINS, GA

JOB#: PEF006546 EXP: 6/30/2026

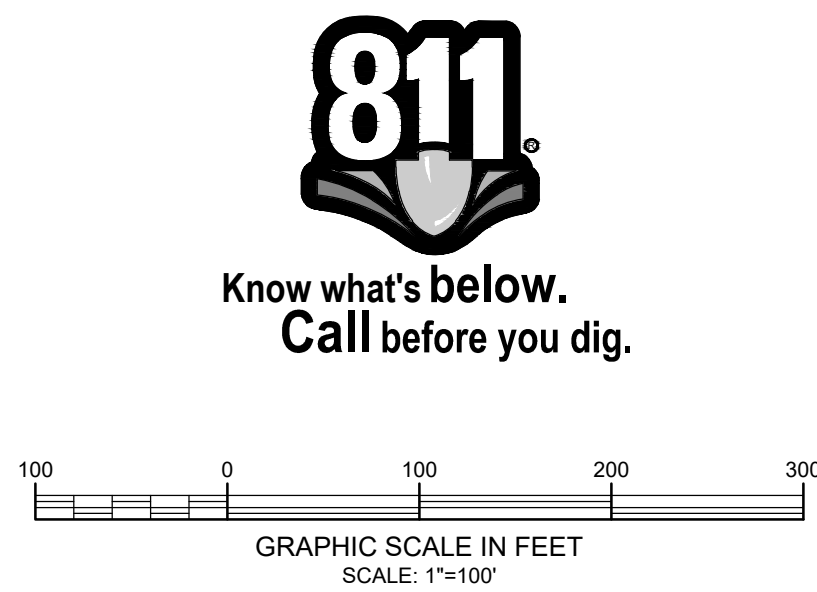
 PROJECT NO.: STR-014
 DATE: FEBRUARY 2025
 SCALE: NTS

 C5.1

St									
ST LOCATION	DIAM. (IN) Do	W1	W2	La (FT.)	AREA (S.F.)	V 25 (FPS)	Q 25 (CFS)	d 50	D
ST #1	18"	4.50'	10.5'	9'	67.5	4.76	7.67	9"	1.7'
ST #2	15"	3.75'	9.25'	8'	52	0.66	0.52	9"	1.7'
ST #3	15"	3.75'	9.25'	8'	52	0.67	0.53	9"	1.7'
ST #4	15"	3.75'	9.25'	8'	52	0.67	0.53	9"	1.7'
ST #5	15"	3.75'	9.25'	8'	52	1.35	1.28	9"	1.7'
ST #6	15"	3.75'	9.25'	8'	52	3.82	4.16	9"	1.7'
ST #7	15"	3.75'	9.25'	8'	52	0.67	0.53	9"	1.7'
ST #8	15"	3.75'	9.25'	8'	52	0.67	0.53	9"	1.7'
ST #9	15"	3.75'	9.25'	8'	52	0.67	0.53	9"	1.7'
ST #10	15"	3.75'	9.25'	8'	52	1.16	0.99	9"	1.7'

NOTE:
ANY d50 LESS THAN 9" USE D.O.T. TYPE 3 STONE (d50=9").
APRON DEPTH "D" = 2.25 * 9" = 20.25' (1.7') WHERE D.O.T.
TYPE 3 STONE IS USED.

*SEE NOTE BELOW



Retrofit Sediment Storage Calculations Pond A

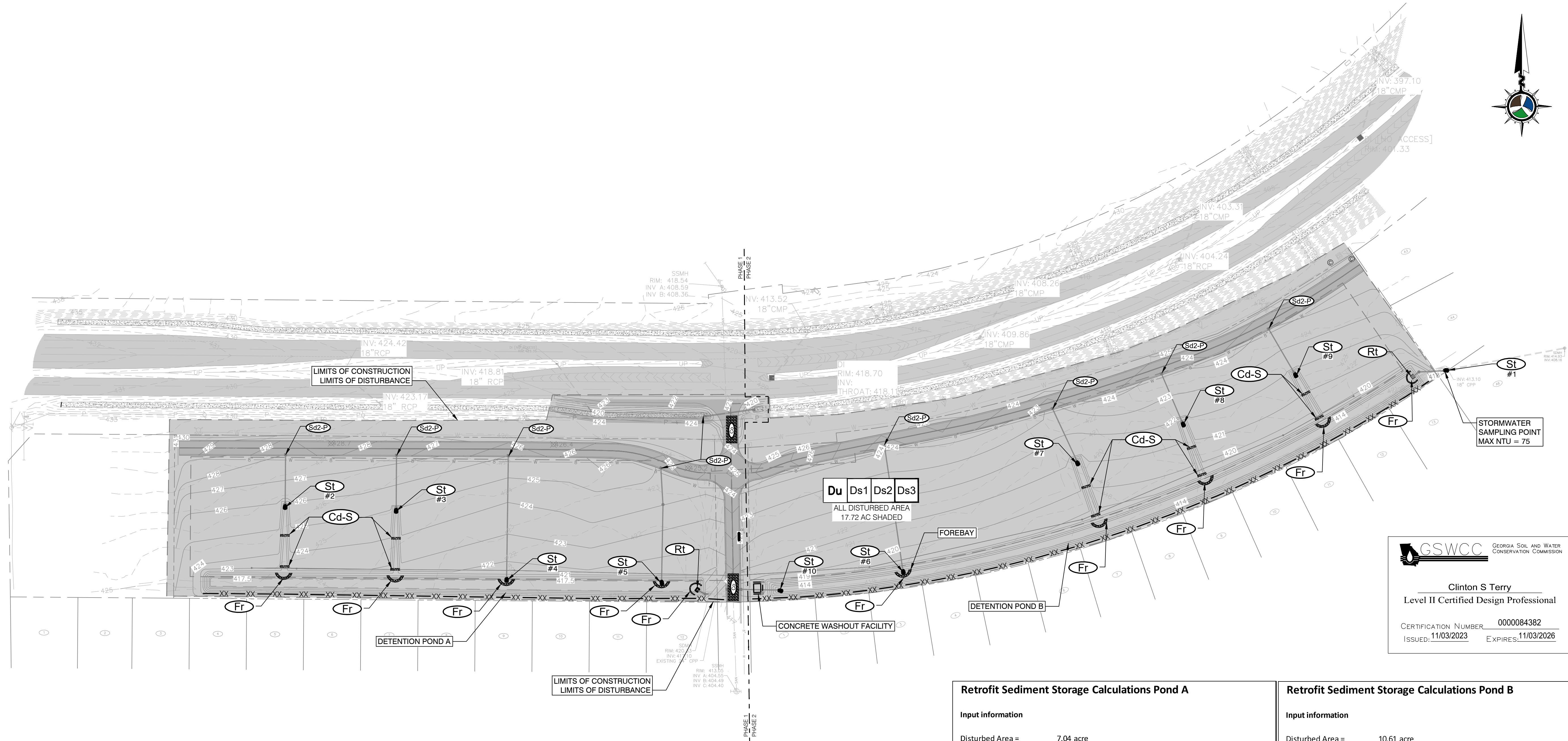
Input information

- Disturbed Area = 7.04 acre
1. Required Stormwater storage = 61,491 cf or *25-yr storm
(as determined by local ordinance) 2,277.44 cy
2. Required Sediment Storage = 472 cy
(67 cy/ac * Acre, disturbed area)
3. Total required storage = (1) + (2) = 2,749 cy
4. Available storage = 3,125 cy
5. Is the available storage (4) greater than the total required storage (3)?
☒ 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 = 417.5 ft
(elev. corresponding to 22 cy/ac * acre, disturbed area = 154.9 cy)
8. Is the length-width ratio 2:1 or greater?
☒ yes ☐ no
9. If "no", the length of flow must be increased. Choose the method to be used.
☐ Baffles (Type of baffle: _____)
☐ Other _____

Retrofit Sediment Storage Calculations Pond B

Input information

- Disturbed Area = 10.61 acre
1. Required Stormwater storage = 70,563 cf or *25-yr storm
(as determined by local ordinance) 2,613.44 cy
2. Required Sediment Storage = 711 cy
(67 cy/ac * Acre, disturbed area)
3. Total required storage = (1) + (2) = 3,324 cy
4. Available storage = 5,337 cy
5. Is the available storage (4) greater than the total required storage (3)?
☒ 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 = 414.5 ft
(elev. corresponding to 22 cy/ac * acre, disturbed area = 233.4 cy)
8. Is the length-width ratio 2:1 or greater?
☒ yes ☐ no
9. If "no", the length of flow must be increased. Choose the method to be used.
☐ Baffles (Type of baffle: _____)
☐ Other _____



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INTERMEDIATE ES&PC PLAN

RUSSELL SPEC BUILDING SITE PLAN FOR STROUD AND COMPANY WARNER ROBINS, GA

COA# PEFO06546 EXP: 6/30/2026

REGISTERED PROFESSIONAL ENGINEER CLINTON SANDERS TERRY 02/28/2025

PROJECT NO.: STR-014
DATE: FEBRUARY 2025
SCALE: AS SHOWN

C6.1

GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

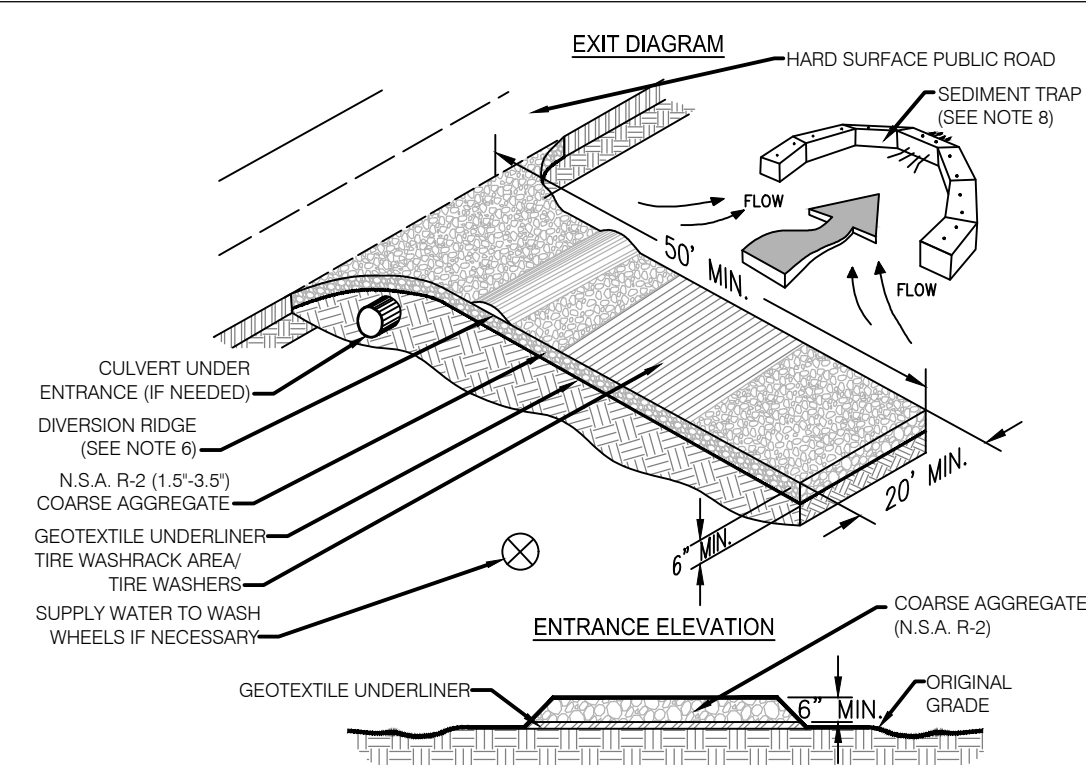
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES				
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	DEODUM			A small temporary barrier or dam constructed across a work, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Ca	CONSTRUCTION EXIT			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			A brawley 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 DRAINAGE STRUCTURE			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 DRAINAGE STRUCTURE			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			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			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			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			A barrier to prevent sediment from leaving the construction site. It may be a temporary structure of straw or hay, brush, logs and poles, gravel, or a dirt fence.
So2	INLET 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			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 dam or dike.
Sk	FLOATING SURFACE SPINNER			A buoyant device that releases/draws water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Syb	SEEP BERM			A linear control device constructed as a diversion perpendicular to the direction of erosion dispersion and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES				
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN PROTECTION			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			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating boom, wall, barrier, or silt curtain.
Tp	TOPSOILING			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			To protect desirable trees from injury during construction activity.
Wt	VEGETATED MATS/STRIP OR STORMWATER CONVEYANCE			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

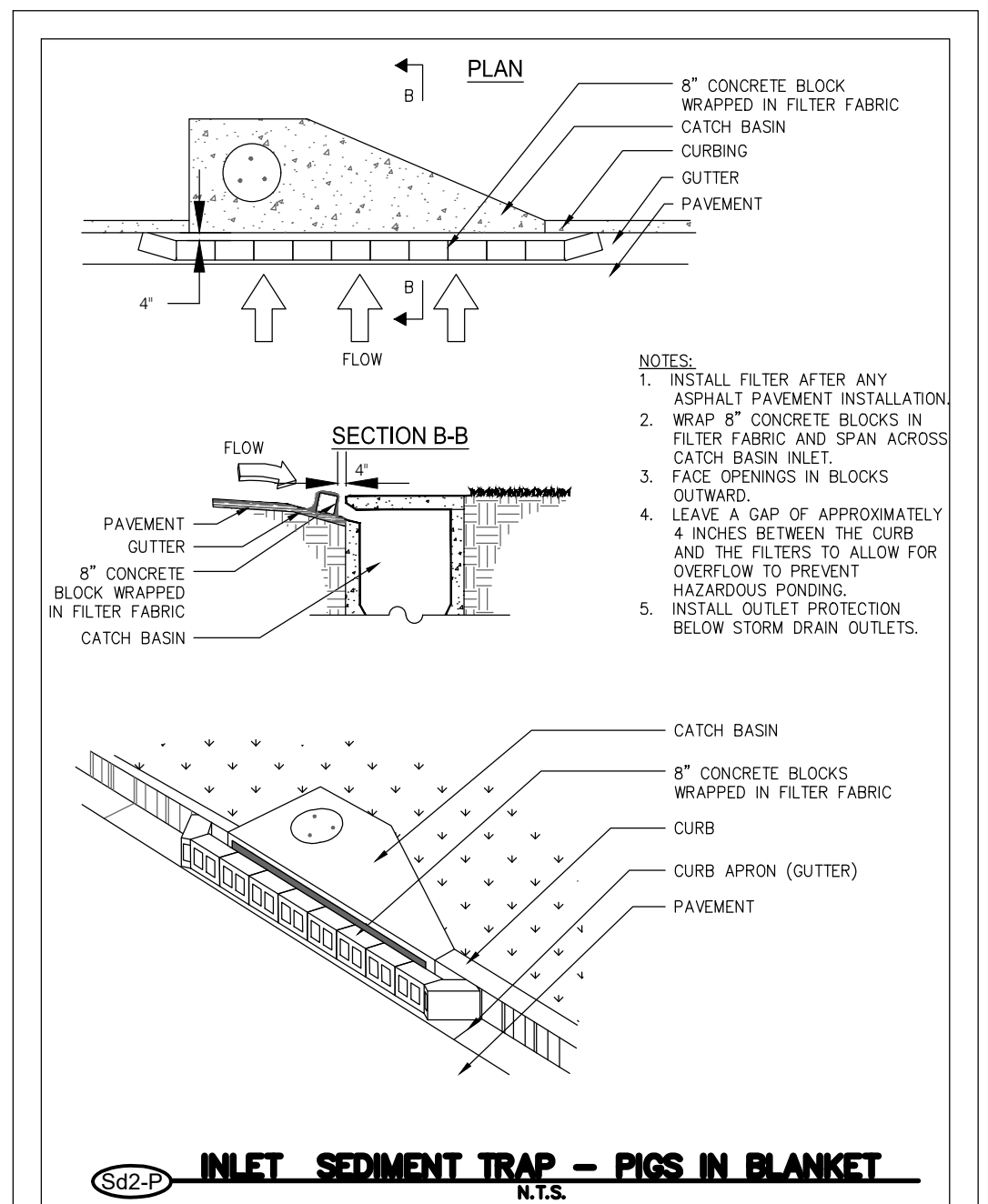
VEGETATIVE PRACTICES				
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Cs	COASTAL DUNE STABILIZATION WITH VEGETATION			Planting vegetation on dunes that are denuded or artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (W/VEGETATION ONLY)			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 (W/VEGETATION AND TOP SOIL SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (W/VEGETATION AND TOP SOIL SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (W/VEGETATION AND TOP SOIL SEEDING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON PAVED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solid/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (W/VEGETATION)			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	SILT STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKLE AND BINDERS			Substance used to anchor straw or hay matting by causing the organic material to bind together.

GSWCC (Amended - 2013)



- 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.
 11. THE CONSTRUCTION EXIT MAY BE RELOCATED AT THE DISCRETION OF THE CONTRACTOR. ALL CONSTRUCTION EQUIPMENT LEAVING THE SITE SHALL UTILIZE THE CONSTRUCTION EXIT TO MINIMIZE SOIL TRACKING ONTO PAVED SURFACES.

Co CONSTRUCTION EXIT
N.T.S.



Sd2-P INLET SEDIMENT TRAP - PIGS IN BLANKET
N.T.S.

Du DUST SHALL BE CONTROLLED ON THIS SITE BY APPLYING A WATER SPRAY TO DISTURBED AREAS AS NEEDED.

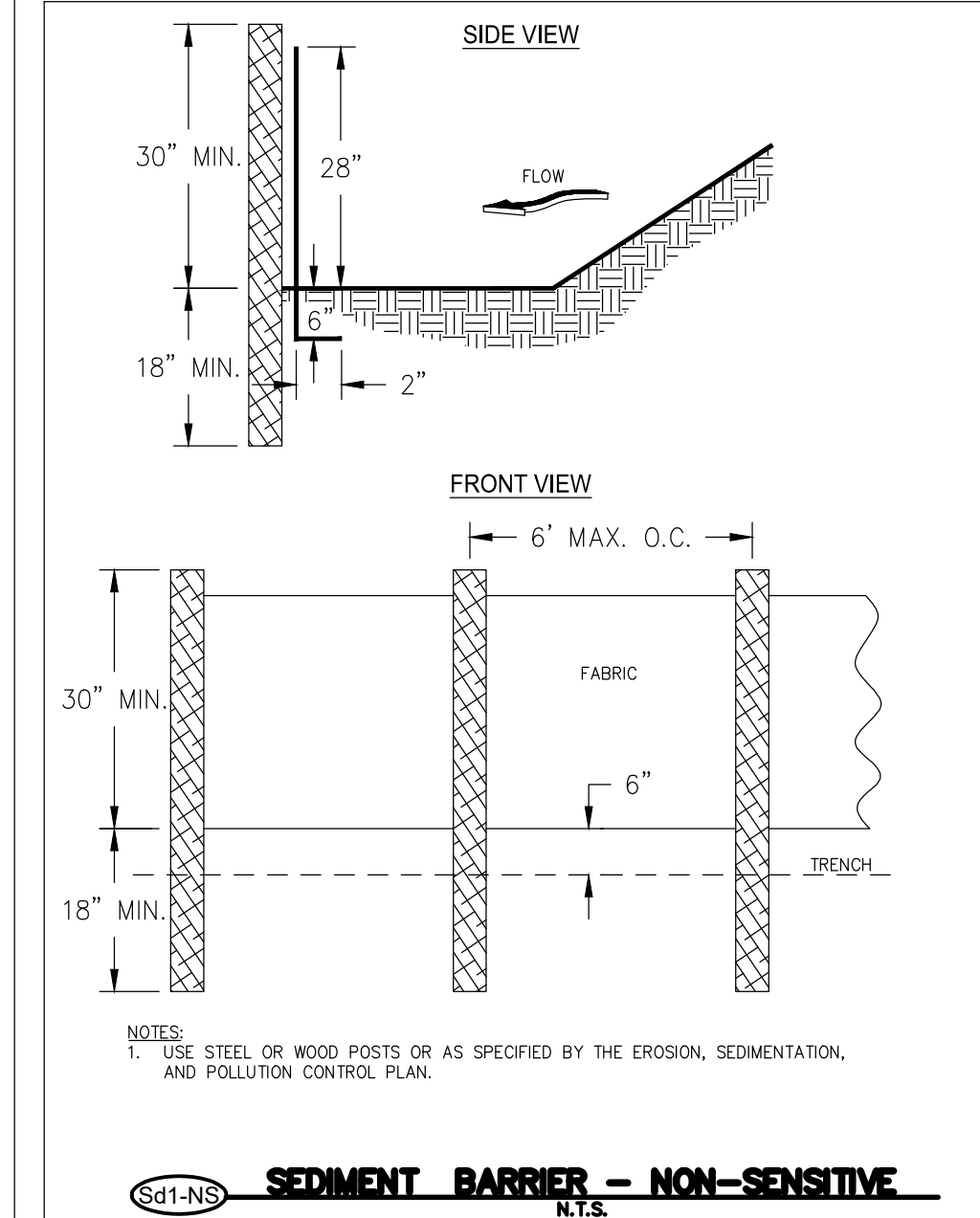
Ds1 MULCHING RATES:
DRY STRAW OR HAY - SPREAD AT A RATE OF 2 1/2 TONS PER ACRE. WOOD WASTE, CHIPS, SAWDUST, OR BARK - SPREAD 2 TO 3 INCHES DEEP. EROSION CONTROL MATTING OR NETTING - APPLY IN ACCORDANCE WITH MFG. REC'S. CUTBACK ASPHALT, SLOW CURING - APPLY AT 1200 GALLONS PER ACRE. POLYETHYLENE FILM - SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR PROTECTION.

Ds2 TEMPORARY VEGETATIVE SPECIFICATIONS:
TEMP. GRASSING SHALL BEGIN 2 WEEKS FOLLOWING INITIAL DISTURBANCE.

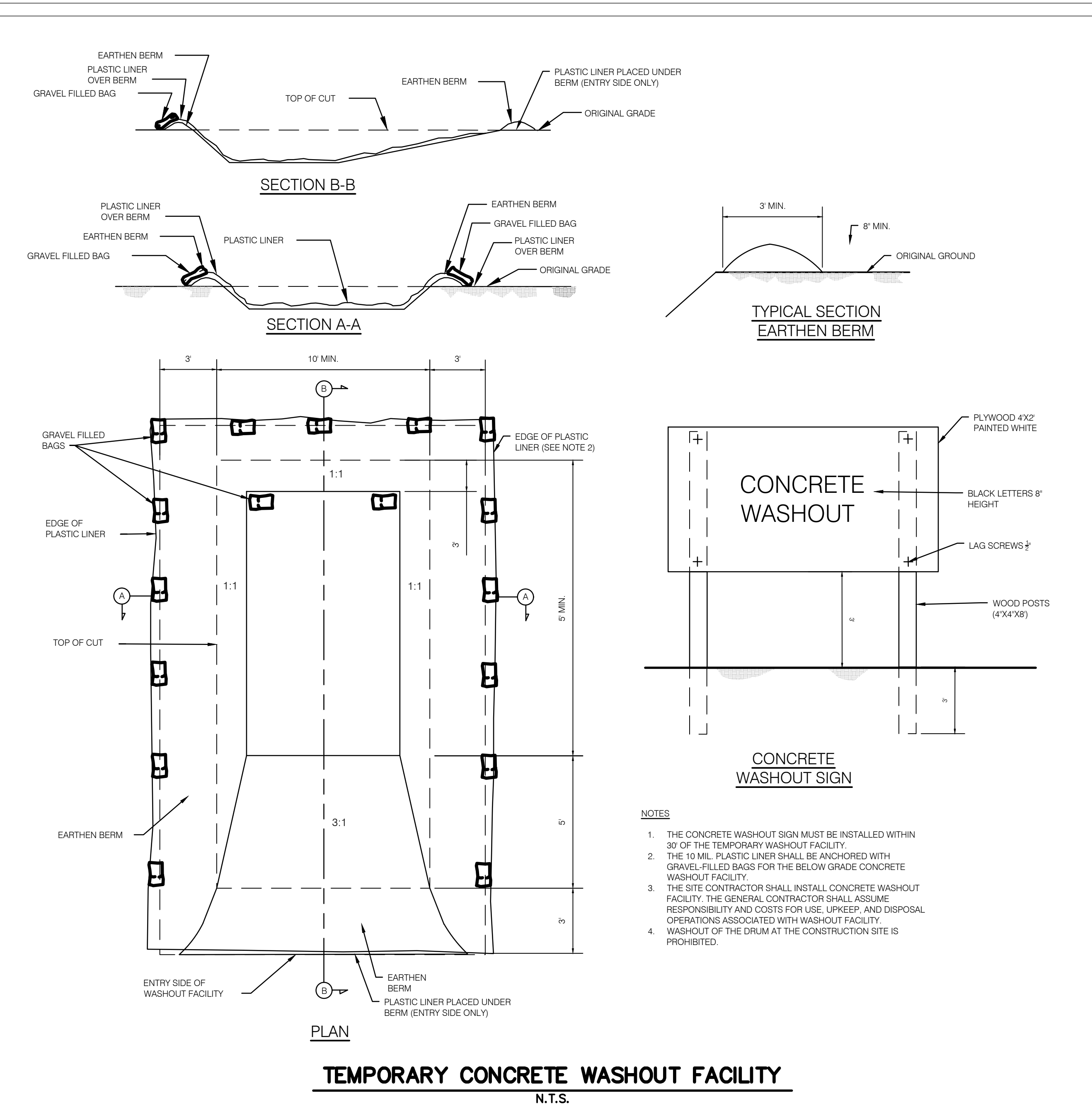
SPECIES	RATE PER 1000 SQ.FT.	RATE PER ACRE	PLANTING DATES
RYE	3.9 POUNDS	3 BU.	9-1 TO 1-1
RYE GRASS, ANNUAL	1 POUND	40-50 lbs.	9-1 TO 4-15
SUDAN GRASS	1.4 POUNDS	60 lbs.	4-1 TO 10-1
BROWN TOP MILLET	1 POUND	40 lbs.	4-1 TO 7-15
WHEAT	4.1 POUNDS	3 BU.	10-1 TO 1-1

Ds3 PERMANENT VEGETATIVE SPECIFICATIONS:

GRASS	SEEDING RATE	PLANTING DATES	FERTILIZER RATE N P K Year Per Acre
HULLED COMMON BERMUDA	8lbs./Ac	3-1 TO 6-15	6 12 12 1st. 1500 Lbs.
UNHULLED COMMON BERMUDA	10lbs./Ac	10-1 TO 3-1	SAME AS ABOVE
PENSACOLA BAHIA MULCH - 2 1/2 TON/Ac.	60 Lb/Ac	Year Round	SAME AS ABOVE
LIME - 1 TON/Ac.			



Sd1-Ns SEDIMENT BARRIER - NON-SENSITIVE
N.T.S.



- NOTES
1. THE CONCRETE WASHOUT SIGN MUST BE INSTALLED WITHIN 30' OF THE TEMPORARY WASHOUT FACILITY.
 2. THE 10 MIL. PLASTIC LINER SHALL BE ANCHORED WITH GRAVEL-FILLED BAGS FOR THE BELOW GRADE CONCRETE WASHOUT FACILITY.
 3. THE SITE CONTRACTOR SHALL INSTALL CONCRETE WASHOUT FACILITY. THE GENERAL CONTRACTOR SHALL ASSUME RESPONSIBILITY AND COSTS FOR USE, UPKEEP, AND DISPOSAL OPERATIONS ASSOCIATED WITH WASHOUT FACILITY.
 4. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

STARTING DATE:
COMPLETION DATE:

ITEM	DESCRIPTION	MONTHS OF CONSTRUCTION ACTIVITY																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	SILT BARRIER INSTALLATION																		
2	SEDIMENT TRAPS																		
3	DEMO, CLEARING, AND GRUBBING																		
4	GRADING																		
5	STORM DRAINAGE																		
6	TEMPORARY GRASSING/MULCHING																		
7	AGGREGATE BASE AND PAVING																		
8	FINAL STABILIZATION & REMOVAL OF TEMPORARY STRUCTURES																		
9	MAINTENANCE OF EROSION CONTROL STRUCTURES																		

STARTING AND COMPLETION DATES ARE APPROXIMATE AND ARE NOT INTENDED TO BE CONTRACTUAL.

"FINAL STABILIZATION" MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES; A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION; OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION.

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Clinton S Terry
Level II Certified Design Professional

CERTIFICATION NUMBER: 0000084382
ISSUED: 11/03/2023 EXPIRES: 11/03/2026

811
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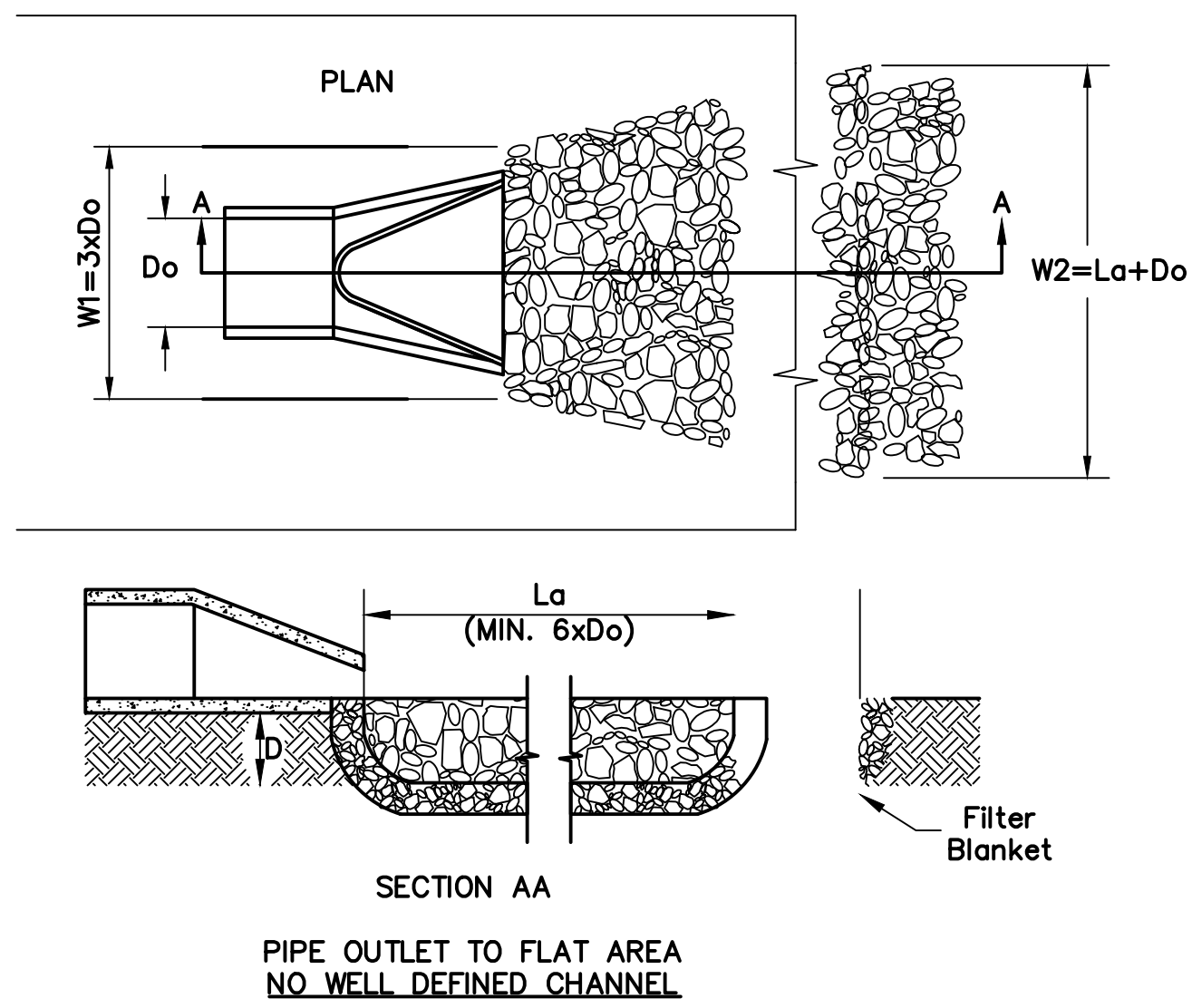
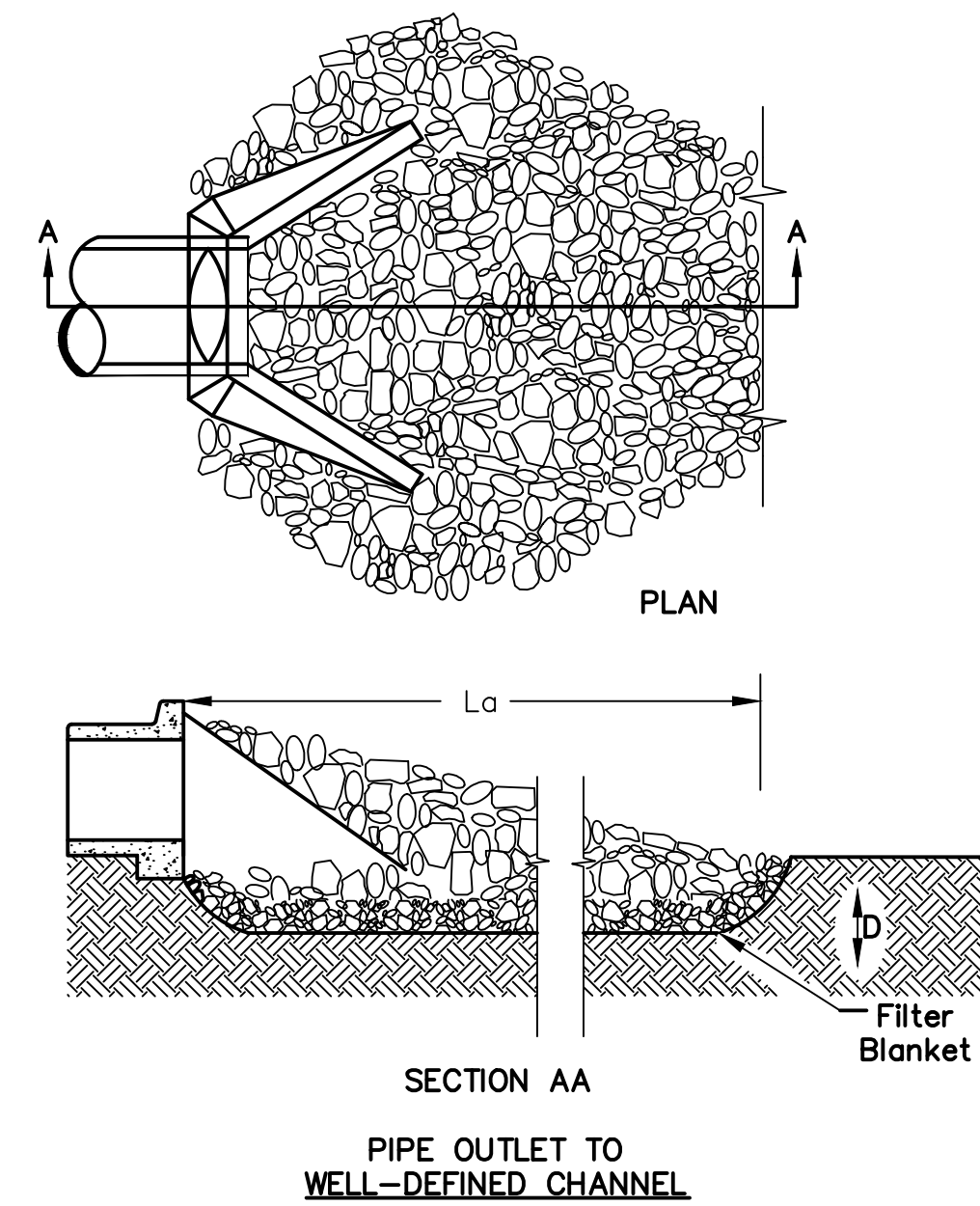
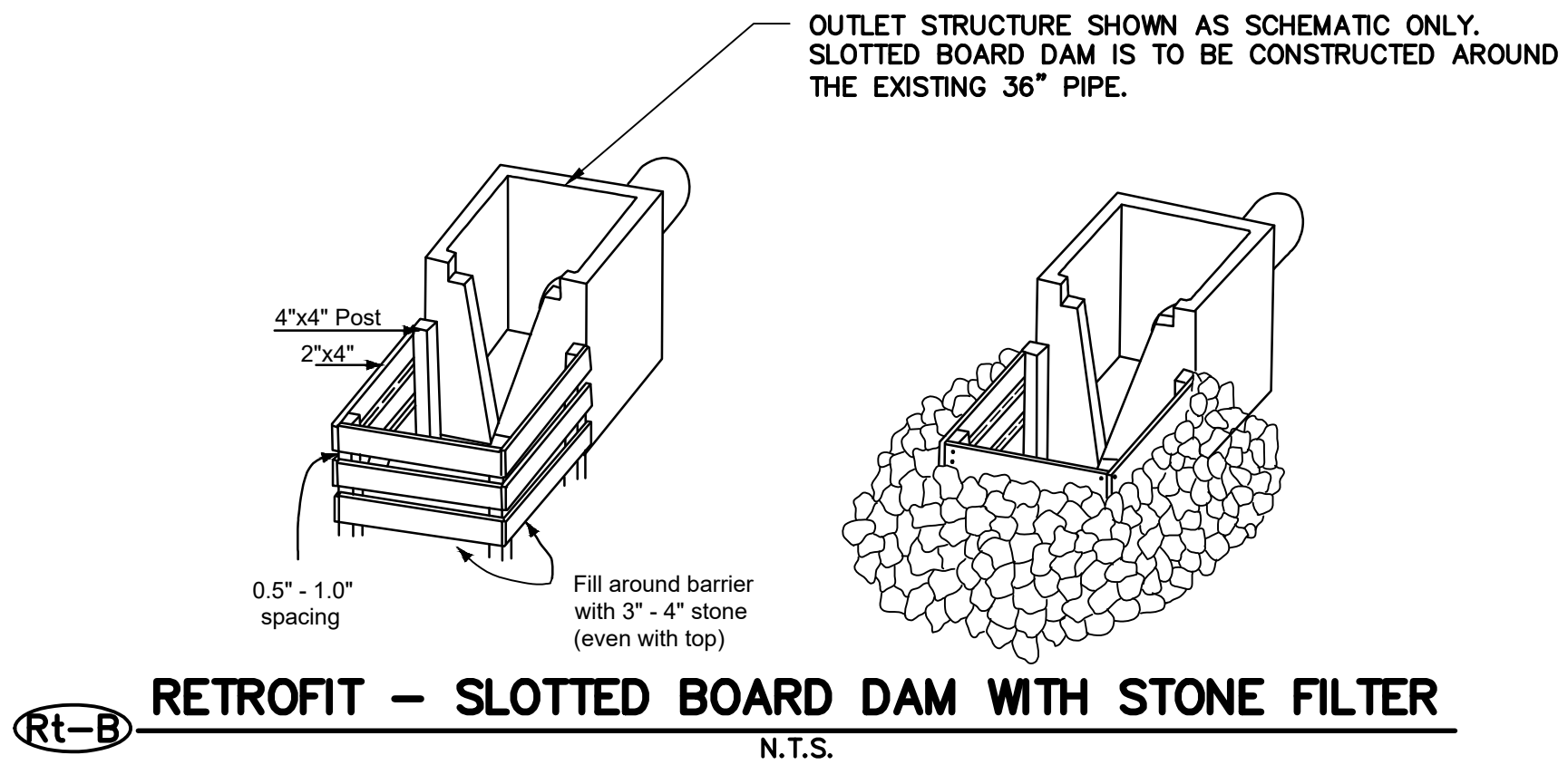
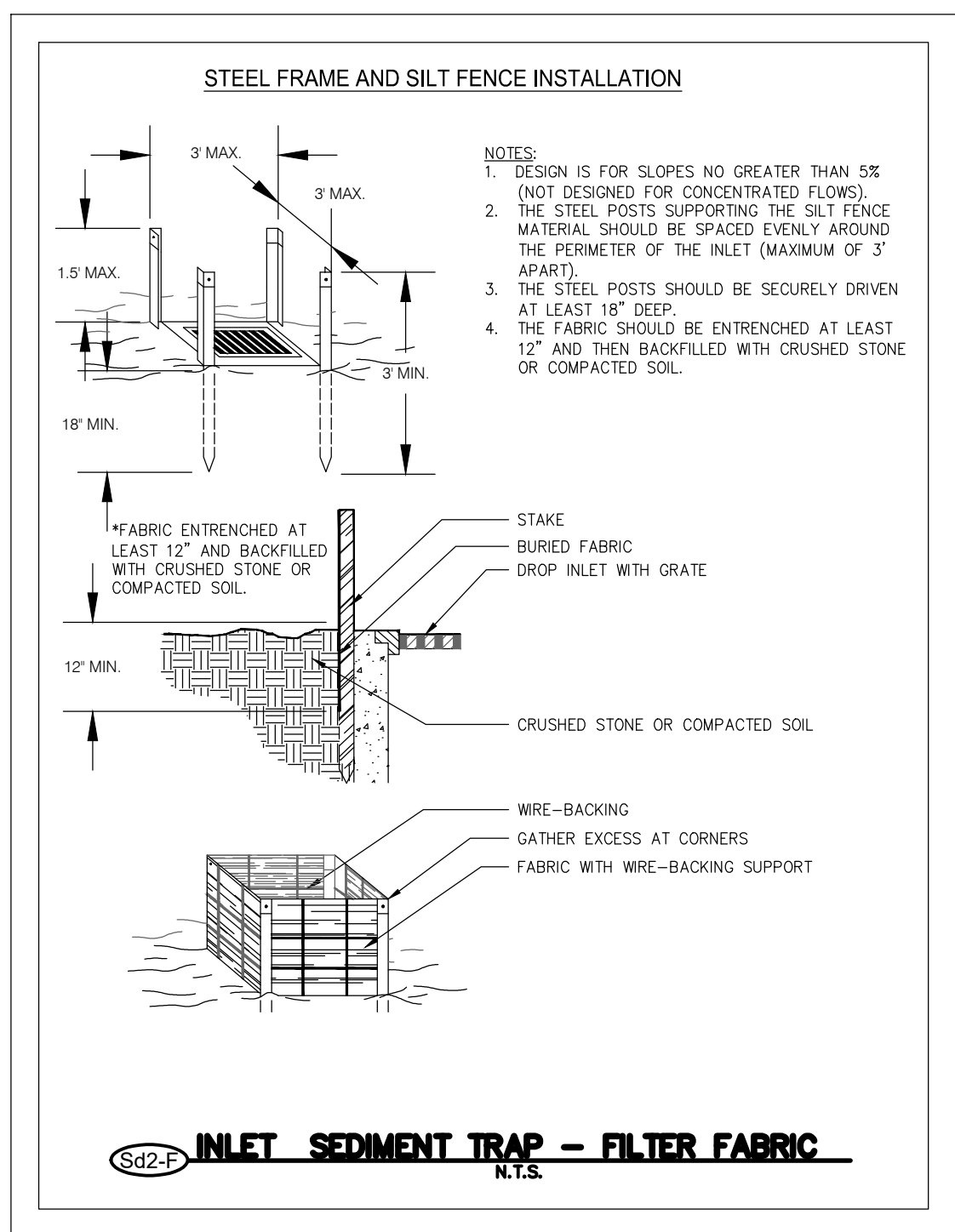
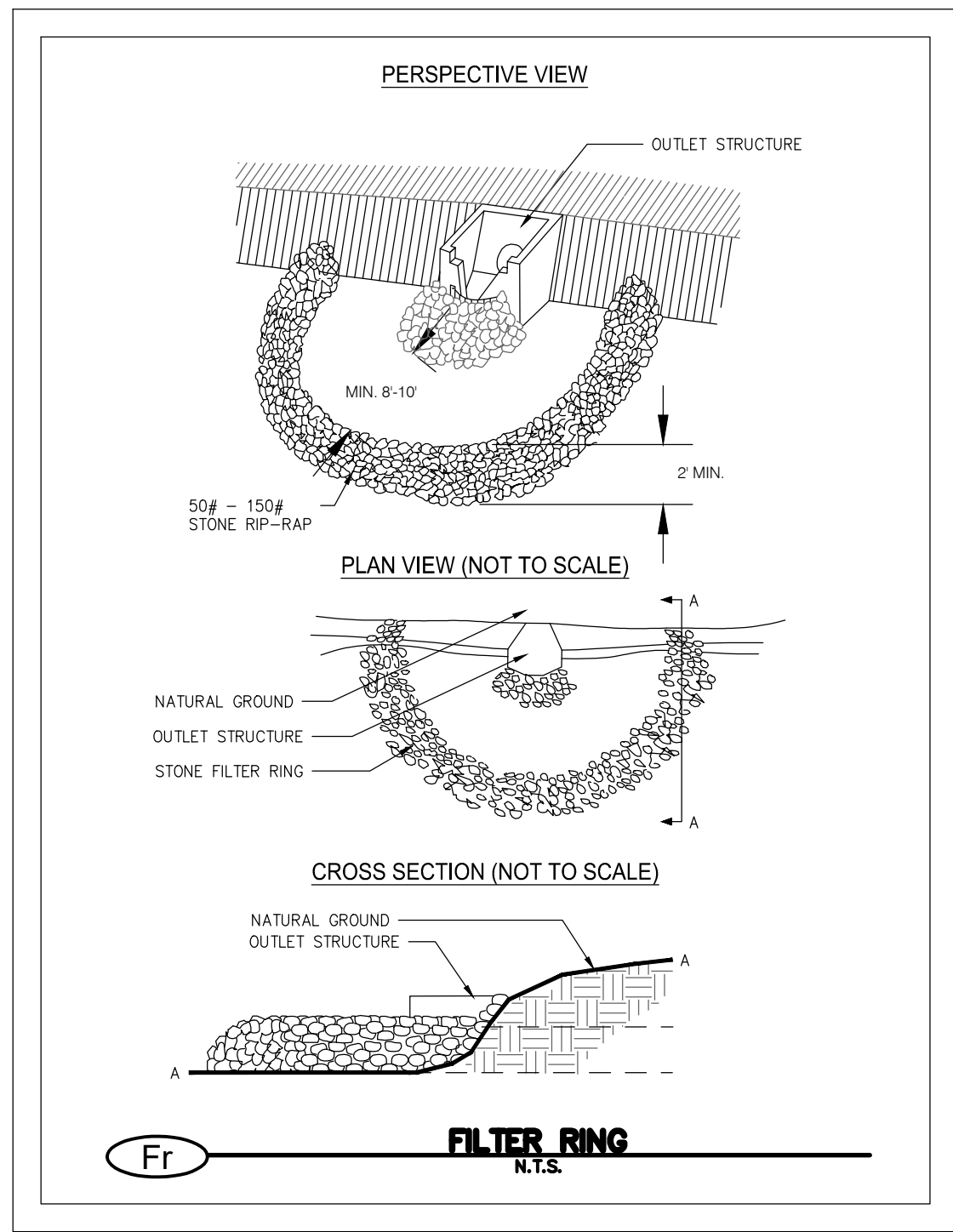
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ES&PC DETAILS
RUSSELL SPEC
BUILDING SITE PLAN
FOR
STROUD AND COMPANY
WARNER ROBINS, GA

COA# PF0006546 EXP: 6/30/2026
REGISTERED
CLINTON SANDERS THOMAS
ENGINEER
07/28/2025

PROJECT NO.: STR-014
DATE: FEBRUARY 2025
SCALE: NTS

C6.3



1. La IS THE LENGTH OF THE RIP RAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAIL- WATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIP-RAP AND SOIL FOUNDATION. THE FABRIC SHALL BE A NONWOVEN NEEDLE PUNCHED GEOTEXTILE WITH A MINIMUM WEIGHT OF 7.5 OZ/YD INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

SI DETAILS - STORM DRAIN OUTLET PROTECTION
N.T.S.

GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Clinton S Terry
Level II Certified Design Professional

CERTIFICATION NUMBER 0000084382
ISSUED: 11/03/2023 EXPIRES: 11/03/2026

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RUSSELL SPEC BUILDING SITE PLAN FOR STRLOUD AND COMPANY WARNER ROBINS, GA

ES&PC DETAILS

COA# PEFO06646 EXP: 6/30/2026

GEORGIA REGISTERED ENGINEER
CLINTON SANDERS TERRY
02/28/2025

PROJECT NO.: STR-014
DATE: FEBRUARY 2025
SCALE: NTS

C6.4

Erosion, Sedimentation, & Pollution Control Notes & Comprehensive Monitoring Plan

STORMWATER DISCHARGE FROM THIS SITE IS PERMITTED AND GOVERNED BY NPDES GENERAL PERMIT NO. GAR 100001. THE SAMPLING, RECORD KEEPING, AND INSPECTION REQUIREMENTS OF THE PERMIT ARE THE RESPONSIBILITY OF THE PRIMARY PERMITEE, AND ARE HEREBY INCORPORATED INTO THIS PLAN. IT IS THE RESPONSIBILITY OF THE OWNER TO CONTACT THE ENGINEER AT 478-476-0700 TO NOTIFY HIM OF THE START OF LAND DISTURBING ACTIVITIES. THE PRIMARY PERMITEE IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT AT LEAST 14 DAYS PRIOR TO CONSTRUCTION AND A NOTICE OF TERMINATION ONCE FINAL STABILIZATION HAS BEEN ACHIEVED.

- These notes are taken from the applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as January 1 of the year in which the land-disturbing activity was permitted.
- The Level II certification number and seal of the certified Design Professional can be found on each sheet pertaining to the ES&PC plan (see all sheets).
- The limits of disturbance does not exceed 50 acres within the project area.
- The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution shall be a designee of the site contractor (if a contractor has not yet been selected, the below listed person shall be the 24-hour contact until a contractor is selected):
NAME: Chuck Stroud
ADDRESS: PO Box 4044
PHONE: (478) 743-5097
E-MAIL: CGStroud@StroudandCompany.com
- The General Contractor shall serve as the Primary Permittee. Primary Permittee information:
GENERAL CONTRACTOR: _____
ADDRESS: _____
PHONE: _____
E-MAIL: _____
- Total acreage of project area: 17.72 Acres
Disturbed acreage of project area: 17.72 Acres
- The GPS location of the construction exit for the site is Latitude 32.580258° N, Longitude -83.689917° W.
- The initial and/or revision date of this plan is depicted on the title block of each plan sheet. A notation shall be made on the plan of any revisions to the plan, the date of revision, and the entity that requested the revisions.
- The existing site condition is a wooded lot. The developed site will be a pad ready for office building construction. The construction activity includes excavation, grading, installation of drainage conveyance, and erosion control.
- A vicinity map showing site's relation to surrounding areas is depicted on the Title Sheet of this plan.
- The project receiving waters are an unnamed tributary to Sandy Run Creek.

12. I certify under penalty of law that this plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my direct supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

 2/18/2015
Design Professional Date

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.

 2/18/2015
Design Professional Date

- The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins in accordance with Part IV.A.5 within 7 days after installation. It is the contractor's responsibility to contact the design professional to arrange this inspection.
- Non-exempt activities shall not be conducted within the 25- or 50-foot undisturbed stream buffers as measured from the point of wreted 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.
- There are no state waters on or within 200 ft. of the project site. Therefore, there are no buffer encroachments associated with the work on this plan.
- Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional. These items include, but are not limited to, diversions (D), temporary down drain structures (Dn1), permanent down drain structures (Dn2), level spreaders (Lv), rock filter dams (Rd), retaining walls (Re), retrofitting (Rt), inlet sediment traps (Sd2), temporary sediment basins (Sd3), temporary sediment traps (Sd4), floating surface skimmers (Sk), seep berms (Sp), temporary stream crossings (Sr), storm drain outlet protection (St), turbidity curtains (Tc), and vegetated waterways or stormwater conveyance channels (W).
- Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit. No section 404 permit has been obtained for this development.
- 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.
- 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.
- Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.
- This construction activity does not discharge storm water into, or within one linear mile upstream of, a Biota Impaired Stream Segment.
- This construction activity does not discharge storm water into, or within one linear mile upstream of, a Biota Impaired Stream Segment.
- Wash water from concrete truck hoppers, chutes and tools used for concrete construction shall be contained in a temporary truck wash area located at the site entrance. Washout shall be contained within a pit or trench with no material leaving the site or impacting vegetated or non-disturbed areas. Disposal of material shall include the breaking of material into small amounts for trash disposal or removal from the site to an appropriate landfill. Washout of the concrete truck drum is prohibited at the site.
- Paint and/or other chemicals shall be stored in secured facilities with restricted access to employees only. Cleanup and disposal of this material shall be in accordance with all recognized local and federal regulations. All disposal shall be in approved off site waste facilities classified to accept that material.
- BMPs for Remediation of Petroleum Leaks & Spills
 - 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 EPA's National Response Center (NRC) will be contacted within 24 hours at 1-800-424-8802.
 - For spills of an unknown amount, the EPA's National Response Center (NRC) shall be contacted within 24 hours at 1-800-424-8802.
 - For spills greater than 25 gallons and no surface water impacts occur, the Georgia E.P.D. shall be contacted within 24 hours at 1-800-241-4413.For spills less than 25 gallons and no surface water impacts occur, the spill shall be cleaned up and local agencies shall be contacted as required.

- 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 of General NPDES Permit No. GAR 100001:
 - A copy of all Notices of Intent submitted to EPD;
 - A copy of the Erosion, Sedimentation and Pollution Control Plan required by GAR 100001;
 - The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5 of GAR 100001;
 - A copy of all sampling information, results, and reports required by GAR 100001;
 - A copy of all inspection reports generated in accordance with Part IV.D.4.a of GAR 100001;
 - A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2 of GAR 100001; and
 - Daily rainfall information collected in accordance with Part IV.D.4.a.(2) of GAR 100001.
- Copies of all Notices of Intent, Notices of Termination, reports, plans, monitoring reports, monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit, and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI. of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternative location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.
- Storm water samples shall be retrieved from the sampling point indicated on Sheets C6.0-C6.2 of this plan. 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:
 - Sample Type: 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.
- Sample containers should be labeled prior to collecting the samples.
- Samples should be well mixed before transferring to a secondary container.
- 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.
- Manual, automatic, or rising stage sampling may be utilized. Samples required by this plan 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.
- 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.
 - Sampling Points

(1). For construction activities the primary permittee must sample all receiving water(s), or all outfall(s), or a combination of receiving water(s) and outfall(s). Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the storm water outfalls using the following minimum guidelines

25 cont.

The contractor shall notify the licensed professional who prepared this Plan if more than 1320 gallons of petroleum is stored onsite (this include capacities of equipment) or if any one piece of equipment has a capacity greater than 660 gallons. If either of these conditions occur, the contractor will need a Spill Prevention Containment and Countermeasures (SPCC) Plan prepared by that licensed professional.

All petroleum products shall be stored and used in an area that provides a secondary containment feature, and shall be located in an area with the least foreseeable impact if a catastrophic event should occur. Emergency contact numbers and procedures for spills shall be available on-site. All petroleum spills and leaks shall be remediated immediately. The flow must be stopped, contained, and affected soils removed. In the event of a spill or leak, contact First Environmental Nationwide toll free at (888) 720-1330.

26. Permanent grassing will be installed to control stormwater pollutants after construction has ceased.

27. Stored building materials shall be stored under cover or covered with a tarp on site at the material staging area selected by the contractor.

PRODUCT SPECIFIC PRACTICES

- Petroleum based products- containers for products such as fuels, lubricants, and tars shall be inspected daily for leaks and spills, this shall include onsite vehicles and machinery. Equipment maintenance areas shall be located away from state waters, natural drains, and storm water drainage inlets. In addition, temporary fueling tanks shall have a secondary containment liner to prevent/minimize site contamination. Discharge of oils, fuels, and lubricants to soil and water is prohibited.
- 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 manufacturers specifications and recommendations. Refer to paragraph 25 for activities related to spills and leaks.
- Concrete truck washing- no concrete trucks shall be allowed to wash out or discharge surplus concrete or drum wash water onsite, if present, contractors can utilize the concrete truck washdown to clean chutes, hoppers, wheelbarrows, and hand tools on site.
- Fertilizer/herbicides- these products shall be applied at rates that do not exceed the manufacturers specifications or above the guidelines set forth in the crop establishment or in the gwcc 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. Dust control, silt fence, temporary grassing, and permanent grassing will be used to reduce pollutants in stormwater discharges from the construction site.

29. A description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization) is depicted on Sheet C6.3 of this plan.

30. Inspections:

a. Permittee requirements.
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; (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking; and (c) measure rainfall once each twenty four hour period at the site. These inspections must be conducted until a Notice of Termination is submitted.

(2). Measure and record rainfall once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

- 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 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.
- 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.
- Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the storm water outfall channel(s).
- Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel.
- The sampling container should be held so that the opening faces upstream.
- The samples should be kept free from floating debris.
- Permittees do not have to sample sheet flow 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 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 landscape 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).
- 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.
- In accordance with Appendix B, the maximum NTU's from the outfall shall not exceed 75 NTUs. The turbidity was selected for a disturbed acreage of 17.29 acres and a drainage basin <4.99 square miles in a warm water fishery.
- The sampling locations are depicted on Sheets C6.0-C6.2 of this plan.
- This plan is phased into an initial sediment storage and perimeter control BMP plan, and intermediate grading and drainage BMP plan, and a final BMP plan as follows:
 - Initial Phase: See Sheet C6.0 - Perimeter controls and sediment basin(s).
 - Intermediate Phase: See Sheet C6.1 - Temporary grassing, dust control, perimeter controls, slope stabilization and sediment basin(s).
 - Final Phase: See Sheet C6.2 - Final stabilization / permanent grassing.
- A graphic scale and north arrow are depicted on Sheets C6.0-C6.2.
- Existing and proposed contour lines are depicted on Sheet 6.0-6.2. Contour lines are drawn at an interval of 1'. The existing contour lines are based on topographic surveys by Surveying and Mapping, LLC.
- No alternate BMP's are proposed in this plan.
- No alternate BMP's are proposed in this plan.
- No state waters lie within 200' of the proposed project area.

(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 or greater (unless such storms end after 5:00 PM on any Friday or on any 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 comes first); (a) disturbed areas of the primary permittee's construction site that have not undergone final stabilization; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation that have not undergone final stabilization; 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) of Permit GAR 100001. These inspections must be conducted until a Notice of Termination is submitted.

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is received by EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6). A report of each inspection that includes the name(s) of personnel making each inspection, the date(s) of each inspection, 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 GAR 100001 shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a certification that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan and this permit. The report shall be signed in accordance with Part V.G.2 of GAR 100001.

31. Sampling Frequency and Reporting of Results:

(1). The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall location within forty-five (45) minutes or as soon as possible.

(2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.

(3). Sampling by the permittee shall occur for the following qualifying events:

(a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the sampling location;

(b). In addition to (a) above, for each area of the site that discharges to a receiving stream or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the sampling location, whichever comes first;

- No state waters or wetlands exist on the project site or within 200' of the project site.
- There are no upstream basins contributing stormwater runoff to this project.
- Drainage basin map is shown on the hydrology study that will be submitted under separate cover.
- The pre-construction curve number is estimated to be 55. The post-construction curve number is estimated to be 81.
- There are no storm drain outlets requiring outlet protection on this project. The stormwater from this site discharges into an existing Houston County MSA conveyance. The stormwater discharge points (and outlet protection if applicable) are shown on Sheets C6.1-C6.2.
- Soil series and their delineation are depicted on Sheet C6.0 of this plan.
- The limits of disturbance is shown within the dashed heavy gray line and labeled "limits of construction, limits of disturbance," as shown on Sheets C6.0-C6.1.
- 67 cubic yards of sediment storage per disturbed acre drained will be stored in retrofitted sediment basins. Sediment storage volume must be in place prior to and during all land disturbing activities until final stabilization has been achieved. Sediment storage capacities are shown on Sheet C6.1.
- Best management practices depicted on Sheets C6.0-C6.2 of this plan are consistent with the requirements of the *Manual for Erosion and Sediment Control in Georgia*. The legend for the BMP's can be found on Sheet C6.3 of this plan.
- Detailed drawings for all structural practices are depicted on Sheet C6.3 of this plan. The installation of these practices must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
- A vegetative plan, noting temporary and permanent vegetative practices, is depicted on Sheet C6.3 of this plan.

 GEORGIA SOIL AND WATER CONSERVATION COMMISSION

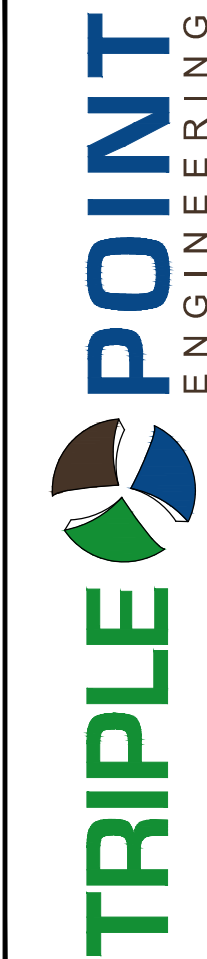
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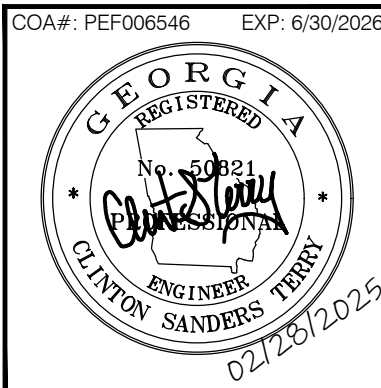
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NPDES NARRATIVE

RUSSELL SPEC
BUILDING SITE PLAN
FOR
STROUD AND COMPANY
WARNER ROBINS, GA



- PROJECT NO.: STR-014
- DATE: FEBRUARY 2025
- SCALE: NTS

C7.0

