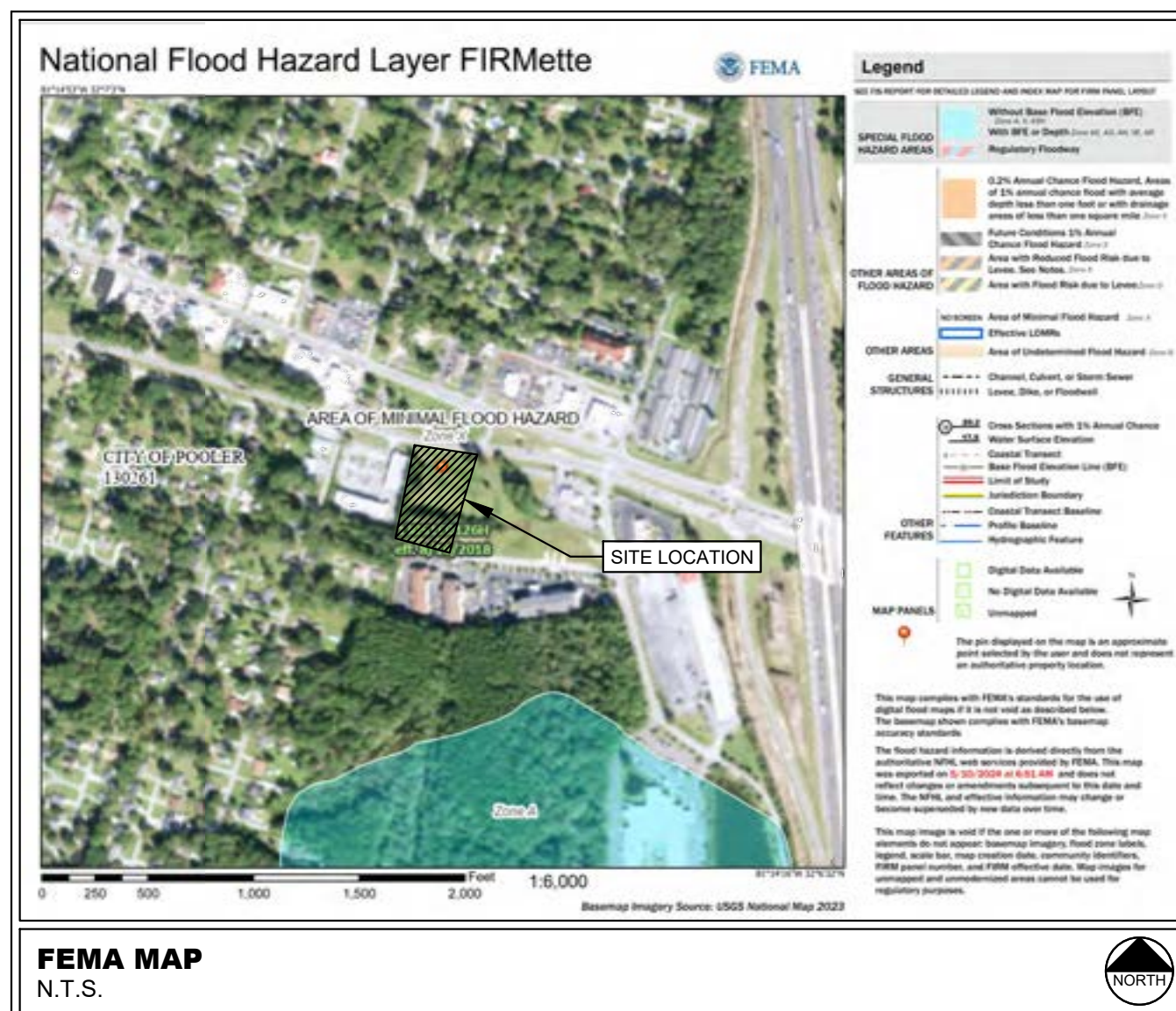


CIVIL CONSTRUCTION DRAWINGS  
FOR  
**POOLER VET CLINIC**  
102 SAN DRIVE, POOLER, GA 31322



THE PROJECT SITE DOES NOT LIE WITHIN A FLOOD HAZARD AREA PER FIRM PANEL 13051C0126H DATED 08/16/2018



PROJECT CONTACTS	
<b>DEVELOPER</b>	<p>LIVE OAK VETERINARY HOLDINGS, LLC            ADDRESS 2 BAILEY REACH, SAVANNAH, GA 31411            CONTACT DR. JASON KING            PHONE 912.662.7544            EMAIL LIKEOAKVETSPICIALISTS@GMAIL.COM</p>
<b>ARCHITECT</b>	<p>FELDER &amp; ASSOCIATES            ADDRESS 1620 DRAYTON STREET, SAVANNAH, GA 31401            CONTACT RYAN CLAU, ASSOC. AIA            PHONE 912.777.39779            EMAIL RYAN@FELDERASSOCIATES.NET</p>
<b>CIVIL ENGINEER</b>	<p>KIMLEY-HORN AND ASSOCIATES, INC.            ADDRESS 3930 EAST JONES BRIDGE RD, SUITE 350,            PEACHTREE CORNERS, GA 30319            CONTACT BRAD HORBAL, P.E.            PHONE 678.343.1764            EMAIL BRAD.HORBAL@kimley-horn.com</p>
<b>SURVEYOR</b>	<p>GARMON LAND SURVEYING            ADDRESS 1920 RAILROAD STREET, STATHAM, GA 30666            CONTACT JAY ANDREWS            PHONE 678.726.7582            EMAIL GARMONSURVEYING@GMAIL.COM</p>
<b>CONTRACTOR</b>	<p>CHOATE CONSTRUCTION            ADDRESS 101 W. MULBERRY BLVD, SUITE 200            SAVANNAH, GA 31407            CONTACT TYLER TRITT            PHONE 912.856.2383            EMAIL TSTRITT@CHOATECO.COM</p>
<b>PRIMARY PERMITTEE</b>	<p>LIVE OAK VETERINARY HOLDINGS, LLC            ADDRESS 2 BAILEY REACH, SAVANNAH, GA 31411            CONTACT DR. JASON KING            PHONE 912.662.7544            EMAIL LIKEOAKVETSPICIALISTS@GMAIL.COM</p>
<b>24-HR CONTACT</b>	<p>CONTACT TYLER TRITT            COMPANY CHOATE CONSTRUCTION            TITLE PROJECT MANAGER            PHONE 912.856.2383</p>

UTILITY CONTACTS	
<b>WATER &amp; SEWER</b>	CITY OF POOLER PUBLIC WORKS ADDRESS 1095 S. ROGERS ST POOLER, GEORGIA 31322 CONTACT MATTHEW SAXON PHONE 912.748.7261 EMAIL MSAXON@POOLER-GA.GOV
<b>ELECTRIC</b>	GA POWER

SITE INFORMATION		
PROPERTY ADDRESS	102 SAN DRIVE, POOLER, GA 31321	
PARCEL NUMBER	50021 01005	
ZONING	C-2	
OVERLAY	MAIN STREET OVERLAY DISTRICT	
TOTAL PROPERTY AREA	3.63 ACRES	
NET PROPERTY AREA	1.93 ACRES	
IMPERVIOUS AREA	0.95 ACRES (49.2%)	
PERVIOUS AREA	0.98 ACRES (50.8%)	
TOTAL DISTURBED AREA	2.58 ACRES	
CITY OF POOLER CASE NO.	POOLER VET CLINIC	


<b>PROJECT NARRATIVE</b>
<p>POOLER VET CLINIC IS A 10,000 + SF COMMERCIAL BUILDING FOR VETERINARIAN CLINICAL USE.</p> <p>THE PROJECT ALSO INCLUDES THE CONSTRUCTION OF SUPPORTING SURFACE PARKING, STORMWATER CONVEYANCE AND DETENTION, AND ALL ASSOCIATED UTILITIES.</p>

## DEVELOPMENT NOTES

1. ATTENTION IS DRAWN TO THE FACT THAT THE SCALE OF THESE DRAWINGS MAY HAVE BEEN DISTORTED DURING THE REPRODUCTION PROCESS. THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.
2. IF ANY CONFLICTS, DISCREPANCIES, OR ANY OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR FIELD CONDITIONS, THE **CONTRACTOR** MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE FURTHER OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.
3. THE APPROVAL OF THESE PLANS AND THE ISSUANCE OF THIS LAND DISTURBANCE PERMIT DOES NOT IN ANY WAY SUGGEST THAT ALL OTHER REQUIREMENTS FOR THE LEGAL OR APPROPRIATE OPERATIONS FOR THIS ACTIVITY, WHICH MAY REQUIRE ADDITIONAL PERMITS, HAVE BEEN MET. THE ONUS IS ON THE OWNER/DEVELOPER/BUILDER TO DISCOVER WHAT ADDITIONAL PERMITTING OR APPROVALS MAY BE NECESSARY TO OPERATE FROM THIS POINT IN AN APPROPRIATE AND LEGAL MANNER. PLAN APPROVAL OR PERMIT ISSUANCE DOES NOT ABSOLVE THE APPLICANT FROM COMPLYING WITH ALL APPLICABLE LAWS, STANDARDS, OR OTHER PERMITS WHICH MAY BE REQUIRED FOR THIS PROJECT.
4. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES FOR EXECUTION OF ALL MATERIALS. THE EXECUTION OF THE WORK SHALL BE IN ACCORDANCE WITH THE STATE AND LOCAL LAWS, CODES AND REGULATIONS.
5. PRIOR TO LAND DISTURBING AND/OR CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA EROSION CONTROL / SITE DEVELOPMENT INSPECTOR.
6. THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, MONUMENTS, REFERENCE POINTS, AND LEGAL MARKERS.

<b>CITY OF POOLER NOTES</b>
IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE CITY OF POOLER'S ORDINANCES, STANDARDS, SPECIFICATIONS OR DETAILS, THE CITY OF POOLER REQUIREMENTS SHALL BE REQUIRED.

SHEET INDEX		
REVISION NO.	SHEET NO.	SHEET TITLE
	C0.00	CIVIL COVER SHEET
	C0.10	GENERAL NOTES
	C1.00	DEMOLITION PLAN
	C2.00	SITE PLAN
	C2.10	SIGHT DISTANCE PLAN
	C2.30	FIRE ACCESS PLAN
	C3.00	GRADING & DRAINAGE PLAN
	C3.50	STORM SEWER PROFILES
	C3.80	STORMWATER MANAGEMENT PLAN
	C4.00	UTILITY PLAN
	C4.50	SANITARY SEWER PROFILES
	C4.60	WATER MAIN ALIGNMENT PROFILES
	C4.61	WATER MAIN ALIGNMENT PROFILES
	C5.00	EROSION CONTROL NOTES
	C5.01	EROSION CONTROL NOTES
	C5.10	EROSION CONTROL PLAN
	C5.20	EROSION CONTROL PLAN
	C5.30	EROSION CONTROL PLAN
	C5.80	EROSION CONTROL DETAILS
	C5.81	EROSION CONTROL DETAILS
	C5.82	EROSION CONTROL DETAILS
	C6.00	VEHICULAR PAVEMENT DETAILS
	C6.10	PAVEMENT MARKING DETAILS
	C6.20	HARDSCAPE DETAILS
	C6.30	STORM STRUCTURE DETAILS
	C6.40	SANITARY SEWER DETAILS
	C6.50	WATER CONSTRUCTION DETAILS
	L1-00	TREE PROTECTION PLAN
	L2-00	TREE REPLACEMENT PLAN
	L2-10	LANDSCAPE DETAILS

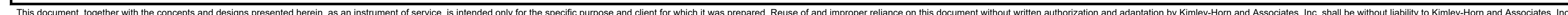
		<b>POOLER VET CLINIC</b> 102 SAN DRIVE POOLER, GA 31222 PIN 50021 01005 7TH DISTRICT		<b>Kimley»»Horn</b> 3030 EAST JONES BRIDGE ROAD THE FORUM, SUITE 350 NORCROSS, GEORGIA 30092 PHONE 770.825.0744 WWW.KHUS.COM © 2022 KIMLEY-HORN AND ASSOCIATES, INC.	
PROJECT		LIVE OAK VETERINARY HOLDINGS, LLC		335 STEPHENSON AVE SAVANNAH, GA 31405 PHONE 912.682.7544 LIVEOAKVETSPICIALISTS@GMAIL.COM	
GSWCC CERT (LEVEL II) 0000022363 DRAWN BY LCW DESIGNED BY REVIEWED BY BLH DATE 12.11.2024 PROJECT NO. 017684000 TITLE <b>CIVIL COVER SHEET</b>		No. REVISION DESCRIPTIONS DATE BY			
SHEET NUMBER		<b>C0.00</b>			



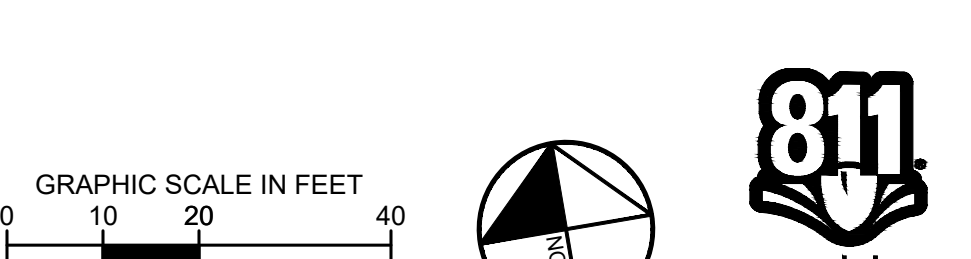
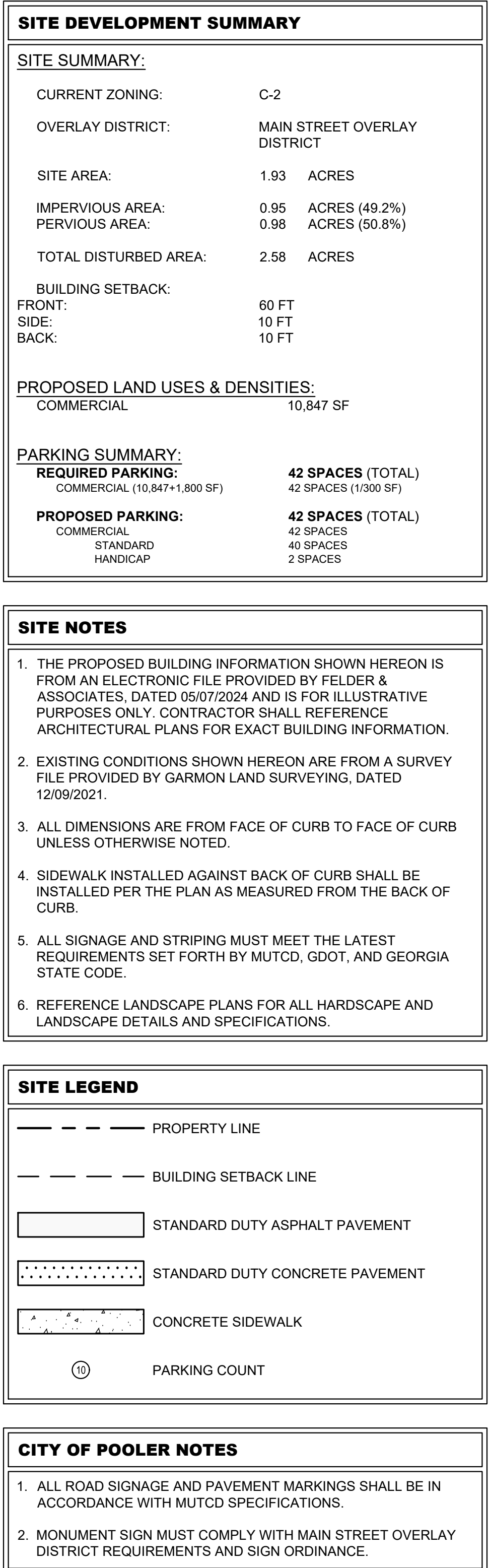
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GENERAL NOTES		2.) TEMPORARY EROSION AND SEDIMENTATION CONTROL		5. END CONNECTIONS: FLANGED.		INDICATED ELEVATION AND SLOPE.		PIPE CONNECTING TO BASE SECTION.	
A. DESIGN DATA PROVIDED IN ELECTRONIC FORMAT IS FOR INFORMATION. PURPOSES ONLY AND SHOULD BE USED AT YOUR OWN RISK, AND IS PROVIDED WITHOUT REPRESENTATIONS AND WARRANTIES. ANY CONFLICT BETWEEN THE INFORMATION REFLECTED ON THE LATEST REVISION OF THE SEALED PLAN SHEETS AND THAT PROVIDED VIA ELECTRONIC FORMAT SHALL BE RESOLVED IN FAVOR OF THE SEALED PLAN SHEETS.		A. PROVIDE TEMPORARY EROSION- AND SEDIMENTATION-CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS, ACCORDING TO EROSION- AND SEDIMENTATION-CONTROL DRAWINGS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.		6. CONFIGURATION: DESIGNED FOR HORIZONTAL, STRAIGHT THROUGH FLOW.		B. MANHOLE FRAMES AND COVERS:		8.) STORMWATER DETENTION STRUCTURES	
		B. VERIFY THAT FLOWS OF WATER REDIRECTED FROM CONSTRUCTION AREAS OR GENERATED BY CONSTRUCTION ACTIVITY DO NOT ENTER OR CROSS PROTECTION ZONES.		8.) WATER METER BOXES:		1. DESCRIPTION: FERRULOUS, 24-INCH ID BY 7- TO 9-INCH RISER, WITH 4-INCH-MINIMUM-WIDTH FLANGE AND 26-INCH- DIAMETER COVER. INCLUDE INDENTED TOP DESIGN WITH LETTERING CAST INTO COVER, USING WORDING EQUIVALENT TO "SANITARY SEWER."		A. CAST-IN-PLACE CONCRETE, STORMWATER DETENTION STRUCTURES: CONSTRUCTED OF REINFORCED-CONCRETE BOTTOM, WALLS, AND TOP; DESIGNED ACCORDING TO ASTM C 890 FOR A-16 (AASHTO HS20-44), HEAVY-TRAFFIC, STRUCTURAL LOADING; OF DEPTH, SHAPE, DIMENSIONS, AND APPURTENANCES INDICATED.	
		C. INSPECT, MAINTAIN, AND REPAIR EROSION- AND SEDIMENTATION-CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED.		9.) CONCRETE OF MATERIAL NOT DETECTED FROM CONSTRUCTION AREAS OR GENERATED BY CONSTRUCTION ACTIVITY DO NOT ENTER OR CROSS PROTECTION ZONES.		2. LOCATION: ASTM A 536, GRADE 60-40-18 DUCTILE IRON UNLESS OTHERWISE INDICATED.		1. BALLAST: INCREASE THICKNESS OF CONCRETE AS REQUIRED TO PREVENT FLOTATION.	
		D. REMOVE EROSION AND SEDIMENTATION CONTROLS WHEN SITE IS STABILIZED AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.		A. DESCRIPTION: PRECAST, REINFORCED-CONCRETE VAULT, DESIGNED FOR A-16 LOAD DESIGNATION ACCORDING TO ASTM C 857 AND MADE ACCORDING TO ASTM C 858.		6.) IDENTIFICATION		2. GRADE RINGS: INCLUDE TWO OR THREE REINFORCED-CONCRETE RINGS, OF 6- TO 9-INCH TOTAL THICKNESS, THAT MATCH 24-INCH- DIAMETER FRAME AND COVER.	
		3.) TREE AND PLANT PROTECTION		1. LADDER: ASTM A 36/A 36M, STEEL OR POLYETHYLENE- ENCASED STEEL STEPS.		A. ARRANGE FOR INSTALLATION OF GREEN WARNING TAPES DIRECTLY OVER PIPING AND AT OUTSIDE EDGES OF UNDERGROUND MANHOLES.		3. STEPS: INDIVIDUAL FRP STEPS OR FRP LADDER, WIDE ENOUGH TO ALLOW WORKER TO PLACE BOTH FEET ON ONE STEP AND DESIGNED TO PREVENT LATERAL SLIPPAGE OFF STEP. CAST OR ANCHOR STEPS INTO SIDEWALLS AT 12- TO 16-INCH INTERVALS. OMIT STEPS IF TOTAL DEPTH FROM FLOOR OF STRUCTURE TO FINISHED GRADE IS LESS THAN 48 INCHES.	
		4.) EXISTING UTILITIES		2. MANHOLE: ASTM A 48/A 48M CLASS NO. 35A MINIMUM TENSILE STRENGTH, GRAY-IRON TRAFFIC FRAME AND COVER.		7.) INLET & JUNCTION BOXES		4. FORM AND CAST WIERS AND PIPE OPENINGS AS INDICATED ON DRAWINGS.	
		A. LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP UTILITIES INDICATED TO BE REMOVED OR ABANDONED IN PLACE. ARRANGE WITH UTILITY COMPANIES TO SHUT OFF INDICATED UTILITIES.		a. DIMENSION: 24-INCH MINIMUM DIAMETER, UNLESS OTHERWISE INDICATED.		A. INSPECT INTERIOR OF PIPING TO DETERMINE WHETHER LINE DISPLACEMENT OR OTHER DAMAGE HAS OCCURRED. INSPECT AFTER APPROXIMATELY 24 INCHES OF BACKFILL IS IN PLACE, AND AGAIN AT COMPLETION OF PROJECT.		B. MANHOLE FRAMES AND COVERS: ASTM A 536, GRADE 60-40-18, DUCTILE-IRON CASTINGS DESIGNED FOR HEAVY-DUTY SERVICE.	
		B. INTERRUPTING EXISTING UTILITIES: DO NOT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY UTILITY SERVICES ACCORDING TO REQUIREMENTS INDICATED:		3. DRAIN: ASME A112.6.3; CAST-IRON FLOOR DRAIN WITH OUTLET OF SIZE INDICATED. INCLUDE BODY ANCHOR FLANGE, LIGHT-DUTY CAST-IRON GRATE, BOTTOM OUTLET, AND INTEGRAL OR FIELD-INSTALLED BRONZE BALL OR CLAPPER-TYPE BACKWATER VALVE.		1. DETECTS REQUIRING CORRECTION INCLUDE THE FOLLOWING:		9.) PIPE OUTLETS	
		1. NOTIFY UTILITY OWNER NOT LESS THAN TWO DAYS IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS.		10.) FIRE HYDRANTS		a. ALIGNMENT: LESS THAN FULL DIAMETER OF INSIDE OF PIPE IS VISIBLE BETWEEN STRUCTURES.		A. PRE-CAST HEAD WALLS: PRE-CAST REINFORCED CONCRETE, WITH APRON AND TAPERED SIDES.	
		2. DO NOT PROCEED WITH UTILITY INTERRUPTIONS WITHOUT UTILITY OWNER'S WRITTEN PERMISSION.		A. DRY-BARREL FIRE HYDRANTS: FREE-STANDING, WITH ONE NPS 4-1/2 AND TWO NPS 2-1/2 OUTLETS, 5-1/4-INCH MAIN VALVE, DRAIN VALVE, AND NPS 6 MECHANICAL-JOINT INLET. INCLUDE INTERIOR COATING ACCORDING TO AWWA C550. HYDRANT SHALL HAVE CAST-IRON BODY, COMPRESSION-TYPE VALVE OPENING AGAINST PRESSURE AND CLOSING WITH PRESSURE.		b. DEFLECTION: FLEXIBLE PIPING WITH DEFLECTION THAT PREVENTS PASSAGE OF BALL OR CYLINDER OF SIZE NOT LESS THAN 92.5 PERCENT OF PIPING DIAMETER.		B. SLOPE PAVED HEAD WALLS: CAST-IN-PLACE REINFORCED CONCRETE AS SHOWN ON DRAWINGS.	
G. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE. SIGNS (LOCATION, NUMBER, AND SIZE) ARE NOT APPROVED UNDER THE GENERAL DEVELOPMENT PERMIT. A SEPARATE PERMIT IS REQUIRED FOR ONSITE SIGNAGE.		C. POTHOLE EXISTING WATER LINES, UNDERGROUND ELECTRICAL LINES, GAS LINES, UNDERGROUND TELEPHONE LINES, FIBER OPTIC, AND ANY OTHER EXISTING UTILITY LINES WITHIN THE PROJECT LIMITS DURING SITE CLEARING AND DEMOLITION ACTIVITIES. SURVEY THE EXISTING UTILITY ELEVATIONS AND PROVIDE THE SURVEYED FIELD LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW. THESE EXISTING UTILITIES MAY REQUIRE RELOCATION.		1. STANDARD: AWWA C502.		c. DAMAGE: CRUSHED, BROKEN, CRACKED, OR OTHERWISE DAMAGED PIPING.		C. RIPRAP BASINS: BROKEN, IRREGULARLY SIZED AND SHAPED, GRADED STONE ACCORDING TO NSSGA'S "QUARRIED STONE FOR EROSION AND SEDIMENT CONTROL." MINIMUM STONE SIZE AND DIMENSIONS AS SHOWN ON DRAWINGS.	
		5.) CLEARINGS AND GRUBBING		2. PRESSURE RATING: 250 PSIG.		d. INFILTRATION: WATER LEAKAGE INTO PIPING.		10.) PIPING INSTALLATION	
		A. REMOVE OBSTRUCTIONS: CONCRETE, ASPHALT, TREES, SHRUBS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION.		11.) FIRE DEPARTMENT CONNECTIONS		e. EXFILTRATION: WATER LEAKAGE FROM OR AROUND PIPING.		A. INSTALL LOCATOR WIRE OR TAPE 6-INCHES ABOVE ALL NON-METALLIC PIPING.	
		1. DO NOT REMOVE TREES, SHRUBS, AND OTHER VEGETATION INDICATED TO REMAIN OR TO BE RELOCATED.		A. FIRE DEPARTMENT CONNECTIONS: FREE-STANDING, WITH CAST-BRONZE BODY, THREAD INLETS ACCORDING TO NFPA 1963 AND MATCHING LOCAL FIRE DEPARTMENT HOSE THREADS, AND THREADED BOTTOM OUTLET. INCLUDE LUGGED CAPS, GASKETS, AND CHAINS; LUGGED SWIVEL CONNECTION AND DROP CLAPPER FOR EACH HOSE-CONNECTION INLET; 18-INCH- HIGH BRASS SLEEVE; AND ROUND ESCUTCHEON PLATE.		2. REPLACE DEFECTIVE PIPING USING NEW MATERIALS, AND REPEAT INSPECTIONS UNTIL CORRECTIONS ARE WITHIN ALLOWANCES SPECIFIED.		B. INSTALL BEDDING AND BACKFILL IN ACCORDANCE WITH PIPE MANUFACTURERS INSTRUCTIONS.	
		2. GRIND DOWN STUMPS AND REMOVE ROOTS, OBSTRUCTIONS, AND DEBRIS TO A DEPTH OF 12 INCHES BELOW EXPOSED SUBGRADE.		1. UNDERGROUND VALVES, NPS 3 AND LARGER: AWWA, CAST-IRON, NONRISING-STEM, RESILIENT-SEATED GATE VALVES WITH VALVE BOX.		3. SCHEDULE TESTS AND INSPECTIONS BY AUTHORITIES HAVING JURISDICTION WITH AT LEAST 24 HOURS ADVANCE NOTICE.		C. BEGIN INSTALLATION AT DOWNSTREAM PIPING CONNECTION TO OUTFALL POINT.	
		3. USE ONLY HAND METHODS FOR GRUBBING WITHIN PROTECTION ZONES.		2. USE THE FOLLOWING FOR VALVES IN VAULTS AND ABOVEGROUND:		4. SUBMIT A SEPARATE REPORT FOR EACH TEST TO THE ENGINEER FOR APPROVAL.		D. CONSTRUCT ALL HEADWALLS FLUSH WITH EXISTING AND PROPOSED EMBANKMENT SLOPES.	
		4. THE SUBGRADE TO REMAIN SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY FOLLOWING CLEARING AND GRUBBING ACTIVITIES.		a. GATE VALVES, NPS 2 AND SMALLER: BRONZE, NONRISING STEM.		5. AIR TESTS: TEST SANITARY SEWERAGE ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION, UNI-B-6, AND THE FOLLOWING:			
		6.) TOPSOIL STRIPPING		b. GATE VALVES, NPS 3 AND LARGER: AWWA, CAST IRON, OS&Y RISING STEM, RESILIENT SEATED.		a. TEST PLASTIC GRAVITY SEWER PIPING ACCORDING TO ASTM F 1417.			
		A. REMOVE SOD AND GRASS BEFORE STRIPPING TOPSOIL.		c. CHECK VALVES: AWWA C508, SWING TYPE.		6. MANHOLES: PERFORM HYDRAULIC TEST ACCORDING TO ASTM C 969.			
		B. STRIP TOPSOIL IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS.		13.) FIELD QUALITY CONTROL		C. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.			
N. ENSURE CORRECT HORIZONTAL AND VERTICAL ALIGNMENT OF ALL TIES BETWEEN PROPOSED AND EXISTING PAVEMENTS, CURB AND GUTTER, SIDEWALKS, WALLS, AND UTILITIES BEFORE BEGINNING WORK. NOTIFY ENGINEER IF DISCREPANCIES EXIST.		C. STOCKPILE TOPSOIL AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMIXING WITH SUBSOIL. GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST AND EROSION BY WATER.		A. PIPING TESTS: CONDUCT PIPING TESTS BEFORE JOINTS ARE COVERED AND AFTER CONCRETE THRUST BLOCKS HAVE HARDENED SUFFICIENTLY. FILL PIPELINE 24 HOURS BEFORE TESTING AND APPLY TEST PRESSURE TO STABILIZE SYSTEM. USE ONLY POTABLE WATER.		D. REPLACE LEAKING PIPING USING NEW MATERIALS, AND REPEAT TESTING UNTIL LEAKAGE IS WITHIN ALLOWANCES SPECIFIED.			
		D. DISPOSE OF SURPLUS TOPSOIL. SURPLUS TOPSOIL IS THAT WHICH EXCEEDS QUANTITY INDICATED TO BE STOCKPILED OR REUSED.		B. HYDROSTATIC TESTS: TEST AT NOT LESS THAN ONE-AND-ONE-HALF TIMES WORKING PRESSURE FOR TWO HOURS. INCREASE PRESSURE IN 50-PSIG INCREMENTS AND INSPECT EACH JOINT BETWEEN INCREMENTS. HOLD AT TEST PRESSURE FOR 1 HOUR; DECREASE TO 0 PSIG. SLOWLY INCREASE AGAIN TO TEST PRESSURE AND HOLD FOR 1 MORE HOUR. MAXIMUM ALLOWABLE LEAKAGE IS 2 QUARTS PER HOUR PER 100 JOINTS. REMAKE LEAKING JOINTS WITH NEW MATERIALS AND REPEAT TEST UNTIL LEAKAGE IS WITHIN ALLOWED LIMITS.					
				C. DISINFECT: CLEAN AND DISINFECT POTABLE WATER MAINS AS DIRECTED BY THE LOCAL AUTHORITY, OR, IF METHOD IS NOT PRESCRIBED BY THE LOCAL AUTHORITY, USE PROCEDURE DESCRIBED IN AWWA C651.					
				D. PREPARE REPORTS OF TESTING ACTIVITIES AND SUBMIT TO THE ENGINEER FOR APPROVAL.					
				14.) IDENTIFICATION					
				A. INSTALL CONTINUOUS UNDERGROUND DETECTABLE WARNING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND WATER-DISTRIBUTION PIPING. LOCATE BELOW FINISHED GRADE, DIRECTLY OVER PIPING.					
TRAFFIC CONTROL									
A. IF DRAWINGS DO NOT INDICATE SITE SPECIFIC TRAFFIC CONTROL MEASURES, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TEMPORARY TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.		1.) GENERAL							
		A. REGULATORY REQUIREMENTS:							
		1. COMPLY WITH REQUIREMENTS OF UTILITY COMPANY SUPPLYING WATER.							
		2. INCLUDE TAPPING OF WATER MAINS AND BACKFLOW PREVENTION, ACCORDING WITH STANDARDS OF AUTHORITIES HAVING JURISDICTION FOR POTABLE-WATER-SERVICE PIPING, INCLUDING MATERIALS, INSTALLATION, TESTING, AND DISINFECTION.							
		B. PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY.							
		C. INTERRUPTION OF EXISTING WATER-DISTRIBUTION SERVICE: NOTIFY OWNER AT LEAST 2 DAYS PRIOR TO INTERRUPTION OF EXISTING WATER SERVICES.							
		D. COORDINATE WITH UTILITY COMPANY FOR REQUIRED INSPECTIONS AND FOR CONNECTION OF WATER MAINS AND SERVICES BEFORE STARTING CONSTRUCTION.							
		2.) COPPER TUBE AND FITTINGS							
		A. SOFT COPPER TUBE: ASTM B 88, TYPE K, WATER TUBE, ANNEALED TEMPER.							
		B. COPPER, PRESSURE-SEAL FITTINGS:							
		1. NPS 2 AND SMALLER: WROUGHT-COPPER FITTING WITH EPDM O-RING SEAL IN EACH END.							
B. VERIFY THAT HAZARDOUS MATERIALS HAVE BEEN REMEDIATED BEFORE PROCEEDING WITH BUILDING DEMOLITION OPERATIONS.		NPS 2-1/2 TO NPS 4: BRONZE FITTING WITH STAINLESS-STEEL GRIP RING AND EPDM O-RING SEAL IN EACH END.							
		C. BRONZE FLANGES: ASME B16.24, CLASS 150, WITH SOLDER-JOINT END. FURNISH CLASS 300 FLANGES IF REQUIRED TO MATCH PIPING.							
		D. COPPER UNIONS: MSS SP-123, CAST-COPPER-ALLOY, HEXAGONAL STOCK BODY WITH BALL-AND-SOCKET, METAL-TO-METAL SEATING SURFACES, AND SOLDER-JOINT OR THREADED ENDS.							
		3.) DUCTILE-IRON PIPE AND FITTINGS							
		A. MECHANICAL-JOINT, DUCTILE-IRON PIPE: AWWA C151, WITH MECHANICAL-JOINT BELL AND PLAIN SPIGOT END UNLESS GROOVED OR FLANGED ENDS ARE INDICATED.							
		1. MECHANICAL-JOINT, DUCTILE-IRON FITTINGS: AWWA C110, DUCTILE- OR GRAY-IRON STANDARD PATTERN OR AWWA C153, DUCTILE-IRON COMPACT PATTERN.							
		2. GLANDS, GASKETS, AND BOLTS: AWWA C111, DUCTILE- OR GRAY-IRON GLANDS, RUBBER GASKETS, AND STEEL BOLTS.							
		B. PUSH-ON-JOINT, DUCTILE-IRON PIPE: AWWA C151, WITH PUSH-ON-JOINT BELL AND PLAIN SPIGOT END UNLESS GROOVED OR FLANGED ENDS ARE INDICATED.							
		C. FLANGES: ASME 16.1, CLASS 125, CAST IRON.							
		4.) PVC PIPE AND FITTINGS							
		A. PVC, SCHEDULE 40 PIPE: ASTM D 1785. PVC, SCHEDULE 40 SOCKET FITTINGS: ASTM D 2466.							
C. ENVIRONMENTAL & GEOTECHNICAL REVIEW ALL PROJECT ENVIRONMENTAL AND GEOTECHNICAL REPORTS AN BECOME FAMILIAR WITH ALL ISSUES BEFORE DEMOLITION.		B. PVC, AWWA PIPE: AWWA C900, CLASS 200, WITH BELL END WITH GASKET, AND WITH SPIGOT END.							
		C. MECHANICAL-JOINT, DUCTILE-IRON FITTINGS: AWWA C110, DUCTILE- OR GRAY-IRON STANDARD PATTERN OR AWWA C153, DUCTILE-IRON COMPACT PATTERN.							
		5.) GATE VALVES							
		A. AWWA, CAST-IRON GATE VALVES, NONRISING-STEM, RESILIENT-SEATED GATE VALVES: GRAY- OR DUCTILE-IRON BODY AND BONNET, WITH BRONZE OR GRAY- OR DUCTILE-IRON GATE, RESILIENT SEATS, BRONZE STEM, AND STEM NUT.							
		1. STANDARD: AWWA C509.							
		2. MINIMUM PRESSURE RATINGS: 250 PSIG.							
		3. END CONNECTIONS: MECHANICAL JOINT.							
		4. INTERIOR COATING: COMPLYING WITH AWWA C550.							
		6.) GATE VALVE ACCESSORIES AND SPECIALTIES							
		A. TAPPING-SLEEVE ASSEMBLIES: SLEEVE AND VALVE COMPATIBLE WITH DRILLING MACHINE.							
		1. STANDARD: MSS SP-60.							
D. EXISTING UTILITIES: LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITIES SERVING BUILDINGS AND STRUCTURES TO BE DEMOLISHED.		2. TAPPING SLEEVE: MUELLER NO. H-615, CLOW F-205 OR APPROVED EQUAL. INCLUDE SLEEVE MATCHING SIZE AND TYPE OF PIPE MATERIAL BEING TAPPED AND WITH RECESSED FLANGE FOR BRANCH VALVE.							
		3. VALVE: AWWA, CAST-IRON, NONRISING-STEM, RESILIENT-SEATED GATE VALVE WITH ONE RAISED FACE FLANGE MATING TAPPING-SLEEVE FLANGE.							
		B. VALVE BOXES. COMPLY WITH AWWA M44 FOR CAST-IRON VALVE BOXES. INCLUDE TOP SECTION, ADJUSTABLE EXTENSION OF LENGTH REQUIRED FOR DEPTH OF BURIAL OF VALVE, PLUG WITH LETTERING "WATER," AND BOTTOM SECTION WITH BASE THAT FITS OVER VALVE AND WITH A BARREL APPROXIMATELY 5 INCHES IN DIAMETER.							
		7.) BACKFLOW PREVENTERS							
		A. DOUBLE-CHECK, DETECTOR-ASSEMBLY BACKFLOW PREVENTERS:							
		1. STANDARDS: ASSE 10AB AND UL LISTED OR FMG APPROVED.							
		2. OPERATION: CONTINUOUS-PRESSURE APPLICATIONS.							
		3. PRESSURE LOSS: 5 PSIG MAXIMUM, THROUGH MIDDLE 1/3 OF FLOW RANGE.							
		B. BODY: CAST IRON WITH INTERIOR LINING COMPLYING WITH AWWA C550 OR THAT IS FDA APPROVED.							
SITE CLEARING									
1.) PROJECT CONDITIONS		A. INTERFERENCE WITH INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES DURING SITE CLEARING OPERATIONS.							
		B. ENVIRONMENTAL & GEOTECHNICAL REVIEW ALL PROJECT ENVIRONMENTAL AND GEOTECHNICAL REPORTS AND BECOME FAMILIAR WITH ALL ISSUES BEFORE SITE CLEARING.							
		C. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE SITE CLEARING.							
		D. DO NOT COMMENCE SITE CLEARING OPERATIONS UNTIL TEMPORARY EROSION- AND SEDIMENTATION-CONTROL AND PLANT-PROTECTION MEASURES ARE IN PLACE.							
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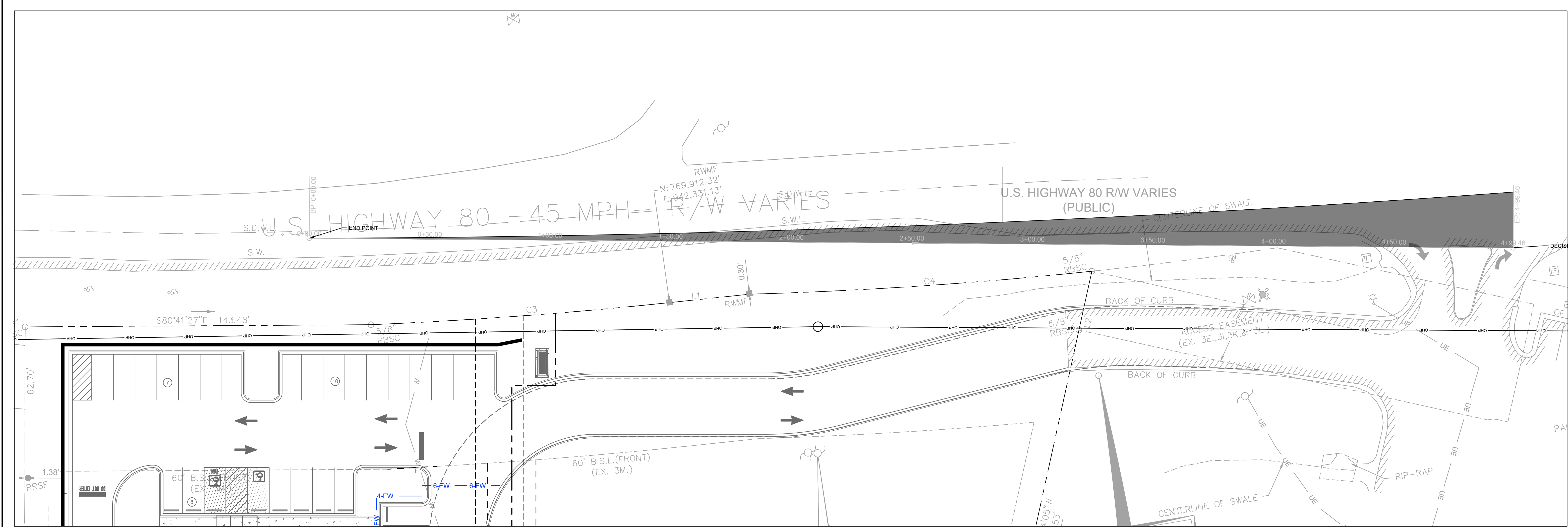








Drawing name: K:\ATL\_Civil\030\_Vet\vet\Companies\Pooler GA\_San DRA\_Vet Clinic\CAD\Planets\c2.10 SIGHT DISTANCE PLAN.dwg C2.10 SIGHT DISTANCE PLAN Aug 14, 2025 10:25am by: Sam Galliard

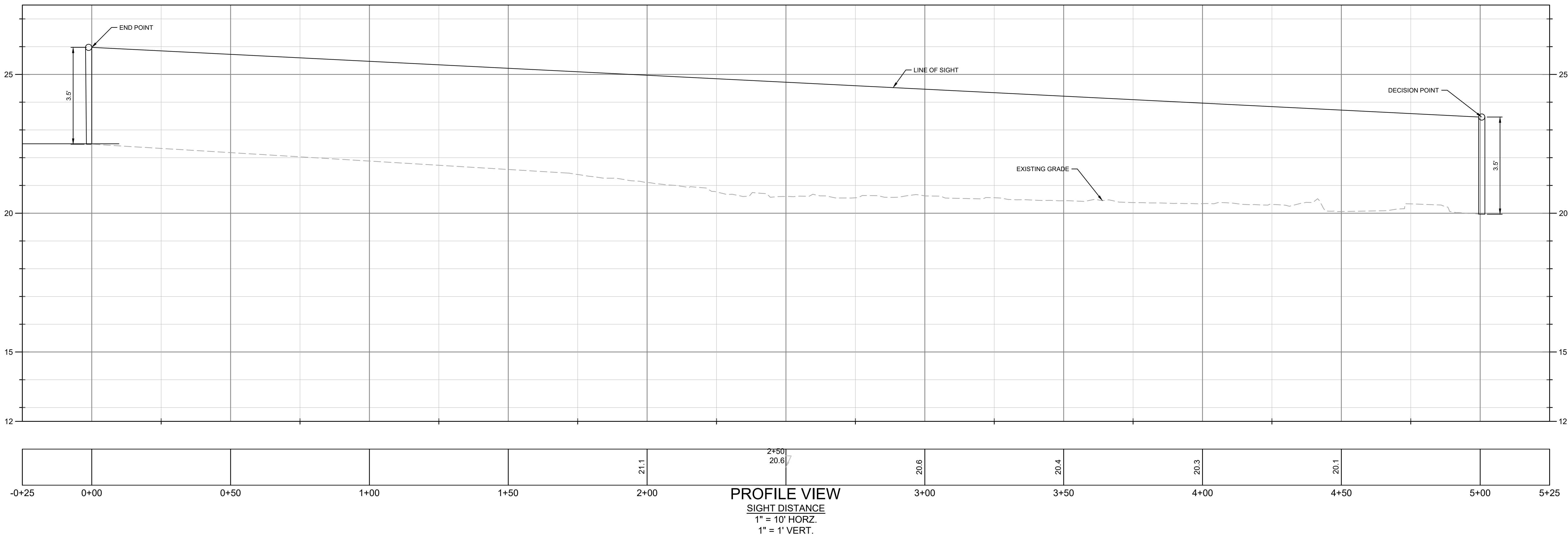


- SIGHT DISTANCE NOTES**
1. FORMULA FOR CALCULATING INTERSECTION SIGHT TRIANGLES WAS DERIVED FROM AASHTO HANDBOOK "GEOMETRIC DESIGN OF HIGHWAYS AND STREETS" 2004 EDITION.
  2. FORMULA:  $ISD = 1.47(V_{maj})Tg$
  3. ISD = INTERSECTION SIGHT DISTANCE
  4.  $V_{maj}$  = POSTED SPEED/DESIGN SPEED
  5.  $Tg$  = TIME GAP = GIVEN TIME (IN SECONDS) BASED ON TIME GAP TABLE ON PAGE 660 FOR EFT TURNS AND PAGE 664 FOR RIGHT TURNS.
  6.  $Tg(LEFT-TURN) = (7.5 \text{ FOR PASSENGER CAR, } 9.5 \text{ FOR SINGLE-UNIT TRUCK, } 11.5 \text{ FOR COMBINATION TRUCK})$
  7.  $Tg(RIGHT-TURN) = (6.5 \text{ FOR PASSENGER CAR, } 8.5 \text{ FOR SINGLE UNIT TRUCK, } 10.5 \text{ FOR COMBINATION TRUCK})$
  8.  $Tg(LEFT-TURN \text{ ACROSS OPPOSING TRAFFIC}) = (5.5 \text{ FOR PASSENGER CAR, } 6.5 \text{ FOR SINGLE UNIT TRUCK, } 7.5 \text{ FOR COMBINATION TRUCK})$
  9. FOR LEFT TURNS ONTO TWO-WAY HIGHWAYS WITH MORE THAN TWO LANES, AN ADDITIONAL 0.5 SECONDS MUST BE ADDED FOR PASSENGER CARS OR 0.7 SECONDS FOR TRUCKS FOR EACH ADDITIONAL LANE, FROM THE LEFT, IN EXCESS OF 1 TO BE CROSSED BY TURNING VEHICLE.
  10. FOR RIGHT TURNS ONTO TWO-WAY HIGHWAYS WITH MORE THAN TWO LANES AND LEFT TURNS ACROSS OPPOSING TRAFFIC THE METHOD IS THE SAME AS FOR LEFT TURNS EXCEPT THE TIME GAPS SHOULD BE ADJUSTED TO THOSE SHOWN IN THE TIME GAP NOTE FOR RIGHT TURNS.

## SIGHT DISTANCE TABLE

The diagram illustrates the geometry of sight distance. It shows two vehicles on a road, one at distance SDR from a point and another at distance SDL. The eye height is 3.5 feet and the object height is 3.5 feet. The sight line is shown as a dashed line connecting the eyes of the two vehicles. The total sight distance is the sum of SDR and SDL.

ARTERIAL SPEED (MPH)	SIGHT DISTANCE (FEET)							
	2 Lane		3 Lanes		4 Lanes		5 Lanes	
	SDL+SDR	SDL	SDR	SDL	SDR	SDL	SDR	SDL
30	335	335	310	375	335	450	400	355
35	390	415	365	440	390	465	415	370
40	445	475	415	500	445	530	475	425
45	500	530	465	565	500	600	530	480
50	555	590	515	625	555	665	590	535
55	610	650	570	690	610	730	650	590
60	665	710	620	750	665	795	710	645
65	720	765	675	815	720	860	765	700



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7711 DISTRICT

PROJECT

GSWCC CERT. (LEVEL II) 0000022363

DRAWN BY LCW

DESIGNED BY SPG

REVIEWED BY BLH

DATE 12.11.2024

PROJECT NO. 017684000

TITLE **SIGHT DISTANCE PLAN**

SHEET NUMBER **C2.10**

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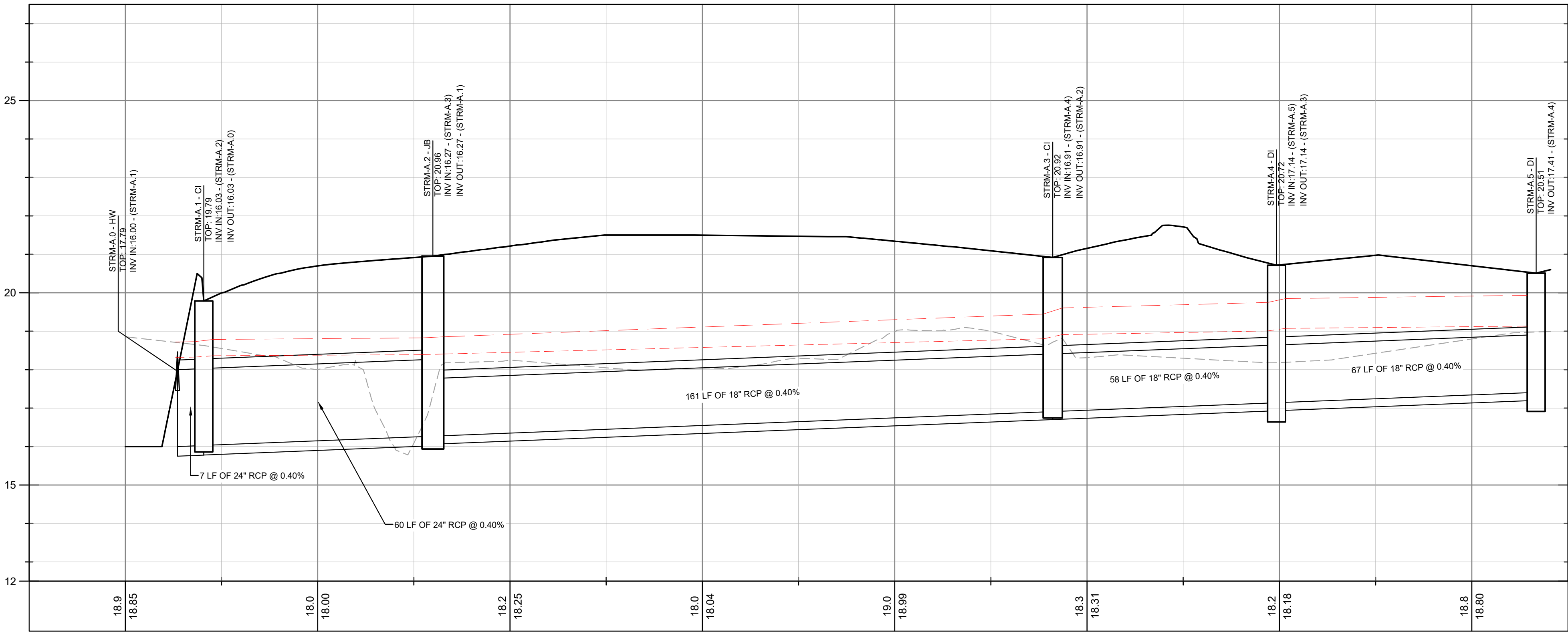




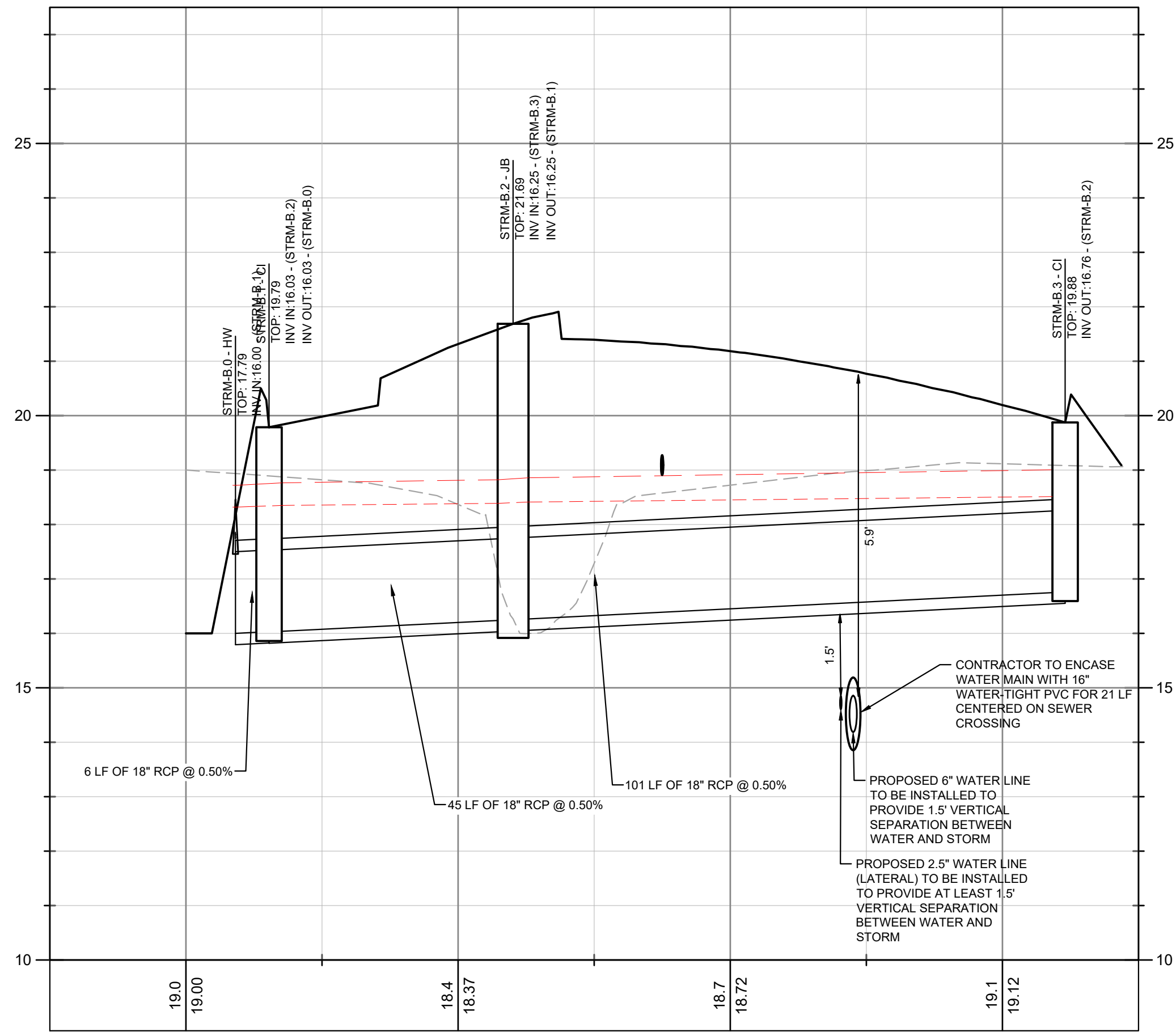




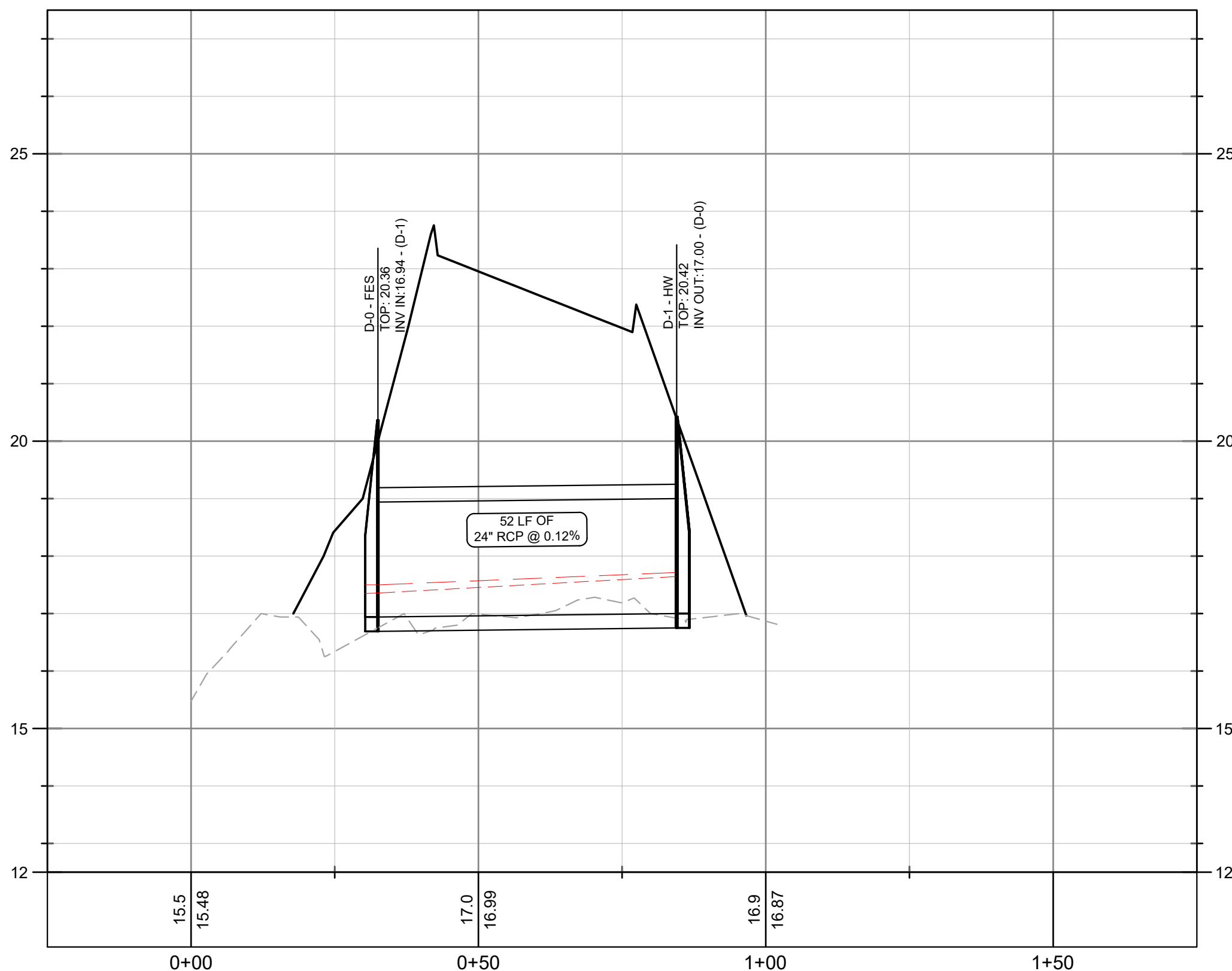
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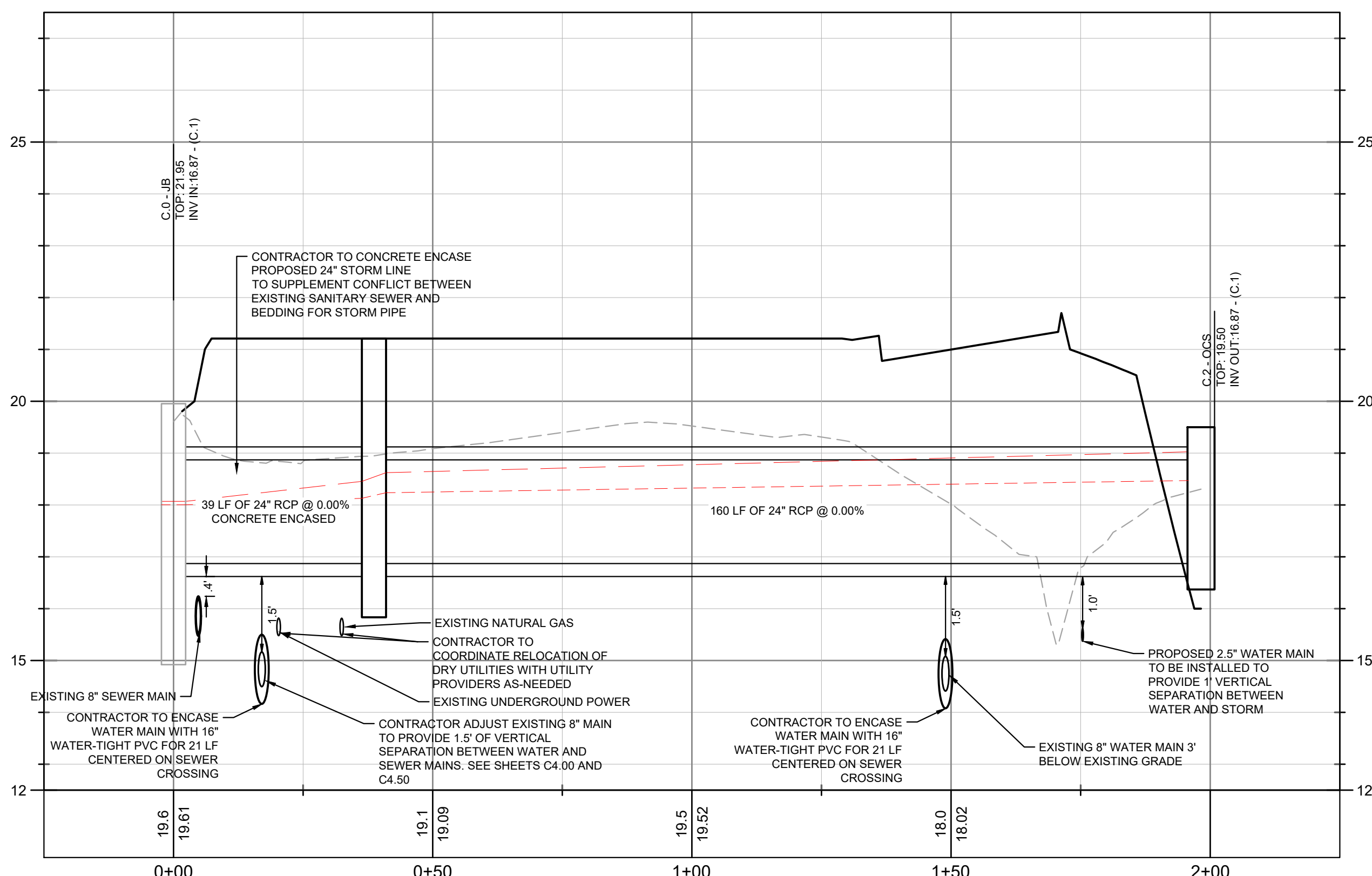
PROFILE VIEW  
STRM A  
1" = 20' HORIZ.  
1" = 2' VERT.



PROFILE VIEW  
STRM B  
1" = 20' HORIZ.  
1" = 2' VERT.



PROFILE VIEW  
Headwall  
STRM C  
1" = 20' HORIZ.  
1" = 2' VERT.

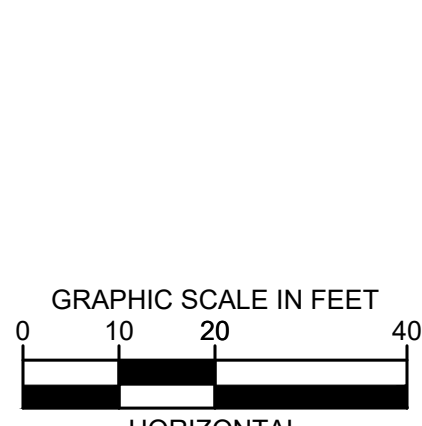


PROFILE VIEW  
STRM D  
1" = 20' HORIZ.  
1" = 2' VERT.

Line No.	Line ID	Flow Rate (cfs)	Line Size (Rise x Span) (in)	Line Type	Line Length (ft)	Invert Elev. Down (ft)	Invert Elev. Up (ft)	Line Slope (%)	HGL Down (ft)	HGL Up (ft)	Minor Loss (ft)
1	STRM-A.1 TO STRM-A.0	6.59	24	Cir	6.844	16.00	16.03	0.44	18.32	18.33*	0.04
2	STRM-A.2 TO STRM-A.1	4.86	24	Cir	59.553	16.03	16.27	0.40	18.36	18.39*	0.02
3	STRM-A.3 TO STRM-A.2	5.20	18	Cir	161.116	16.27	16.91	0.40	18.41	18.80*	0.11
4	STRM-A.4 TO STRM-A.3	4.30	18	Cir	58.194	16.91	17.14	0.40	18.91	19.01*	0.07
5	STRM-A.5 TO STRM-A.4	3.10	18	Cir	67.469	17.14	17.41	0.40	19.07	19.13*	0.05
6	C.1 TO C.0	7.39	24	Cir	38.662	16.87	16.87	0.00	18.07	18.19	0.11
7	C.2 TO C.1	7.39	24	Cir	159.554	16.87	16.87	0.00	18.30	18.54	0.11
8	STRM-B.1 TO STRM-B.0	4.80	18	Cir	6.164	16.00	16.03	0.49	18.32	18.33*	0.02
9	STRM-B.2 TO STRM-B.1	3.06	18	Cir	44.824	16.03	16.25	0.49	18.35	18.39*	0.02
10	STRM-B.3 TO STRM-B.2	3.31	18	Cir	101.425	16.25	16.76	0.50	18.41	18.51*	0.05
11	D-1 TO D-0	3.45	24	Cir	61.209	15.87	17.00	1.85	16.37	17.65	n/a

- STORM DRAINAGE PROFILE NOTES**
1. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
  2. CONTRACTOR TO FIELD VERIFY EXISTING INVERT FOR STORM DRAINAGE SERVICE CONNECTIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCY PRIOR TO PROCEEDING.
  3. RIM ELEVATIONS GIVEN ARE APPROXIMATE. CONTRACTOR SHALL REFERENCE GRADING PLAN FOR STRUCTURE THROAT / RIM ELEVATIONS.
  4. IF ANY CONFLICTS, DISCREPANCIES, OR ANY OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE FURTHER OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.
  5. ALL STORM JOINTS TO BE WATER TIGHT.

- STORM DRAINAGE PROFILE LEGEND**
- PROPOSED GRADE LINE
  - - - EXISTING GRADE LINE
  - - - 25-YR HYDRAULIC GRADE LINE
  - - - 100-YR HYDRAULIC GRADE LINE



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PROJECT

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DRAWN BY LCW

DESIGNED BY SPG

REVIEWED BY BLH

DATE 12.11.2024

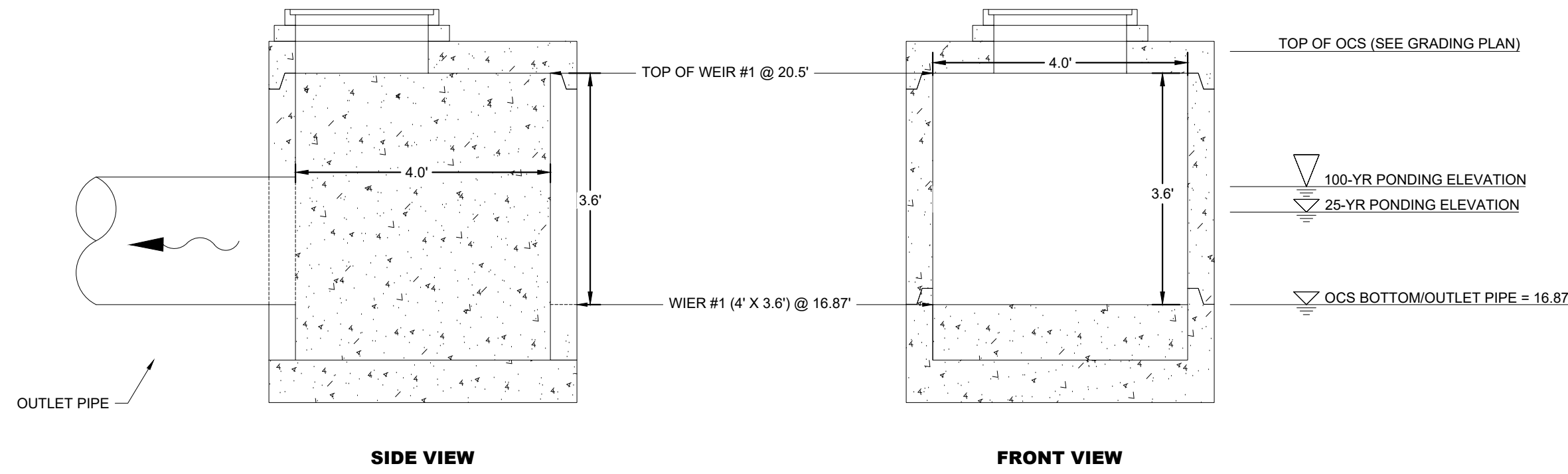
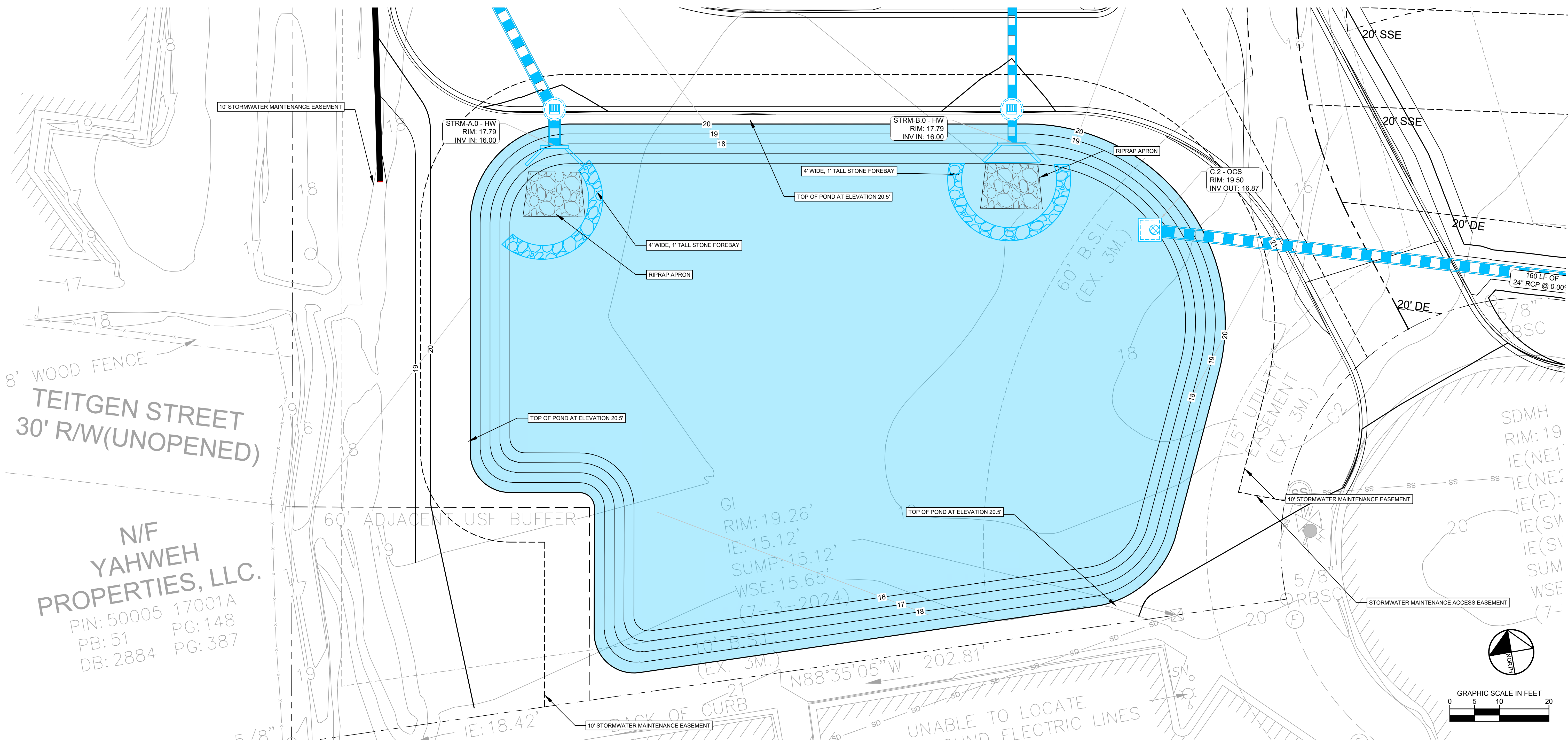
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TITLE **STORM SEWER PROFILES**

SHEET NUMBER **C3.50**



Drawing name: K:\ATL\_Civil03\_Vet Clinic\CAD\Plans\stc3.80 - STORMWATER MANAGEMENT PLAN.dwg C3.80 STORMWATER MANAGEMENT PLAN Aug 14, 2025 10:27am by: Sam Galliard



BMP #1 OCS DETAIL (E-1.1)  
N.T.S.

STORMWATER BMP SUMMARY		
BMP ID	BMP 1	
BMP TYPE	WET POND	
BMP DESCRIPTION	WET POND WITH PERM. POOL	
STORAGE SUMMARY		ELEVATION
WATER QUALITY REQUIRED	4,747 FT <sup>3</sup>	16.40'
PERMANENT POOL VOLUME	10,649 FT <sup>3</sup>	16.87'
25-YR STORM EVENT	26,788 FT <sup>3</sup>	18.32'
100-YR STORM EVENT	31,843 FT <sup>3</sup>	18.72'
TOTAL STORAGE	48,959 FT <sup>3</sup>	20.00'
OCS SUMMARY		ELEVATION
OUTLET PIPE	24" Ø	16.87'
WEIR	4' WIDE X 3' TALL	16.87'

#### STORMWATER BMP AS-BUILT NOTES

- AS-BUILTS WILL BE REQUIRED FOR ALL STORMWATER MANAGEMENT BMPs INCLUDING UNDERGROUND AND GI/LID SYSTEMS.
- SURFACE PONDS** - AFTER CONSTRUCTION THE CONTRACTOR SHALL COLLECT AS-BUILT ELEVATION AND PERIMETER LIMITS FOR THE FOLLOWING: BOTTOM OF POND, EMERGENCY SPILLWAY, TOP OF BERM/POND, INLETS, HEADWALLS, OCS, ETC.

#### GRADING LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED SPOT GRADE
- PROPOSED TOP GRADE AT WALL
- PROPOSED BOTTOM GRADE AT WALL
- PROPOSED TOP OF STAIR GRADE
- PROPOSED BOTTOM OF STAIR GRADE
- PROPOSED HIGH POINT GRADE
- PROPOSED LOW POINT GRADE
- PROPOSED TOP OF CURB GRADE
- PROPOSED BOTTOM OF CURB GRADE

#### STORM DRAINAGE LEGEND

- JUNCTION BOX (XXXXXXXXXX)
- HOODED GRATE CURB INLET (GDOT 1019A, TYPE E)
- GRATE INLET (GDOT 10191A, TYPE A)
- SINGLE WING CATCH BASIN (GDOT 1033D)
- DOUBLE WING CATCH BASIN (GDOT 1034D)
- YARD DRAIN (NDS CATCH BASIN OR COMPARABLE)
- CLEAN OUT (XXXXXXXXXX OR COMPARABLE)
- WATER QUALITY DEVICE (CONTECH CDS4040-8-C)
- OUTLET CONTROL STRUCTURE (CAST-IN-PLACE)
- TRENCH DRAIN
- PROPOSED ROOF DRAIN PIPE
- PROPOSED STORM PIPE

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7711 DISTRICT

PROJECT NO.

017684000

DATE

12.11.2024

DESIGNED BY

SPG

DRAWN BY

LCW

GSWCC CERT. (LEVEL II)

0000022363

REVIEWED BY

BLH

TITLE

STORMWATER MANAGEMENT PLAN

SHEET NUMBER

C3.80



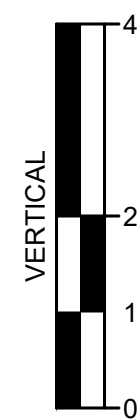
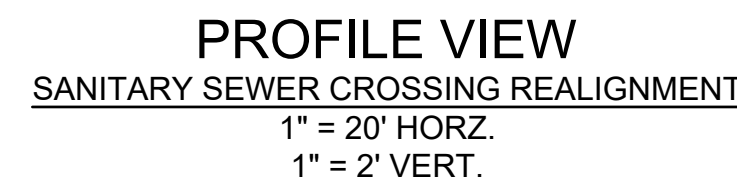
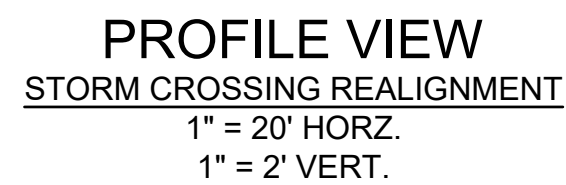
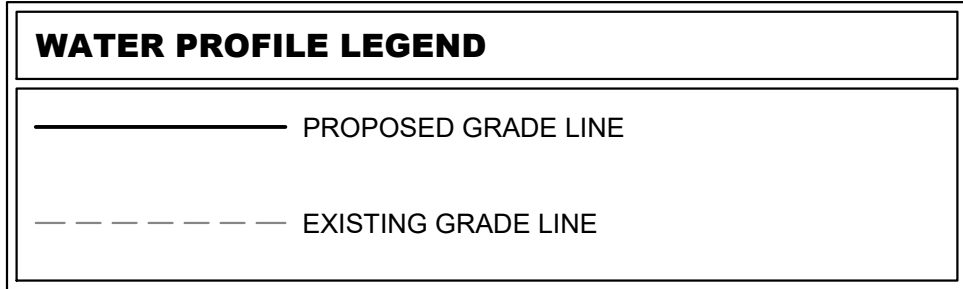










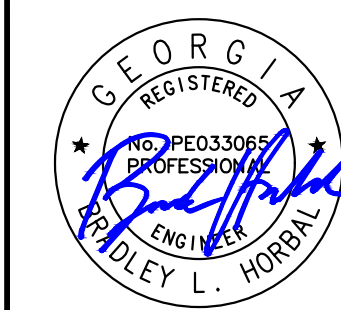


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REVIEWED BY	BLH
DATE	12.11.2024
PROJECT NO.	017684000

TITLE	<b>WATER MAIN ALIGNMENT PROFILES</b>
SHEET NUMBER	<b>C4.60</b>

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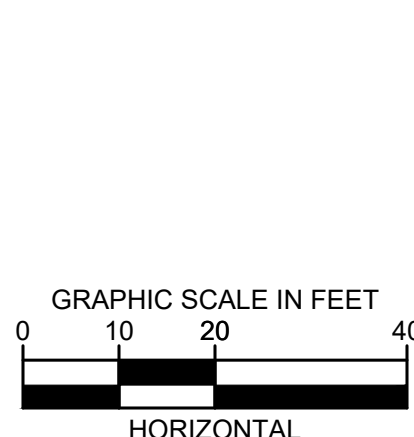
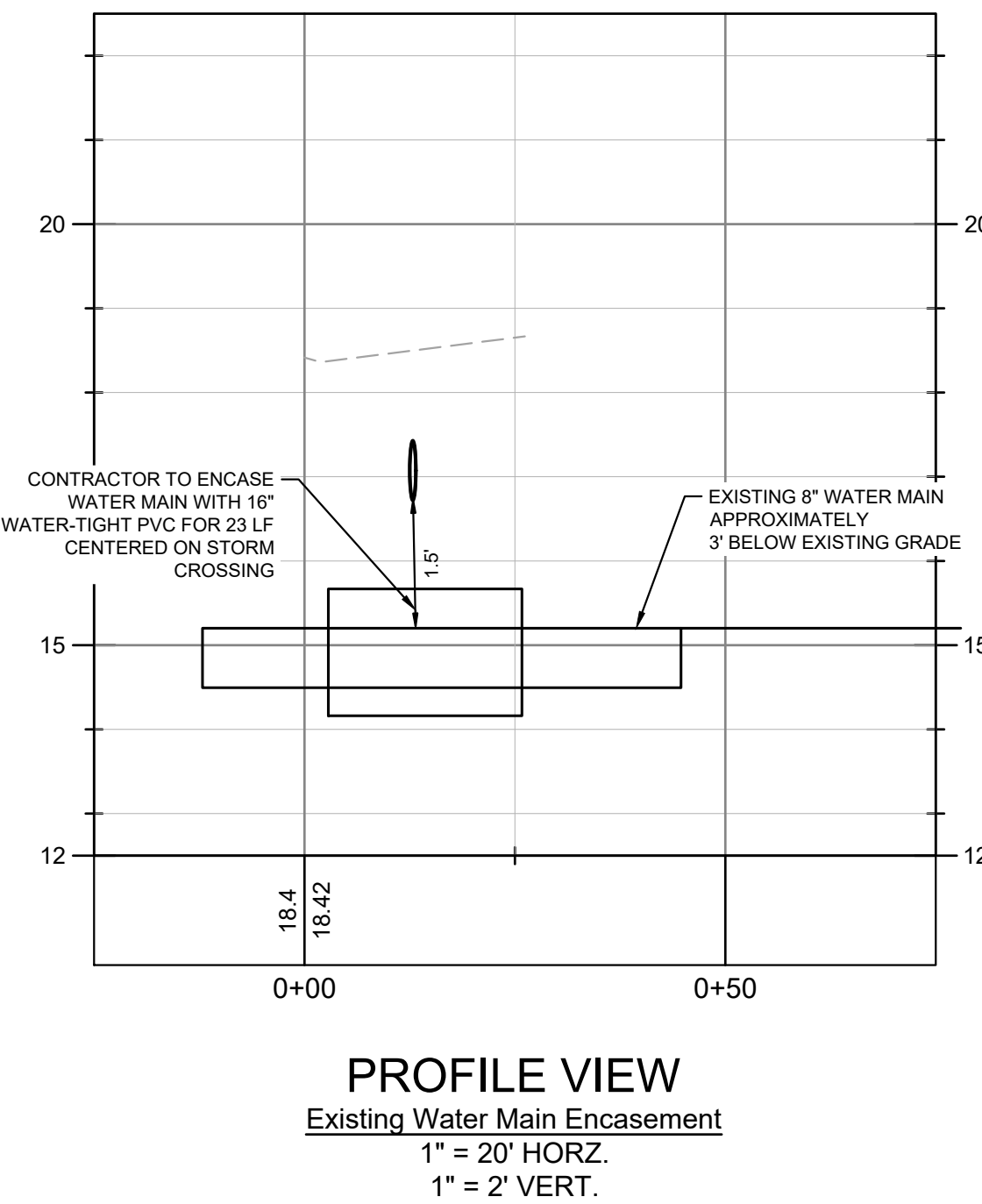
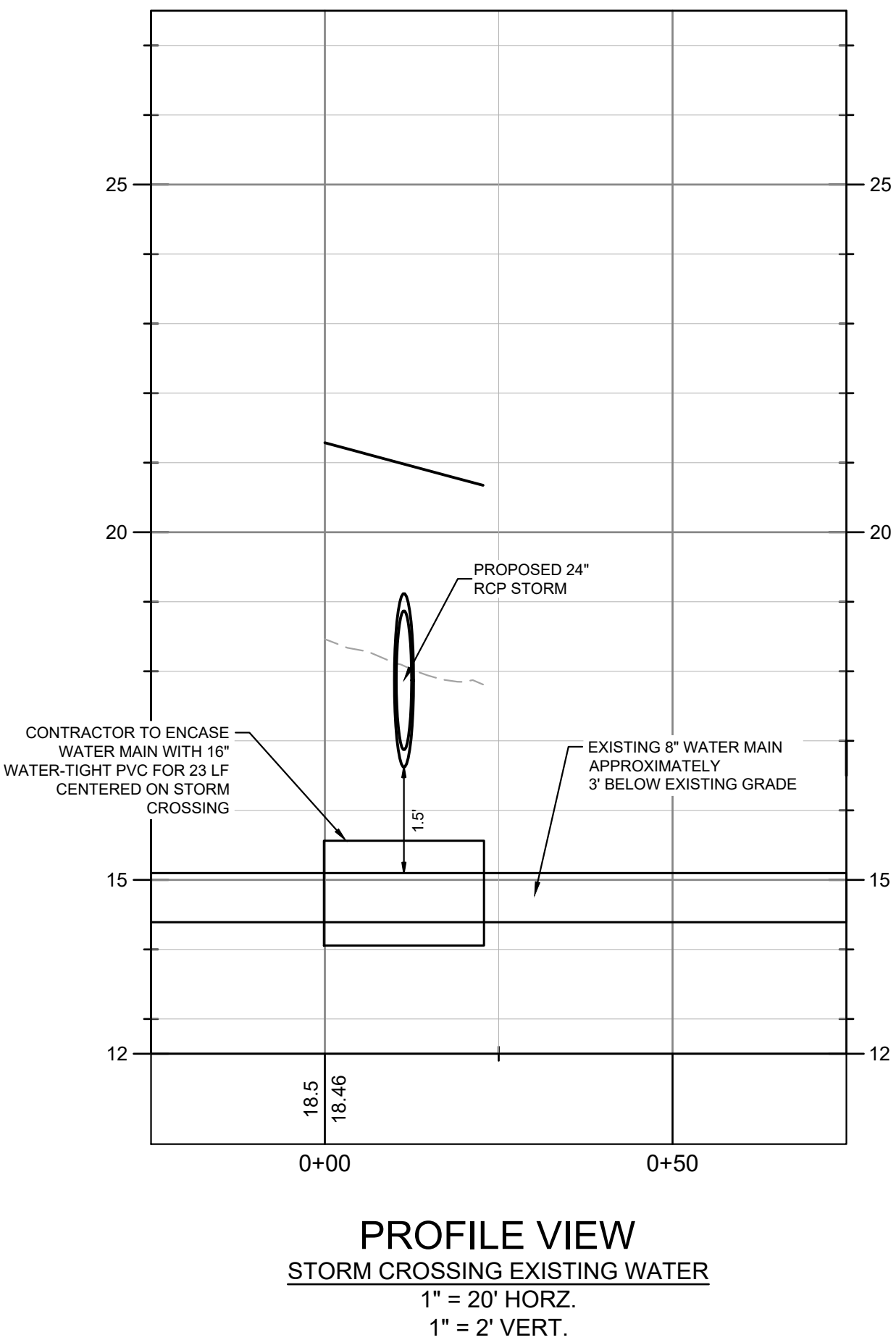
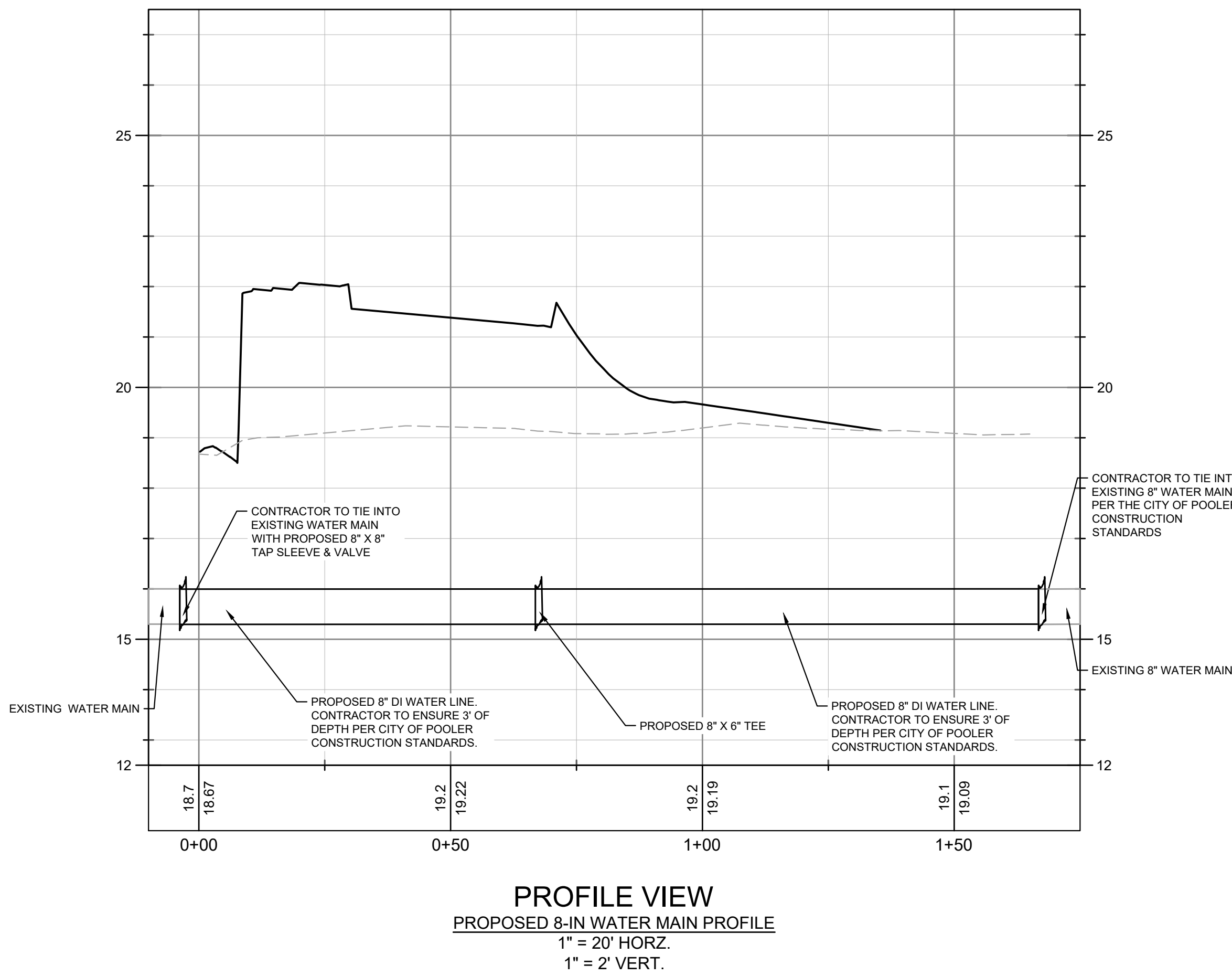
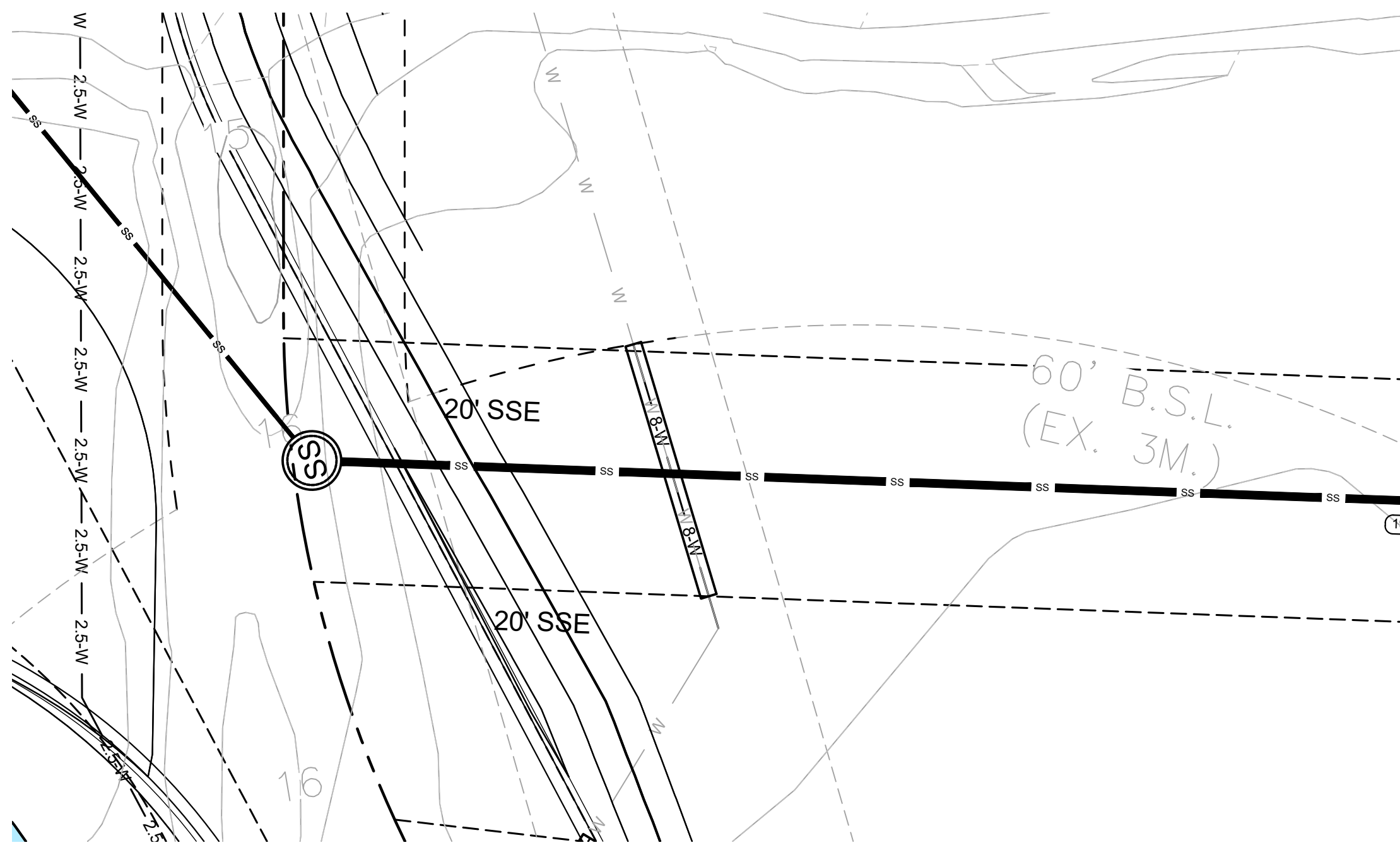
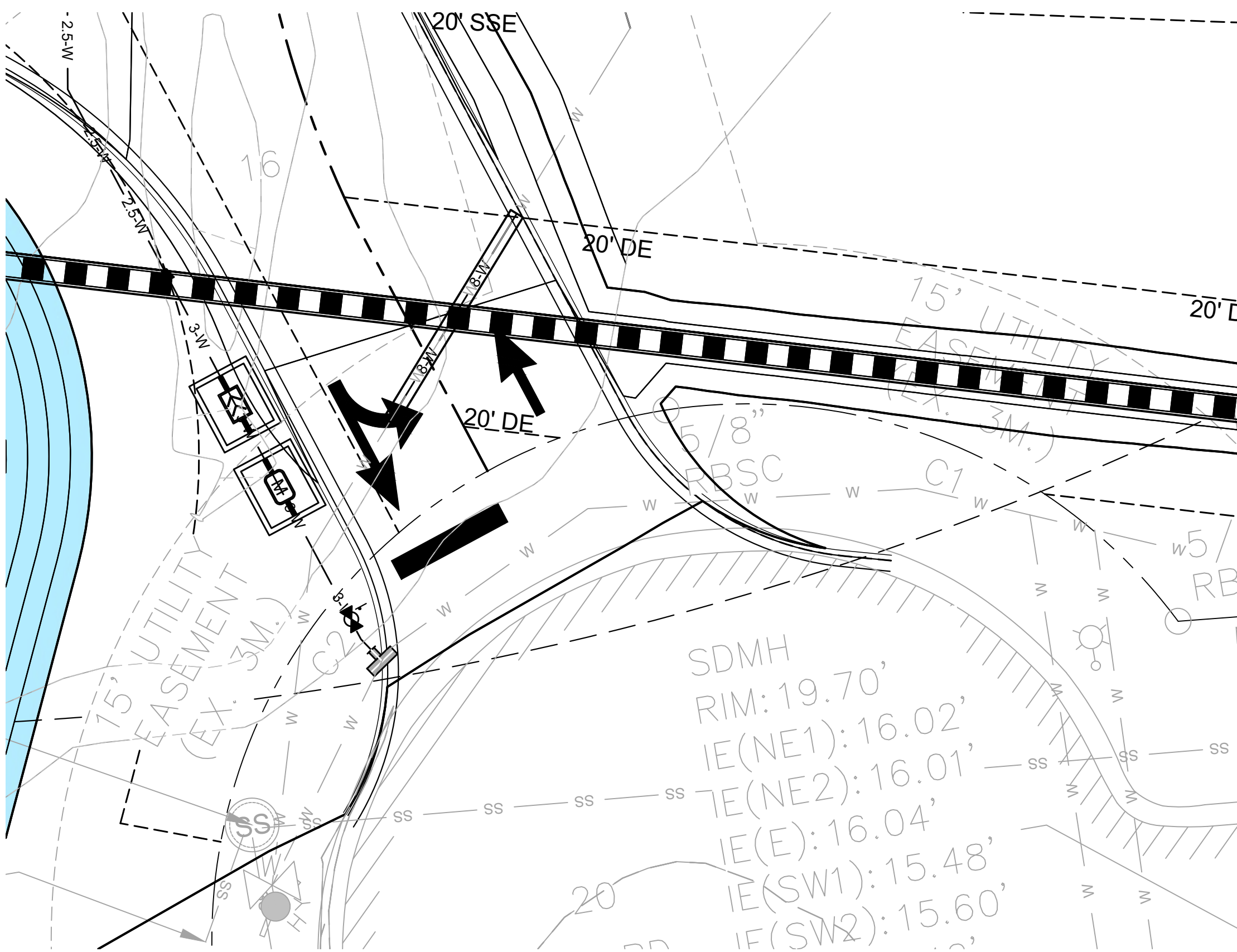
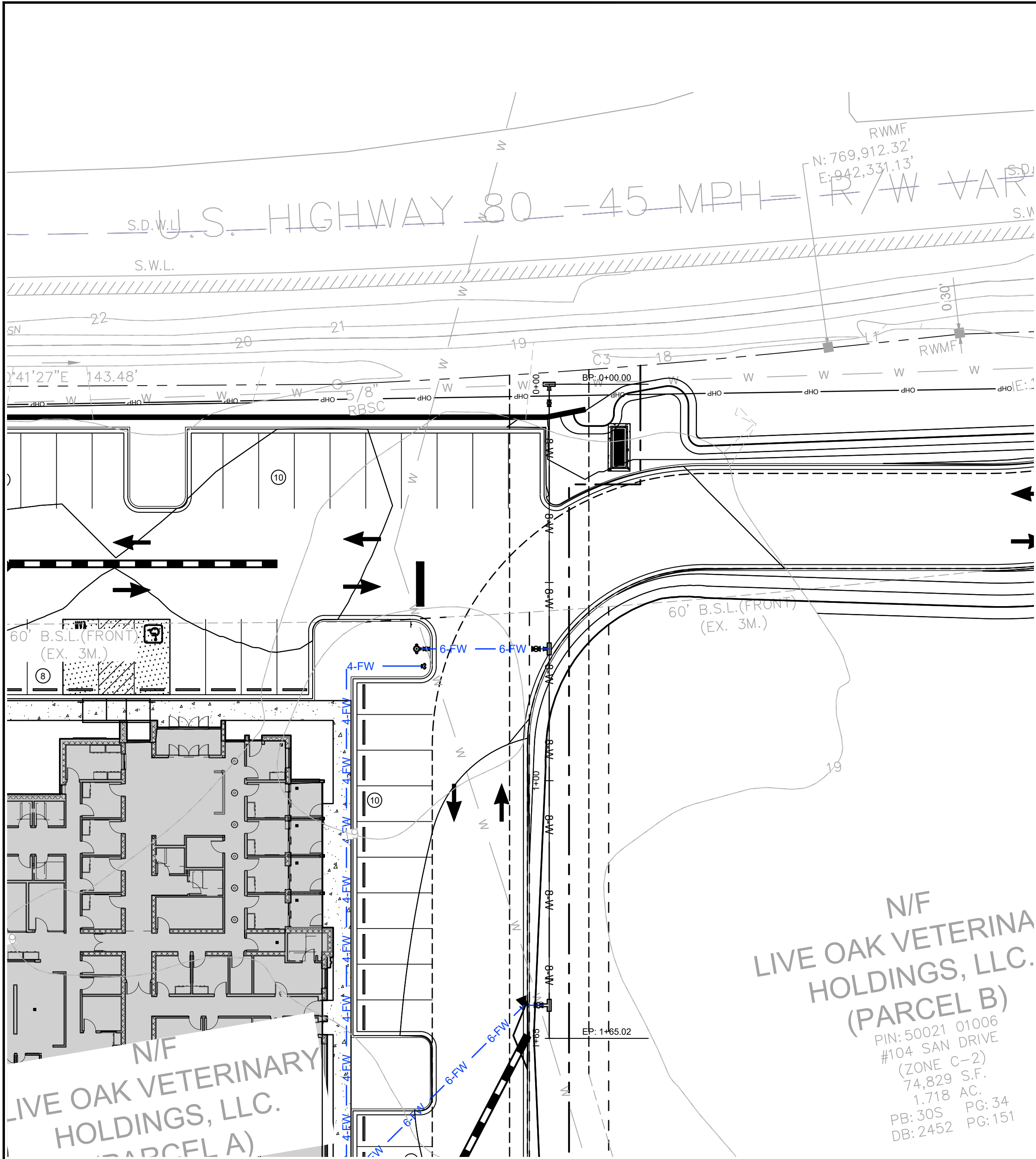
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© 2025 KIMLEY-HORN AND ASSOCIATES, INC.

LIVE OAK VETERINARY HOLDINGS, LLC

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POOLER VET CLINIC

103 SAN DRIVE  
POOLER, GA 31322  
PIN 50021 01006  
7711 DISTRICT



GSWCC CERT. (LEVEL III) 0000022363  
DRAWN BY LCW  
DESIGNED BY SPG  
REVIEWED BY BLH  
DATE 12.11.2024  
PROJECT NO. 017684000  
TITLE WATER MAIN ALIGNMENT PROFILES  
SHEET NUMBER C4.61



Drawing name: K:\ATL\_Civil\0000\_Parameters\CS 00 - EROSION CONTROL NOTES.dwg CS:00 EROSION CONTROL NOTES Aug 14, 2025 10:37am by: Sam Gaillard

1

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST

STAND ALONE CONSTRUCTION PROJECTS GAR100001

SWCD: COASTAL - REGION 3 (CHATHAM)

Project Name: POOLER VET CLINIC

Address: 102 SAN DRIVE, POOLER, GA 31322

Local Issuing Authority: CITY OF POOLER

Date on Plans: 12/11/2024

Name & email of person filling out checklist: SAM GAILLARD, EIT - SAM.GAILLARD@KIMLEY-HORN.COM

Plan	Issued			TO BE SHOWN ON ES&PC PLAN												
Page #	Y/N															
CS:00	Y	1.	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)													
Titleblock, CS:00	Y	2.	Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed. The Level II certification must be issued to the Design Professional, after completion of a GSWCC approved course, and whose signature and seal are on the Plan.)													
N/A	N	3.	Limits of disturbance shall be less than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include the GAEPD approval letter and completed Appendix 1 of this checklist with at least 4 of the chosen BMPs. *A copy of the written approval by GAEPD must be attached to the Plan for the Plan to be reviewed.)													
CS:00, CS:00	Y	4.	The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.													
CS:00, CS:00	Y	5.	Provide the name, address, email address and phone number of Primary Permittee.													
CS:00, CS:10-CS:30	Y	6.	Note total and disturbed acreage of the project or phase under construction.													
CS:00, CS:10-CS:20	Y	7.	Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.													
CS:00, CS:10-CS:30	Y	8.	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.													
CS:00	Y	9.	Description of the nature of construction activity and existing site conditions.													
CS:00	Y	10.	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.													
CS:00	Y	11.	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.													
CS:00	Y	12.	Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 20 of the permit.													
CS:00	Y	13.	Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 20 of the permit.*													
CS:00	Y	14.	Clearly note the statement that "Prior to commencing with construction activities as required by part III D.2. of the Permit, the design professional who prepared the ES&PC Plan is to inspect and certify the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation."													
CS:00	Y	15.	Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of westered 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."													
CS:00, CS:10-CS:30	N	16.	Provide a description of any buffer encroachments and indicate where a buffer variance is required.													
CS:00	Y	17.	Clearly note the statement that "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."													
CS:00	Y	18.	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit."													
CS:00	Y	19.	Clearly note statement that "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."													
CS:00	Y	20.	Clearly note statement that "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."													
CS:00	Y	21.	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."													
N/A	N	22.	Any construction activity which discharges storm water into a Biot Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of a Biot Impaired Stream Segment, must comply with Part III C. of the permit. Include the completed Appendix 1 of this checklist with at least 4 of the chosen BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.													
N/A	N	23.	If a TMDL Implementation Plan is submitted has been finalized for the Biot Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *													
CS:10-CS:30, CS:01	Y	24.	BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Include statement that washout of the drum at the construction site is prohibited."													
CS:01	Y	25.	Provide bmps for the remediation of all petroleum spills and leaks. Notify EPO at (404) 656-4863 or (800) 241-4113 and the National Response Center (NRC) at (800) 424-6802.													
CS:00	Y	26.	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *													
CS:01	Y	27.	Description of the practices to provide cover for building materials and building products on site. *													
CS:00	Y	28.	Description of the practices that will be used to reduce the pollutants in storm water discharges. *													
CS:00	Y	29.	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, grading, infrastructure, temporary and final stabilization).													
CS:01	Y	30.	Provide complete requirements of Inspection and record keeping by the Primary Permittee. * (Part IV D.4.a. on pages 30-33 of the current permit.)													
CS:01	Y	31.	Provide complete requirements of Sampling Frequency and Reporting of sampling results. * (Part IV D.6.d. pages 36-37 Sampling Frequency and Part IV E. page 38 Reporting in the current permit.)													
CS:01	Y	32.	Provide complete details for Retention of Records, as per Part IV F. of the permit. (Part IV F. pages 38-39 Retention of Records in the current permit.)													
CS:01	Y	33.	Description of analytical methods to be used to collect and analyze the samples from each location. *													
CS:00	N	34.	Appendix B rationale for NTU values at all outfall sampling points where applicable. *													
CS:00, CS:10-CS:30	Y	35.	Delineate all sampling locations on all phases of the Plan, and perennial and intermittent streams and other water bodies into which storm water is discharged. *													
CS:10-CS:30	Y	36.	A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase plan.													
CS:10-CS:30	Y	37.	Graphic scale and North arrow.													
CS:10-CS:30	Y	38.	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: <table><thead><tr><th>Map Scale</th><th>Ground Slope</th><th>Contour Interval, ft</th></tr></thead><tbody><tr><td>1 inch = 100 ft or larger scale</td><td>Flat 0 - 2%</td><td>0.5 or 1</td></tr><tr><td></td><td>Rolling 2 - 8%</td><td>1 or 2</td></tr><tr><td></td><td>Steep 8% +</td><td>2.5 or 10</td></tr></tbody></table>	Map Scale	Ground Slope	Contour Interval, ft	1 inch = 100 ft or larger scale	Flat 0 - 2%	0.5 or 1		Rolling 2 - 8%	1 or 2		Steep 8% +	2.5 or 10	
Map Scale	Ground Slope	Contour Interval, ft														
1 inch = 100 ft or larger scale	Flat 0 - 2%	0.5 or 1														
	Rolling 2 - 8%	1 or 2														
	Steep 8% +	2.5 or 10														
N/A	N	39.	Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Refer to the Alternative BMP Guidance Document found at <a href="http://www.gswcc.org">www.gswcc.org</a>													
N/A	N	40.	Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A.2 of the Manual for Erosion and Sediment Control in Georgia 2016 Edition. *													
CS:10-CS:30	N	41.	Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.													
CS:10-CS:30	N	42.	Delineation of all State Waters and wetlands located on or within 200 feet of the project site.													
CS:10-CS:30	Y	43.	Delineation and acreage of contributing drainage basins on the project site.													
SEE HYDRO	Y	44.	Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *													
CS:00	Y	45.	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. For solar farm projects, post-construction impervious area shall be calculated as 70% of total solar panel square footage.													
CS:00	Y	46.	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/delineate all storm water discharge points.													
CS:10-CS:30	Y	47.	Soil series for the project site and their delineation.													
CS:10-CS:30	Y	48.	The limits of disturbance for each phase of construction.													
CS:10-CS:30, CS:02	Y	49.	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Workflows from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, Permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.													
CS:03, CS:10-CS:30	Y	50.	Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual Chapter 6, with legend.													
CS:00 & 90 Series	Y	51.	Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.													
CS:01	Y	52.	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.													

\*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the \* checklist items would be N/A.

Effective January 1, 2025

ACTIVITY SCHEDULE

START DATE

OCTOBER 2025

END DATE

OCTOBER 2027

THIS SCHEDULE IS TO BE USED FOR PERMITTING PURPOSES ONLY. REFER TO APPROVED PROJECT SCHEDULE FOR EXACT CONSTRUCTION SEQUENCING.

DESCRIPTION	MONTH													
	2	4	6	8	10	12	14	16	18	20	22	24		
INSTALL TREE SAVE FENCE FOR INSPECTION AND APPROVAL BY CITY ARBORIST														
INITIAL EROSION CONTROL BMP INSTALL.														
7-DAY LETTER														
SOB INSTALLATION AND MAINTENANCE														
DEMOLITION														
CLEARING, GRUBBING, GRADING														
TEMPORARY GRASSING														
PERMANENT GRASSING (IF APPLICABLE)														
INTER. EROSION CONTROL BMPs INSTALL.														
MAINT. OF EROSION CONTROL DEVICES/BMPs														
STORM AND SANITARY SEWER INSTALL.														
BUILDING CONSTRUCTION														
FINAL EROSION CONTROL BMPs INSTALL.														
FINAL PAVING														
CLEANING OF STORM DRAINS														
FINAL LANDSCAPING														
REMOVAL OF EROS. CONTROL MEASURES														

#### ES&PC CHECKLIST SUMMARY

- #2

DESIGN PROFESSIONAL LEVEL II CERTIFICATION ISSUED/EXPIRATION DATE

BRAD HORBAL, P.E. 0000022363 02/01/2025; 02/01/2028
- #4

24-HR CONTACT COMPANY PHONE

TYLER STREET CHOKATE CONSTRUCTION 912.856.2383
- #5

PRIMARY PERMITTEE COMPANY ADDRESS PHONE EMAIL

DR. JASON KING LIVE OAK VETERINARY HOLDINGS, LLC 2 BAILEY REACH SAVANNAH, GA 31411 912.662.7444 LINECAWVET@GMAIL.COM
- #6

TOTAL SITE AREA TOTAL DISTURBED AREA

1.93 ACRES 2.58 ACRES
- #7

CONSTRUCTION EXIT LOCATION (LAT. 32.112498, LONG. -81.242419)
- #9

PROJECT SUMMARY AND NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT INCLUDES THE CONSTRUCTION OF APPROXIMATELY 10,000 SF OF COMMERCIAL BUILDING FOR VETERINARIAN CLINICAL USE. THE PROJECT ALSO INCLUDES SURFACE PARKING, STORMWATER CONVEYANCE AND DETENTION, AND ALL ASSOCIATED UTILITIES. THE TOTAL AREA ON SITE IS 1.93 ACRES, AND THE TOTAL DISTURBED AREA IS 2.58 INCLUDING PUBLIC ROW.
- #11

THE RECEIVING WATER FOR THE PROJECT IS AN UNNAMED TRIBUTARY OF LITTLE OCEECHEE RIVER.
- #14

PRIOR TO COMMENCING WITH CONSTRUCTION ACTIVITIES AS REQUIRED BY PART III D.2. OF THE PERMIT, THE DESIGN PROFESSIONAL, WHO PREPARED THE ES&PC PLAN IS TO INSPECT AND CERTIFY THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION
- #15

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-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.
- #16

STREAM BUFFER ENCROACHMENTS ARE NOT PROPOSED FOR THIS SITE.
- #17

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.
- #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

THE PROJECT DOES NOT LIE WITHIN ONE LINEAR MILE OF A BIOTA IMPAIRED STREAM SEGMENT AND DOES NOT DISCHARGE DIRECTLY INTO AN IMPAIRED STREAM SEGMENT.
- #23

TMDL IMPLEMENTATION PLAN FOR THE PROJECT SITE DOES NOT EXIST.
- #26

STORMWATER MANAGEMENT MEASURES FOR CONTROLLING POLLUTANTS
  - STORMWATER DETENTION PRACTICES WITH WATER QUALITY ORIFICE
  - VELOCITY DISSIPATION DEVICES - RIPRAP APRON OUTLET PROTECT
  - WASTE DISPOSAL - LOCATE WASTE COLLECTION AREAS AWAY FROM STREETS, GUTTERS, WATERCOURSES AND STORM DRAINS.
- #28

POTENTIAL SOURCES OF POLLUTION AND CONTROL PRACTICES
  - 80% TSS REMOVAL - DETENTION POND WITH WATER QUALITY ORIFICE FOREBAYS
  - VELOCITY DISSIPATION DEVICES - RIPRAP APRON OUTLET PROTECTION
  - WASTE DISPOSAL - LOCATE WASTE COLLECTION AREAS AWAY FROM STREETS, GUTTERS, WATERCOURSES AND STORM DRAINS.
- #45

PRE-DEVELOPED RUNOFF COEFFICIENT POST-DEVELOPED RUNOFF COEFFICIENT

0.22 0.60

APPENDIX B - NEPHELOMETRIC TURBIDITY UNIT (NTU) TABLE

WARM WATER (SUPPORTING WARM WATER FISHERIES)									
SITE AREA	SURFACE WATER DRAINAGE AREA, SQUARE MILES								
ACRES	0.00 - 4.99	5.00 - 9.99	10.00 - 24.99	25.00 - 49.99	50.00 - 99.99	100.00 - 249.99	250.00 - 499.99	500.00+	
1.00 - 10.00	75	150	200	400	750	750	750	750	
10.01 - 25.00	50	100	100	200	300	500	750	750	
25.01 - 50.00	50	50	100	100	200	300	750	750	
50.01 - 100.00	50	50	50	100	100	150	300	600	
100.01+	50	50		50	50	100	200	100	

#### SITE DEVELOPMENT SUMMARY

1. CONTRACTOR IS TO ADHERE TO THE CITY OF POOLER EROSION AND SEDIMENT CONTROL REGULATIONS, AND THE "MANUAL FOR EROSION AND SEDIMENT CONTROL" FOR GEORGIA.
2. ALL OPEN DRAINAGE SWALES SHALL BE GRASSED AND RIPRAP SHALL BE PLACED AS REQUIRED TO CONTROL EROSION.
3. THE CONTRACTOR SHALL INSTALL AND MAINTAIN SILT BARRIERS AROUND ALL DRAINAGE STRUCTURES UNTIL ALL CONSTRUCTION HAS BEEN COMPLETED.
4. SILT FENCES SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING THE PROPERTY LIMITS.
5. SILT FENCE SHALL MEET THE REQUIREMENTS OF SECTION 171-TEMPORARY SILT FENCE, OF THE GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, CURRENT EDITION AND BE WIRE REINFORCED.
6. THERE ARE NO CURRENT APPARENT EROSION CONTROL PROBLEMS ON SITE. CONTRACTOR SHALL TAKE PRECAUTIONS AS NECESSARY TO PREVENT EROSION AND SEDIMENT TRANSPORT DURING CONSTRUCTION.
7. MAXIMUM EMBANKMENT SLOPES ARE TO BE AS FOLLOWS: CUT AREAS - 2:1. FILL AREAS - 2:1.
8. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CLEANED AND MAINTAINED PER THE SPECIFICATIONS.
9. ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.
10. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. THE CONTRACTOR MUST CLEAN ALL SEDIMENT TRAPS AS REQUIRED BY THE OWNER'S REPRESENTATIVE OR LOCAL & STATE REQUIREMENTS.
11. FAILURE TO INSTALL, OPERATE AND MAINTAIN ALL EROSION CONTROL MEASURES, AS SHOWN ON THE APPROVED PLANS OR AS DIRECTED BY THE OWNER/PROJECT REPRESENTATIVE AND/OR LOCAL MUNICIPALITY AND STATE MAY RESULT IN ALL WORK ON THE CONSTRUCTION SITE BEING STOPPED UNTIL PROPER CORRECTIVE MEASURES HAVE BEEN MET, AS REQUIRED AND/OR DIRECTED.
12. THE CONTRACTOR SHALL KEEP AND MAINTAIN ONSITE A LOG NOTING THE DATE OF ALL RAINFALL EVENTS, THE AMOUNT OF RAINFALL RECEIVED, DURATION OF RAINFALL EVENT, INSPECTION NOTES, AND ANY REPAIRS OR CLEANING OF EROSION CONTROL DEVICES.
13. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) DAYS AND AFTER ANY RAINFALL EVENT.
14. ALL SLOPES 2:1 AND SEDIMENT BASINS SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS NORTH AMERICAN GREEN SC190 OR EQUIVALENT, IN ADDITION TO GRASSING/HYDROSEEDING.
15. SEE DETAILS FOR Ds2 AND Ds3 SEEDING AND MULCHING REQUIREMENTS.
16. STORM DRAINAGE SYSTEM SHALL BE INSTALLED AS SOON AS POSSIBLE DURING THE CONSTRUCTION PROCESS, AND ALL RUNOFF SHALL BE DIRECTED TO THE DRAINAGE SYSTEM.
17. PRIOR TO STORM DRAINAGE SYSTEM INSTALLATION ALL RUNOFF LEAVING THE SITE SHALL BE FILTERED THROUGH SILT FENCES AND FILTERS PRIOR TO DISCHARGE OFFSITE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THIS REQUIREMENT ONSITE DURING ALL PHASES OF CONSTRUCTION.
18. THIS PROJECT DOES NOT LIE WITHIN A 100 YEAR FLOOD HAZARD ZONE AS DEFINED BY THE FEMA "FLOOD HAZARD BOUNDARY MAP" COMMUNITY PANEL NUMBER 1305102M, DATED 08/16/2018.
19. WETLANDS DOES NOT EXIST ON SITE.
20. SITE DOES NOT LIE WITHIN 200 FEET OF A JURISDICTIONAL STREAM.
21. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
22. EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES TO BE INSPECTED DAILY.
23. INSPECTIONS BY QUALIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH GAR 100001.
24. NO ALTERNATE BMPs WERE USED IN THIS PROJECT.

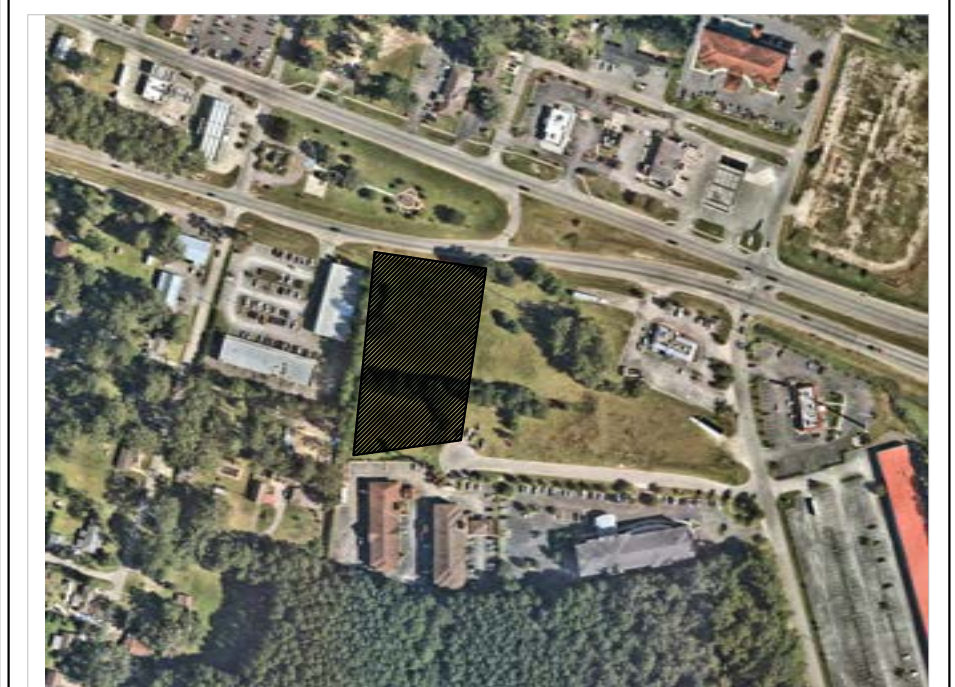
#### SEQUENCE OF CONSTRUCTION DISCLAIMER

THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE AND THROUGHOUT THE PLANS ARE A GENERAL OVERVIEW AND ARE INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.

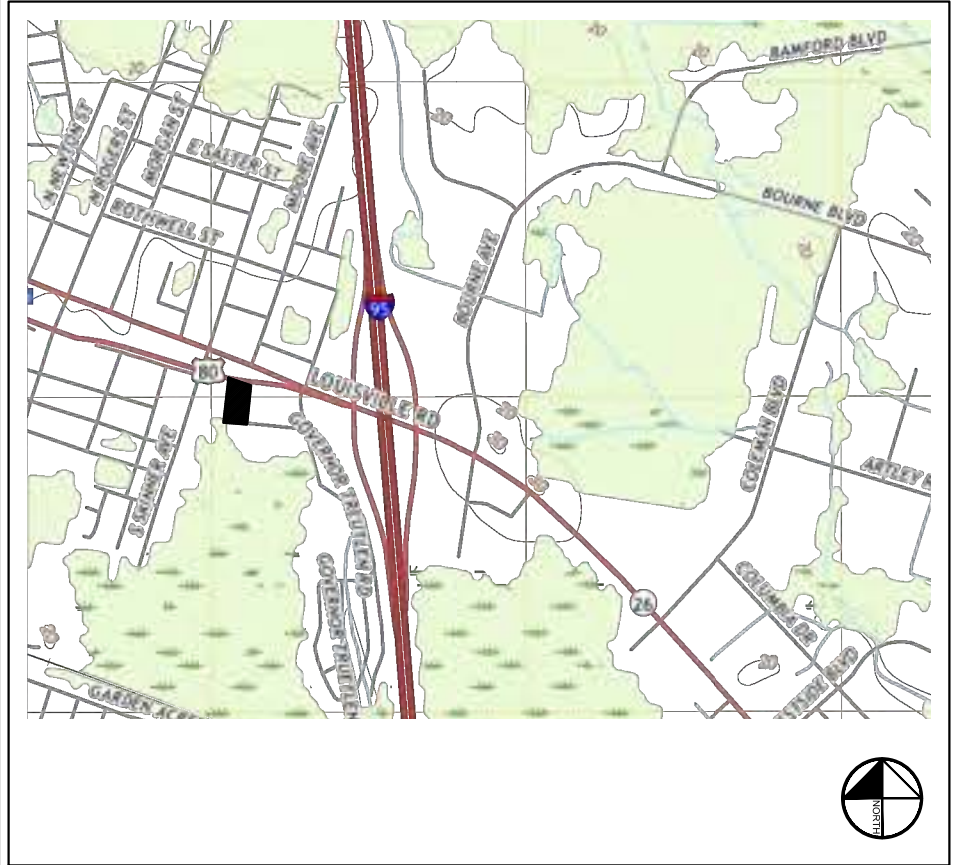
#### SITE SAMPLING NOTES

1. OUTFALL SAMPLES ARE TO BE TAKEN AT SAMPLE POINTS 1, 2, & 3.
2. CONTRACTOR IS TO ENSURE THAT WATER LEAVING THE SITE DOES NOT EXCEED 75 NTU AT THE SAMPLE POINT AS CALCULATED PER APPENDIX B WARM WATER STREAM, 1.00-10.00 ACRE SITE, 0 - 4.99 SQUARE MILE SURFACE WATER DRAINAGE AREA.
3. SAMPLING SHALL BE TAKEN BY THE "GRAB" METHOD AND TESTED WITHIN 48 HOURS OF EXTRACTION.
4. SEE SHEET CS-00 FOR FURTHER NPDES SPECIFICATIONS AND REGULATIONS.

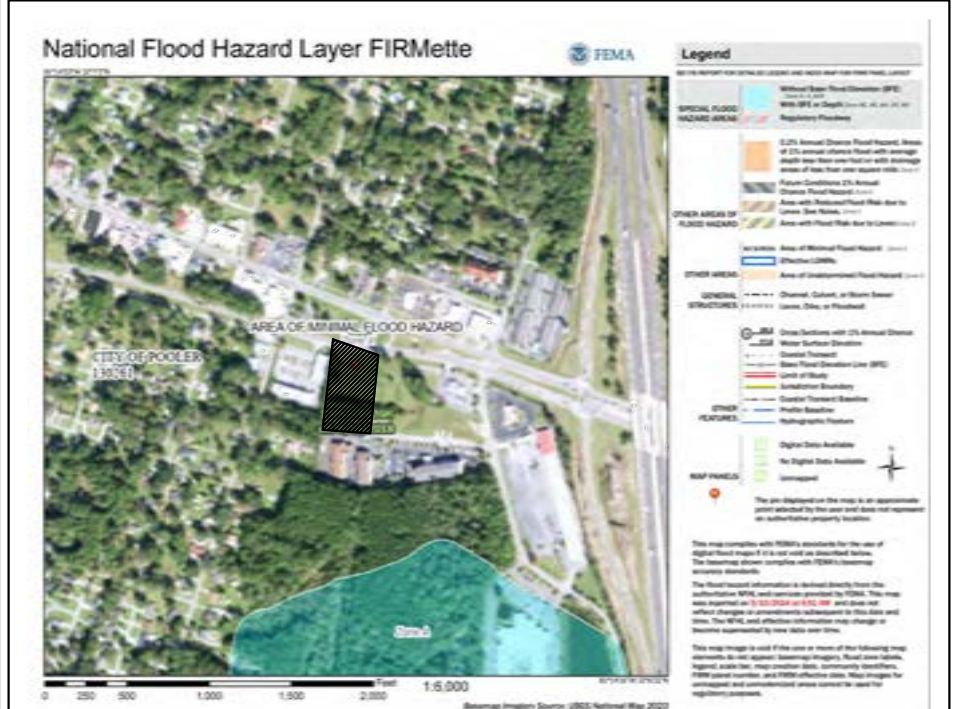
#### VICINITY MAP



#### TOPOGRAPHIC MAP



#### FEMA MAP



#### DESIGN PROFESSIONAL'S CERTIFICATION

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 SUPERVISION.

12.11.2024 DATE  
Bradley L. Horbal DESIGN PROFESSIONAL'S SIGNATURE

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 WATERS) 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.

12.11.2024 DATE  
Bradley L. Horbal DESIGN PROFESSIONAL'S SIGNATURE

Kimley»Horn

LIVE OAK VETERINARY HOLDINGS, LLC

3930 EAST JONES BRIDGE ROAD THE FORUM, SUITE 350 NORCROSS, GEORGIA 30092

PHONE 912.662.7544 WWW.KIMLEY-HORN.COM LIVEOAKVET@GMAIL.COM

PROJECT

POOLER VET CLINIC

102 SAN DRIVE POOLER, GA 31322

PROJECT NO.

017684000

TITLE

EROSION CONTROL NOTES

SHEET NUMBER

C5.00

GSWCC CERT. (LEVEL II)

0000022363

DRAWN BY

LCW

DESIGNED BY

SPG

REVIEWED BY

BLH

DATE

12.11.2024

PROJECT NO.

017684000

TITLE

EROSION CONTROL NOTES

SHEET NUMBER

C5.00

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WASHDOWN AREAS24

1. THE DISCHARGE OF WASHDOWN WATER INTO STORMDRAINS, STREAMS, RIVERS, ETC. IS STRICTLY PROHIBITED.

2. CONTRACTOR OR SHALL COORDINATE WITH SITE SUPERINTENDENT TO EXCAVATE A PIT DEEP ENOUGH TO CONTAIN THE WASHDOWN WATER.

3. WASHDOWN ONLY TOOLS, CONCRETE MIXER CHUTES, HOPPERS, AND REAR OF THE VEHICLE. DO NOT WASH OUT THE DRUM.

4. CONTRACTOR SHALL INSURE WASHDOWN WATER GOES INTO AND STAYS IN THE PIT. NEVER ALLOW WASHDOWN WATER TO ENTER A STORMDRAIN.

5. PIT SHALL BE BACKFILLED AND SMOOTHED OUT TO PROPOSED GRADE.

6. IF A PIT IS NOT ACCESSIBLE, CONTRACTOR SHALL WASHDOWN INTO A WHEELBARRROW OR CONTAINER AND CARRY TO A DISPOSAL SITE.

PETROLEUM SPILLS AND LEAKS CLEANUP25

- EQUIPMENT MAINTENANCE: ENSURE EQUIPMENT IS WORKING PROPERLY AND FREE FROM LEAKS.
- THE SITE MUST CONTAIN PLASTIC SHEETING OR TEMPORARY ROOFS TO COVER BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER. STORE CONTAINERS, DRUMS, AND BAGS AWAY FROM DIRECT TRAFFIC ROUTES, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND IN A MANNER TO PROTECT AGAINST CONTAMINATION OF STORM WATER.
- POL SPILLS AND LEAKS: MINOR SPILLS AND LEAKS FROM CONSTRUCTION EQUIPMENT ARE A SOURCE OF POTENTIAL DISCHARGE. DO NOT USE WATER TO CLEAN UP SPILLS AND DRIP FROM PAVEMENTS.
- SPILL KITS: HAVE A FULL-SERVICE SPILL KIT ON SITE FOR MINOR LEAKS AND DRIPS. SPILL KITS SHOULD INCLUDE ABSORBENT PADS, SPILL BOOMS, PERSONNEL PROTECTION EQUIPMENT, AND DISPOSAL BAGS.
- DRIIP PAN USE: DRIIP PAN USE DURING VEHICLE STORAGE AND FUELING CONSTRUCTION EQUIPMENT AND PROVIDING EMERGENCY MAINTENANCE ON EQUIPMENT. ABSORBENTS ARE TO BE HANDLED IN ACCORDANCE WITH THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REGULATIONS.
- DRIIP PAN USE DURING VEHICLE STORAGE: USE DRIIP PANS UNDER HEAVY EQUIPMENT LEFT IDE FOR TWO DRIIP PAN USE DURING VEHICLE STORAGE OR MORE CALENDAR DAYS.
- VISUAL INSPECTIONS: VISUALLY INSPECT CONSTRUCTION EQUIPMENT DAILY FOR LEAKS AND SPILLS.
- HAZMAT STORAGE: STORE HAZARDOUS MATERIALS (INCLUDING FUEL) ON SITE IN COVERED AREAS WITH SECONDARY CONTAINMENT (FOR EXAMPLE, FLAMMABLE LOCKER), CONTAINERS/TANKS OR FUEL (MAGASIDERS) SHOULD HAVE SECONDARY CONTAINMENT THAT MEETS REGULATORY REQUIREMENTS FOR EXPOSURE TO PRECIPITATION AND TO STORMWATER. WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHERE EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT, POSES LITTLE RISK TO STORMWATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE).
- VEHICLE OPERATION: DO NOT OPERATE LEAKING EQUIPMENT. PROVIDE EMERGENCY REPAIR TO PREVENT FURTHER LEAKS.

**NOTIFY EPD AT (404) 656-4863 OR (800) 241-4113 AND THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-0802 IMMEDIATELY IF ANY PETROLEUM SPILLS OCCUR**

BUILDING MATERIAL COVERING MEASURES27

FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE, PROVIDE COVER (e.g. PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO STORMWATER. IF ALL LOCATIONS OF THE PRIMARY PERMITTEES' 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 TO THE PERMITTEE BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST. (A) DISTURBED AREAS OF THE PRIMARY PERMITTEES' 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 PERMITTEES' 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 WATERS.) 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. POST-RAIN INSPECTIONS WILL RESET THE 7-DAY INSPECTION FREQUENCY.

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 WATERS. 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 WATERS.)

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

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

SAMPLING FREQUENCY AND REPORTING21

**SAMPLING FREQUENCY**

1. THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN 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 PERMITTEES 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 AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION.

b. IN ADDITION TO (a) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOTICE OF TERMINATION, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST.

c. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (a) AND (b) ABOVE, IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN AT DISCHARGE LOCATIONS 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-RAIN EVENT INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED.

d. WHERE SAMPLING PURSUANT TO (a), (b), OR (c) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (a), (b), OR (c) ABOVE; AND

e. EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (a) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (b). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (b) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (a) ABOVE.

"NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (a) AND (b) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK."

REPORTING

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART IV.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 PROVIDE ADDITIONAL SAMPLING OR TO SUBMIT A WRITTEN REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (a), (b), OR (c) ABOVE; AND

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, PHOTOGRAPHS, 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 OR DELIVERY RECEIPT EMAIL TO THE APPROPRIATE EPD DISTRICT OFFICE RESOURCE MAILBOX. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOTICE OF TERMINATION IS SUBMITTED IN ACCORDANCE WITH PART VI.

RETENTION OF RECORDS23

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 NOTICE OF TERMINATION 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. 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 PERMITTEES PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATE 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.

SAMPLING COLLECTION AND ANALYSIS23

**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 FIRE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

a. **SAMPLING REQUIREMENTS** SHALL INCLUDE THE FOLLOWING:

(1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP; AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS, WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATERS 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 FISHES); 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.** 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 "WIDES STORM WATER 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) SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.

(3) 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.

(4) 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.

(5) 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 WATERS, OR ALL OUTFALLS, OR A COMBINATION OF RECEIVING WATERS AND OUTFALLS. 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 WATERS 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.

VEGETATIVE BMP MEASURES

Bf	BUFFER ZONE
Cs	COASTAL DUNE STABILIZATION
Ds1	DISTURBED AREA STABILIZATION: (WITH MULCHING ONLY)
Ds2	DISTURBED AREA STABILIZATION: (WITH TEMPORARY SEEDING)
Ds3	DISTURBED AREA STABILIZATION: (WITH PERMANENT VEGETATION)
Ds4	DISTURBED AREA STABILIZATION: (WITH SODDING)
Du	DUST CONTROL ON DISTURBED AREAS
Fl-Co	FLOCCULANTS COAGULANTS
Sb	STREAMBANK STABILIZATION: (USING PERMANENT VEGETATION)
Ss	SLOPE STABILIZATION
Tac	TACKIFIERS AND BINDERS

EROSION CONTROL LINETYPES / SYMBOLS

LOD	LIMITS OF DISTURBANCE	
AuG	SOIL TYPE DELINEATION	
	DRAINAGE BASIN DELINEATION	
	FLOW ARROW	

STRUCTURAL BMP MEASURES

Cd-S	STONE CHECK DAM	
Cd-Hb	STRAW-BALE CHECK DAM	
Cd-Fs	FILTER SOCK CHECK DAM	
Ch-1	CHANNEL STABILIZATION: VEGETATED LINING	
Ch-2	CHANNEL STABILIZATION: ROCK RIP-RAP LINING	
Ch-3	CHANNEL STABILIZATION: CONCRETE LINING	
Co	CONSTRUCTION EXIT	
Cr	CONSTRUCTION ROAD STABILIZATION	
Dc	STREAM DIVERSION CHANNEL	
Dj	DIVERSION	
Dn1	TEMPORARY DOWNDRAIN STRUCTURE	
Dn2	PERMANENT DOWNDRAIN STRUCTURE	
Fr	FILTER RING	
Ga	GABION	
Gr	GRADE STABILIZATION STRUCTURE	
Lv	LEVEL SPREADER	
Rd	ROCK FILTER DAM	
Re	RETAINING WALL	
Rt-P	RETROFITTING: PERFORATED HALF-ROUND PIPE WITH STONE FILTER	
Rt-B	RETROFITTING: SLOTTED BOARD DAM WITH STONE OR FILTER FABRIC	
Sd1-S	SEDIMENT BARRIER - TYPE S SENSITIVE AREAS	
Sd1-NS	SEDIMENT BARRIER - TYPE NS NON SENSITIVE AREAS	
Sd1-BB	SEDIMENT BARRIER - BRUSH BARRIER	
Sd2-F	INLET SEDIMENT TRAP: FILTER FABRIC WITH SUPPORTING FRAME	
Sd2-B	INLET SEDIMENT TRAP: BAFFLE BOX	
Sd2-Bg	INLET SEDIMENT TRAP: BLOCK AND GRAVEL DROP INLET PROTECTION	
Sd2-G	INLET SEDIMENT TRAP: GRAVEL DROP INLET PROTECTION	
Sd2-S	INLET SEDIMENT TRAP: SOD INLET PROTECTION	
Sd2-P	INLET SEDIMENT TRAP: CURB INLET PROTECTION	
Sd2-SS	INLET SEDIMENT TRAP: SILT SALTER	
Sd3	TEMPORARY SEDIMENT BASIN	
Sd4-A	TEMPORARY SEDIMENT TRAP: OVERFLOW	
Sd4-B	TEMPORARY SEDIMENT TRAP: COMBINATION STRAW BALE & SILT FENCE OUTLET	
Sd4-C	TEMPORARY SEDIMENT TRAP: ROCK OUTLET	
Sk	FILTER SURFACE SKIMMER	
Sb	SEEP BERM	
Sr	TEMPORARY STREAM CROSSING	
St	STORM DRAIN OUTLET PROTECTION	
St	SURFACE ROUGHENING	
Tc	TURBIDITY CURTAIN	
Tp	TOPSOLLING	
Tr	TREE PROTECTION	
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL	

PROJECT

POOLER VET CLINIC

103 SAN DRIVE  
POOLER, GA 31322

PROJECT NO.

017684000

DATE

12.11.2024

DESIGNED BY

SPG

DRAWN BY

LCW

GSWCC CERT. (LEVEL II)

0000022363

TITLE

EROSION CONTROL NOTES

SHEET NUMBER

C5.01

GEORGIA

REGISTERED PROFESSIONAL

LANDSCAPE ARCHITECT

JOSEPH L. HORN

9800 N. HIGHWAY 101  
SUITE 300  
DUBLIN, GA 31034

POOLER VET CLINIC

103 SAN DRIVE  
POOLER, GA 31322

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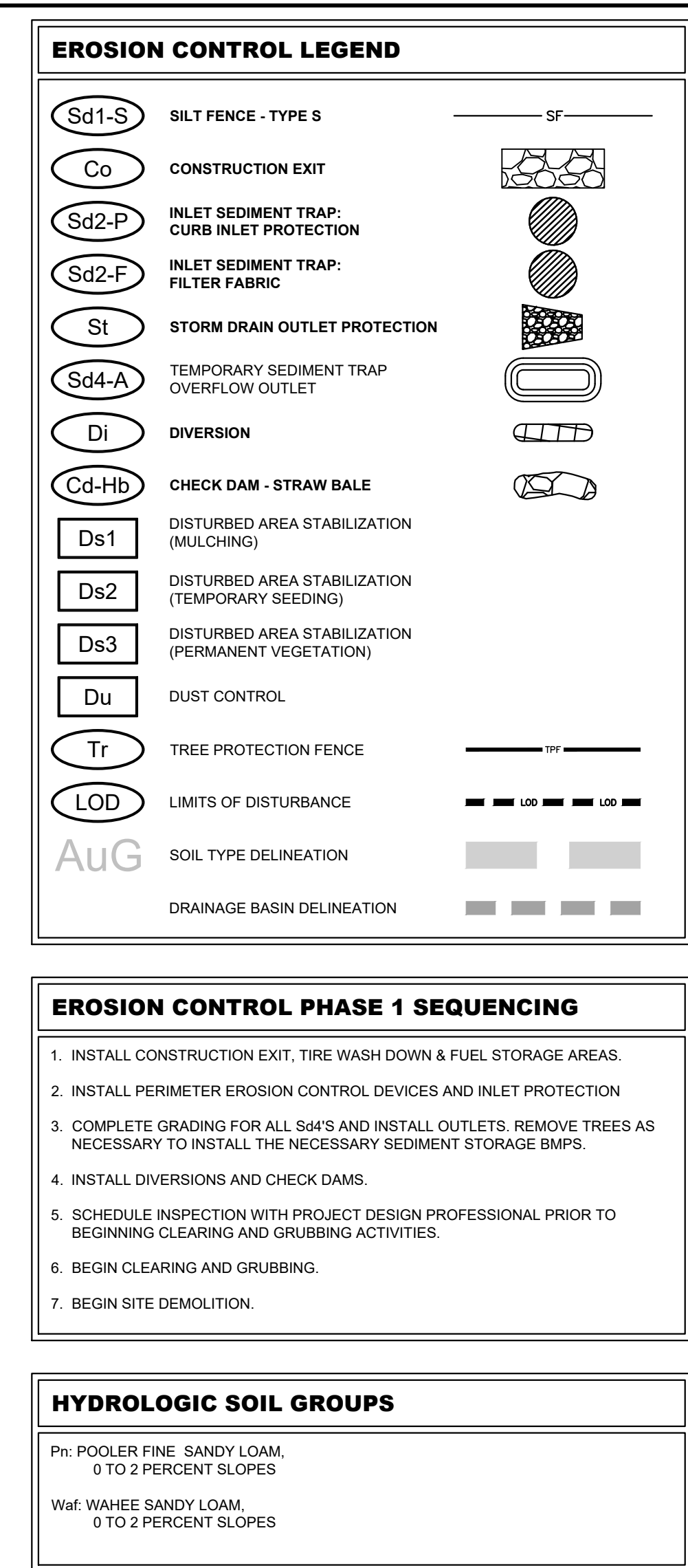
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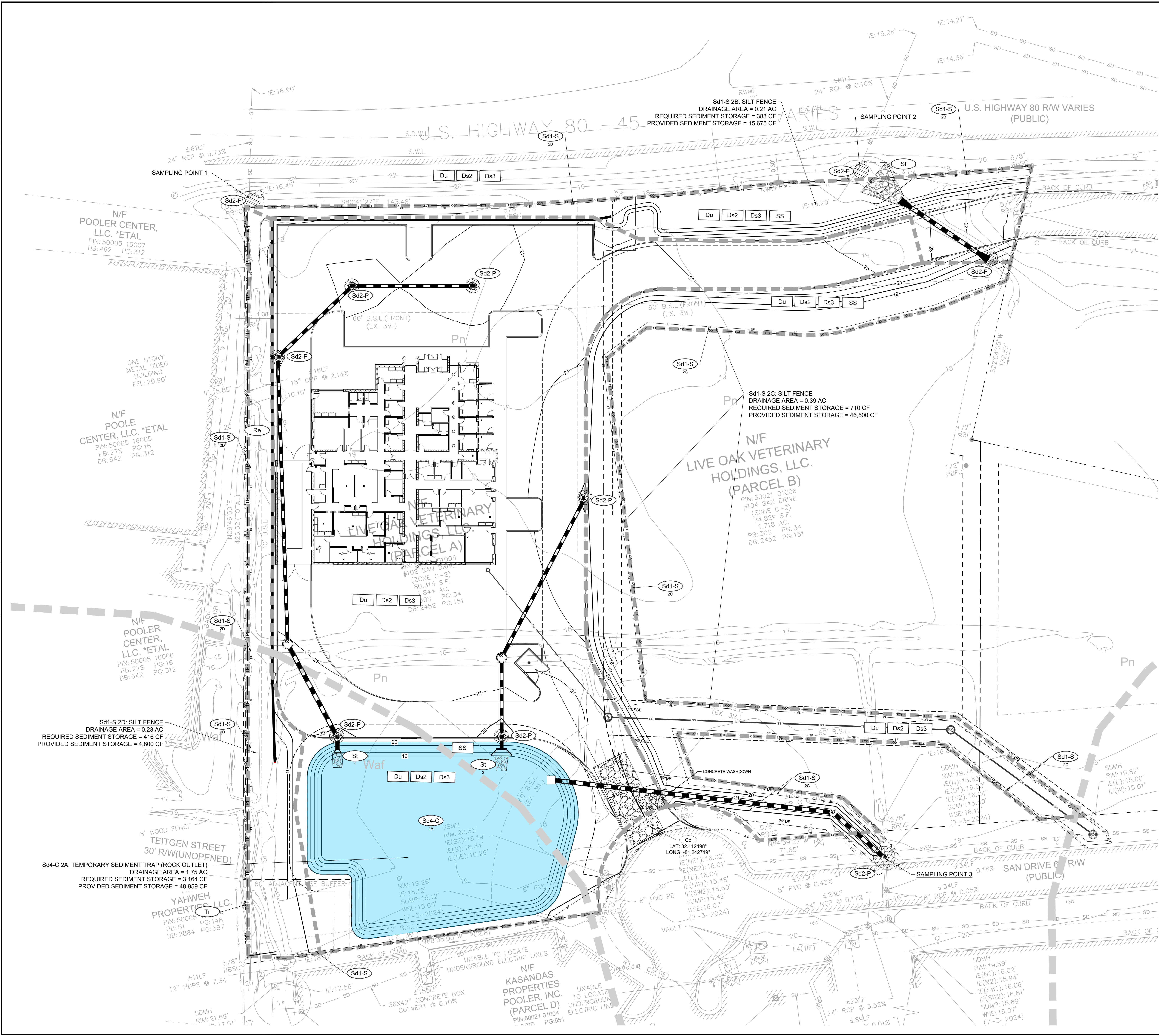
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**EROSION CONTROL LEGEND**

Sd1-S	SILT FENCE - TYPE S	SF
Co	CONSTRUCTION EXIT	
Sd2-P	INLET SEDIMENT TRAP: CURB INLET PROTECTION	
Sd2-F	INLET SEDIMENT TRAP: FILTER FABRIC	
St	STORM DRAIN OUTLET PROTECTION	
Sd4-C	TEMPORARY SEDIMENT TRAP: ROCK OUTLET	
Ds1	DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)	
Ds2	DISTURBED AREA STABILIZATION (PERMANENT VEGETATION)	
Du	DUST CONTROL	
Ss	SLOPE STABILIZATION	
Tr	TREE PROTECTION FENCE	
LOD	LIMITS OF DISTURBANCE	
AuG	SOIL TYPE DELINEATION	
	DRAINAGE BASIN DELINEATION	

**EROSION CONTROL PHASE 2 SEQUENCING**

1. INSPECT AND MAINTAIN ALL EXISTING BMPs.
2. BEGIN TO INSTALL UNDERGROUND STORM CONVEYANCE INFRASTRUCTURE AND TIE THEM INTO Sd4. INSTALL INLET/OUTLET EROSION PROTECTION.
3. BEGIN CUTFILL ACTIVITIES. CONTRACTOR TO COORDINATE AND SCHEDULE REMOVAL OF UNSUITABLE FILL MATERIAL DURING THIS PHASE.
4. CONTINUE SHAPING THE PONDS TO RESEMBLE THE FINAL STORMWATER PONDS.
5. INSTALL REMAINING SITE UTILITIES.

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**POOLER VET CLINIC**

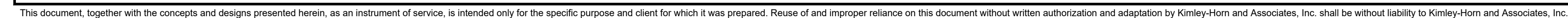
103 SAN DRIVE  
POOLER, GA 31322  
PIN: 50021 01006  
7711 DISTRICT

**POOLER VET CLINIC**

GSWCC CERT. (LEVEL III) 0000022363  
DRAWN BY LCW  
DESIGNED BY SPG  
REVIEWED BY BLH  
DATE 12.11.2024  
PROJECT NO. 017684000  
TITLE **EROSION CONTROL PLAN**  
SHEET NUMBER **C5.20**

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Ds1 MULCHING

Ds3 | PERMANENT SEEDING

Ds2	TEMPORARY SEEDING
-----	-------------------

FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION				
TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS./ACRE)	N TOP DRESSING RATE (LBS./ACRE)
COOL SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	100	-
	MAINTENANCE	10-10-10	400	30
COOL SEASON GRASSES & LEGUMES	FIRST	6-12-12	1500	0-50
	SECOND	0-10-10	1000	-
	MAINTENANCE	0-10-10	400	30
TEMPORARY COVER CROPS	FIRST	10-10-10	500	30
SEEDED ALONE	FIRST	6-12-12	1500	50-100
WARM SEASON GRASSES	SECOND	6-12-12	800	50-100
	MAINTENANCE	10-10-10	400	30

**Ds3** PERMANENT GRASSING

### DUST CONTROL ON DISTURBED AREAS (Du)

### TIRE WASH SIGN DETAIL

CONSTRUCTION EXIT (Co)

### CONCRETE WASHOUT AREA DETAIL

## SILT FENCE - FASTENERS



COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT

SEE NOTE 3

GENTLE SLOPES

OVERLAND FLOW (SEE NOTE 1)

GENTLE SLOPES

NOTES:

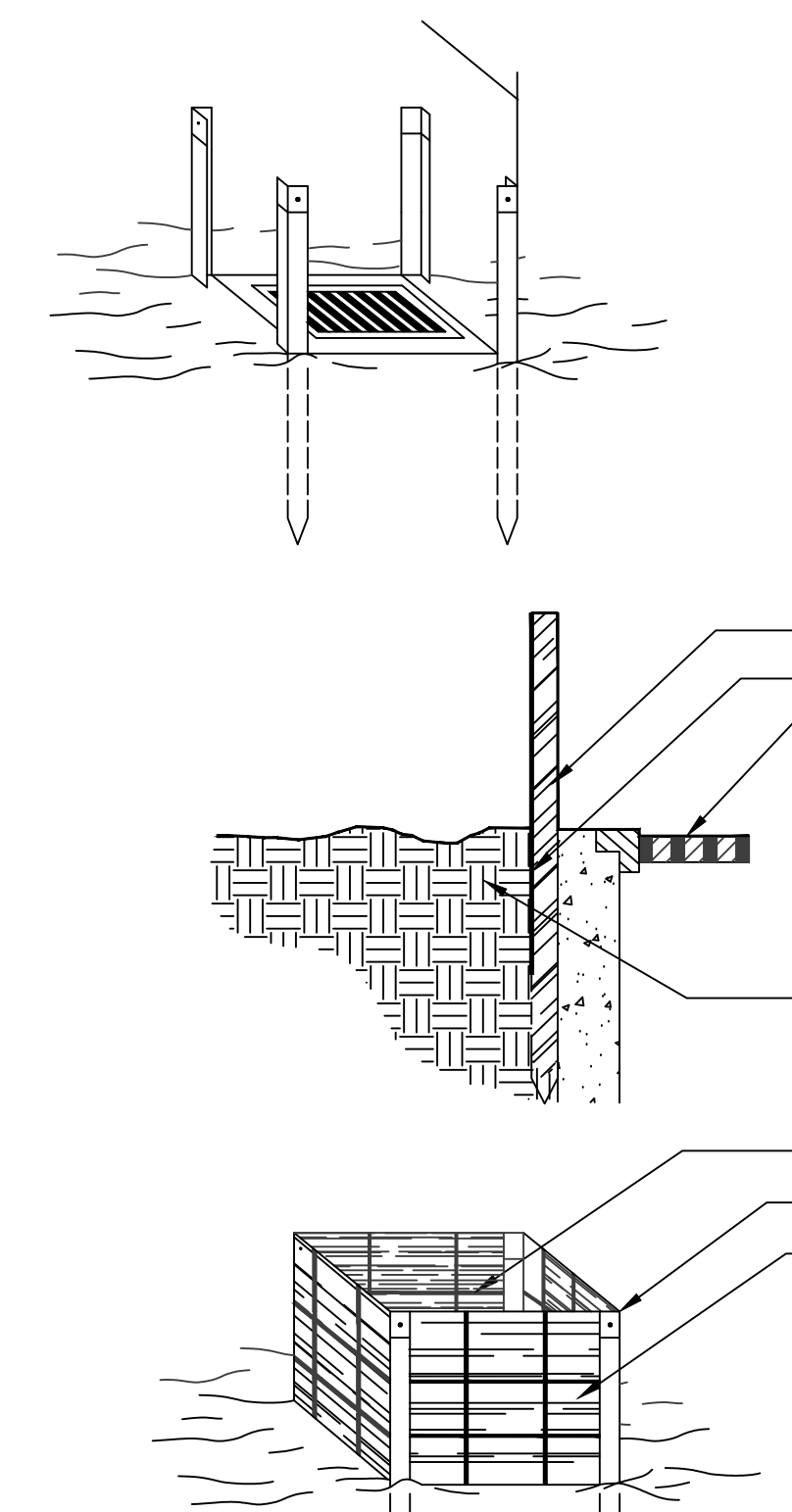
1. MAXIMUM AREA FOR OVERFLOW SEDIMENT TRAP IS USUALLY 1 ACRE. MUST HAVE GENTLE SLOPES (LESS THAN 2% GRADUALLY) AND PREDOMINATELY OVERLAND SHEET FLOW.
2. MAXIMUM PERMANENT WET DEPTH IS 2 FEET. OVERFLOW SEDIMENT TRAPS MAY NOT BE EFFECTIVE FOR HIGH GROUNDWATER TABLE AND INFLOWS.
3. USE THE MOST PERMEABLE SEDIMENT CONTROL IN LABELED AREA SO AS TO MAXIMIZE TRAVEL TIME AND SETTLING OF SEDIMENT.

The image contains two technical drawings of a spillway structure, labeled 'CROSS-SECTION' and 'PROFILE THROUGH EMBANKMENT'.

**CROSS-SECTION:** This diagram shows a side view of the spillway. It features a concrete structure with a sloped upstream face and a flat downstream face. A flow arrow labeled 'FLOW' indicates the direction of water movement. A note specifies: 'RECOMMENDED MINIMUM RATIO OF LENGTH-TO-WIDTH (L:W) IS 2:1'. The structure is shown with a minimum distance of 1.5 feet to the spillway invert.

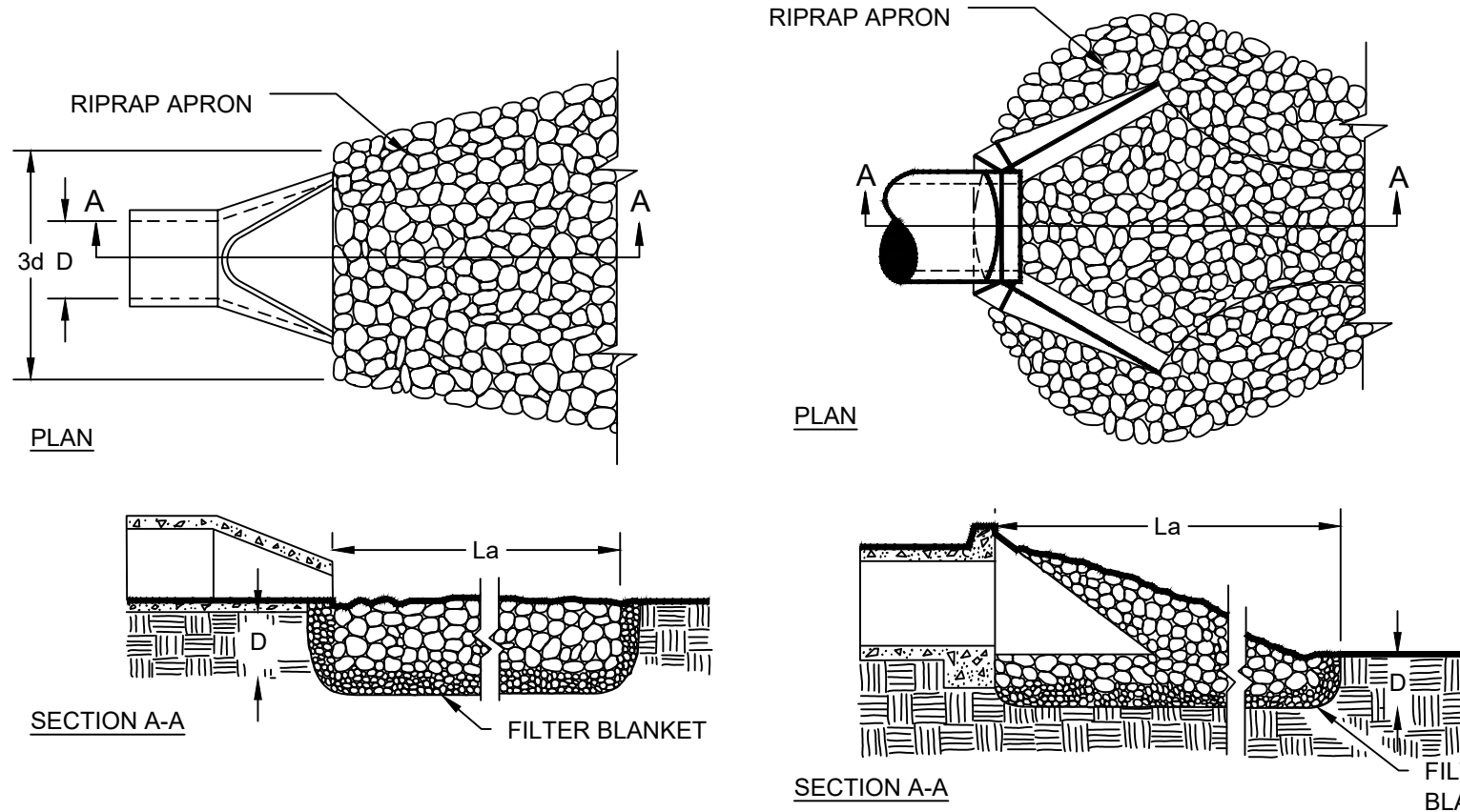
**PROFILE THROUGH EMBANKMENT:** This diagram shows a cross-section of the embankment. It includes a concrete structure with a sloped upstream face and a flat downstream face. The structure is shown with a minimum distance of 1.5 feet to the spillway invert. The maximum depth of the structure is indicated. The minimum top width is specified as 'MINIMUM TOP WIDTH = EMBANKMENT HEIGHT (3 FOOT MINIMUM)'. The maximum height of the structure is indicated as '5.5' MIN.'.

## STEEL FRAME AND SILT FENCE INSTALLATION



Description	Drainage Area DA		Required Storage, $V_{m1}$		Excavation Depth, D	Side Slope	Excavation Slopes	Dimensions (Length)		Dimensions (Width)	Are Bullets Required?	Does $V_{m1}$ exceed $V_{m2}$
	sf	ac	cy	c <sup>3</sup>				ft	ft			
<b>Sd4-A 1A</b>	22,515	0.52	34.6	<b>934</b>	2	2	Rectangular	38	19	NO	1,052	YES
<b>Sd4-A 1B</b>	14,633	0.34	22.5	<b>608</b>	2	2	Rectangular	32	16	NO	764	YES
<b>Sd4-A 1C</b>	28,809	0.66	44.4	<b>1,199</b>	2	2	Rectangular	42	21	NO	1,324	YES
<b>Sd4-A 1D</b>	25,570	0.58	39.3	<b>1,061</b>	4	2	Rectangular	36	18	NO	1,376	YES
<b>Sd4-A 2A</b>	76,186	1.75	117.2	<b>3,164</b>	2	2	Rectangular	64	32	NO	3,352	YES

PIPE OUTLET TO FLAT AREA NO                      PIPE OUTLET TO WELL DEFINED CHANNEL  
WELL DEFINED CHANNEL



- NOTES:
1. La IS THE LENGTH OF THE RIPRAP 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 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.

ID	Pipe Size, $Q_1$	Pipe Material	Outlet Discharge Condition	Design Flow Rate, $Q_2$	Design Velocity, $V_2$	Talkwater Depth, TW	Talkwater Condition	Apron Length, $L_a$	Apron Width at HW, $W_A$	Apron Width Downstream $W_2$	Avg. Stone Diameter, $d_3$	Maximum Stone Diameter	Minimum Depth of Stone, D
	in			cfs	fps	ft		ft	ft	ft	ft	ft	ft
St #1	18.0	RCP	Well-Defined	6.59	3.73	2.00	Maximum	8	5	5	0.10	0.15	0.50
St #2	18.0	RCP	Well-Defined	4.80	2.72	2.00	Maximum	8	5	5	0.10	0.15	0.50
St #3	24.0	RCP	Well-Defined	3.45	1.10	1.00	Maximum	19	6	10	0.20	0.30	0.50

**SIDE VIEW**

30" MIN.

28"

6"

2"

18" MIN.

FLOW

**FRONT VIEW**

4" MAX. O.C.

30" MIN.

28"

6"

18" MIN.

FABRIC (WOVEN WIRE FENCE BACKING)

TRENCH

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

SILT

[illegible]

ID	Pipe Size, $Q_1$	Pipe Material	Outlet Discharge Condition	Design Flow Rate, $Q_2$	Design Velocity, $V_2$	Talkwater Depth, TW	Talkwater Condition	Apron Length, $L_a$	Apron Width at HW, $W_A$	Apron Width Downstream $W_2$	Avg. Stone Diameter, $d_3$	Maximum Stone Diameter	Minimum Depth of Stone, D
	in			cfs	fps	ft		ft	ft	ft	ft	ft	ft
St #1	18.0	RCP	Well-Defined	6.59	3.73	2.00	Maximum	8	5	5	0.10	0.15	0.50
St #2	18.0	RCP	Well-Defined	4.80	2.72	2.00	Maximum	8	5	5	0.10	0.15	0.50
St #3	24.0	RCP	Well-Defined	3.45	1.10	1.00	Maximum	19	6	10	0.20	0.30	0.50

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PROJECT  
POOLER  
102 SAN DRIVE  
POOLER, GA 31322

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POOLER, GA 31322

GSWCC CERT. 0000022363  
(LEVEL II)

DRAWN BY LCW

DESIGNED BY SPG

REVIEWED BY	BLH
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DATE	12.11.2024
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PROJECT NO.	017684000
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# EROSION

CONTROL

## DETAILS

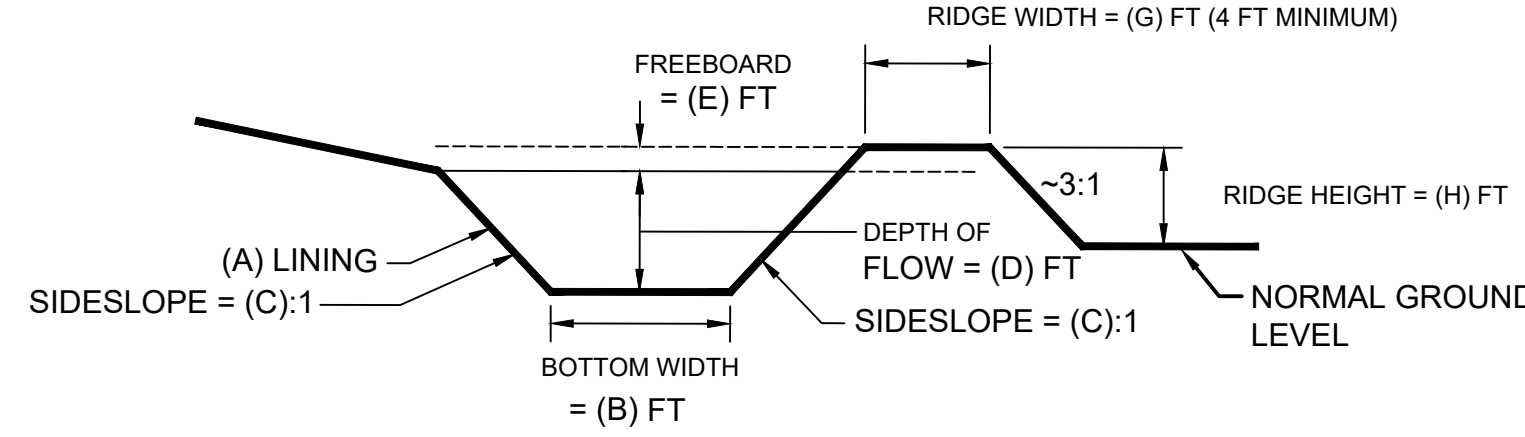
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C5.81

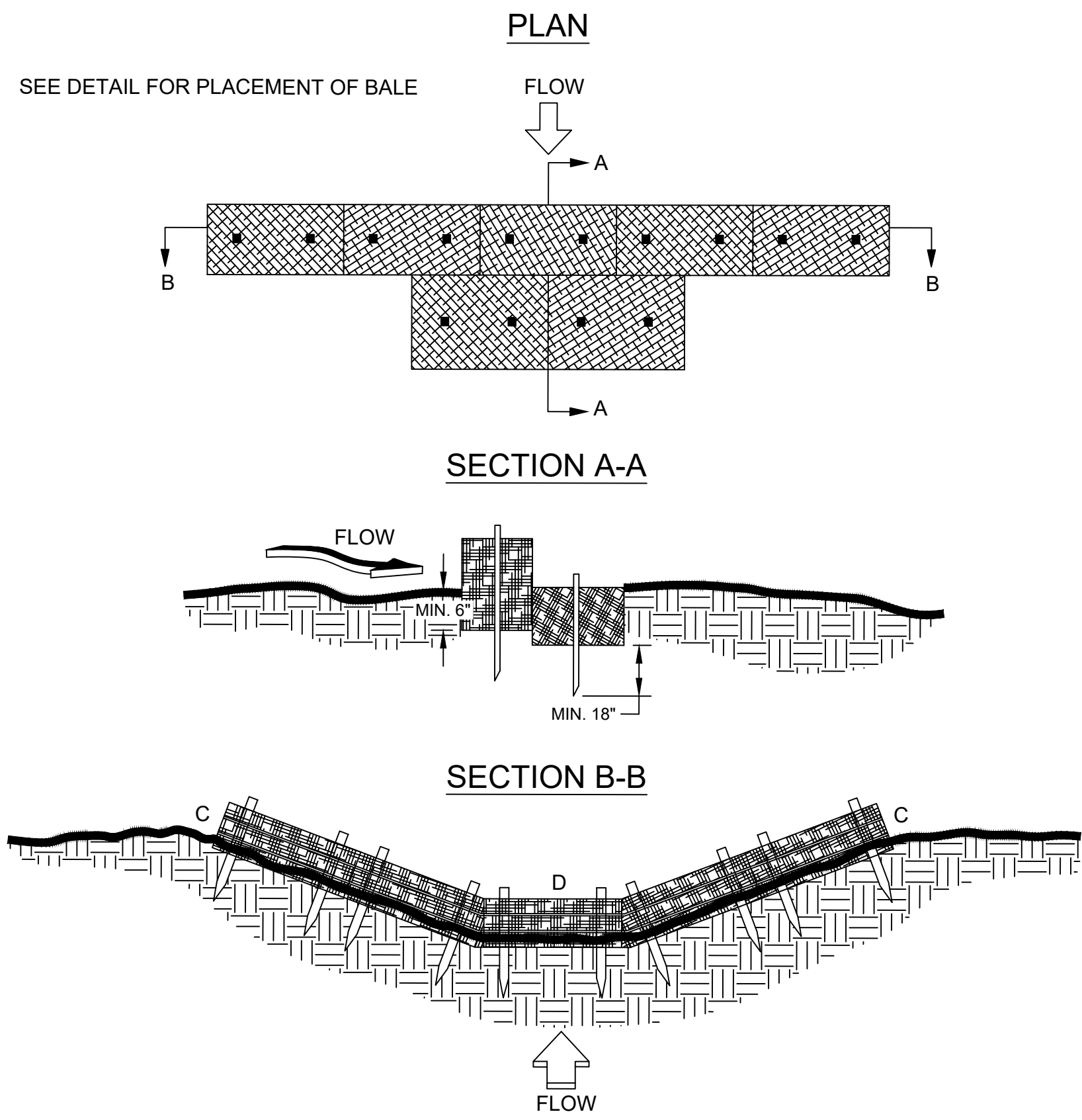
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Diversions																				Check Data Entry to be shown on the EBS Plan							
Description	Hinge Area (DA)			Hinge Area (DB)			Inland Containment (C)	Flow (Q <sub>DA</sub> )	Flow (Q <sub>DB</sub> )	Velocity (V)	Lane	Dist From Bottom Width	Sills (DA) (4 V)			Bottom Slope	Turning Angle	Depth of a Bay	Mainway's Number (N)	1st Inland Channel Top Width	Riser Width	Riser Height	1 bay or more in existing CWS	Above 2.0 cfs	If not in traditional BIF, use traditional BIF		
	ID	W	AS	W	AS	HS							W	AS	HS											W	AS
1A-1A-1	14.325	1.35	1.42	7.45	0.28	0.96	NA	Trapex	1	2	1.50	1.50	0.50	C203	0.0	80	C	1.50	1.60	NA	1.50	1.60	NA	1.50	1.60	NA	NA
1A-1A-2	5.195	1.35	1.42	7.45	0.17	0.38	NA	Trapex	1	2	1.50	1.50	0.50	C203	0.0	80	C	1.50	1.60	NA	1.50	1.60	NA	1.50	1.60	NA	NA
1B-1	17.24	1.35	1.42	7.45	0.17	0.72	NA	Trapex	1	2	1.50	1.50	0.50	C203	0.0	80	C	1.50	1.60	NA	1.50	1.60	NA	1.50	1.60	NA	NA
1B-2	4.213	1.35	1.42	7.45	0.06	0.30	NA	Trapex	1	2	1.50	1.50	0.50	C203	0.0	80	C	1.50	1.60	NA	1.50	1.60	NA	1.50	1.60	NA	NA
1C-1	13.942	1.35	1.42	7.45	0.42	0.96	NA	Trapex	1	2	1.50	1.50	0.50	C203	0.0	80	C	1.50	1.60	NA	1.50	1.60	NA	1.50	1.60	NA	NA
1C-2	14.846	1.35	1.42	7.45	0.12	0.90	NA	Trapex	1	2	1.50	1.50	0.50	C203	0.0	80	C	1.50	1.60	NA	1.50	1.60	NA	1.50	1.60	NA	NA
1D	5.796	1.35	1.42	7.45	0.12	0.43	NA	Trapex	1	2	1.50	1.50	0.50	C203	0.0	80	C	1.50	1.60	NA	1.50	1.60	NA	1.50	1.60	NA	NA
Key		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z

DIVERSION (Di)



NOTES:

1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
3. POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.

☐ CHECK DAM: STRAW-BALE (Cd-Hb)

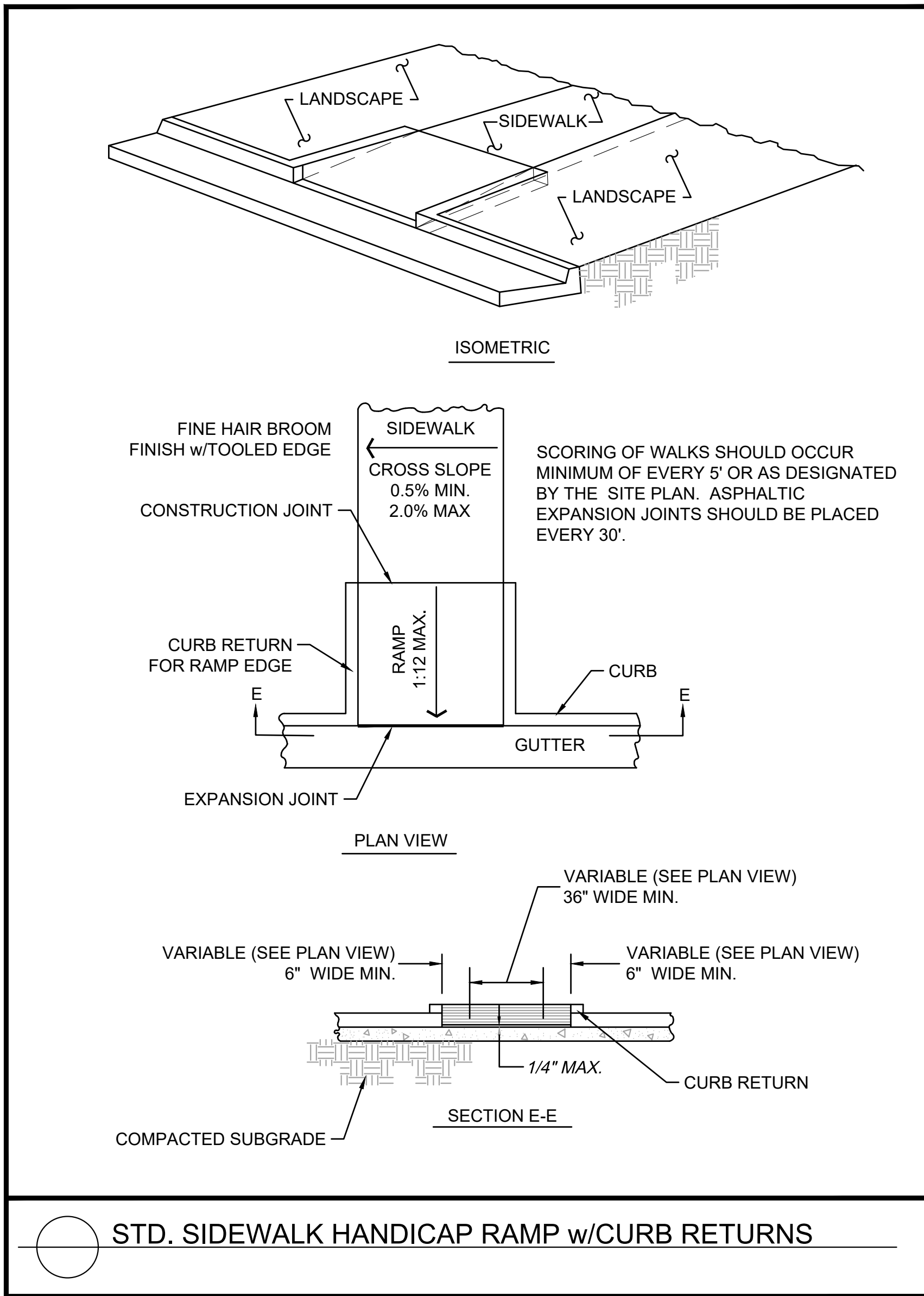
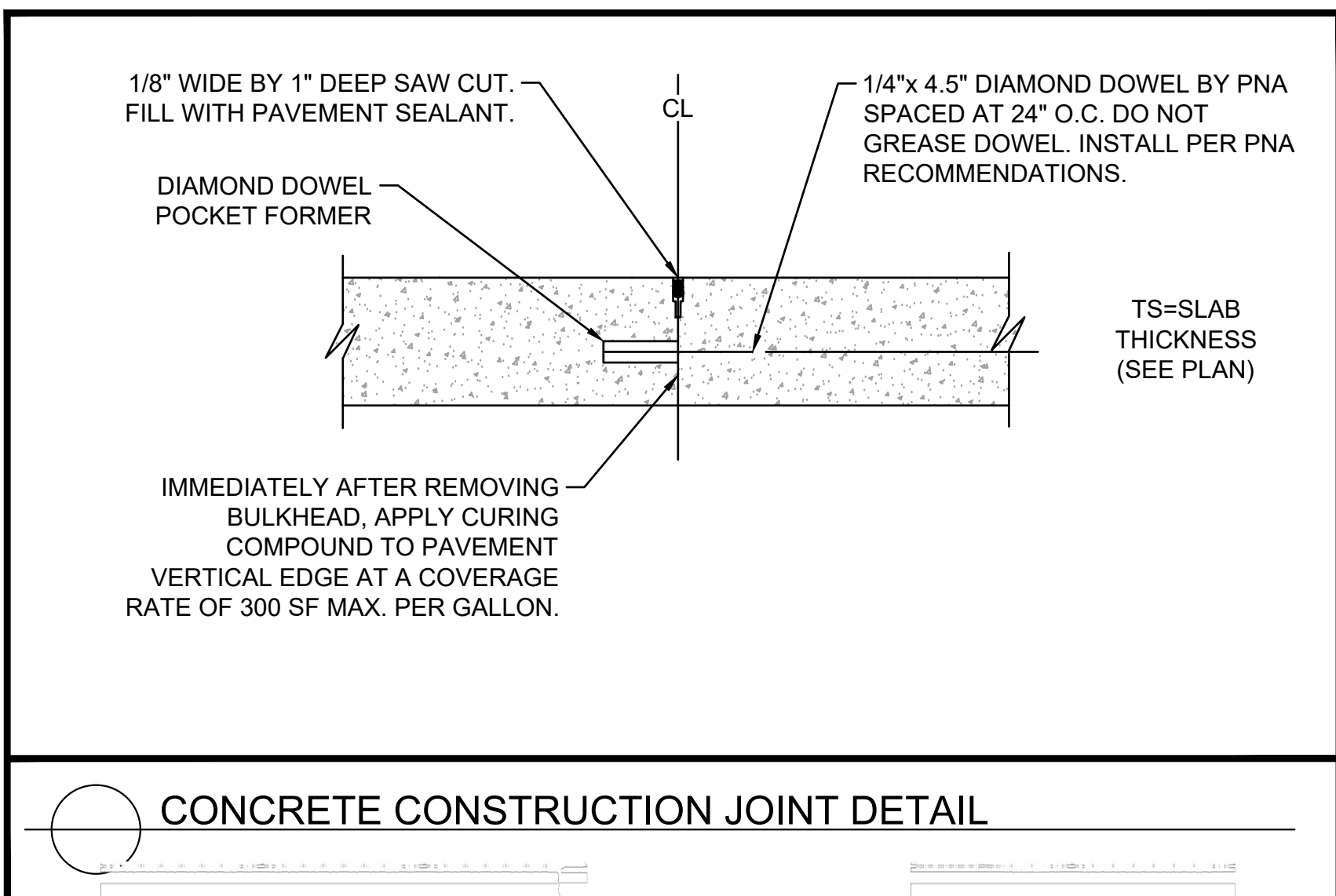
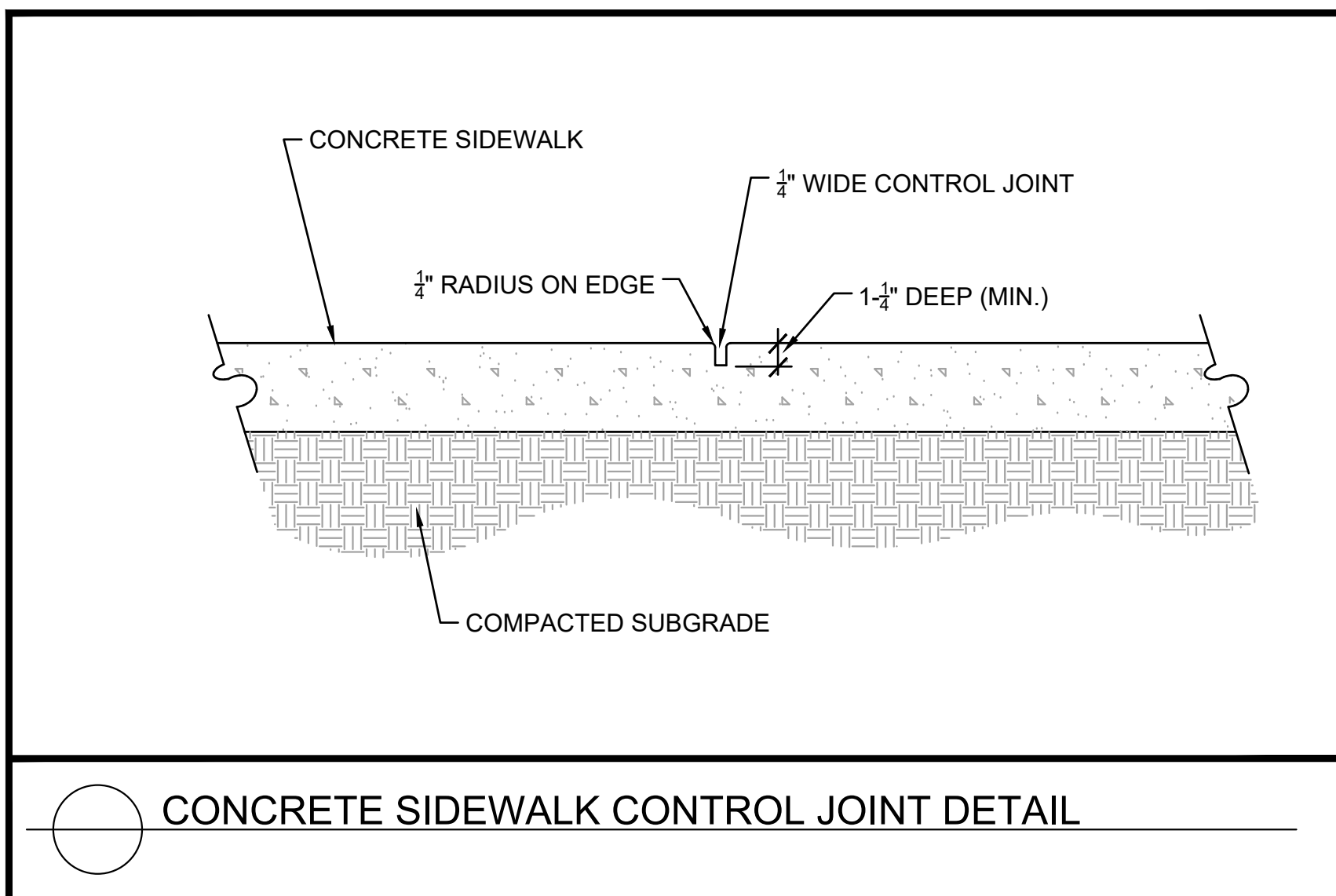




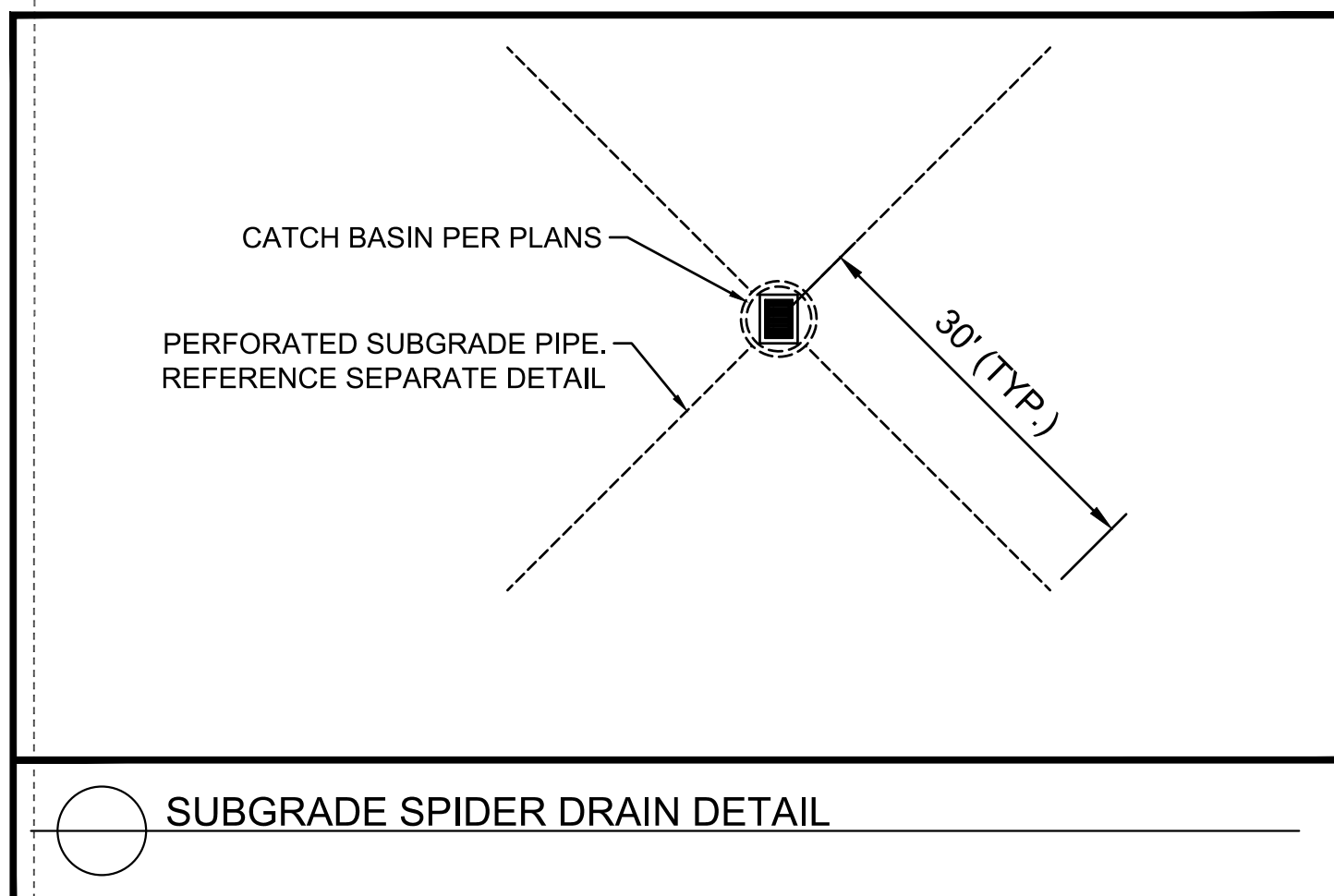
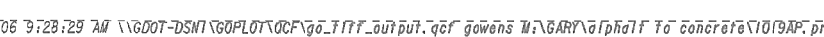
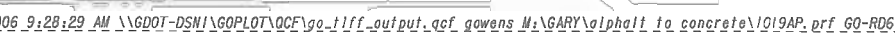
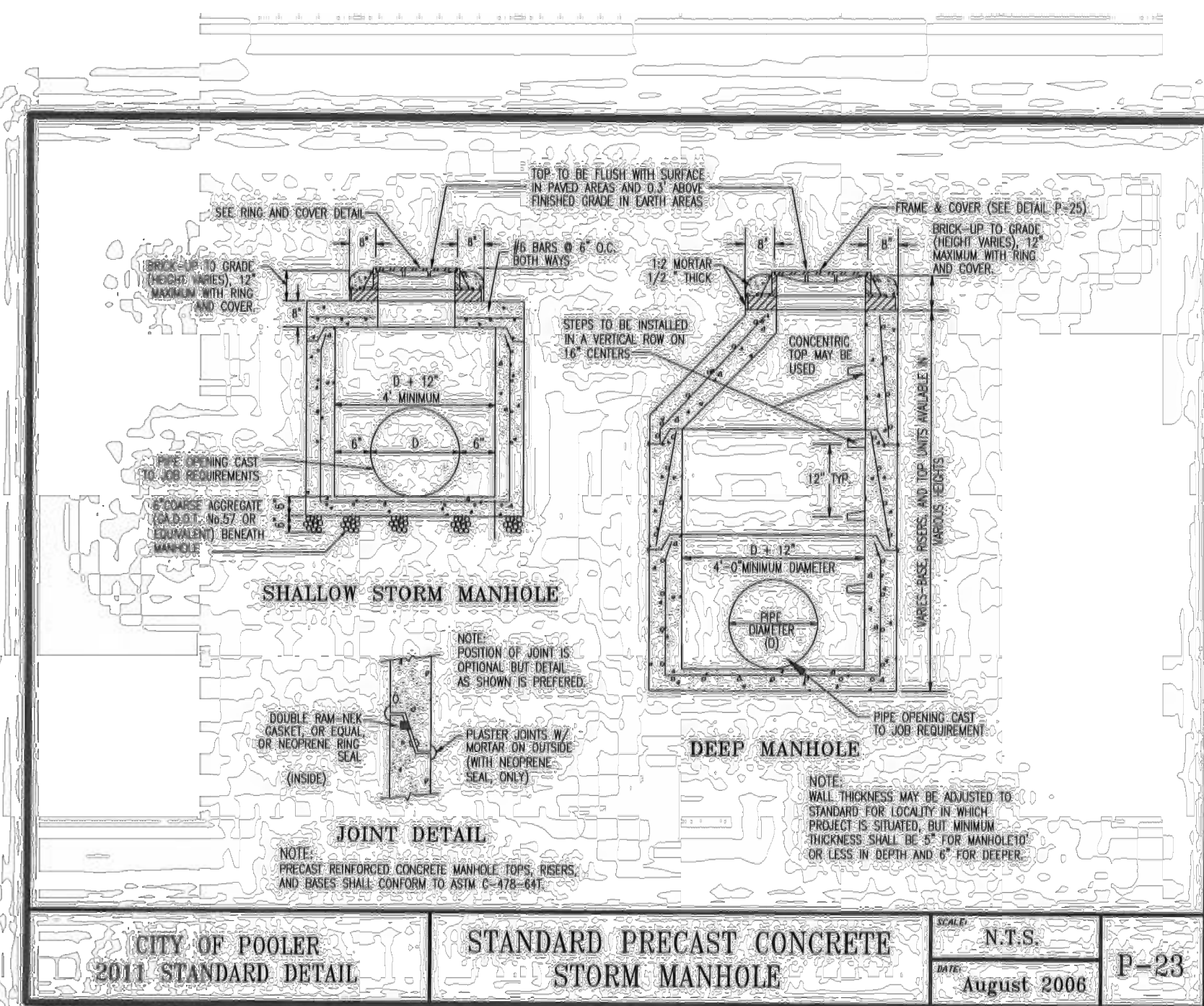






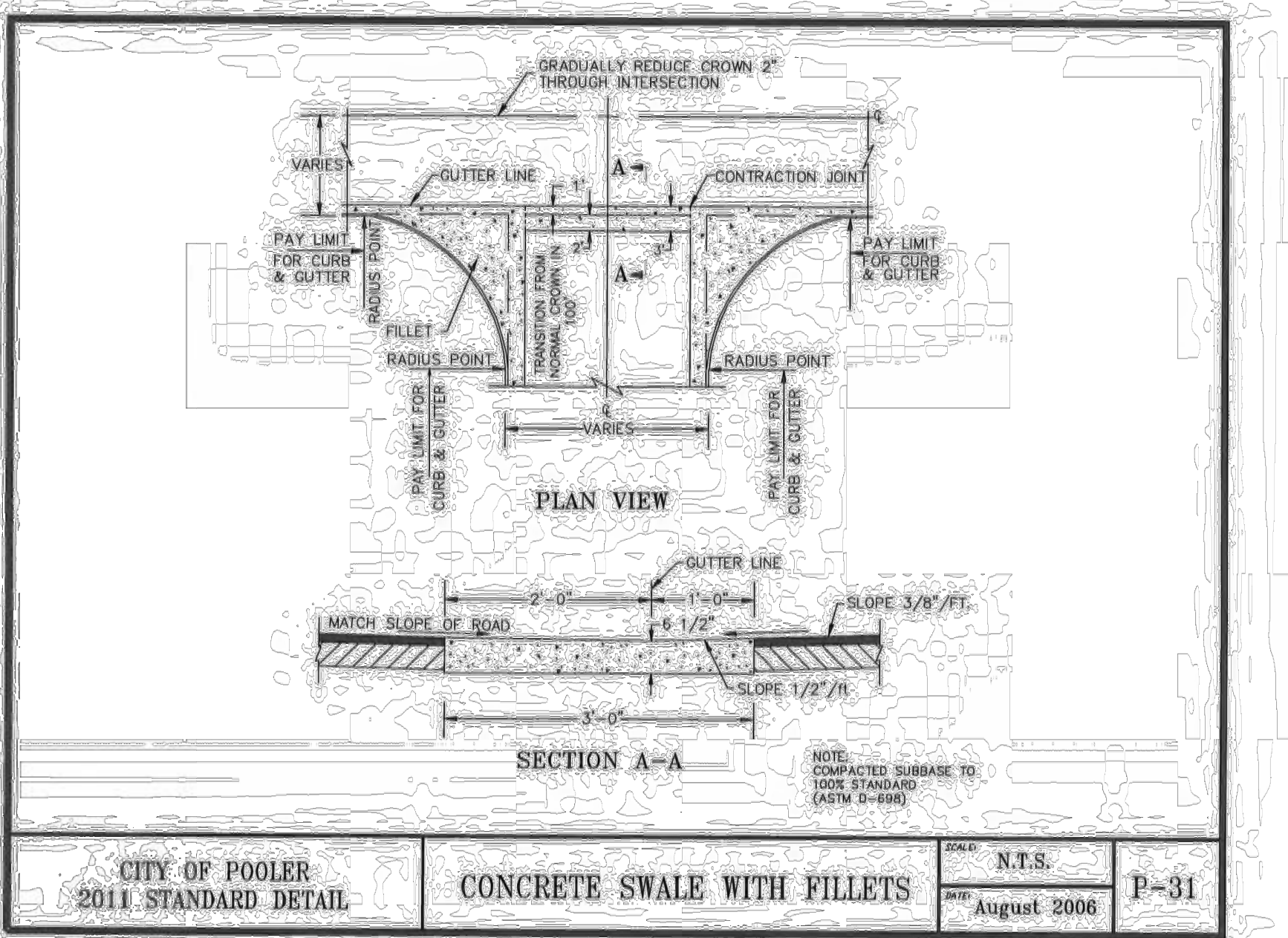
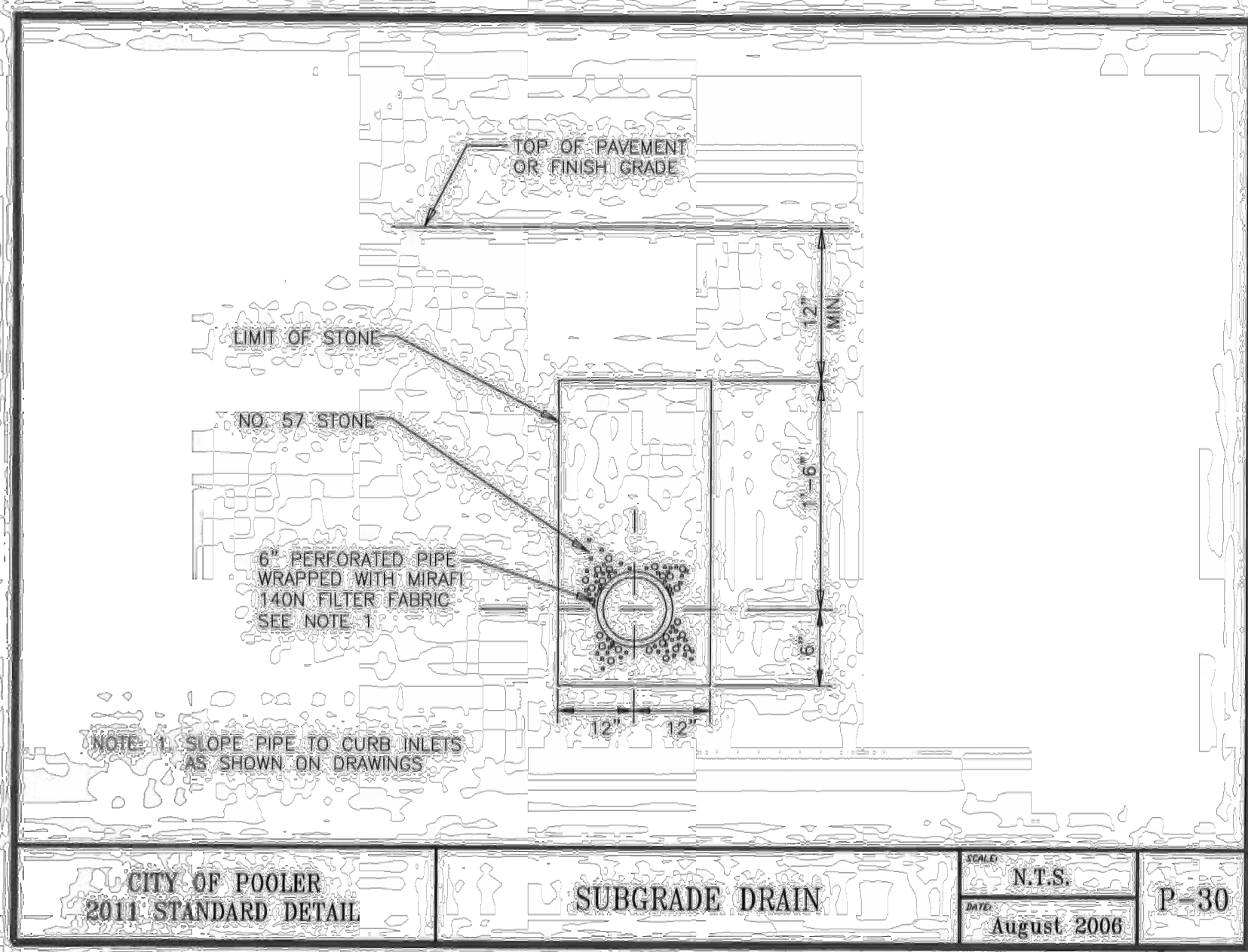
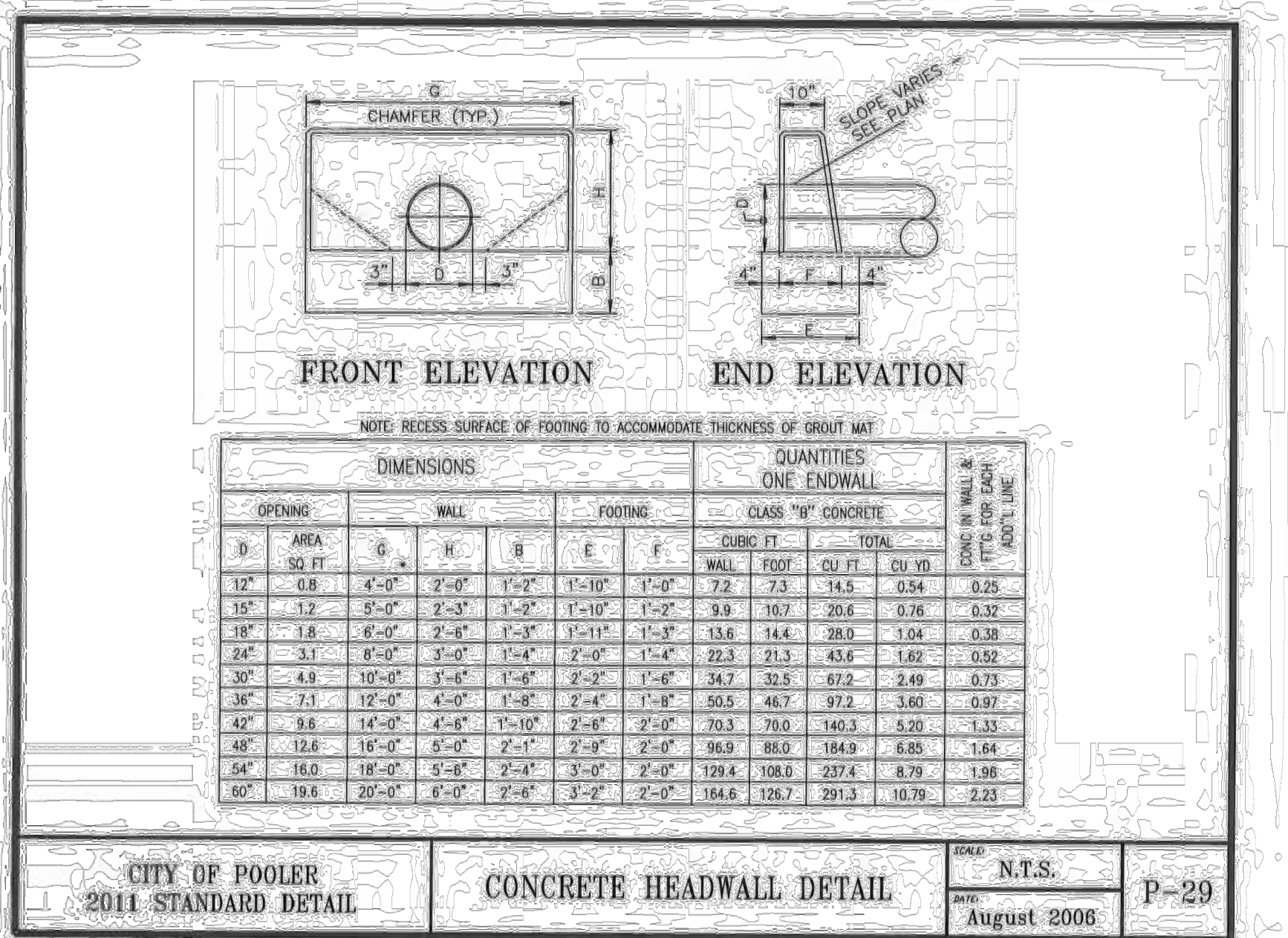
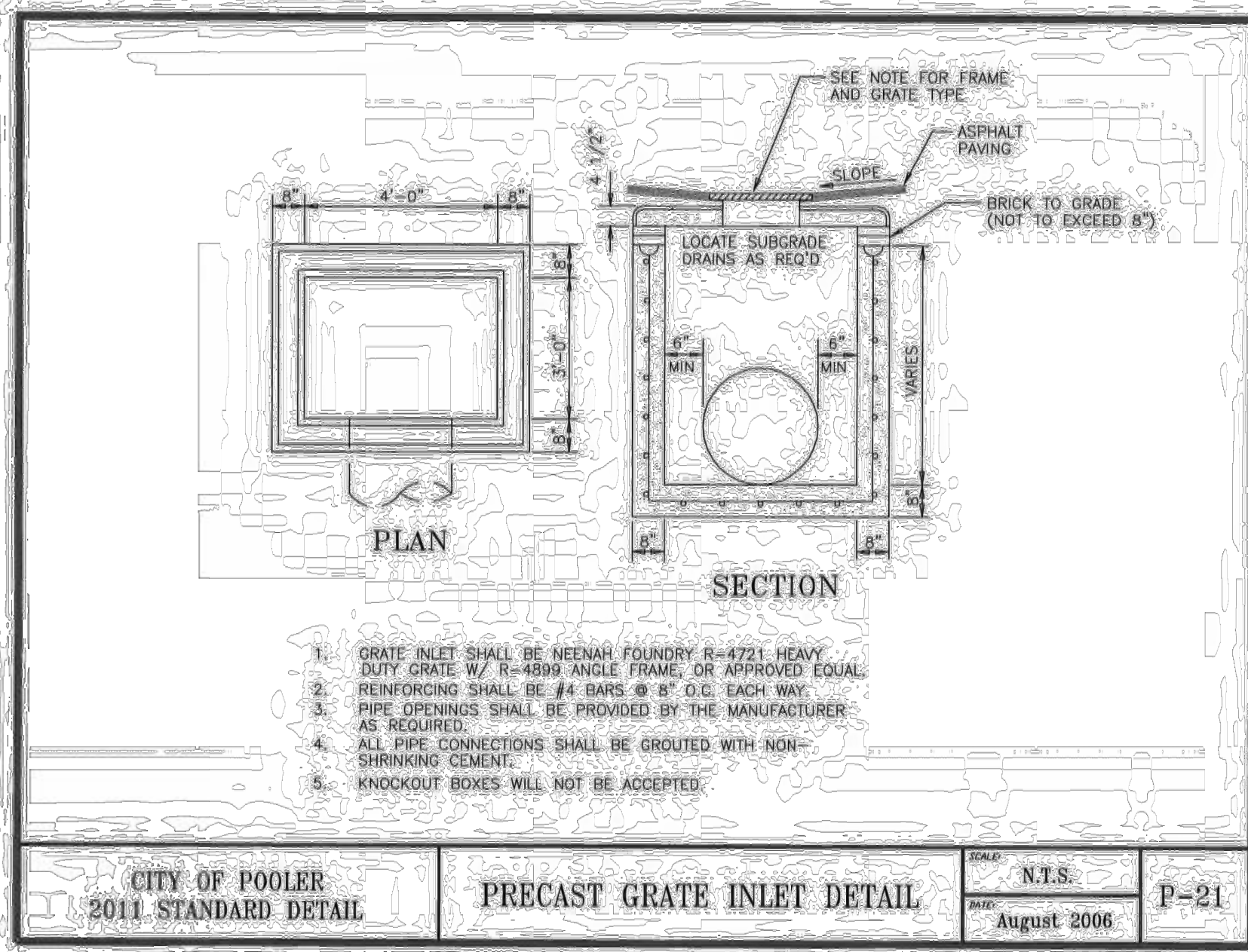
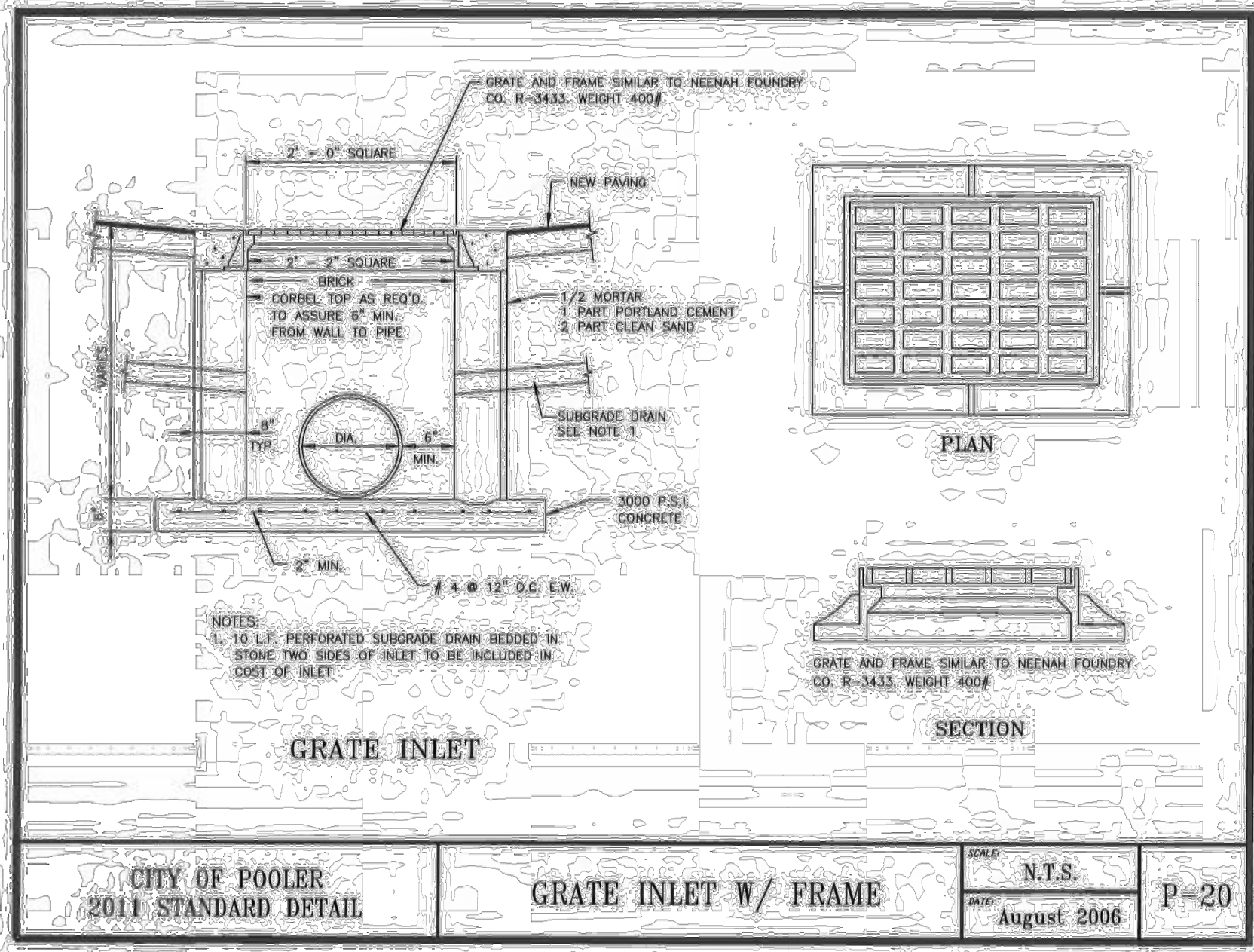
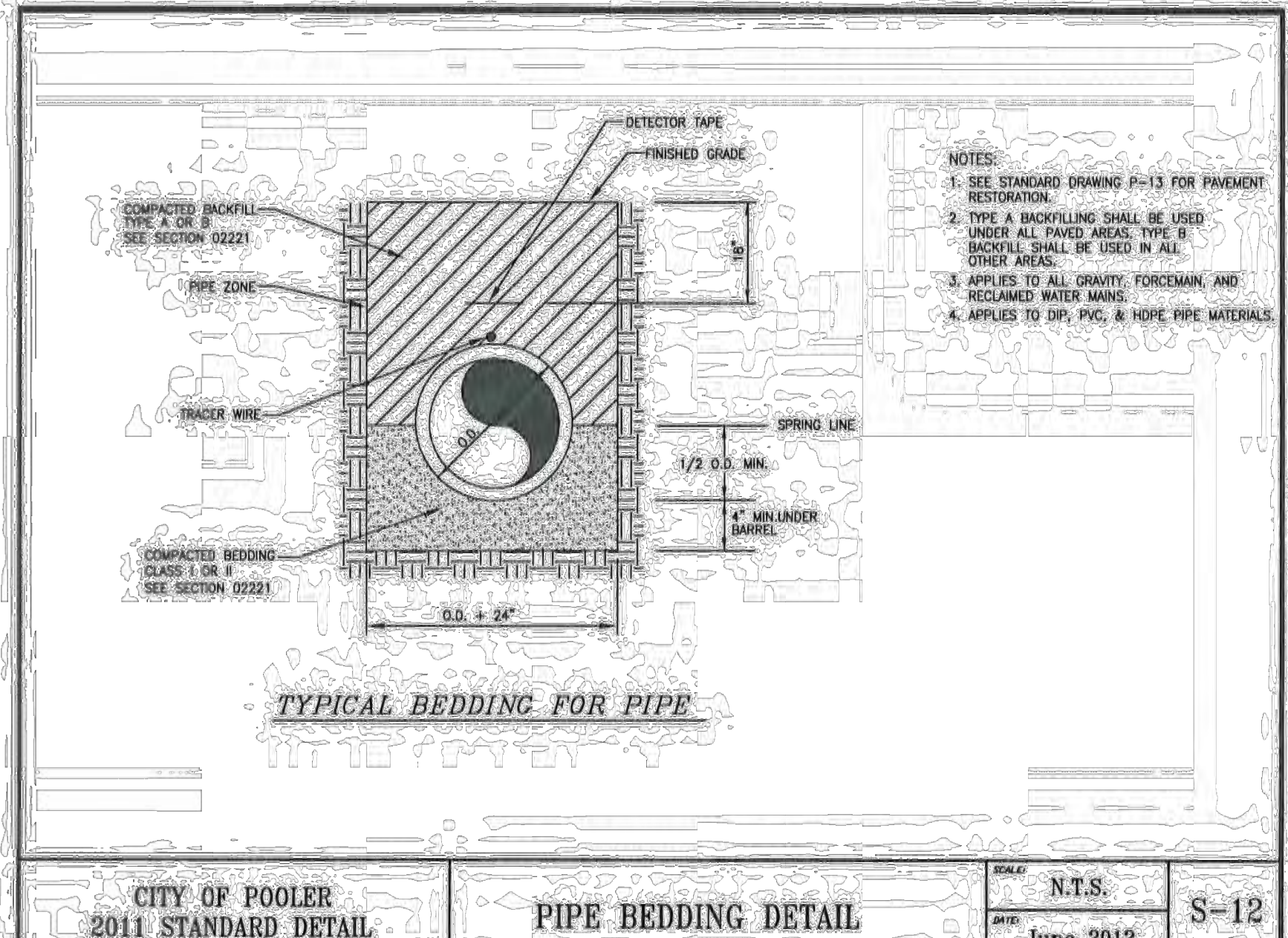
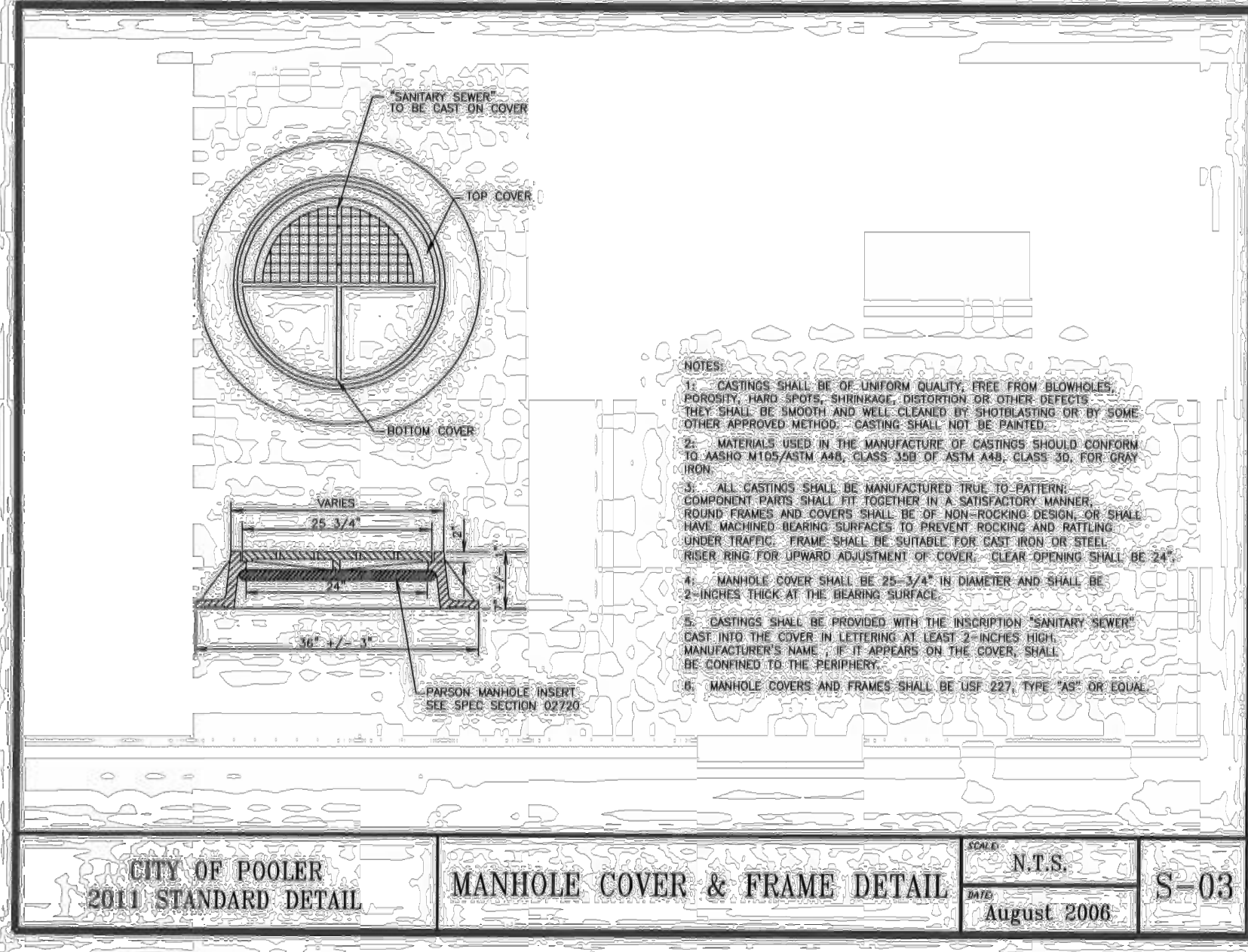
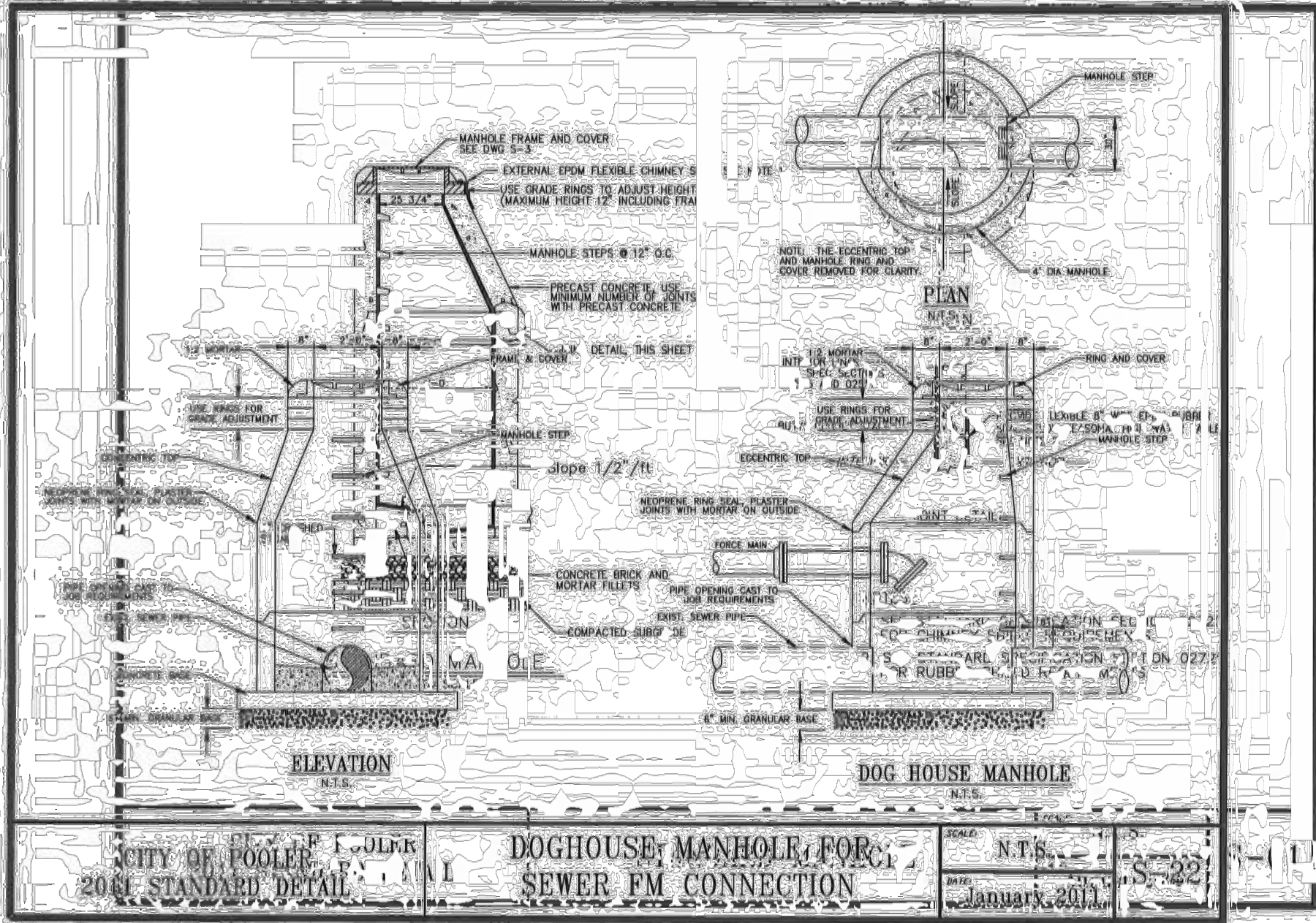








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LIVE OAK VETERINARY HOLDINGS, LLC

3930 EAST JONES BRIDGE ROAD  
THE FORUM SUITE 350  
NORCROSS, GEORGIA 30092

PHONE: 01-678-7544  
WWW.KIMLEY-HORN.COM  
LIVEOAKVET@GMAIL.COM

PROJECT

POOLER VET CLINIC

100 SAN DRIVE  
POOLER, GA 31322

PILOT DISTRICT

7111 DISTRICT

DATE

12.11.2024

REVISION DESCRIPTIONS

NO.

DATE

BY

GSWCC CERT. (LEVEL II)

0000022363

DRAWN BY

LCW

DESIGNED BY

SPG

REVIEWED BY

BLH

DATE

12.11.2024

PROJECT NO.

017684000

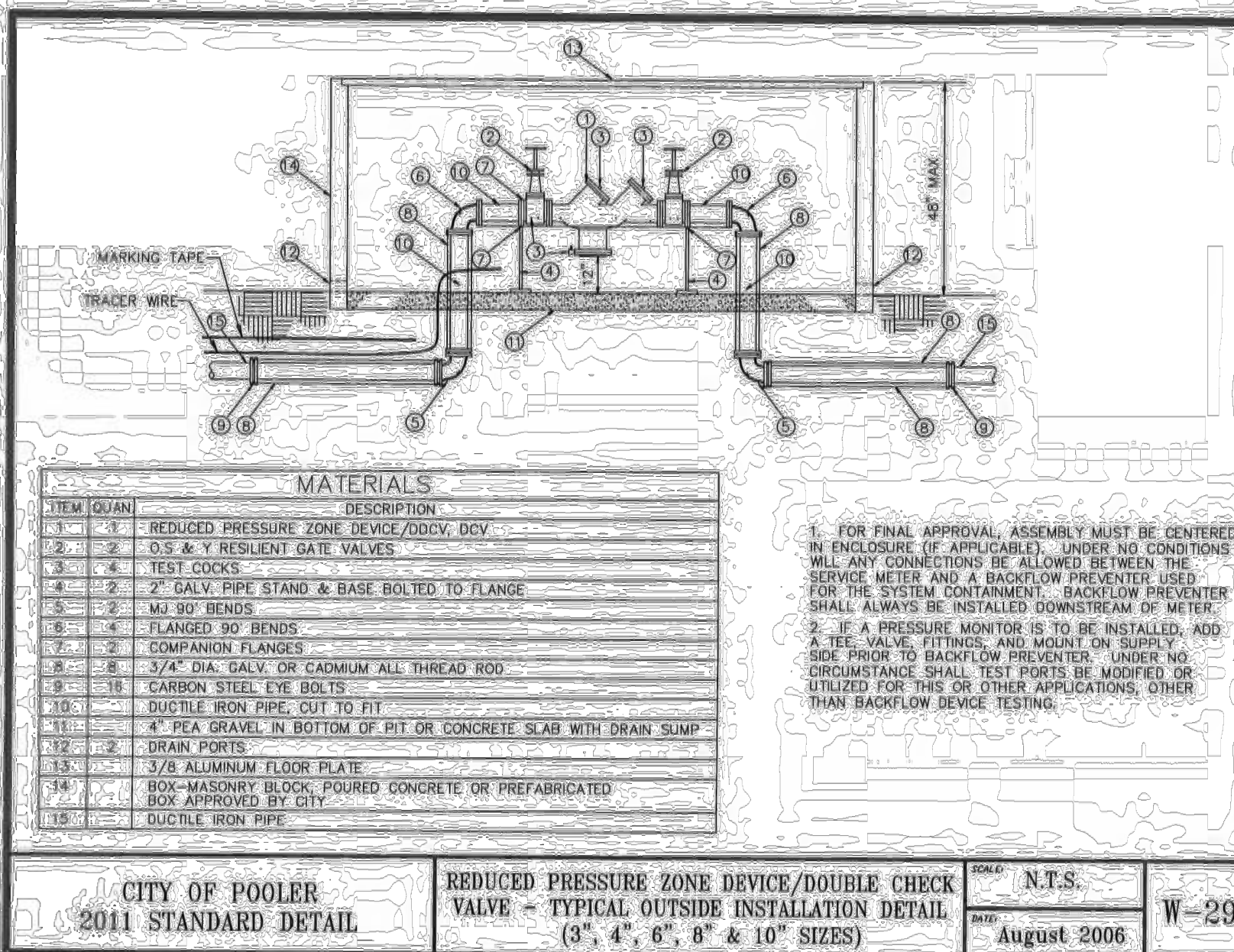
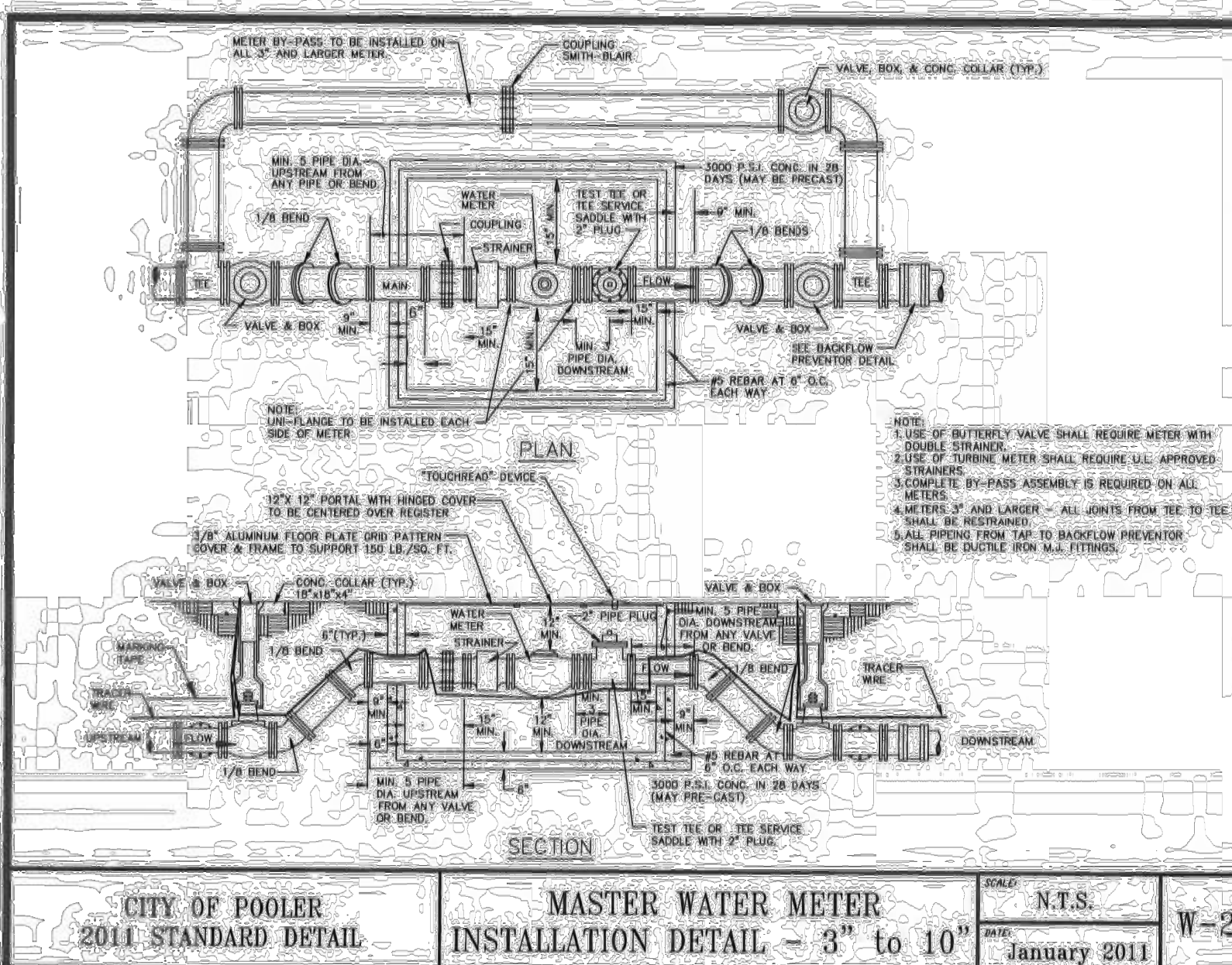
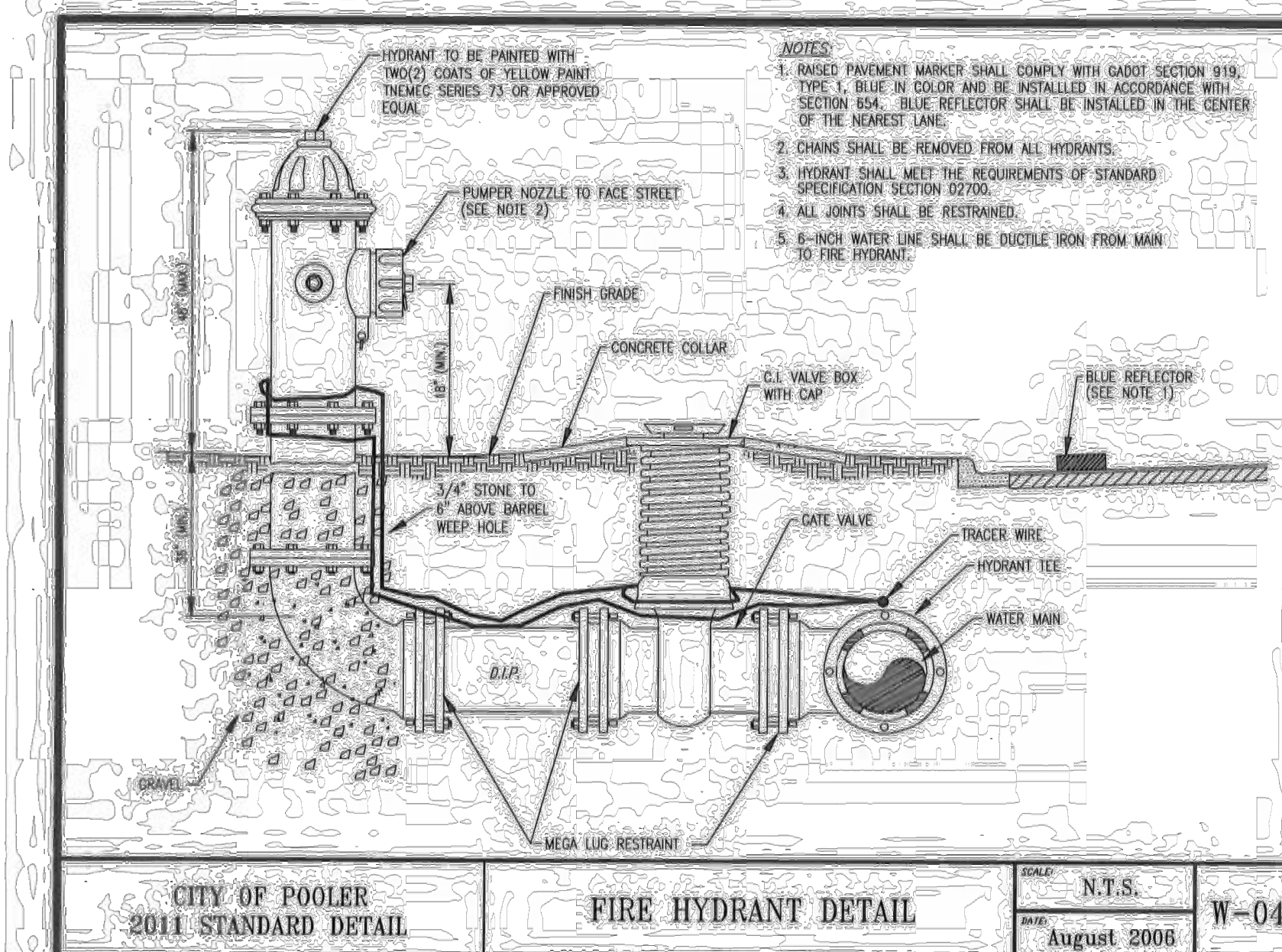
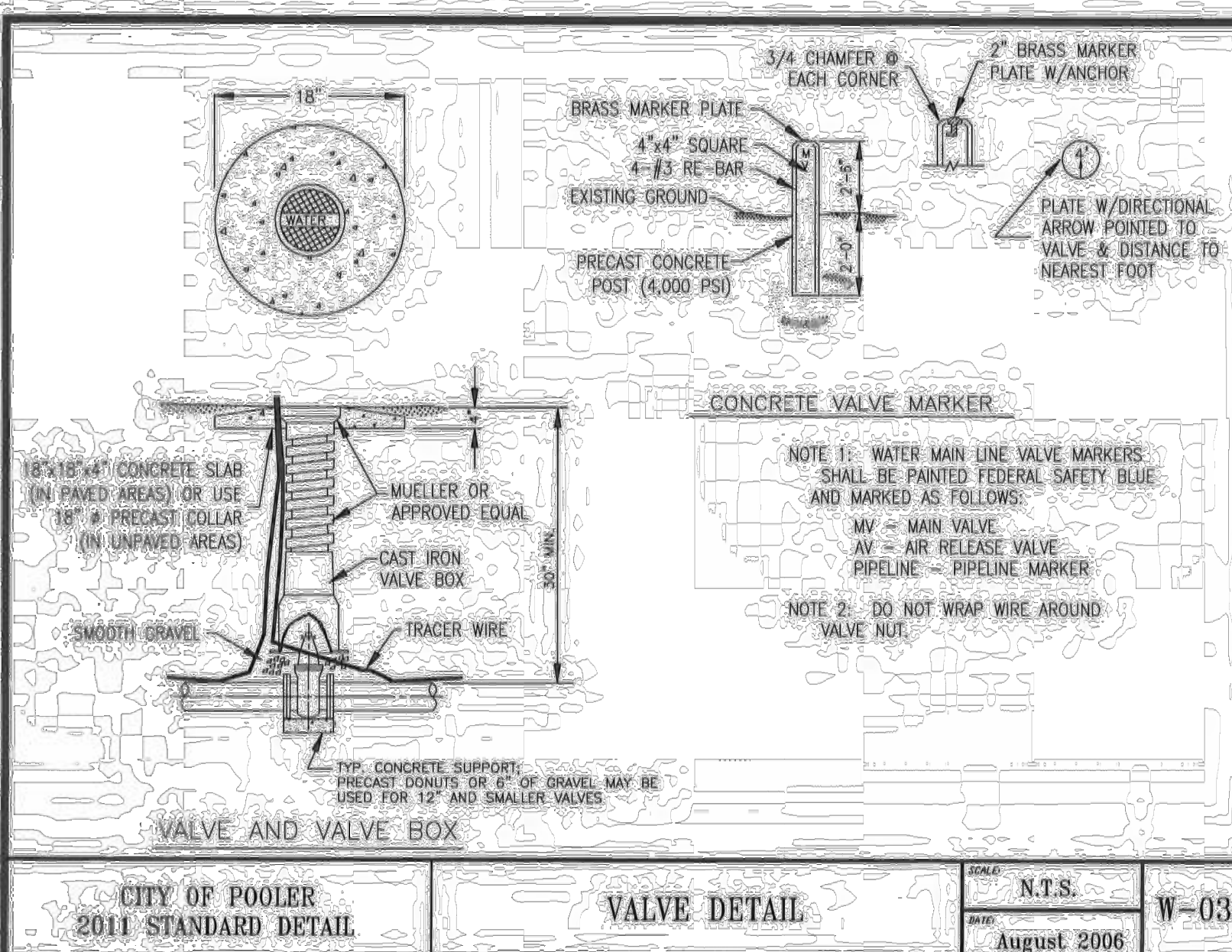
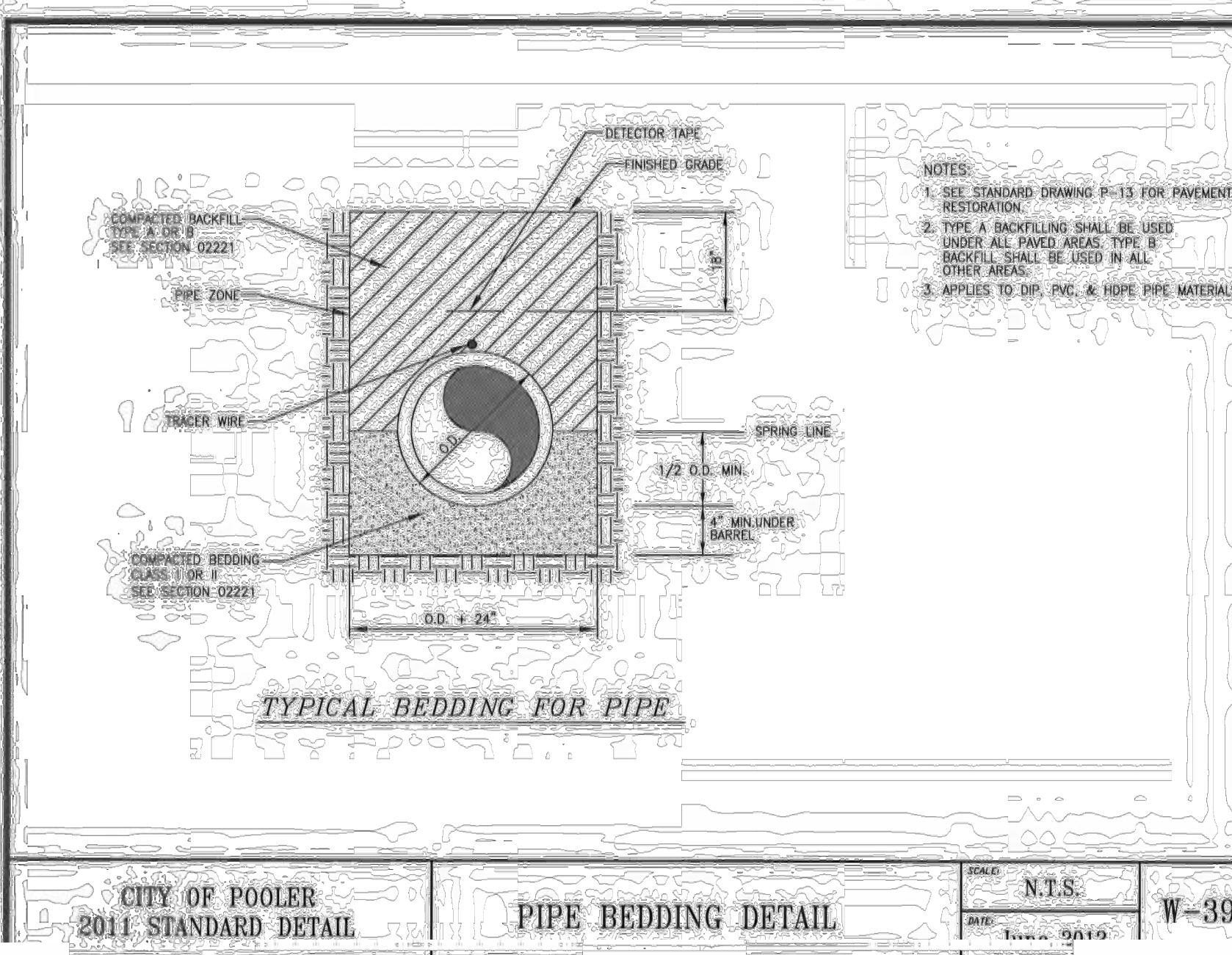
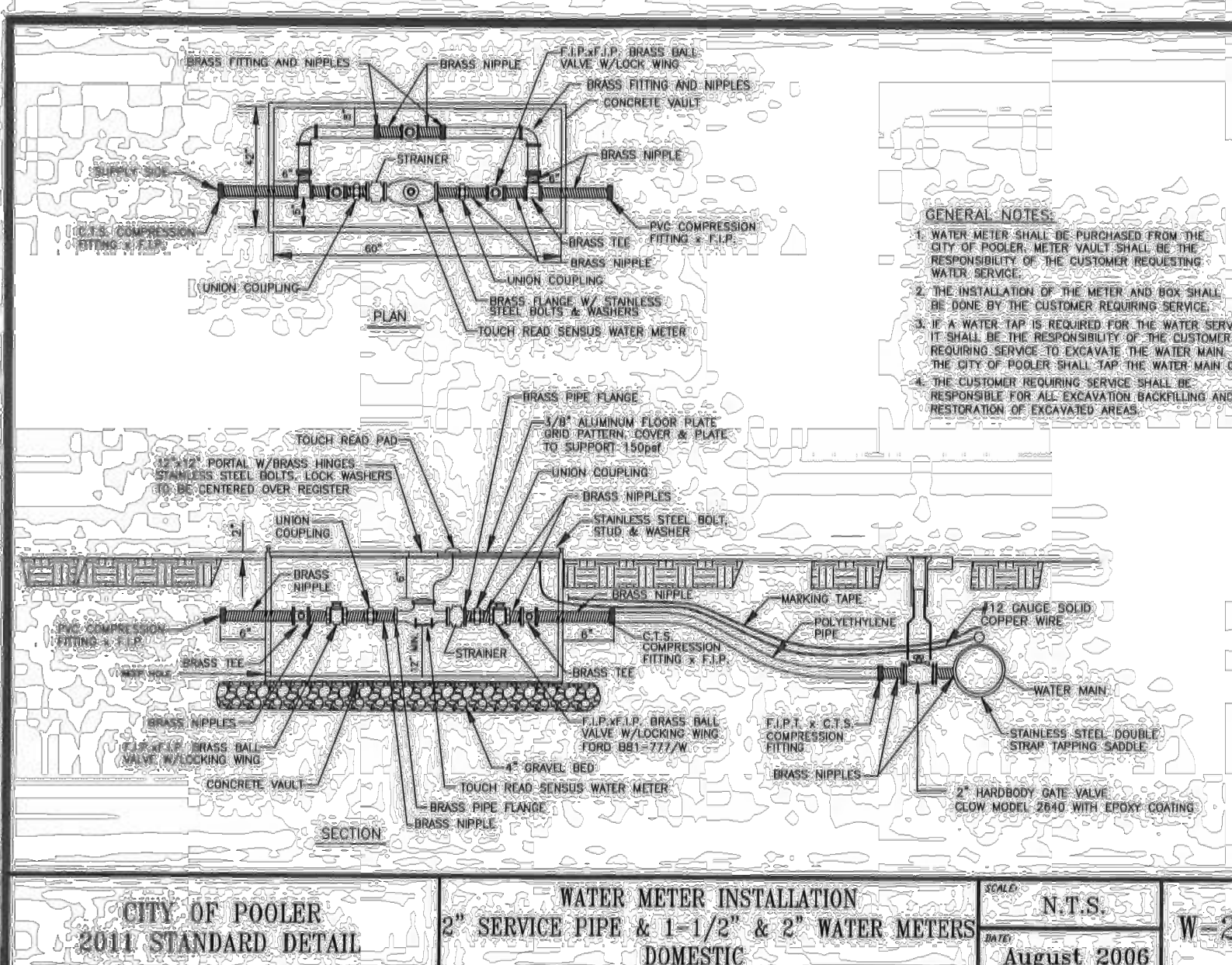
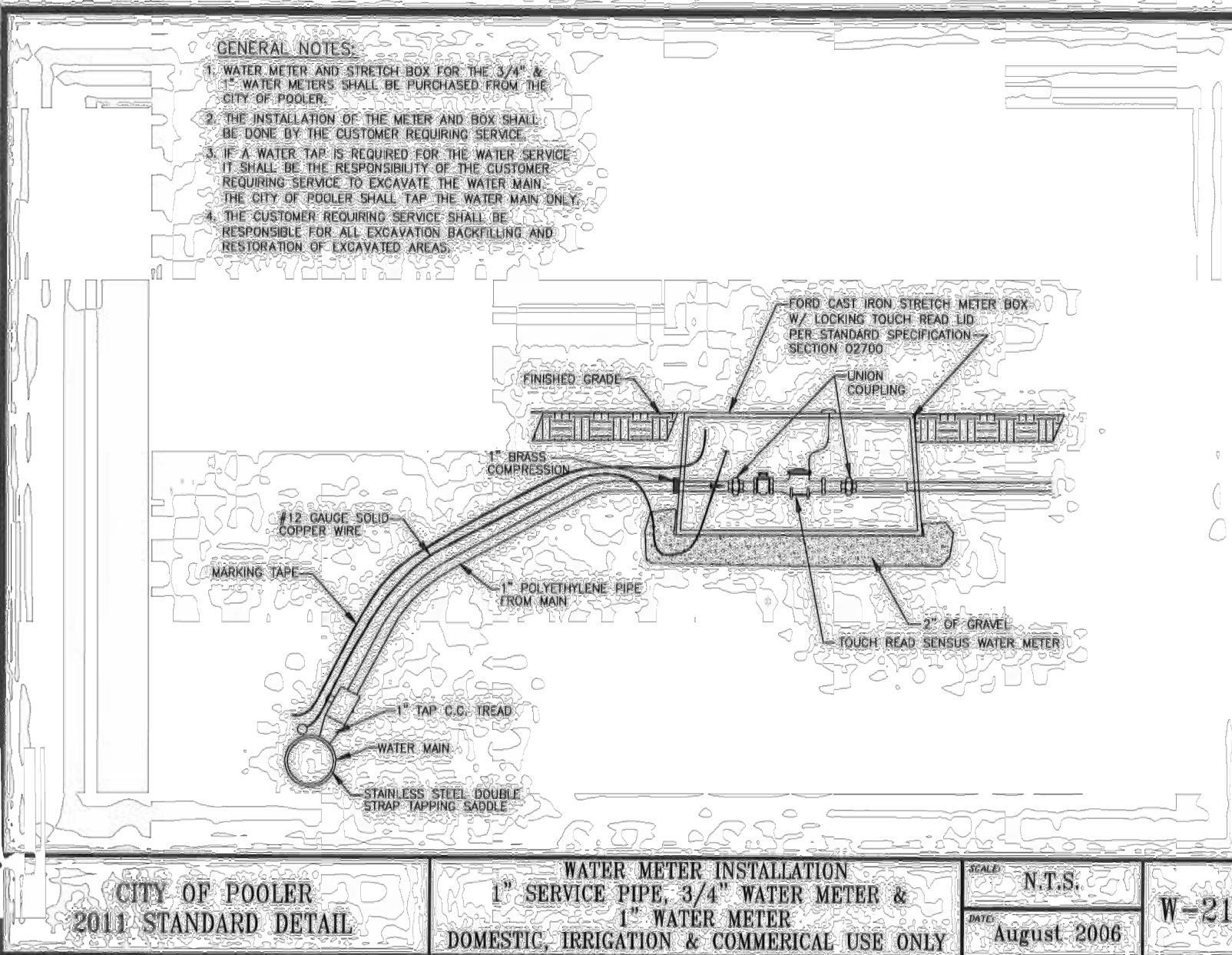
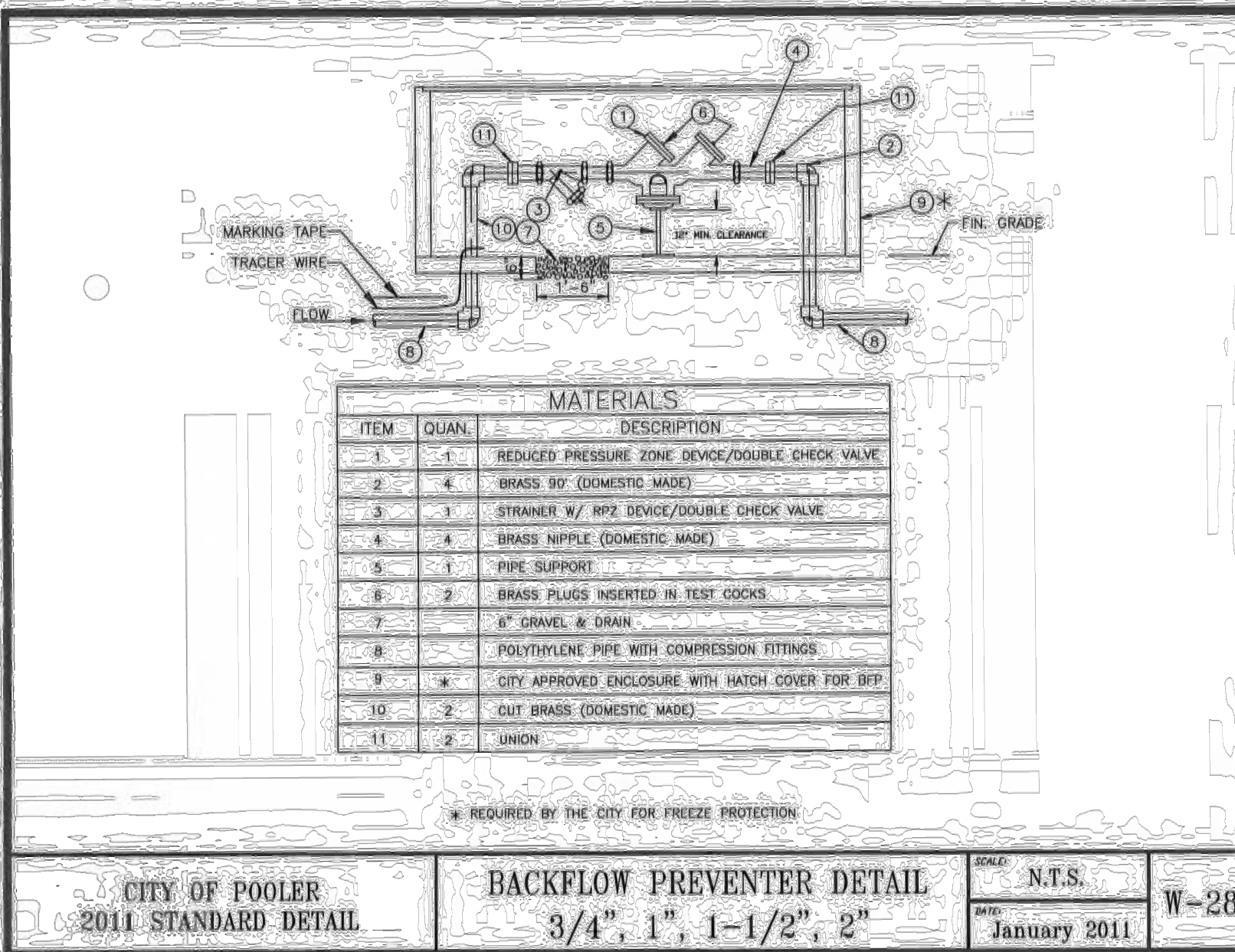
TITLE

SANITARY SEWER DETAILS

SHEET NUMBER

C6.40









50021 01005 102 SAN DRIVE POOLER, GA  
31322 79884.07 Sq. Feet 1.83 Acres

ONE STORY  
METAL SIDED  
BUILDING  
FFE: 20.90'

— SIGNIFICANT TREE TO BE REMOVED

SSMH  
RIM: 20.33'  
IE(SE): 16.19'  
IE(S): 16.34'

VAULT





## PLANT SCHEDULE

<u>SYMBOL</u>	<u>QTY</u>	<u>BOTANICAL NAME</u>	<u>COMMON NAME</u>	<u>CONT.</u>	<u>HT.</u>	<u>REMARKS</u>
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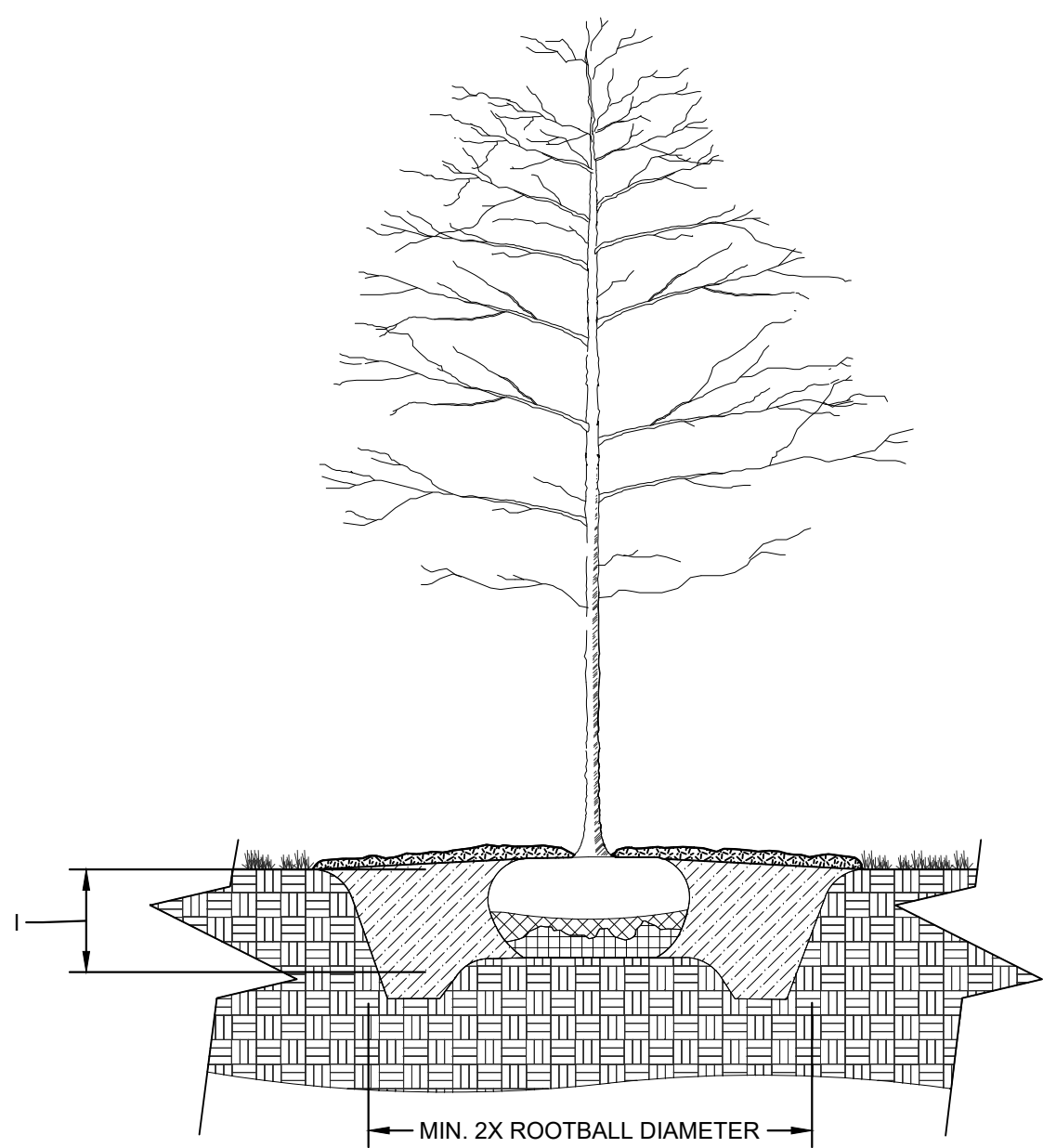
**Horn**

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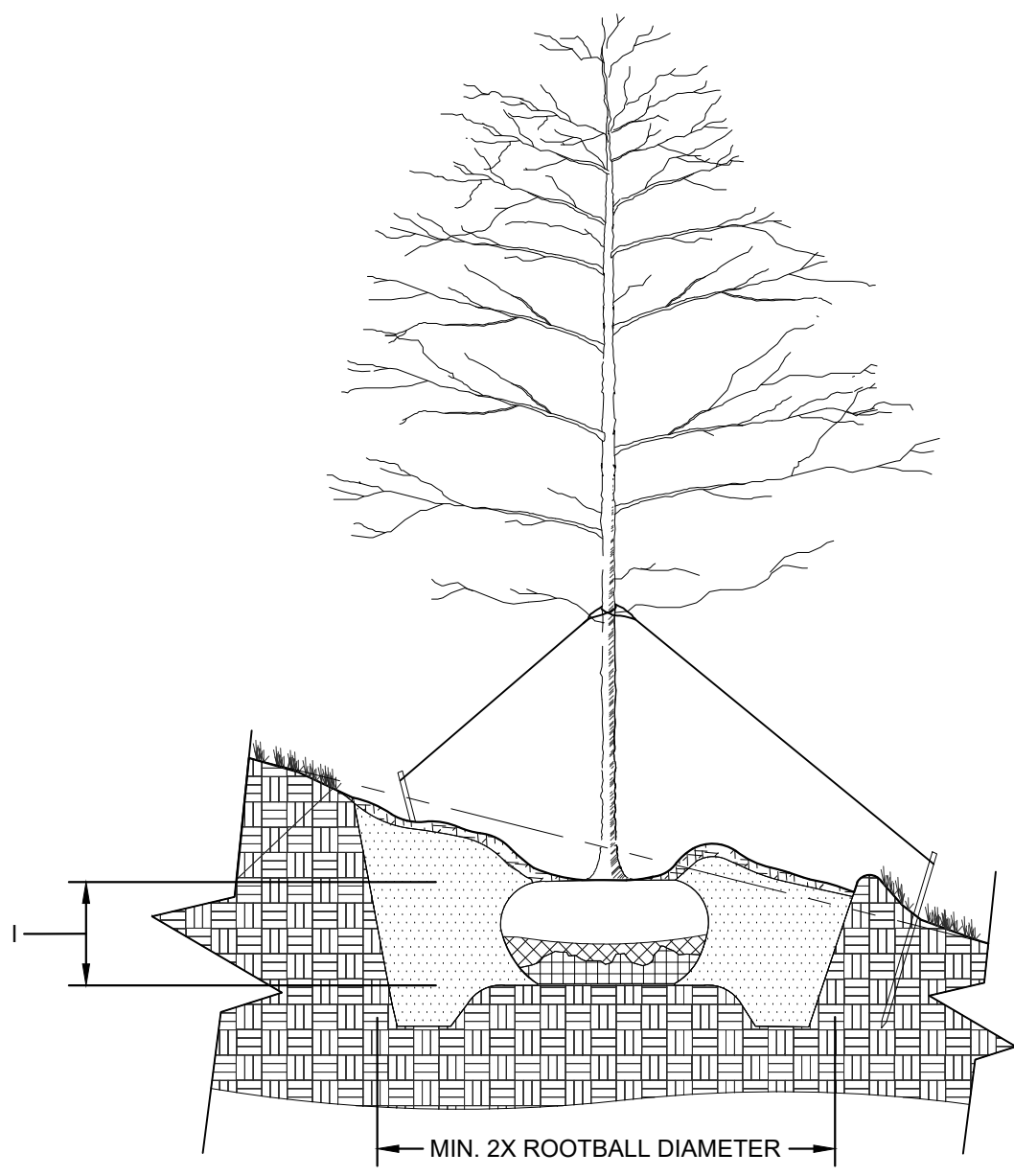




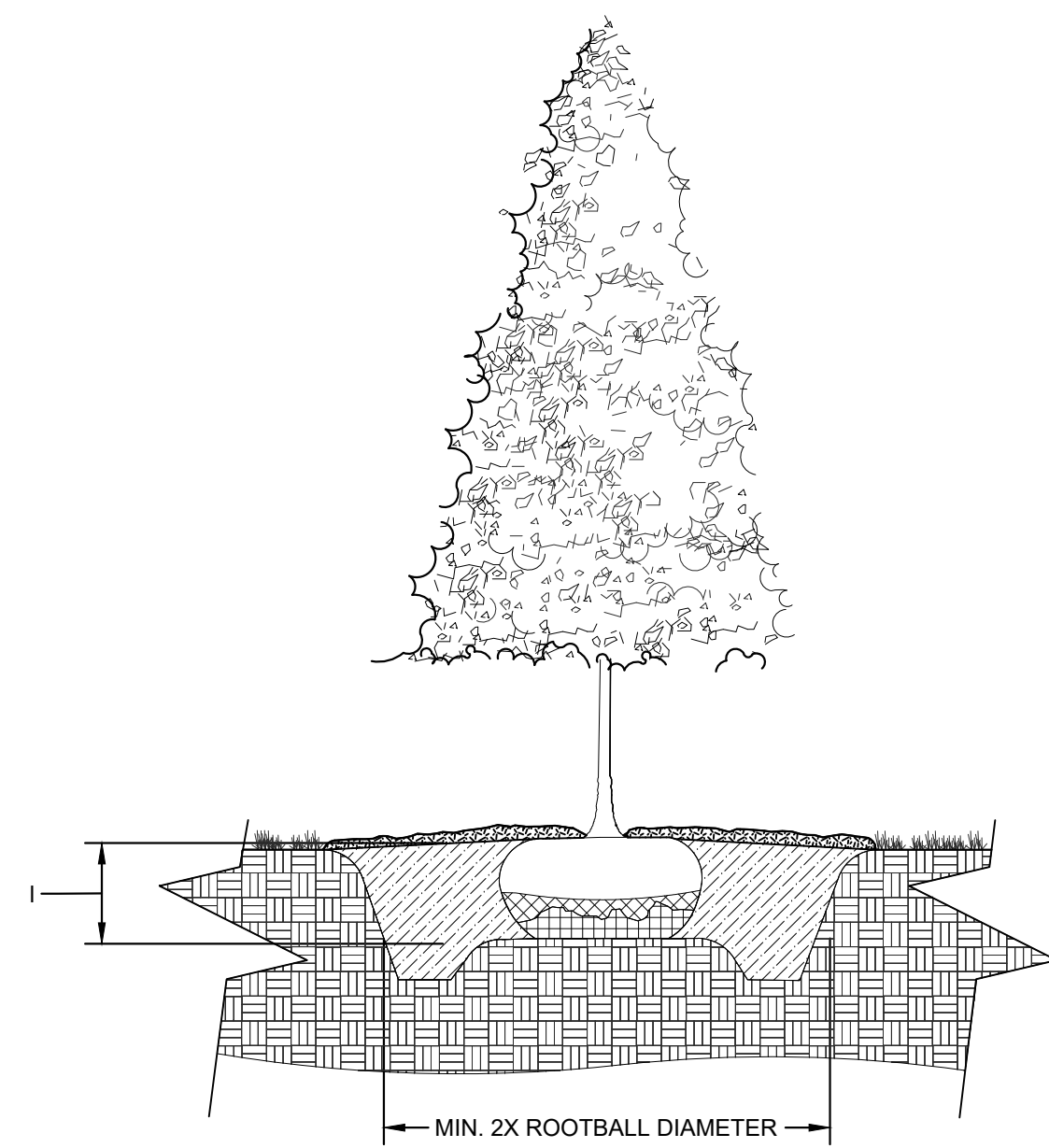
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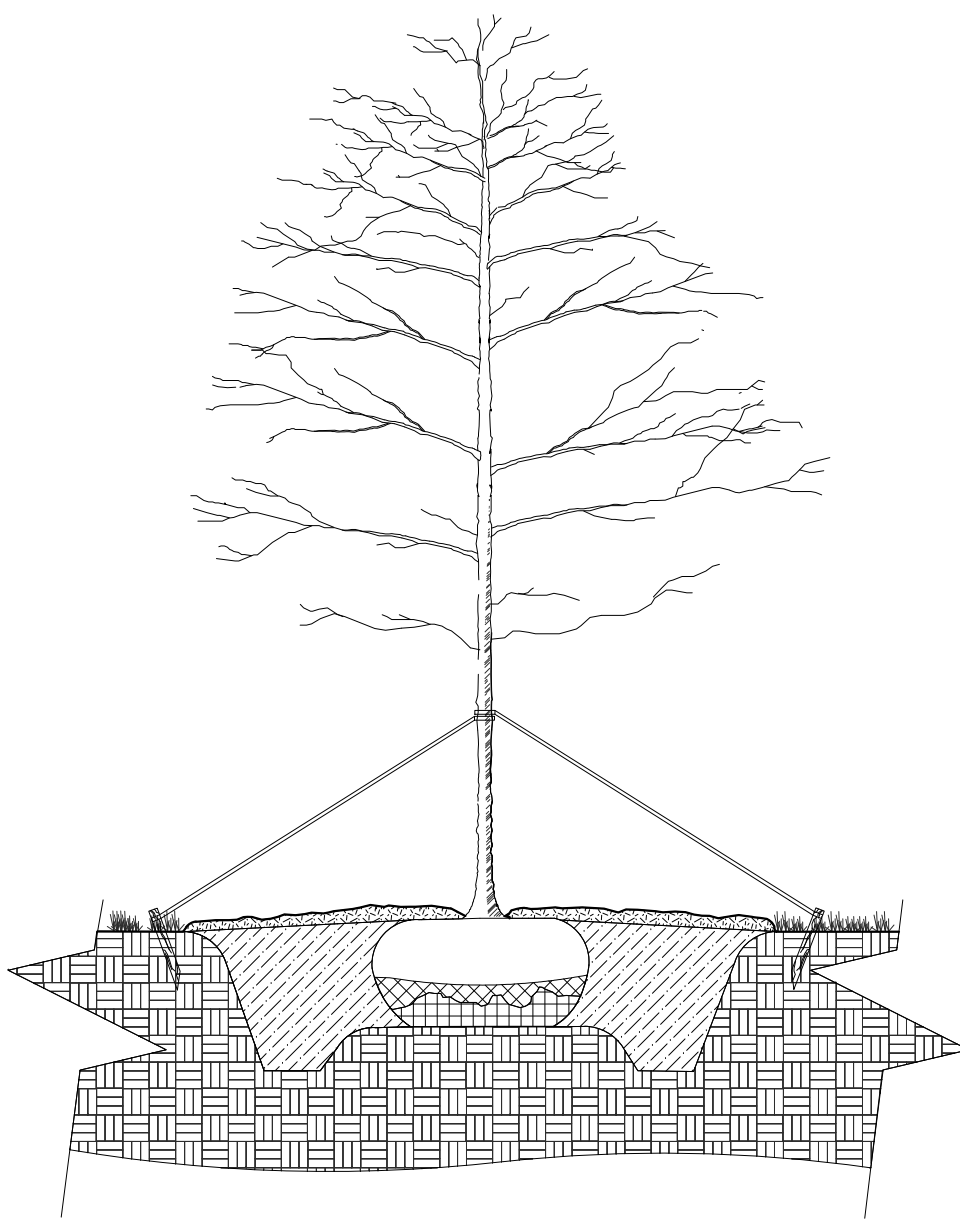
1 B&B TREE PLANTING  
NOT TO SCALE



2 B&B TREE PLANTING ON SLOPE  
NOT TO SCALE



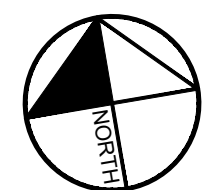
3 EVERGREEN TREE PLANTING  
NOT TO SCALE



04 TREE STAKING  
NOT TO SCALE

#### GENERAL LANDSCAPE NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PLANT SPECIES AND QUANTITY SPECIFIED BY LANDSCAPE ARCHITECT; PLANT QUANTITIES IDENTIFIED ON PLANS ARE FOR REFERENCE ONLY.
2. PLANT SIZE SPECIFICATIONS TAKE PRECEDENCE OVER CONTAINER SIZE.
3. NO LARGE OR MEDIUM CANOPY TREES SHALL BE PLANTED WITHIN 10-FEET OF OVERHEAD POWER LINE OR UNDERGROUND UTILITY LINE; SMALL TREES MUST MAINTAIN MINIMUM 5-FEET FROM UNDERGROUND UTILITY.
4. TREES SHALL BE PLANTED AT PROPER DEPTH OR SHALL BE REJECTED AT TIME OF INSPECTION.
5. THE LOCATIONS OF PLANTS, AS SHOWN IN THESE PLANS, ARE APPROXIMATE. THE FINAL LOCATIONS MAY BE ADJUSTED TO ACCOMMODATE FOR UNFORESEEN FIELD CONDITIONS TO COMPLY WITH SAFETY CRITERIA, TO AVOID CREATING UNSAFE SIGHT CONDITIONS, OR AS OTHERWISE DIRECTED BY OR APPROVED BY THE LANDSCAPE ARCHITECT.
6. CONTRACTOR SHALL ASSURE DRAINAGE AND PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION OF PLANT MATERIAL. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS IMPROPER DRAINAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF ALL PLANTS LOST DUE TO INADEQUATE DRAINAGE CONDITIONS.
7. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
8. ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT LIST.
9. ALL TREES MUST HAVE A STRAIGHT TRUNK AND FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
10. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
11. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
12. ALL TREES LOCATED WITHIN VEHICLE SIGHT TRIANGLES SHALL BE BRANCHED MIN. 8' (MEASURED FROM ADJACENT PROJECTED CURB LINE ELEVATION) PER ANSI Z60.1 STANDARDS FOR HEIGHT OF BRANCHING - STREET TREES.
13. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION. CONTRACTOR IS ALSO RESPONSIBLE FOR COORDINATING ALL UTILITY ADJUSTMENTS WITH FINAL FINISH GRADE. ALL UTILITIES SHALL SIT FLUSH WITH FINISH GRADES (BOTH PAVED AND LANDSCAPED SURFACES).
14. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THE LANDSCAPE PLANS BEFORE PRICING THE WORK. ANY DISCREPANCIES BETWEEN QUANTITIES ON PLAN AND PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT LANDSCAPE ARCHITECT AND ANY FIELD ADJUSTMENTS OR QUANTITY ADJUSTMENTS MUST BE AUTHORIZED PRIOR TO ORDERING AND PLANTING.
15. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, WEEDING, FERTILIZING, ETC.) OF THE PLANTING AREAS AND LAWN UNTIL SUBSTANTIAL COMPLETION.
16. THE CONTRACTOR SHALL COMPLETELY WARRANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING ON THE DATE OF SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE WARRANTEE PERIOD.
17. THE LANDSCAPE ARCHITECT SHALL APPROVE THE STAKING LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION. CONTRACTOR SHALL CONTACT THE PROJECT LANDSCAPE ARCHITECT A MINIMUM OF ONE (1) WEEK IN ADVANCE TO SCHEDULE STAKING.
18. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO SUBSTANTIAL COMPLETION OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE MEETING ALL PLANT SCHEDULE SPECIFICATIONS.
19. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
20. ALL PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH RIVER ROCK AT 2-3 INCHES. ANY EXISTING LANDSCAPE BEDS THAT ARE DISTURBED MUST BE MULCHED TO MATCH EXISTING MULCH FOUND WITHIN LANDSCAPE BED.
21. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACENT TO THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD.
22. SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.
23. ALL PLANT MATERIAL QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO PROVIDE OWN TAKE-OFFS AND SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.
24. THE TOP OF ALL ROOT BALLS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE, AS BORN TO PREVIOUS GRADE AND GROWING CONDITIONS.
25. NO MULCH SHALL TOUCH TREE TRUNK AND ROOT FLARE SHALL BE VISIBLE.
26. ALL ROOT BALLS REMOVED FROM CONTAINERS SHALL BE SCARIFIED PRIOR TO BACKFILLING.
27. FAILURE TO INSTALL PLANT MATERIAL PER THIS PLAN WILL JEOPARDIZE ISSUANCE OF FINAL CERTIFICATE OF OCCUPANCY. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING INSPECTIONS OF PLANT MATERIAL.
28. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES & ORDINANCES REGARDING LANDSCAPING. GENERAL CONTRACTOR IS TO CLEAN THE ENTIRE SITE OF ALL CONSTRUCTION DEBRIS PRIOR TO FINAL INSPECTION.
29. A PERMANENT IRRIGATION SYSTEM IS NOT PROPOSED. CONTRACTOR TO HAND WATER ALL LANDSCAPE MATERIAL UNTIL ESTABLISHMENT EITHER BY WATER TRUCK OF QUICK COUPLER SOURCE IF AVAILABLE. GATOR BAGS CAN BE PLACED ON TREES, CONTRACTOR TO MONITOR WATER LEVEL AND KEEP FULL DURING ESTABLISHMENT PERIOD.



07/03/2025

GSWCC CERT. (LEVEL II) 0000022363

DRAWN BY FC

DESIGNED BY FC

REVIEWED BY LB

DATE 12.11.2024

PROJECT NO. 017684000

TITLE

LANDSCAPE DETAILS

SHEET NUMBER

L2-10

PROJECT

POOLER VET CLINIC

103 SAN DRIVE  
POOLER, GA 31322

PLANSHEET 01835  
7711 DISTRICT

NO. REVISION DESCRIPTIONS

DATE

BY

LIVE OAK VETERINARY HOLDINGS, LLC

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