WATER SYSTEM EXPANSION - SOUTH

SCIIP GRANT - A-23-C081

GOOSE CREEK, SC



LOCATION MAP

FOR:

CITY OF GOOSE CREEK

200 BUTTON HALL AVE. GOOSE CREEK, SC 29445

843-824-2200



COLLABORATE. INNOVATE. CREATE.

220 N. Main Street, Suite 500 Greenville, SC 29601 Phone: (864) 226-6111 www.Ardurra.com



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JOB NO:	2023-1180-00
DATE:	MARCH 2025

G0.00

1	2		3	<u> </u>	BBREVIATIONS:		6	·	o
ABU	ABUTMENT	CNR	CORNER	FIRC	FOUND IRON ROD & CAP	MT	MOUNT	RAS	RETURN ACTIVATED SLUD
AS	ACTIVE SLUDGE	CORP	CORPORATION	FN&D	FOUND NAIL & DISK	NPT	NATIONAL PIPE THREAD	RU	REUSE
AL	ALUM SOLUTION	CORR	CORRUGATED	GAL	GALLON	NC	NORMALLY CLOSED	RT	RIGHT
AB	ANCHOR BOLT	CMP	CORRUGATED METAL PIPE	GPD	GALLONS PER DAY	NO	NORMALLY OPEN	R/W	RIGHT OF WAY
ADPT	ADAPTER	CMPA	CORRUGATED METAL PIPE	GPH	GALLONS PER HOUR	N	NORTH or NORTHING	RIM	RIM ELEVATION
ADJ	ADJUSTMENT or ADJACENT		ARCH	GPM	GALLONS PER MINUTE	N-S	NORTH-SOUTH	RD	ROOF DRAIN / ROAD
AC	ACRES	C SNK	COUNTERSINK		GALVANIZED	N/A	NOT APPLICABLE or NOT		•
AHD	AHEAD		COUNTY ROAD	GALV/GLV		IN/ A		RND	ROUND
		CR		GSP	GALVANIZED STEEL PIPE		AVAILABLE	SP	SAMPLE POINT
ARV	AIR RELEASE VALVE	CPLG	COUPLING	G	GAS LINE	NIC	NOT INCLUDED or NOT IN	SCO	SANITARY CLEANOUT
AKA	ALSO KNOWN AS	CF	CUBIC FEET	GV	GATE VALVE		CONTRACT	SMH	SANITARY SEWER MANHO
AG	ALLEY GRATE	CFM	CUBIC FEET PER MINUTE	GA	GAUGE	NTS	NOT TO SCALE	SAN	SANITARY SEWER
ALUM	ALUMINUM	CY	CUBIC YARD	GTEB	GENERAL TELEPHONE BURIED	NO or #	NUMBER	SCH	SCHEDULE
APP	APPARENT	CULV	CULVERT	GEO	GEODETIC	OC	ON CENTER or ODOR	SC	SCUM
APP'D	APPROVED	C&G	CURB & GUTTER	GRD	GRADE		CONTROL	SE	SECONDARY EFFLUENT
APPROX	APPROXIMATE	C#	CURVE NUMBER	GE	GRATE ELEVATION	O/S	OFFSET	S-T-R	SECTION, TOWNSHIP &
Α	ARC	С	CUT	Gl	GRATE INLET	OP	OPEN PIPE	5111	RANGE
ARCH	ARCHITECTURAL or	DEC	DECANT	GRT'G	GRATING			CID	
7111011	ARCHITECT	DB	DEED BOOK			OPNG	OPENING	SIR	SET IRON ROD
A C				GS	GRAVITY SEWER or GROUND	O/E	OR EQUAL	SIRC	SET IRON ROD & CAP
AC	ASBESTOS CEMENT	DEPT	DEPARTMENT		SHOT	OD	OUTSIDE DIAMETER	SHT	SHEET
ASPH	ASPHALT	DET	DETAIL	GS	GREASE/SEPTAGE	O/A	OVERALL	S/W	SIDE WALK
ASSY	ASSEMBLY	DIA	DIAMETER	GP	GROUND POINT	OHE	OVERHEAD ELECTRIC	SWD	SIDE WATER DEPTH
ATM	ATMOSPHERE	DIM	DIMENSION	GST	GROUND STORAGE TANK	OHL	OVERHEAD LIGHT or LINE	SL	SLUDGE
AT	AUGER TERMINATION DEPTH	DBI	DITCH BOTTOM INLET	HT	HAMMER TAP or HEIGHT	OHT	OVERHEAD TELEPHONE	NaOCI	SODIUM HYPOCHLORITE
AVE	AVENUE	DPI	DITCH POINT INTERSECTION	НА	HAND AUGER	OHW	OVERHEAD WIRE	<u>-</u>	SOLUTION
AWL	AVERAGE WATER LEVEL	DBL	DOUBLE	НН	HAND HOLE	PG	PAGE	SPECS	SPECIFICATIONS
ВК	ВАСК	DN	DOWN	HR	HAND RAIL				
BFD	BACK FLOW DEVICE	DWG	DRAWING			PVMT	PAVEMENT	SPLWY	SPILLWAY
BOC	BACK OF CURB	DR	DRIVE	HDD	HORIZONTAL DIRECTIONAL	PED	PEDESTAL or PEDESTRIAN	SH	SPRINKLER HEAD
BOW	BACK OF WALK	DW	DRIVE		DRILL	РВО	PERMANENT BLOW OFF	SQ	SQUARE
				HDPE	HIGH DENSITY POLYETHYLENE	PRM	PERMANENT REFERENCE	SF	SQUARE FEET
BV	BALL VALVE	DWA	DRIVEWAY ASPHALT	HDWL	HEAD WALL		MONUMENT	SS	STAINLESS STEEL
BW	BACKWASH	DWB	DRIVEWAY BRICK	HC	HIGH CURB or HANDICAP	PV	PINCH VALVE	STD	STANDARD
BRCD	BARRICADE	DWC	DRIVEWAY CONCRETE	HP	HIGH POINT or HORSEPOWER	PE	PLAIN END or PLANT	SR	STATE ROAD
BL	BASELINE	DWD	DRIVEWAY DIRT	HSP	HIGH SERVICE PUMPS		EFFLUENT	STA	STATION
BRG	BEARING	DWGS	DRIVEWAY GRASS	HWL	HIGH WATER LEVEL	РВ	PLAT BOOK	STM	STORM
BM	BENCH MARK	DWGR	DRIVEWAY GRAVEL	HWM	HIGH WATER MARK	PL	PLATE, PLACE or PROPERTY	STY	STORY
BIT	BITUMINOUS	DI	DUCTILE IRON	HWY	HIGHWAY	1 L	LINE	ST	STREET
BF	BLIND FLANGE	DIP	DUCTILE IRON PIPE	HORZ	HORIZONTAL	DLV			
ВО	BLOW OFF	EA	EACH			PLV	PLUG VALVE	SN	SUPERNATANT
BK	BOOK	EW	EACH WAY	НВ	HOSE BIB	PNT	POINT	SL	SURVEY LINE
BBCV	BOTTOM BUFFER CHECK	EASMT	EASEMENT	HR	HOUR	PCC	POINT OF COMPOUND	TS&V	TAPPING SLEEVE & VALV
DDCV	VALVE	LASIVI1		ID	IDENTIFICATION		CURVATURE	TEL	TELEPHONE
D.C.		E	EAST OR EASTING	IN	INCH	PC	POINT OF CURVATURE	TEMP	TEMPORARY
ВС	BOTTOM OF CURVE	E-W	EAST - WEST	INF	INFLUENT	PI	POINT OF INTERSECTION	TBO	TEMPORARY BLOW OFF
BLVD	BOULEVARD	ECC	ECCENTRIC	IPS	INFLUENT PUMP STATION	PRC	POINT OF REVERSE CURVE	THK	THICK
BOXC	BOX CULVERT	EOP or EP	EDGE OF PAVEMENT	ID	INSIDE DIAMETER	PT	POINT OF TANGENT or POINT	TSL	THICKENED SLUDGE LINE
BRKT	BRACKET	ELEC	ELECTRIC OR ELECTRICAL	IR	INTERNAL RECYCLE	PVI	POINT OF VERTICAL	THD	THREADED
BLDG	BUILDING	ELEV or EL	ELEVATION	INT	INTERSECTION	1 V1	INTERSECTION	TOS	TOE OF SLOPE
BE	BURIED ELECTRIC	ERCP	ELLIPTICAL REINFORCED	IE	INVERT ELEVATION	PLS	POLYMER SOLUTION PIPE	ТОВ	TOP OF BANK or BERM
ВТ	BURIED TELEPHONE		CONC. PIPE	INV	INVERT				
BFV	BUTTERFLY VALVE	ENV	ENVIRONMENTAL or	IP		PVC	POLYVINYL CHLORIDE	TOC	TOP OF CURB
CATV	CABLE TELEVISION		ENVIRONMENT		IRON PIPE	PW	POTABLE WATER	TC	TOP OF CURVE
(C)	CALCULATED	EQ	EQUATION	IR	IRON ROD	LB or #	POUND	TSC	TRAFFIC SIGNAL CABLE
(C)				IRR	IRRIGATION	PSI	POUNDS PER SQUARE INCH	TSS	TOTAL SUSPENDED SOLIC
CI	CAST IRON	EQUIP	EQUIPMENT	IV	IRRIGATION VALVE	PP	POWER POLE	TWE	TRUCK WASH EFFLUENT
CIP	CAST IRON PIPE	ED	EQUIPMENT DRAIN	JT	JOINT	PCV	PRESSURE CONTROL VALVE	TYP	TYPICAL
СВ	CATCH BASIN	EX or EXIST	EXISTING	JB	JUNCTION BOX	PRV	PRESSURE REDUCING VALVE	UD	UNDERDRAIN
CAT	CATALOG	EXP	EXPANSION	JD	JURISDICTION LINE	PSL	PRIMARY SLUDGE LINE	UDCO	UNDERDRAIN CLEANOUT
CLKG	CAULKING	EXP JT	EXPANSION JOINT	LN	LANE	PLS	PROFESSIONAL LAND	UG	UNDERGROUND
CTR	CENTER	EXT	EXTRUDED	LT	LEFT	ı LJ			
CL	CENTERLINE	FAB	FABRICATED	LS	LIFT STATION	5011	SURVEYOR	UGE	UNDERGROUND ELECTRI
CHKD	CHECKERED	FOW	FACE OF WALK			PSM	PROFESSIONAL SURVEYOR &	UGT	UNDERGROUND TELEPHO
CHND	CHECK VALVE	FT	FEET or FOOT	LP	LIGHT POLE		MAPPER	USC & GS	UNITED STATES COASTAL
			FENCE LINE or FLOW LINE	LF	LINEAR FEET	PROP	PROPOSED		GEODETIC SURVEY
CL2S	CHLORINE	FL		LCL2	LIQUID CHLORINE	PL	PROPERTY LINE	UB	UTILITY BOX
CL2S	CHLORINE SOLUTION	FRP	FIBERGLASS REINFORCED	LL	LOT LINE	PID	PROPERTY IDENTIFICATION	VTH	VACUUM TEST HOLE (SO
CCC	CHLORINE CONTACT		PIPE	LOD	LIMITS OF DISTURBANCE	PS	PUMP STATION		DIG)
	CHAMBER	FOC	FIBER OPTIC CABLE	LP	LOW POINT	РО	PUSH ON	VAR	VARIOUS
CCP	CHLORINE CONTACT POINT	F	FILL	MAG	MAGNETIC	R	RADIUS	VAN	VENT THRU ROOF
CH	CHORD	FA	FILTER AIR or FOUL AIR	MB	MAIL BOX	RP	RADIUS POINT		
CIR	CIRCLE	FBW	FILTER BACKWASH	MH	MANHOLE	RR	RAIL ROAD	VERT	VERTICAL
CEP	CITY ELECTRIC POLE	FE	FILTER EFFLUENT or FINISH	MARV	MANUAL AIR RELEASE VALVE			VCP	VITRIFIED CLAY PIPE
CWM	CITY WATER MAIN		ELEVATION			ROFCV	RATE OF FLOW CONTROL	WAS	WASTE ACTIVATED SLUD
CLW	CLARIFIED WATER	FO	FILTER OVERFLOW	MAVV	MANUEL CTURER		VALVE	WM	WATER MAIN / WATER
	CLARIFIED WATER CLARIFIER EFFLUENT	FSD	FILTER OVERFLOW FILTER SUMP DRAIN	MFR	MANUFACTURER	RS	RAW SEWAGE		METER
CE				MPS	MASTER PUMP STATION	RWM	RAW WATER MAIN	WS	WATER SERVICE
CO	CLEAN OUT	FWW	FILTER WASH WATER	MTL	MATERIAL	RCW	RECLAIMED WATER	WV	WATER VALVE
CLR	CLEAR OR CLEARANCE	FIN	FINISH	MAX	MAXIMUM	(R)	RECORD DATA	WWM	WELDED WIRE MESH
COL	COLUMN	FF	FINISH FLOOR	MHW	MEAN HIGH WATER	RED	REDUCER		WITH
CAV	COMBINATION AIR/VACUUM	FHA	FIRE HYDRANT ASSEMBLY	MLW	MEAN LOW WATER	REF	REFERENCE	W/	
	RELEASE VALVE	FTG	FITTING or FOOTING	(M)	MEASURED	RLS	REGISTERED LAND SURVEYOR	W/O	WITHOUT
CA	COMPRESSED AIR	FLG	FLANGE					WLP	WOOD LIGHT POLE
CONC	CONCRETE	FES	FLARED END SECTION	MECH	MECHANICAL ICINIT	RCP	REINFORCED CONCRETE PIPE	WPP	WOOD POWER POLE
COINC		FLX	FLEXIBLE	MJ	MECHANICAL JOINT	REINF	REINFORCING	WTP	WOOD TELEPHONE POLE
	CONCRETE BLOCK			MG	MILLION GALLON	RJW	REJECT WATER	YD	YARD
CBS	STRUCTURE	FLR	FLOOR	MGD	MILLION GALLONS PER DAY	REQD	REQUIRED	10	.,
CBS	CONCRETE MASONRY UNIT	FD	FLOOR DRAIN	MIN	MINIMUM	RWGV	RESILIENT WEDGE GATE		
		FL	FLOW LINE	MISC	MISCELLANEOUS		VALVE		
CBS	CONCRETE MONUMENT			141120					
CBS CMU	CONCRETE MONUMENT CONNECTION	FM	FORCE MAIN	NAEC	MITERED END SECTION	DNAF	RECUIDE KAANAACKAENT		
CBS CMU CM CONN	CONNECTION	FM FA	FORCE MAIN FOUL AIR PIPE	MES	MITERED END SECTION	RMF	RESOURCE MANAGEMENT		
CBS CMU CM CONN CONST	CONNECTION CONSTRUCTION	FA		MOD	MODIFIED		FACILITY		
CBS CMU CM CONN	CONNECTION		FOUL AIR PIPE			RMF RRF			

GENERAL NOTES:

- 1. SPECIAL CARE SHALL BE TAKEN TO ENSURE THAT EXISTING TREES TO BE SAVED REMAIN UNDAMAGED DURING CONSTRUCTION. REFERENCE LANDSCAPE AND LAND ALTERATION ORDINANCE. DEVELOPMENT SHALL COMPLY WITH THE TREE AND LANDSCAPE CODES AS SET FORTH IN THE LAND DEVELOPMENT CODE UNLESS PERMITTED OTHERWISE.
- 2. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITIES TO BE EXTENDED OR CROSSED AND CONTACT THE ENGINEER FOR RESOLUTION OF ANY CONFLICTS BETWEEN FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS.
- 3. DIGITAL OR ELECTRONIC REPRESENTATION OF THESE CONSTRUCTION PLANS DOES NOT CONSTITUTE A COORDINATE CONTROL MAP OR MATHEMATICALLY CONTROLLED INFORMATION FOR THE USE OF CONSTRUCTION STAKEOUT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR CONTRACTOR'S SURVEYOR TO ENSURE THAT ANY DIGITAL OR ELECTRONIC REPRESENTATION OF THESE PLANS IS IN COMPLETE CONFORMANCE WITH ALL OF THE NOTATIONS, SPECIFICATIONS, DETAILS AND OTHER DATA APPEARING ON OR AS MAY BE DERIVED FROM THESE CONSTRUCTION PLANS.
- 4. CONTRACTOR IS RESPONSIBLE FOR PREPARING AND IMPLEMENTING MAINTENANCE OF TRAFFIC PLANS AS REQUIRED.
- 5. CONTRACTOR RESPONSIBLE FOR REPAIR AND REPLACEMENT OF INFRASTRUCTURE / FACILITIES WITHIN THE RIGHT-OF-WAY THAT ARE DAMAGED DURING CONSTRUCTION ACTIVITY.
- 6. CONTRACTOR SHALL CEASE WORK, ISSUE A STOP WORK ORDER, AND NOTIFY REQUIRED AGENCIES SHOULD ANY ARCHAEOLOGICAL MATERIALS OR HUMAN SKELETAL REMAINS BE ENCOUNTERED PRIOR TO OR DURING CONSTRUCTION ON THE PROJECT SITE.

IMPERVIOUS AREA = 0 AC. DISTURBED AREA = 3 AC.

GENERAL INFORMATION:

PROJECT OWNER/DEVELOPER: CITY OF GOOSE CREEK 200 BUTTON HALL AVE. GOOSE CREEK, SC 29445

843-824-2200

PROJECT ENGINEER:
ARDURRA GROUP, INC.
220 N. MAIN STREET, SUITE 500
GREENVILLE, SOUTH CAROLINA
(864)226-6111
www.Ardurra.com

CITY OF GOOSE CREEK WATER NOTES:

- 1. WATER INSTALLATION SHALL BE IN ACCORDANCE WITH "TEN STATE STANDARDS," S.C.D.H.E.C., AND GOOSE CREEK DEPARTMENT OF PUBLIC WORKS (GCDPW) REQUIREMENTS.
- CONTRACTOR SHALL BE FAMILIAR WITH ALL REQUIREMENTS OF THE GCDPW AND SHALL NOTIFY GCDPW PRIOR TO BEGINNING CONSTRUCTION AND SCHEDULE ALL INSPECTIONS 72 HOURS IN ADVANCE.
- 3. RADIUS (DEFLECT) WATER LINES IN LIEU OF FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

 DEFLECTION

NOT TO EXCEED 75% OF MANUFACTURER'S RECOMMENDATION.

- 4. ALL WATER LINES SHALL HAVE A MINIMUM DIAMETER OF 4", A MINIMUM COVER OF 36" AND A MAXIMUM COVER OF 48". ALL UTILITY CROSSINGS, I.E. STORM DRAINAGE & SANITARY SEWER, SHALL HAVE A FULL SECTION OF D.I.P. CENTERED AT THE CROSSING IN ACCORDANCE WITH S.C.D.H.E.C. AND GCDPW REQUIREMENTS.
- 5. ALL TEES, BENDS, PLUGS AND HYDRANTS ON LINES 3 INCHES INSIDE DIAMETER OR LARGER SHALL BE PROVIDED WITH THRUST BLOCKING, TIE RODS, OR OTHER APPROVED METHOD OF RESTRAINT PER GCDPW.
- 6. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO
- 7. ALL WATER LINES UNDER TRAFFIC AREAS SHALL BE:
 - A. DUCTILE IRON WITH FIELD LOCK GASKETS POLYWRAPPED TO GCDPW SPECIFICATIONS OR
 - B. DUCTILE IRON IN A STEEL CASING WITH CASING SPACERS.

 THE STEEL CASING OR D.I.P. SHALL EXTEND A MINIMUM OF 3 LF BEYOND THE BACK OF CURB.
- THE STEEL GROWN ON BINT STIME EXTENS A WINNINGWOOD SET SETONS THE BACK OF CORD.
- A. A PRESSURE TEST IN ACCORDANCE WITH GCDPW REQUIREMENTS WILL BE SCHEDULED BY THE ENGINEER AND WITNESSED BY GCDPW AND THE ENGINEER.

8. UPON COMPLETION OF CONSTRUCTION OF THE WATER SYSTEM, THE APPROVAL PROCEDURE SHALL BE AS FOLLOWS:

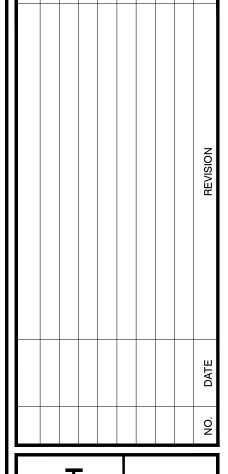
- B. AFTER A PASSING PRESSURE TEST, THE CONTRACTOR SHALL TAKE REQUIRED SAMPLES FOR BACTERIAL TESTING.
- C. A COMPLETE WATER SYSTEM AS-BUILT DRAWING IN A FORMAT ACCEPTABLE TO GCDPW SHALL BE PROVIDED FOR FINAL
- D. ANY DEFICIENCIES WILL BE CORRECTED BY THE CONTRACTOR AND FINAL INSPECTION RESCHEDULED.
- 9. ALL VALVES AND FIRE HYDRANTS SHALL OPEN COUNTER-CLOCKWISE AS PER GCDPW REQUIREMENTS.
- 10. UNDER NO CIRCUMSTANCES SHALL VALVES OR FIRE HYDRANTS BE PLACED IN SIDEWALKS, CURB AND GUTTER OR
- ROADWAYS WITHOUT SPECIFIC WRITTEN APPROVAL FROM GCDPW.
- 11. FIRE HYDRANTS SHALL BE PLACED AS FAR AS PRACTICAL FROM THE ROADWAY (SEE DETAIL).











EXPANSION - SOUTH

GENERAL NOTES



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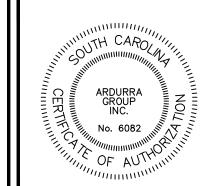
	EXISTING LE	EGEND:		A ARCHITECTURAL	
UNDERGROUND CABLE	CATV ♦	CL RR TRACK······	+++++++++++++++++++++++++++++++++++++++	C CIVIL CD CONSTRUCTION DETAILS	
TELEVISION MARKER CABLE TELEVISION UTILITY BOX	,	EXISTING TREE ······		EC SEDIMENT & EROSION CONTROL	
UNDERGROUND TELEPHONE	¥			D PROCESS	
CABLE ROUTE SIGN		EXISTING BUSH/SHRUB · · · · · · · · · · · · · · · · · · ·		E ELECTRICAL I INSTRUMENTATION	
TELEPHONE UTILITY BOX ······		EXISTING WATER METER ······	WV	L LANDSCAPE M MECHANICAL	
FIRE HYDRANT ······	FH ¢-	EXISTING WATER VALVE	\bowtie	P PLUMBING Q EQUIPMENT	
FIRE DEPARTMENT CONNECTION	FDC •	EXISTING GAS/UTILITY VALVE (AS INDICATED)	\bowtie	S STRUCTURAL V SURVEY	
UTILITY POLE ·····	UP C		TOP OF CURB — 8.22	V SURVEY	
LIGHT POLE ·····	LP 📐	TYPICAL ROADWAY SPOT	FLOWLINE OF CURB 7.90 EDGE OF PAVEMENT 7.91		
UTILITY & LIGHT POLE	ULP 🔯	ELEVATIONS (IF SHOWN)	TOP OF CURB ————————————————————————————————————	VIEW DESIGNATION:	
GUY POLE ·····	GP 🔎	TYPICAL GROUND SPOT ELEVATIONS	EDGE OF PAVEMENT7.90		
METER POLE ······	MP Ø	(IF SHOWN)	GROUND ELEVATIONS $\frac{6.3}{6.3_x}$	VIEW TITLE	
		CHAIN LINK FENCE	х	SCALE: X" = XXX'	
GUY WIRE ·····		MAIL BOX ······	MB ⊠		
ELECTRIC TRANSFORMER		FOUND IRON ROD (SIZE AND TYPE	F.I.R. ●		
ELECTRIC HAND-HOLE	OHH	AS INDICATED)	L.I.I.V.	SECTION CUT DESIGNATION:	
UNDERGROUND GAS LINE MARKER	UGG 😛	FOUND IRON PIPE (SIZE AND TYPE AS INDICATED)	F.I.P. ●		
TRAFFIC SIGN ······	TS 🕶	FOUND CONCRETE MONUMENT (SIZE	F.C.M.	X	
TRAFFIC SIGNAL UTILITY BOX	TSB 🗵	AND TYPE AS INDICATED)	I.O.IVI.	DETAIL REFERENCE X XX	
TRAFFIC SIGNAL UTILITY BOX	TSC	SANITARY SEWER PIPE · · · · · · · · · · · · · · · · · · ·	SAN	SHEET REFERENCE SECTION CU	T DIRECTION
TRAFFIC SIGNAL POLE		STORM PIPE ······	STM		
	` @\			DETAIL DESIGNATION:	
CONCRETE CURB INLETS		WATER PIPE ······		DETAIL DESIGNATION.	
		GAS PIPE ·····	——— GAS ———		
CONCRETE CURB INLETS		FORCEMAIN PIPE ······		$(X \times X)$	
		I ONGLEDATE I II E	-	DETAIL REFERENCE	
CONCRETE MITERED END SECTION		OVERHEAD UTILITY	——— OHW ———	SHEET REFERENCE	
CONCRETE FLARED END SECTION		UNDERGROUND CABLE ······	———— UGC ————	X (=)	
GRATE INLET ······		(TV,FIBER OR TELEPHONE)		DETAIL REFERENCE INDICATES DETAIL OR SECTION	
STORM SEWER CLEANOUT	DCO_	BURIED ELECTRIC ······	—— ве ——	IS SHOWN ON THE SAME SHEET	
SANITARY SEWER MANHOLE		WETLAND LINE			
STORM MANHOLE		SETBACK LINE			
COMBINED STM/SAN MANHOLE		FEMA FLOOD ZONE LINE			
TELEPHONE MANHOLE					
CONTOUR LINE · · · · · · · · · · · · · · · · · · ·	7——				
PROPERTY LINE · · · · · · · · · · · · · · · · · · ·					
TOP OF BANK ······	·				
CL ROAD······					

PROPOSED LEGEND:

SANITARY SEWER PIPE · · · · · · · · · · · · · · · · · · ·	SAN	SANITARY SEWER MH····································
STORM PIPE · · · · · · · · · · · · · · · · · · ·	STM	STORM MH
WATER PIPE · · · · · · · · · · · · · · · · · · ·		EXISTING TREE TO BE REMOVED ····································
FORCEMAIN PIPE · · · · · · · · · · · · · · · · · · ·	──	DIRECTION OF SLOPE
SPOT ELEVATIONS	× 27.5	UTLITY CAP
SWALE	⋖ ─#	SIGN
DIRECTION OF FLOW	•	STREET SIGN
TOP OF BANK		WHEELSTOP
STORM SEWER	XXX LF OF XX" RCP @ X.XX%	HANDICAP SPACE
STORM SEWER INLET		BARRICADE
FLARED/MITERED END SECTION	———	TEMPORARY BARRICADE
SANITARY SEWER SERVICE		AIR RELEASE VALVE
REDUCER	—	BLOW-OFF ASSEMBLY
GATE VALVE	———	SEASONAL HIGH ELEVATION 68.8
WATER MAIN SERVICE	(SINGLE)	BORING NUMBER RB-35
CONSTRUCTION BLOW-OFF	•	WETLAND SHW/NP LOCATION G14 SHW 69.28
FIRE HYDRANT ASSEMBLY		' NP 68.92
RECLAIMED WATER MAIN	RCW	SEASONAL HIGH WATER ELEVATION $\frac{\nabla}{-}$ AB-1 84.25
	(SINGLE)	(PROFILE VIEW) CONTOUR LINE (MAJOR) 10
RECLAIMED WATER SERVICE		CONTOUR LINE (MINOR)
OVERHEAD UTILITY	—— OHW ———	
FIBER OPTIC	BFO —	WETLAND LINE — — —
RAW WATER MAIN		SETBACK LINE
GAS LINE	——— GAS ————————————————————————————————	BUFFER LINE
CABLE TV · · · · · · · · · · · · · · · · · ·	CTV CTV	EASEMENT LINE
ELECTRIC LINE	ELCELC	CENTERLINE
PHONE LINE	TEL	PHASE LINE
EXTERIOR BUILDING WALL		TREE BARRICADE ····································
SILT FENCE ·····		FENCE LINE 0————0
		LIMITS OF CONSTRUCTION ·······

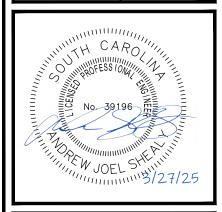
HATCH DESCRIPTION:

CONCRETE LIMITS ······		GRAVEL LIMITS	
WETLAND LIMITS	\(\psi \psi \psi \psi \psi \qquad \qq \qu	PERMANENT GRASSING	
WETLAND BUFFER IMPACT AREA		REMOVAL HATCH	
WETLAND BUFFER EXPANSION AREA		SALVAGE HATCH ······	
WETLAND IMPACT			





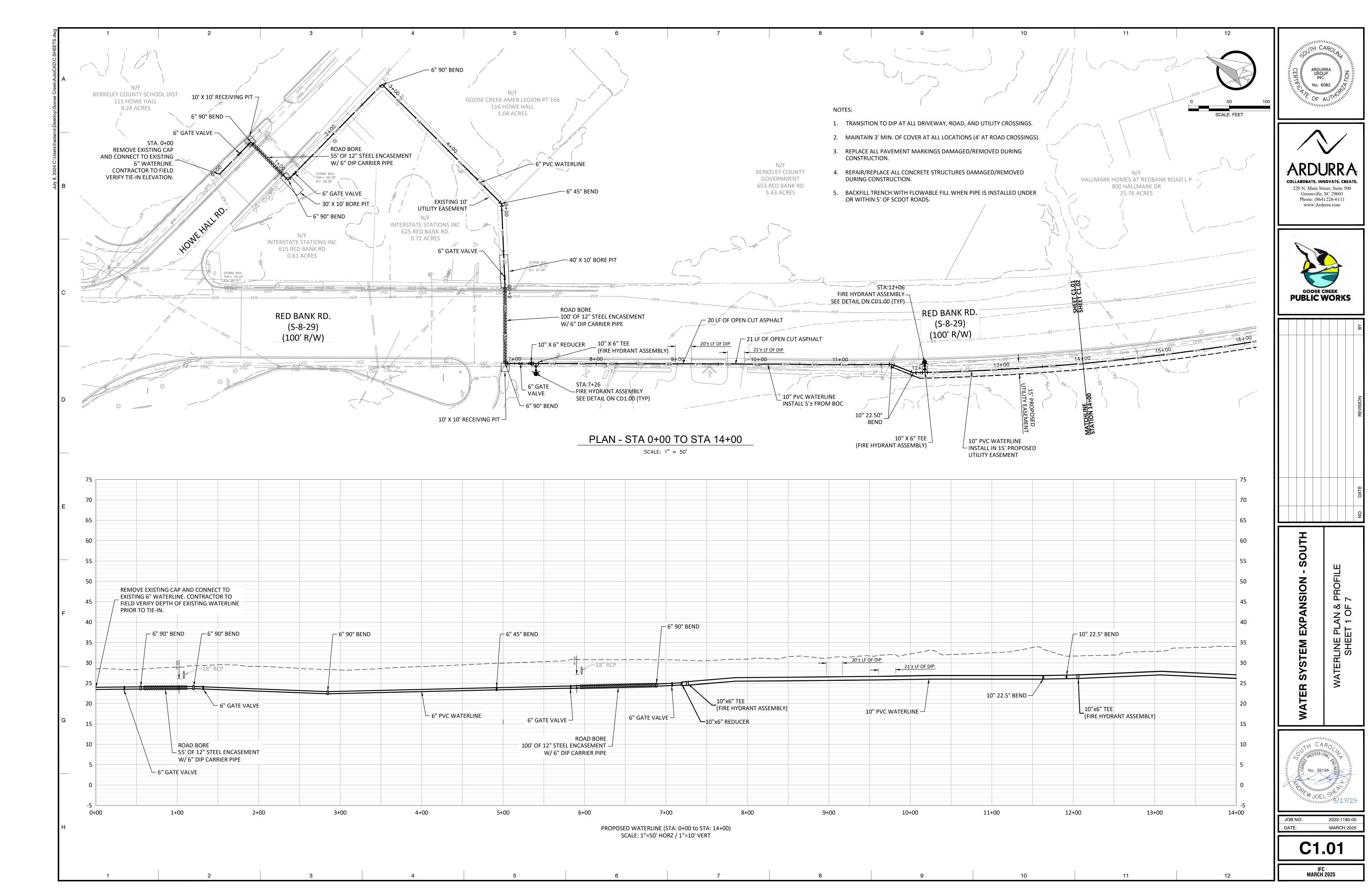


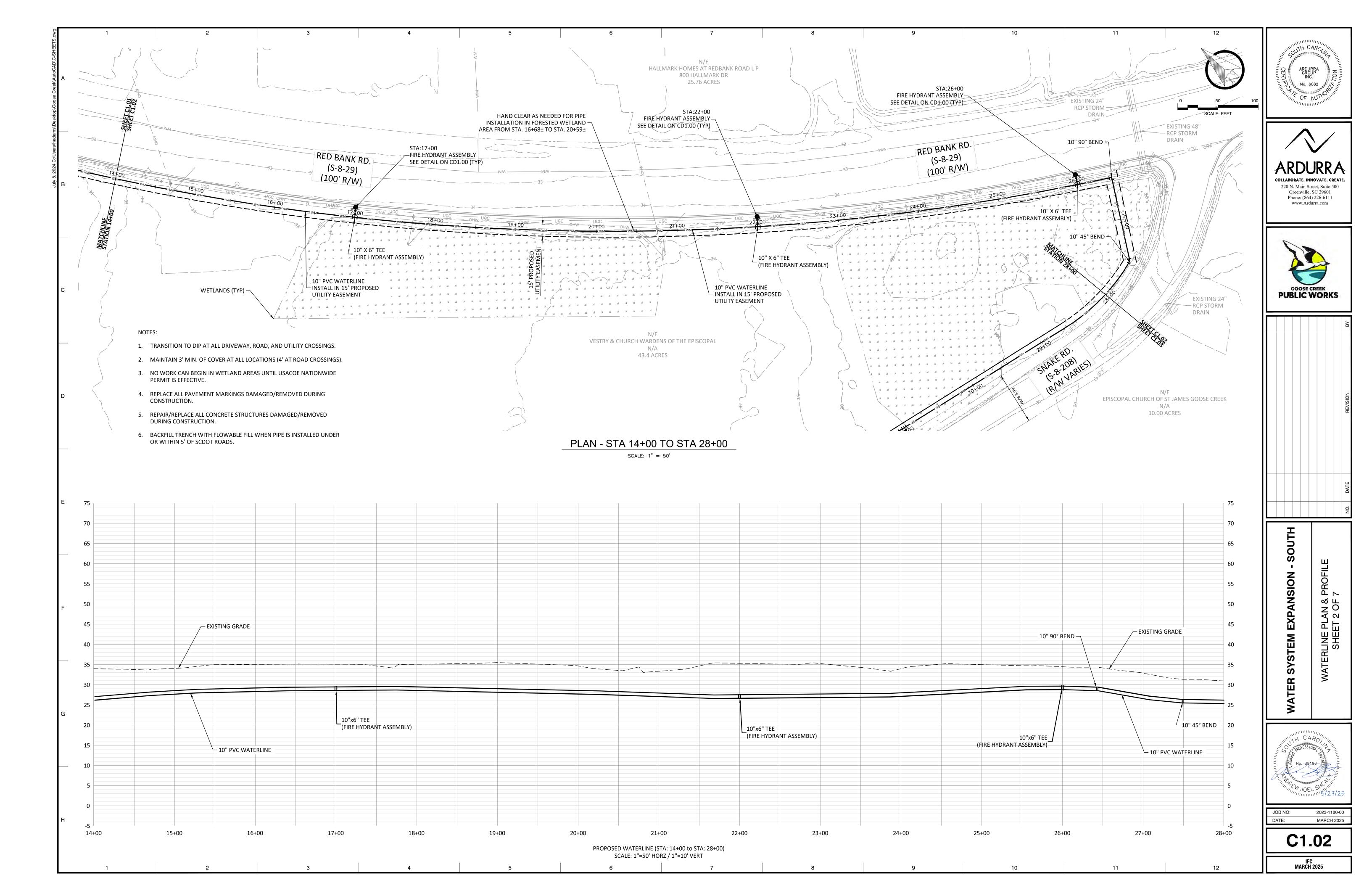


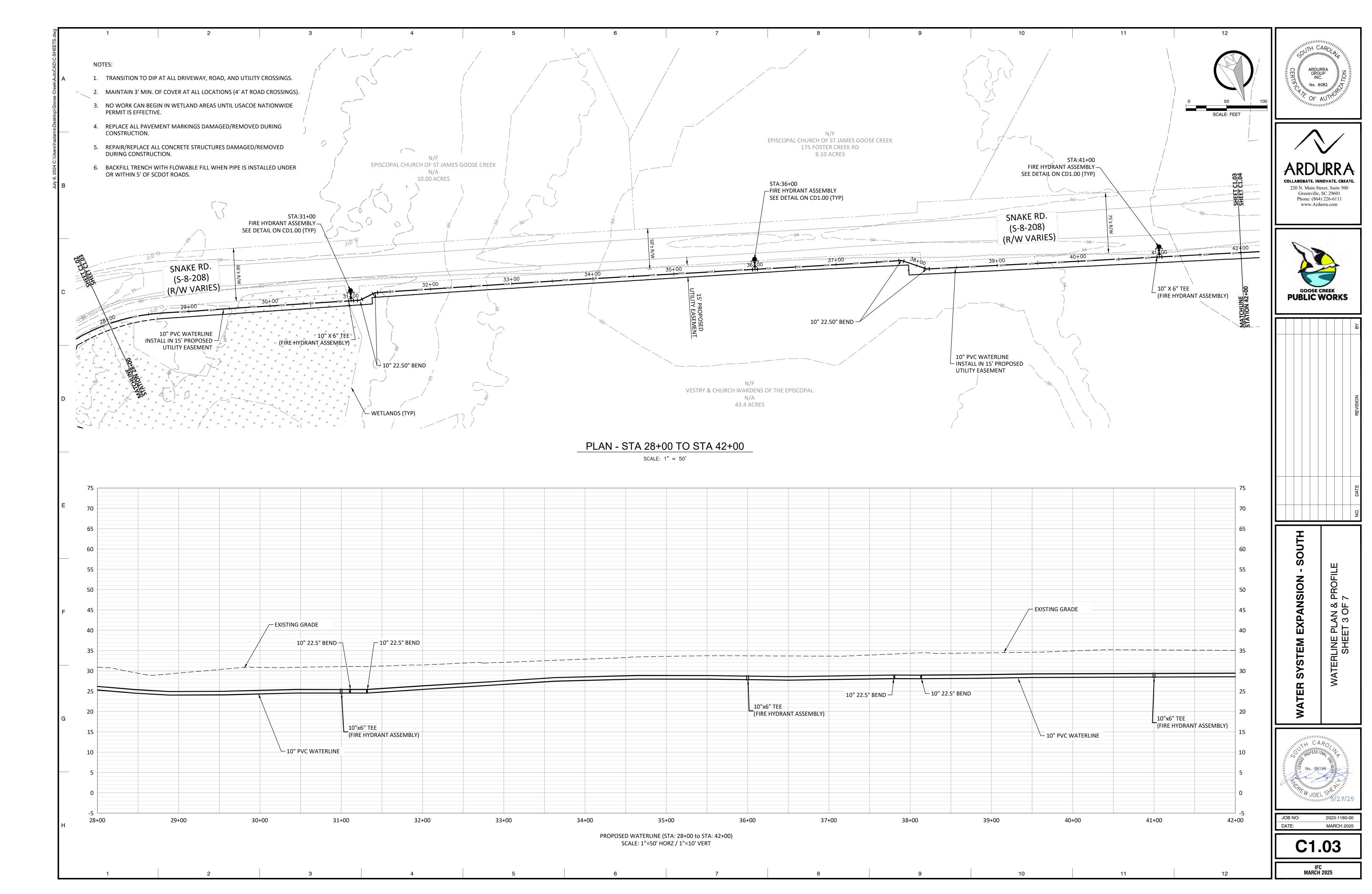
JOB NO: 2023-1180-00
DATE: MARCH 2025

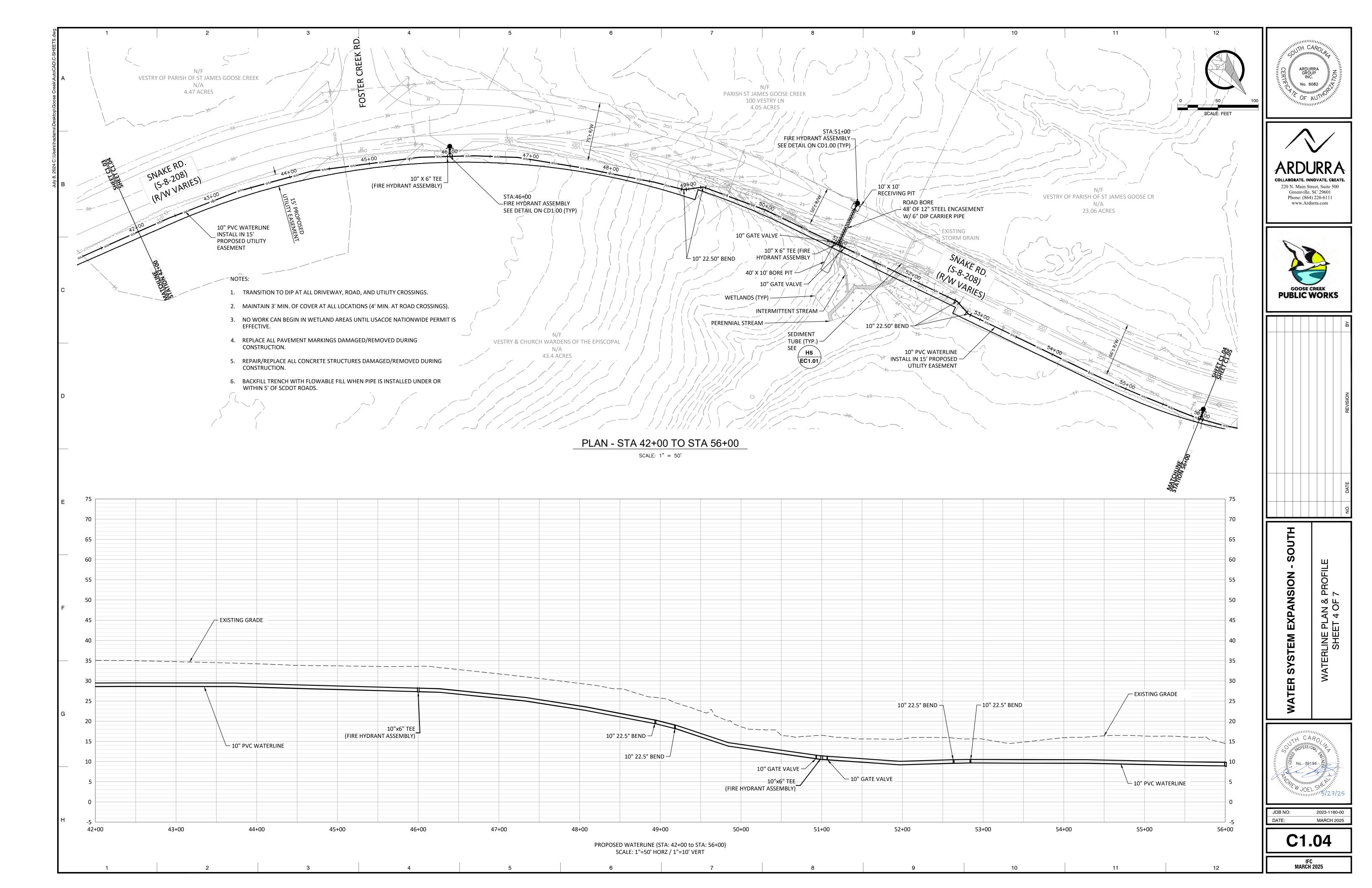
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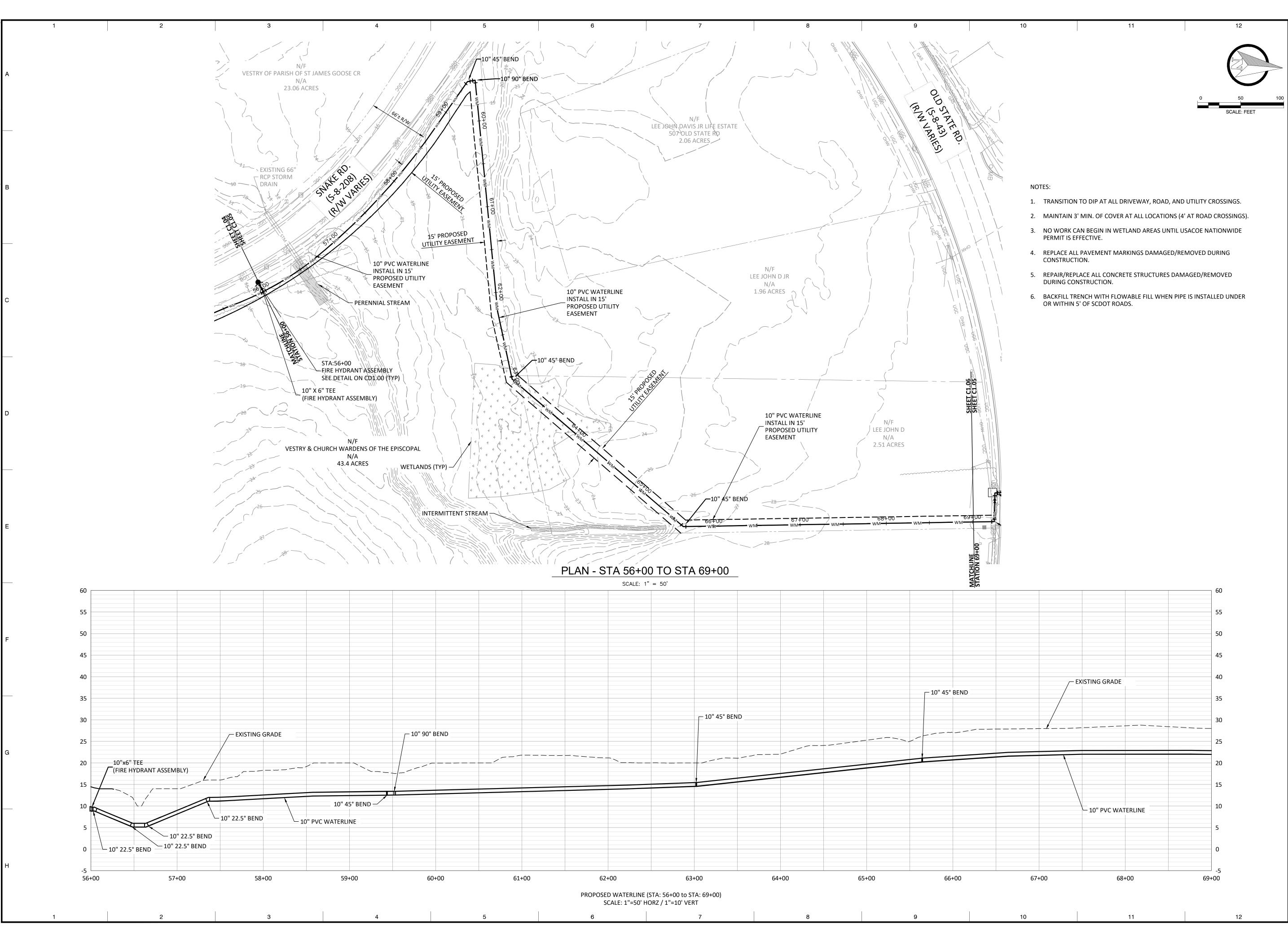








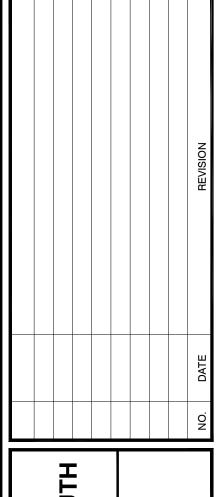










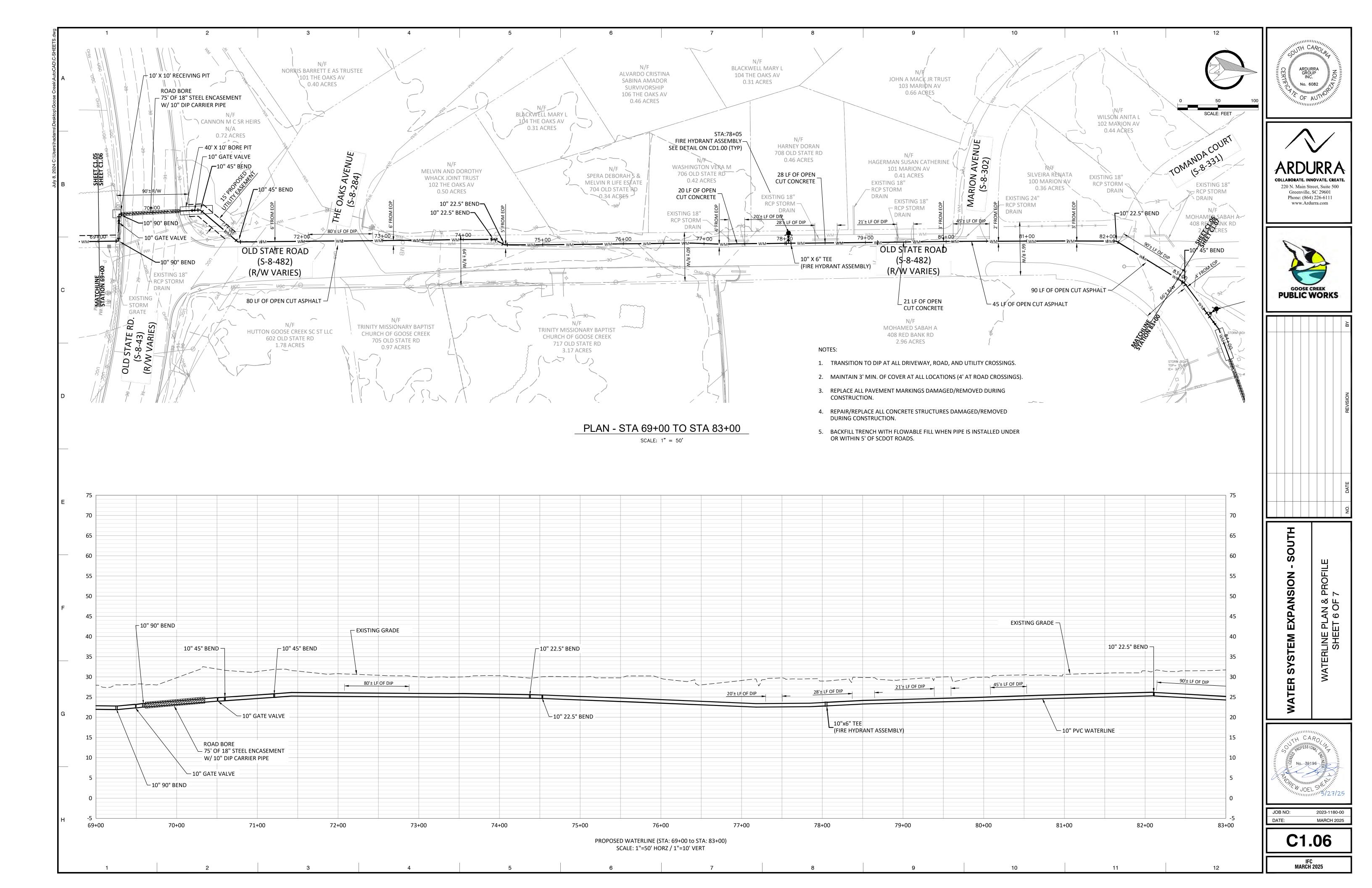


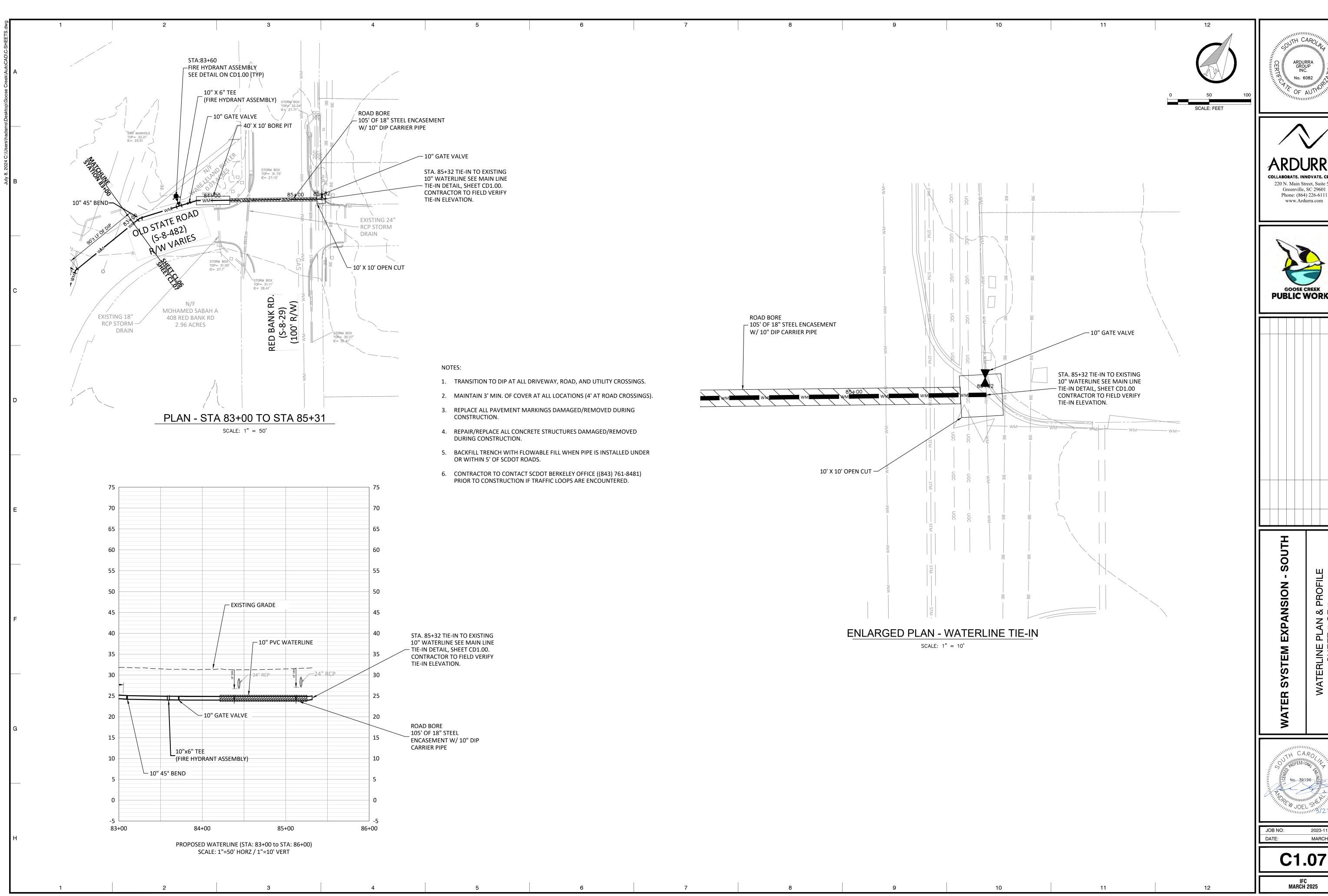
WATERLINE PLAN & PROFILE SHEET 5 OF 7



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DATE: MARCH 202

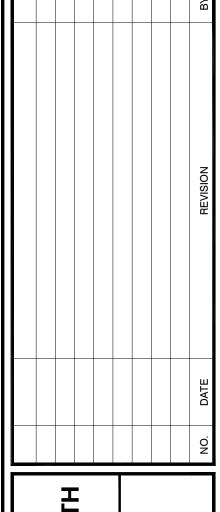
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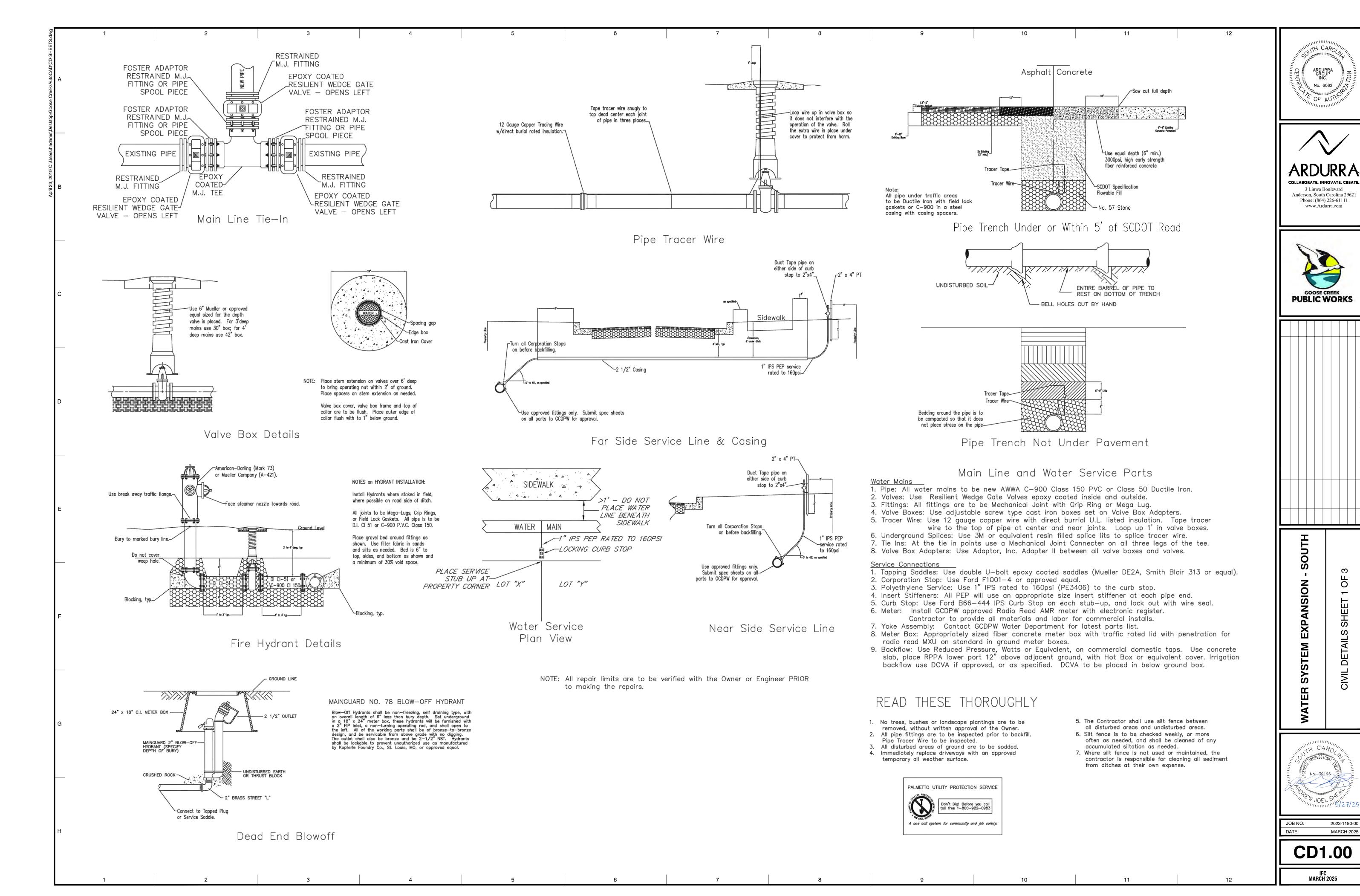


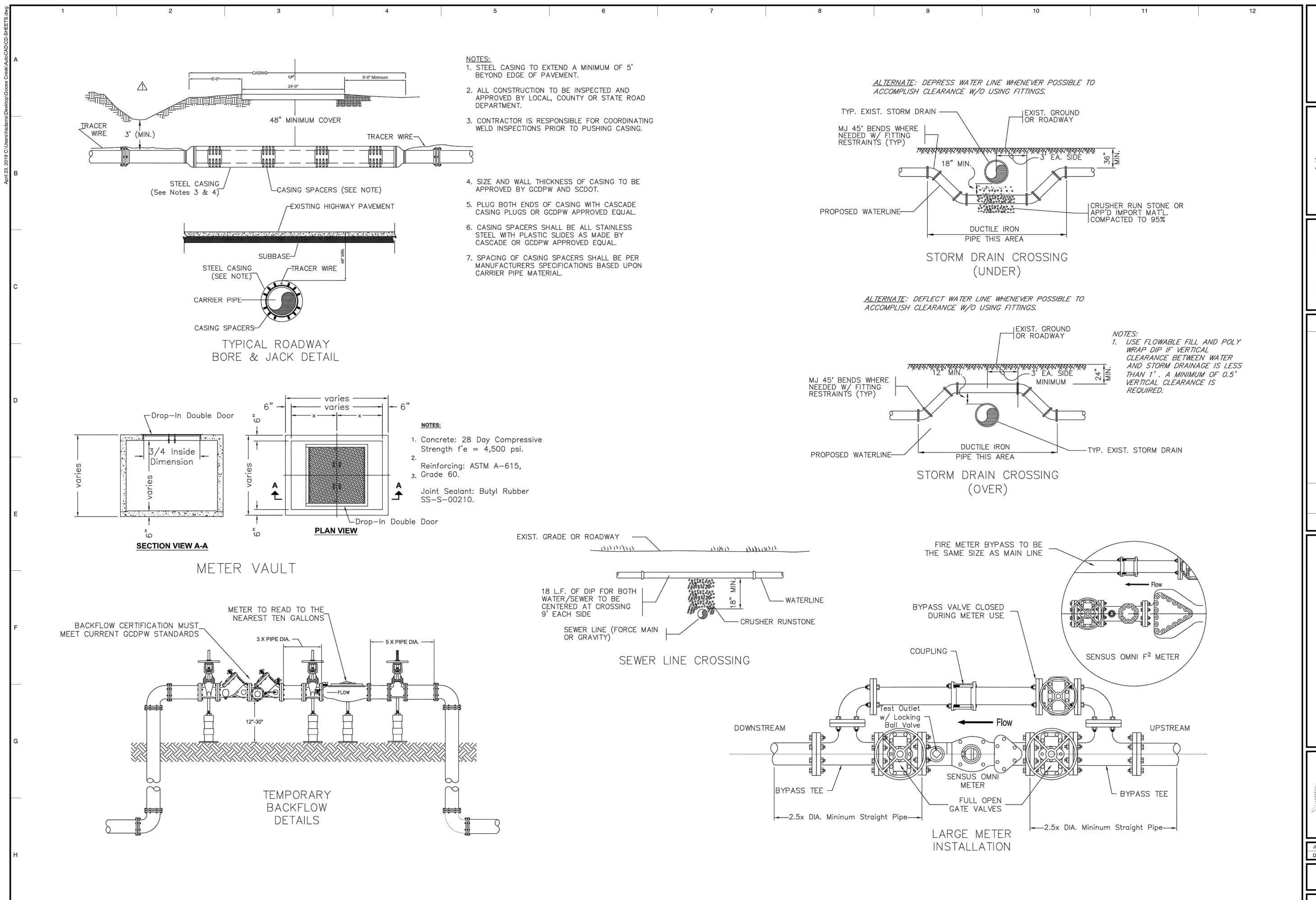
PROFILE 7 WATERLINE PLAN & SHEET 7 OF



MARCH 2025

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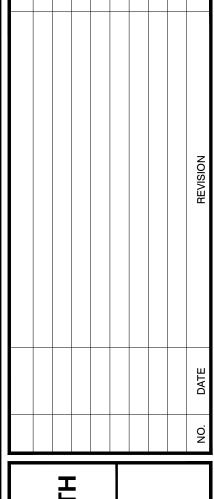












ATER SYSTEM EXPANSION - SOUT



JOB NO: 2023-1180-00
DATE: MARCH 2025

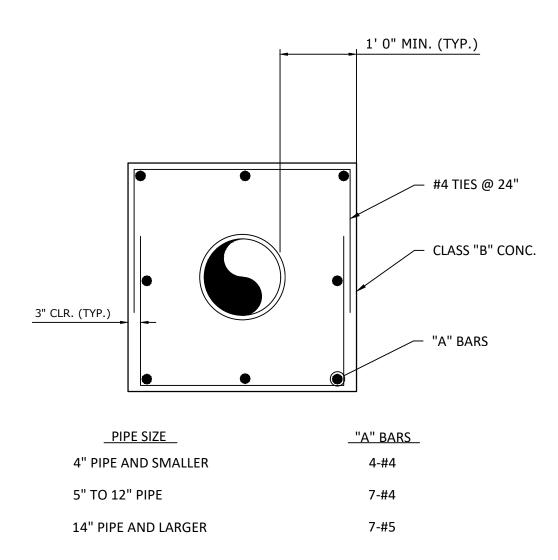
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THRUST RESTRAINT NOTES

- 1. CONTRACTOR IS RESPONSIBLE FOR PROPER APPLICATION OF THRUST RESTRAINT SYSTEM TO PREVENT MOVEMENT OF PIPE AND FITTINGS.
- 2. SYSTEM SHOWN IS DESIGNED FOR 150 P.S.I. PRESSURE, 3 FT. COVER, AND SOIL BEARING CAPACITY OF 2000 P.S.F. MINIMUM. WHERE THIS SYSTEM IS INAPPROPRIATE BECAUSE OF UNSTABLE SOIL OR OTHER CONDITIONS, SUBMIT DETAILS OF ALTERNATE SYSTEM TO ENGINEER FOR APPROVAL.
- 3. UNLESS NOTED OTHERWISE, USE RESTRAINED JOINT SYSTEM FOR ALL FITTINGS IN THE HORIZONTAL PLANE. USE THRUST BLOCKS ONLY IN SPECIFIC AREAS AS SHOWN IN DETAILS, OR AT LOCATIONS AS SHOWN ON THE DRAWINGS.
- 4. WHERE ONE END OF TEE IS PLUGGED, USE "DEAD END" THRUST BLOCK AT PLUG AND BEHIND TEE, OR USE "DEAD END" RESTRAINED JOINT SYSTEM ON BRANCH AND CONNECTED END OF TEE.
- 5. TIE RODS TO BE HOT-DIP GALV. AFTER FABRICATION COMPLETELY COAT EXPOSED BARS AFTER INSTALLATION WITH TWO COATS OF BITUMINOUS MASTIC.
- 6. THRUST BLOCKS SHALL BE FORMED AND POURED IN PLACE. SLAPDASH PLACEMENT OF CONCRETE AROUND NUTS, BOLTS, AND OTHER ACCESSORIES WILL NOT BE PERMITTED.

THRUST RESTRAINT NOTES

SCALE: N.T.S.



PIPE ENCASEMENT DETAIL

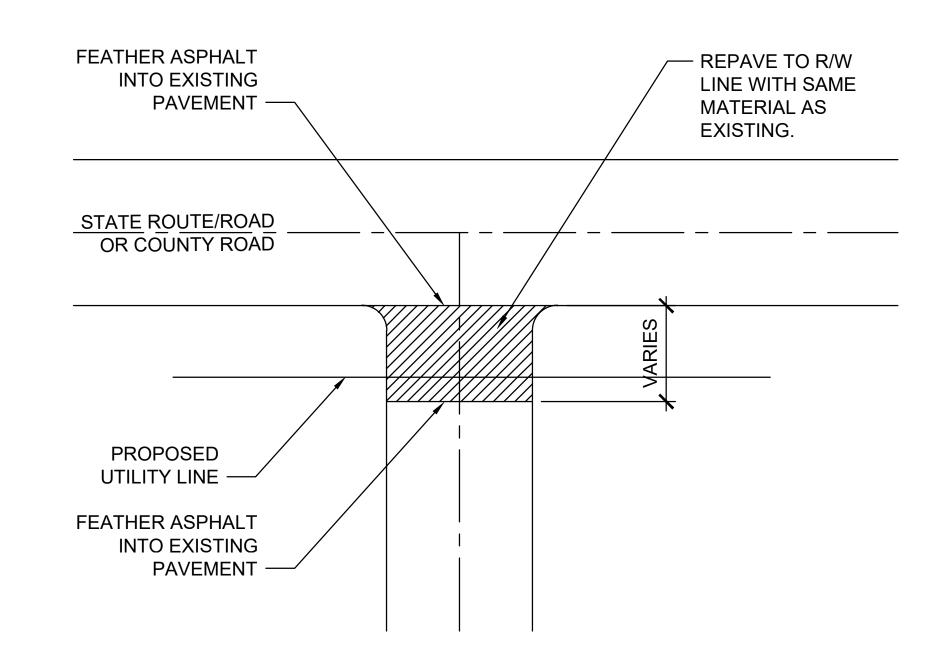
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H5

150 PSI TEST PRESSURE FOR DUCTILE IRON AND PVC LENGTH OF PIPE TO BE SIDE OF FITTING TO BE RESTRAINED (FT) FITTING RESTRAINED 28 6" - 90-DEG BEND BOTH 6" - 45-DEG BEND 12 BOTH 6" - 22.5-DEG BEND BOTH 6" - GATE VALVE 53 **UPSTREAM SIDE** 10" X 6" REDUCER 53 LARGER SIDE 10" 90-DEG BEND 43 BOTH 10" 45-DEG BEND 18 BOTH 10" - 22.5-DEG BEND BOTH 10" - 22.5-DEG BEND 25 BOTH VERTICAL 10" - 11.25-DEG BEND BOTH 86 **UPSTREAM SIDE** 10" - GATE VALVE

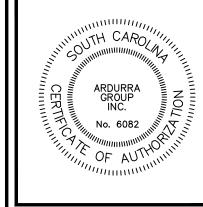
NOTES:

- 1. PROVIDE RESTRAINED JOINT PIPING FOR DISTANCES ABOVE, UNLESS INDICATED OTHERWISE ON DRAWING.
- 2. PROVIDE PVC WATER PIPE WITH EXTERNAL BELL CLAMPS.
- 3. REFER TO SECTIONS 33 11 13.13 AND 33 11 13.23 OF THE SPECIFICATIONS.



INTERSECTION/DRIVEWAY RESTORATION









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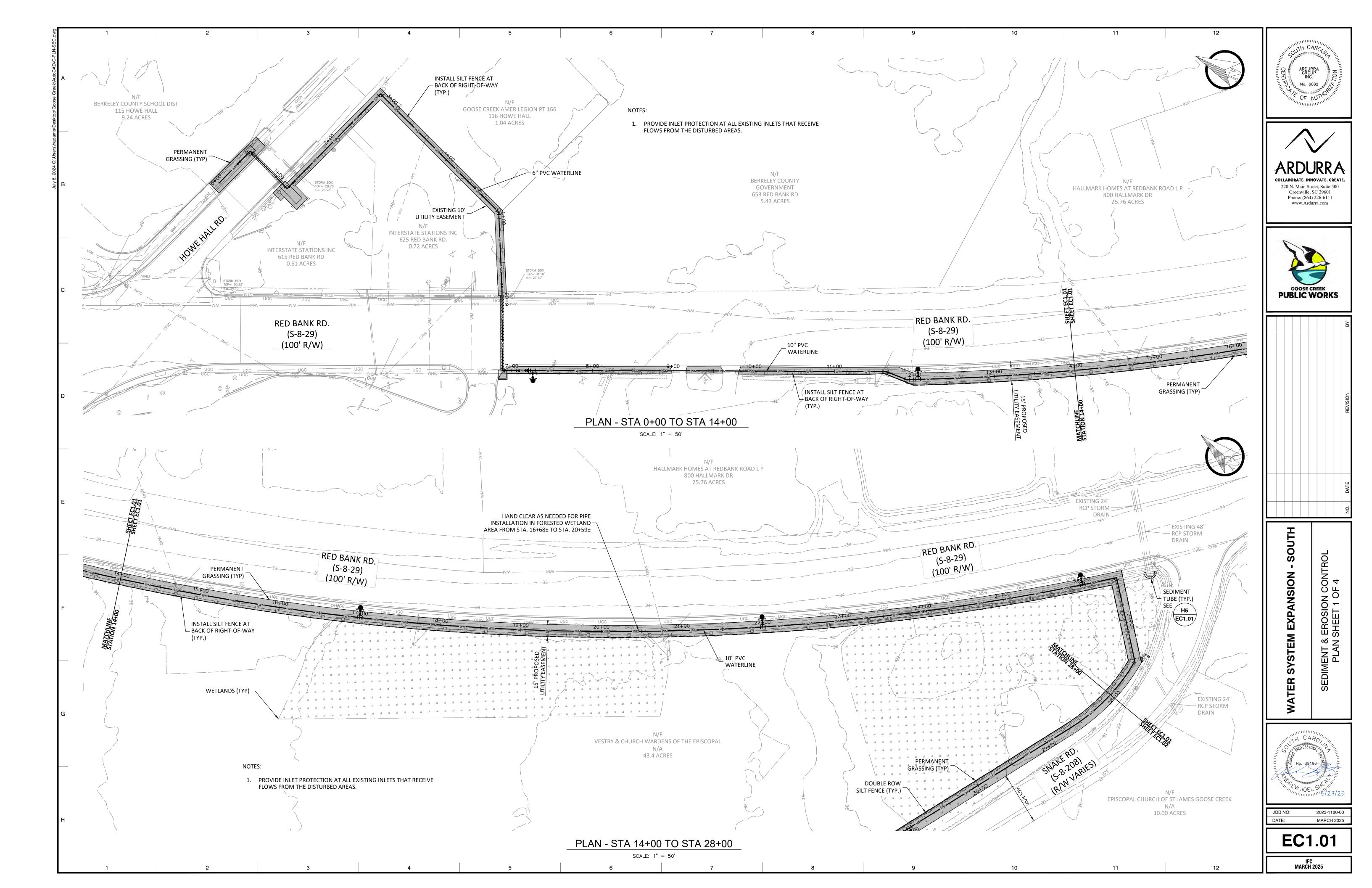
WATER SYSTEM EXPANSION - SOUTI

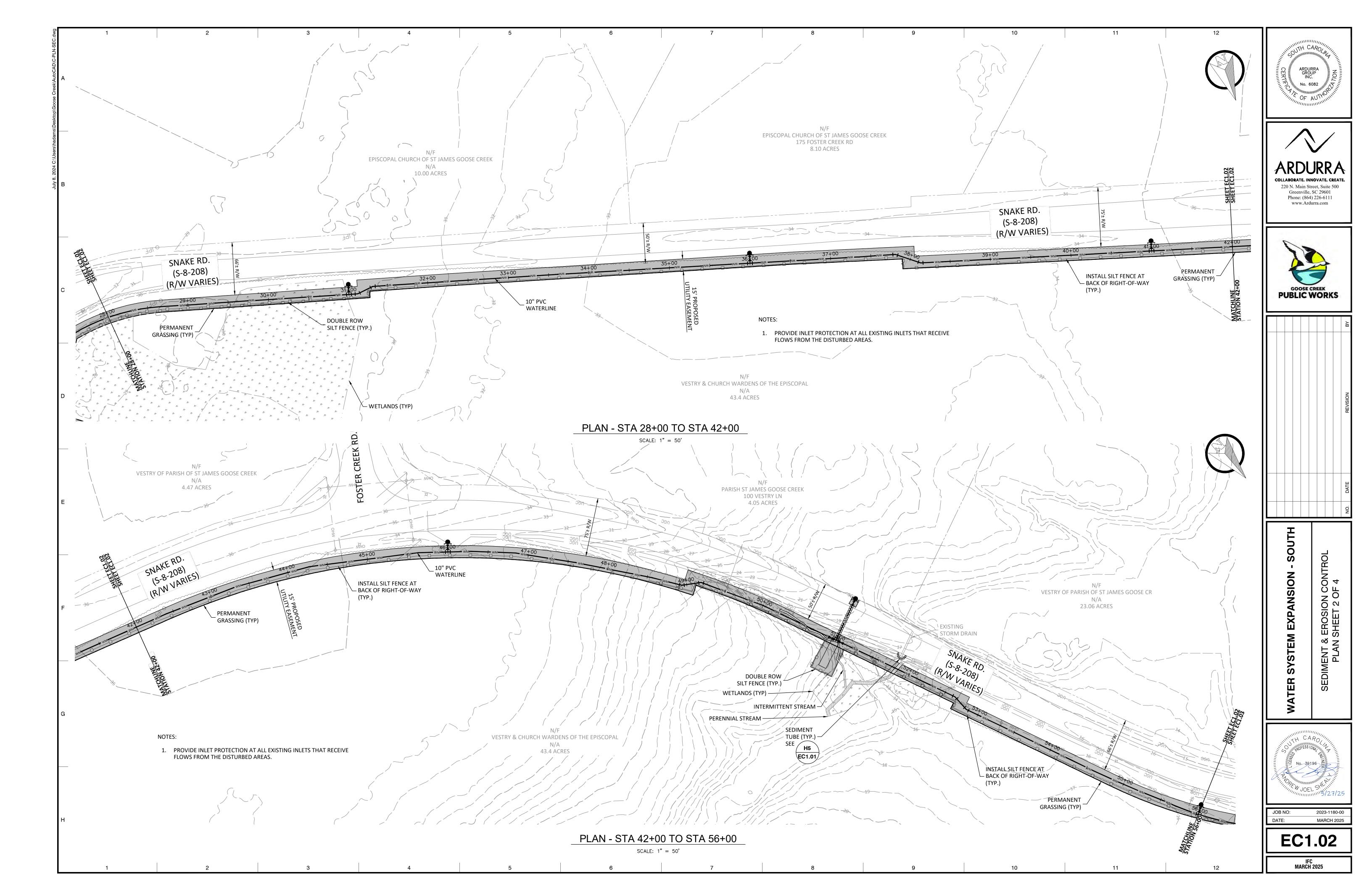


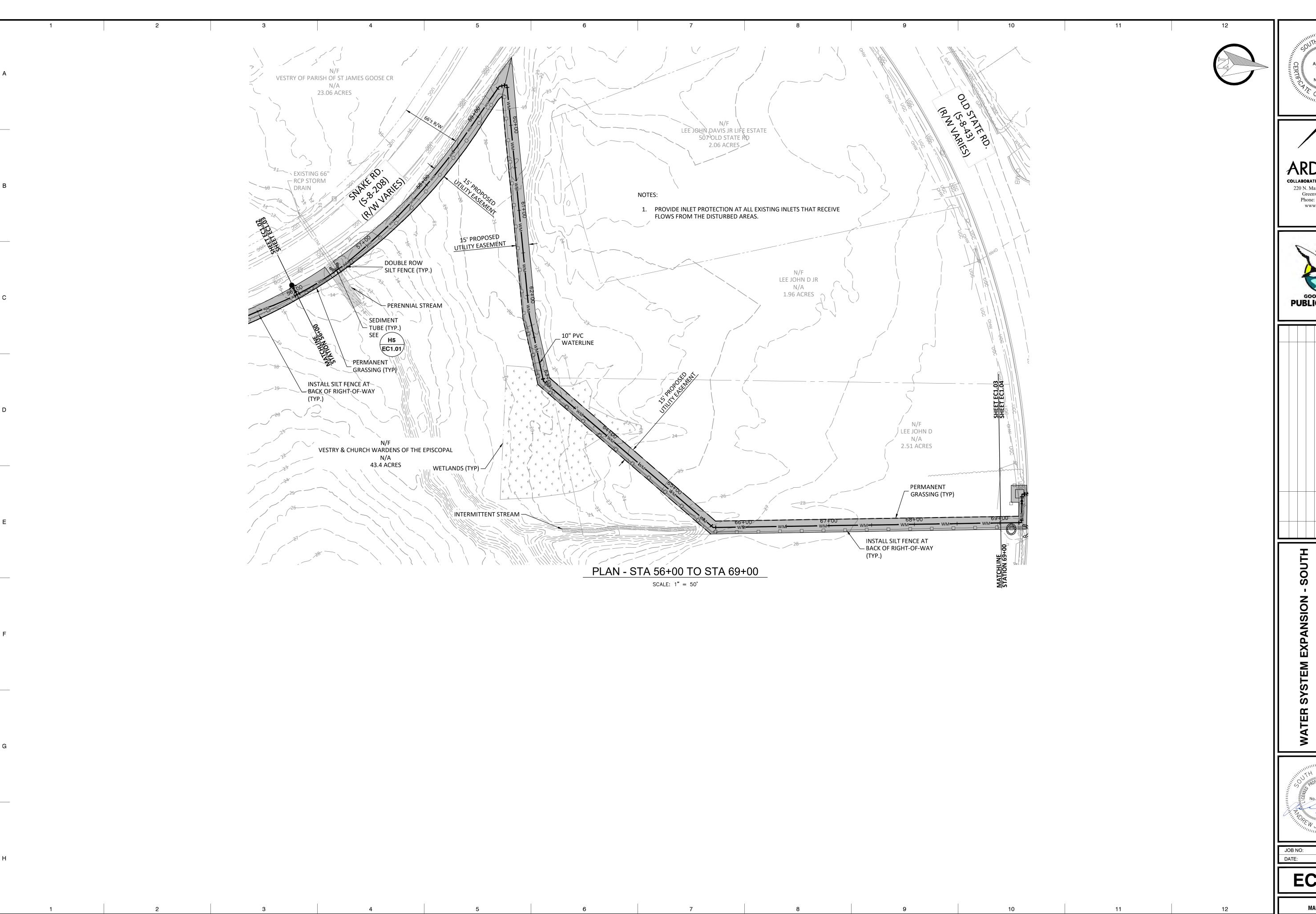
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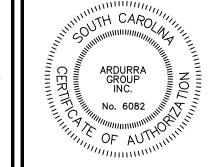
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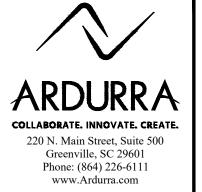
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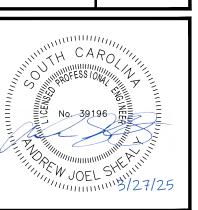






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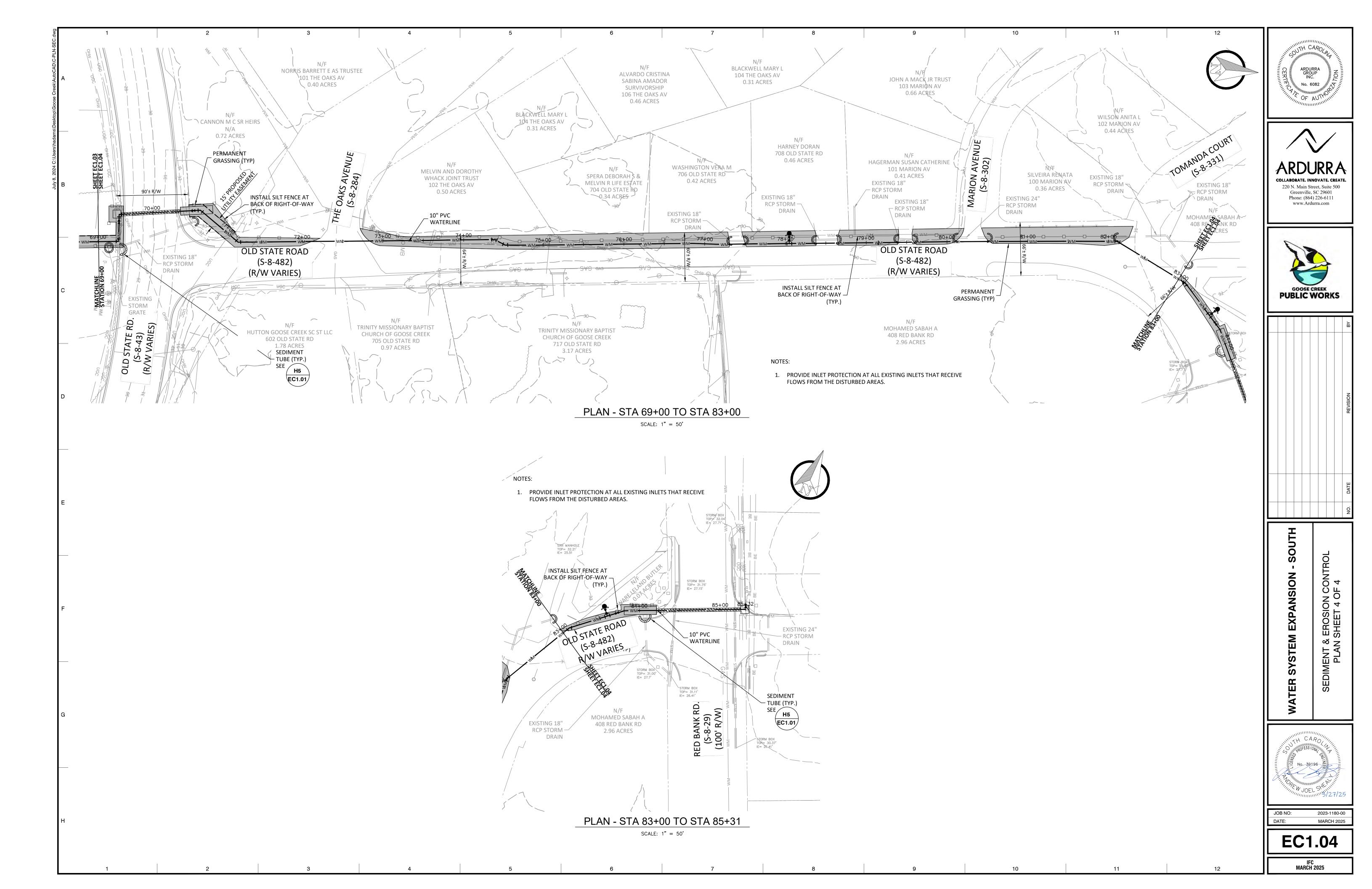
EK SYSTEM EXPANSION - SOUT SEDIMENT & EROSION CONTROL PLAN SHEET 3 OF 4



JOB NO: 2023-1180-00

DATE: MARCH 2025

EC1.03



SCDES SEDIMENT AND EROSION CONTROL NOTES

- 1. IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- 2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR; FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE, OR WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- 3. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS, AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. IT IS RECOMMENDED THAT BMPS BE ASSESSED BY THE CONTRACTOR WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 1.0 INCH OR GREATER, AS WELL AS DURING THE FIRST RAIN EVENT AFTER THE INITIATION OF CONSTRUCTION ACTIVITIES, AFTER THE INSTALLATION OF BMPS. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY CONSTRUCTED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- 4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- 5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFF SITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- 6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- 7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR100000.
- 8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- 9. ALL WATERS OF THE STATE (WoS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 30-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WoS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WoS.
- 10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- 11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- 12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- 13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- 15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMP'S (SEDIMENT BASIN, FILTER BAG, ETC.).
- 16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED: WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL; WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FROM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS; FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

"I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. FURTHER, I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET. SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000."

- 17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK NOT TO EXCEED NINE (9) DAYS AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE AS DESCRIBED IN THE PERMIT.
- 18. IF EXISTING BMPS NEED TO MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- 19. A PRE-CONSTURCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
- 20. CONTRACTORS ARE REQUIRED TO HAVE RAIN GAUGES AT THE CONSTRUCTION SITE AND THE RAIN TOTALS DOCUMENTED FOR REVIEW BY BERKELEY COUNTY AND SCDES.
- 21. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD WITH BERKELEY COUNTY AT LEAST 48 HOURS PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES. THE OWNER, DESIGN ENGINEER AND CONTRACTOR MUST BE PRESENT AND HAVE OBTAINED THE STORMWATER PERMIT, STAMPED APPROVED PLANS AND THE N.O.I APPROVAL LETTER FROM SCDES BEFORE SCHEDULING THIS MEETING.

CONSTRUCTION NOTES:

- 1. ALL UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATIONS. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY AND ALL UTILITIES DAMAGED DUE TO CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 2. FOR CLARITY, MULTIPLE UTILITIES OF THE SAME TYPE MAY APPEAR AS ONE LINE. UTILITIES MAY ALSO APPEAR CLOSER GRAPHICALLY THAN THEY ARE IN THE FIELD.
- 3. EXISTING FENCES IN CONSTRUCTION AREA SHALL BE TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTALLED AFTER WORK IS COMPLETE.
- 4. ALL CONSTRUCTION ACTIVITIES WHICH HAVE DAMAGED OR OTHERWISE ALTERED ROADWAYS, DRIVEWAYS, SIGNS, MAILBOXES OR OTHER IMPROVEMENTS ON PUBLIC OR PRIVATE PROPERTY, SHALL BE RESTORED TO CONDITIONS EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO BEGINNING WORK.
- 5. ALL TREES AND UNDERGROWTH THAT ARE CLEARED SHALL BE LEGALLY DISPOSED OF OFF OWNER'S PROPERTY. BURNING OF REFUSE MATERIALS IS PROHIBITED.

DNR CONSTRUCTION NOTES:

- 1. MAINTAIN A 30-FOOT BUFFER FROM ADJACENT STREAMS AND WETLANDS OUTSIDE THE CONSTRUCTION CORRIDOR.
- 2. PRIOR TO BEGINNING LAND DISTURBING ACTIVITY, PLACE APPROPRIATE EROSION CONTROL MEASURES, SUCH AS SILT FENCES, SILT BARRIERS, OR OTHER DEVICES BETWEEN THE DISTURBED AREA AND THE AFFECTED WATERWAY OR WETLAND. MAINTAIN EROSION CONTROL DEVICES IN A FUNCTIONING CAPACITY UNTIL THE AREA IS PERMANENTLY STABILIZED.
- 3. DURING CONSTRUCTION, AVOID ENCROACHMENT INTO WETLAND AREAS OUTSIDE THE CONSTRUCTION CORRIDOR. INSTALL STREAM CROSSINGS PERPENDICULAR WITH THE NATURAL STREAM CHANNEL. PLACE SIDECAST SPOIL MATERIAL FROM TRENCH EXCAVATION ON THE SIDE OF THE TRENCH AWAY FROM STREAMS AND WETLANDS. UTILIZE THIS SAME MATERIAL AS BACKFILL, WITH THE A-HORIZON SOIL PLACED BACK IN ITS ORIGINAL POSITION. REMOVE EXCESS SPOIL MATERIAL TO AN APPROVED UPLAND DISPOSAL SITE.
- 4. EXERCISE NECESSARY PRECAUTIONS TO PREVENT OIL, TAR, TRASH, AND OTHER POLLUTANTS FROM ENTERING THE ADJACENT OFFSITE AREAS.
- 5. ONCE THE PROJECT IS INITIATED, CARRY THE CONSTRUCTION TO COMPLETION IN AN EXPEDITIOUS MANNER IN ORDER TO MINIMIZE THE PERIOD OF DISTURBANCE TO THE ENVIRONMENT.
- 6. UPON COMPLETION, RESTORE GROUND SURFACE ALONG PIPELINES TO PRE-CONSTRUCTION CONTOURS. PERMANENTLY STABILIZE DISTURBED AREAS WITH PERENNIAL VEGETATIVE COVER.

TEMPORARY GRASSING SCHEDULE

SCHEDULE	COMMON NAME OF SEED	LBS./ACRE	DATES
NO. 1	BROWN TOP MILLET	40	MARCH 10 - AUGUST 30
NO. 2	RYE GRAIN	56	AUGUST 30 - MARCH15
	GRASSING SCHEDULE		
SCHEDULE	COMMON NAME OF SEED	LBS./ACRE	DATES
NO. 1	SERICEA LESPEDEZA BERMUDA COMMON (HULLED) BROWN TOP MILLET	10 12 10	MARCH 15- AUGUST 30
NO. 2	SERICEA LESPEDEZA PENSACOLA BAHIA RYE GRAIN	5 40 10	AUGUST 30 - NOVEMBER 15

LIME APPLY AGRICULTURAL GRADE, GROUND LIMESTONE CONFORMING
TO THE REQUIREMENTS OF THE SOUTH CAROLINA DEPARTMENT
OF AGRICULTURE AT A RATE OF NOT LESS THAN 3,000 POUNDS PER

FERTILIZER SPREAD 10-10-10 FERTILIZER WITH MINOR ELEMENTS UNIFORMLY
AT A RATE OF NOT LESS THAN 1,000 POUNDS PER ACRE FOR PERMANENT
GRASSING AND 500 POUNDS PER ACRE FOR TEMPORARY GRASSING.

MULCH APPLY MULCH MATERIAL AS SPECIFIED UNIFORMLY OVER THE DISTURBED AREA AT THE RATE OF 2 TONS PER ACRE.

CONSTRUCTION SEQUENCE:

- 1. PROVIDE NOTIFICATION TO THE OWNER AND SCDOT 48 HOURS BEFORE BEGINNING WORK CONDUCT PRE-CONSTRUCTION MEETING ONSITE AS APPROPRIATE.
- 2. INSTALL SILT FENCES AS NECESSARY TO PREVENT SEDIMENT TRANSPORT ONTO ADJACENT PROPERTIES, WITH TIE BACKS SPACED ACCORDING TO STANDARD NOTES
- 3. INSTALL AND MAINTAIN ROCK DITCH CHECKS WHERE APPLICABLE.
- 4. INSTALL DIVERSION DITCHES TO CHANNEL SEDIMENT TO ROCK DITCH CHECKS AND SEDIMENT TRAPS AS REQUIRED.
- 5. STRIP AND STOCKPILE TOPSOIL WHERE SHOWN ON THE PLANS.
- 6. PERFORM EARTHWORK FOR FACILITIES AS INDICATED ON THE DRAWINGS.
- 7. ALL AREAS DISTURBED BY CONSTRUCTION MUST RECEIVE PERMANENT GRASSING WITHIN 14 DAYS AFTER CONSTRUCTIONS OPERATIONS CEASE.
- 8. SEED AND MULCH ALL DISTURBED AREAS.
- 9. INSPECT AND MAINTAIN EROSION CONTROL STRUCTURES AS SPECIFIED IN THE SWPPP AND IN ACCORDANCE WITH THE DETAILS. CONDUCT WEEKLY INSPECTIONS AS DESCRIBED IN THE PERMIT.
- 10. PROVIDE TEMPORARY SEEDING AND MULCHING IF WORK IN A GIVEN AREA IS TO BE DELAYED FOR MORE THAN 14 DAYS.
- 11. REMOVE CONTROL DEVICES WHEN PERMANENT GRASS COVERAGE IS ACHIEVED. SUBMIT NOTICE OF TERMINATION (NOT) TO SCDES AS APPROPRIATE.

STANDARD NOTES

- 1. WEEKLY EROSION CONTROL / STORMWATER POLLUTION PREVENTION INSPECTIONS MUST BE CONDUCTED BY A CERTIFIED CEPSCI INSPECTOR OR A QUALIFIED LICENSED PROFESSIONAL ENGINEER AS DESCRIBED IN THE PERMIT.
- 2. A PERMIT BOX WITH A RAIN GAUGE MUST BE INSTALLED AND KEPT ON SITE.
- 3. ALL CONTRACTORS, SUBCONTRACTORS, AND BUILDERS WHOSE ACTIVITIES MAY IMPACT STORMWATER DISCHARGES MUST BE AN AUTHORIZED OPERATOR.
- 4. ALL WORK ON HIGHWAY RIGHT OF WAY REQUIRES AN ENCROACHMENT PERMIT PRIOR TO CONDUCTING ANY WORK IN THE RIGHT OF WAY.
- 5. ALL SOIL STOCKPILES OR BORROW AREAS CONSTITUTE LAND DISTURBANCE AND ARE ALLOWED ONLY IN PERMITTED AREAS. COPIES OF PERMITS FOR OFFSITE BORROW, STOCKPILE OR FILL AREAS MUST BE OBTAINED BEFORE USE.
- 6. ALL EROSION CONTROLS FOR STOCKPILING OF DIRT SHALL COMPLY WITH SCDES STANDARDS. PERIMETER SILT FENCING MUST BE INSTALLED ON THE DOWNHILL SIDES OF THE STOCKPILE. SILT FENCING SHOULD BE OFFSET FROM THE TOE OF THE SLOPE ACCORDING TO THE FOLLOWING SCHEDULE:

	HEIGHT OF FILL	FILL SLOPE	MINIMUM OFFSET	MINIMUM RIGHT OF		
			FROM TOE OF SLOPE	WAY FROM TOE OF		
				SLOPE		
	(FEET)	(HOR:VERT)	(FEET)	(FEET)		
		2:1				
	<6	4:1	2	3		
		6:1				
		2:1	12	13		
	6 - 10	4:1	3	4		
		6:1	3	4		
		2:1	12	13		
	> 10	4:1	4	5		
		6:1	4	5		

IN ADDITION TO PERIMETER SILT FENCE INSTALLATION, AFTER 14 DAYS ALL SOIL STOCKPILES SHOULD BE PROPERLY TRACKED IN AND TEMPORARILY STABILIZED.

- 7. DUST MUST BE CONTAINED WITHIN THE SITE BOUNDARY. VEGETATIVE COVER AND PROPER APPLICATION OF MULCH OR WATER ARE ACCEPTABLE METHODS OF DUST CONTROL.
- 8. SILT FENCE TIE-BACKS, (J-HOOKS) ARE REQUIRED ON DOWNHILL SLOPES ACCORDING TO THE FOLLOWING SCHEDULE:
- 2% EVERY 100 FT. 3% - EVERY 100 FT. 4% - EVERY 50 FT.

5% - EVERY 50 FT.

- MUD TRACKED ONTO PUBLIC STREETS WILL BE REMOVED DAILY BY SWEEPING OR VACUUMING.
- 10. TEMPORARY SANITARY FACILITIES SHALL BE LOCATED ON A FLAT SURFACE AWAY FROM DRAINAGE FACILITIES, CATCH BASINS, WATERCOURSES AND TRAFFIC CIRCULATION. UPON DISCOVERY, ANY SPILLED MATERIAL SHALL BE CLEANED UP IMMEDIATELY. ALL COLLECTED MATERIAL, CONTAMINATED RAGS AND ABSORBENT MATERIALS SHALL BE DISPOSED OF APPROPRIATELY. LIME SHALL BE SPREAD ON THE CONTAMINATED AREA.
- 11. CONCRETE WASTE AND WASHOUT SHALL NOT BE ALLOWED TO DISCHARGE TO STORM DRAINS, DETENTION PONDS OR WATER COURSES. IT SHOULD BE COLLECTED IN A DEPRESSED BERMED AREA AND ALLOWED TO HARDEN IN ACCORDANCE WITH DETAIL D5, SHEET EC1.02.

- 12. SERVICE AND REFUEL MACHINERY IN UPLAND AREAS ON LEVEL SURFACE.
- 13. MAINTAIN TRASH AND REFUSE CONTAINERS ON SITE IN UPLAND AREAS FOR COLLECTION AND DISPOSAL OF CONSTRUCTION WASTE AND DEBRIS.
- 14. IF GROUNDWATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED THROUGH A DEWATERING BAG TO REMOVE

SEDIMENTS. SEE DETAIL D11, SHEET EC1.03.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

IN ORDER TO MINIMIZE EROSION AND SEDIMENTATION DURING

CONSTRUCTION, A COMPLETE EROSION AND SEDIMENT CONTROL PLAN WILL BE IMPLEMENTED TO INCLUDE THE CONTROL FACILITIES SHOWN ON THE PROJECT DRAWINGS, DESCRIBED IN THE PROJECT SPECIFICATIONS AND LISTED BELOW. THIS PLAN INCLUDES A CONSTRUCTION SEQUENCE, CONTINUAL MAINTENANCE OF EROSION AND SEDIMENT CONTROL DEVICES, A SEEDING AND STABILIZATION SCHEDULE, AS WELL AS WEEKLY INSPECTIONS. THE FACILITIES AND MEASURES IDENTIFIED BELOW WILL CONTROL THE DISCHARGE OF STORMWATER, MINIMIZE THE DISCHARGE OF SEDIMENT FROM THE SITE DURING CONSTRUCTION, AND CONFORM TO THE RECOMMENDATIONS OF THE SOUTH CAROLINA STORMWATER MANAGEMENT AND SEDIMENT CONTROL HANDBOOK FOR LAND DISTURBANCE ACTIVITIES,

BEST MANAGEMENT PRACTICES TO BE USED DURING CONSTRUCTION:

DATED AUGUST 2003.

- 1. TO CONTROL EROSION AND SEDIMENTATION, SILT FENCES WILL BE INSTALLED TO PROTECT AREAS NEAR THE DISTURBED SITE. SEDIMENT WILL BE REMOVED WHEN ACCUMULATIONS REACH ONE THIRD THE HEIGHT OF THE FENCE.
- 2. ROCK DITCH CHECKS WILL BE INSTALLED IN ANY AREA SUBJECT TO CONCENTRATED FLOWS FOR THE PURPOSE OF SLOWING DOWN RUNOFF. SEDIMENT WILL BE REMOVED WHEN ACCUMULATIONS REACH ONE-THIRD THE HEIGHT OF THE CHECK.
- DIVERSION DITCHES OR SWALES MAY BE CONSTRUCTED TO CHANNEL RUNOFF AND SEDIMENT AWAY FROM CREEKS.
- 4. TEMPORARY SEEDING AND MULCHING WILL BE REQUIRED, WHERE APPROPRIATE, TO PROVIDE A TEMPORARY VEGETATION GROUND
- 5. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES WILL CONSIST OF SEEDING AND MULCHING PLACED IN ALL DISTURBED AREAS. WHEN GRASS COVER IS ESTABLISHED AND DISTURBED AREAS ARE STABILIZED, TEMPORARY FACILITIES SUCH AS SILT FENCES AND SEDIMENT TRAPS WILL BE REMOVED FROM THE PROJECT SITE.
- 6. EROSION CONTROL MATTING WILL BE RECOMMENDED ON ANY STEEP SLOPE OR OTHER AREA SUBJECT TO EROSIVE VELOCITY RUNOFF.
- 7. REFUSE CONTAINERS WILL BE UTILIZED BY THE CONTRACTOR TO CONTROL CONSTRUCTION WASTE AND DEBRIS.
- 8. CONSTRUCTION ENTRANCES WILL BE UTILIZED TO MINIMIZE THE TRACKING OF MUD ONTO PAVEMENT AT EGRESS POINTS ALONG THE PROJECT THAT INTERSECT AT HIGHWAYS.
- 9. PROVIDE INLET PROTECTION AT ALL STORM DRAIN INLETS AND CULVERTS TO PREVENT SEDIMENT FROM ENTERING DITCHES AND CREEKS

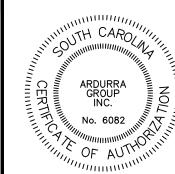
GENERAL SITE WORK

AS PART OF THE SWPPP, THE CONTRACTOR IS REQUIRED TO COMPLY WITH THE FOLLOWING CONDITIONS:

- 1. SEDIMENT AND EROSION CONTROL FACILITIES WILL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HEAVY MACHINERY MOBILIZATION OR SOIL DISTURBING OPERATIONS AND MAINTAINED UNTIL PERMANENT STABILIZATION IS ESTABLISHED.
- 2. SEDIMENT AND EROSION CONTROL FACILITIES WILL BE INSPECTED AT LEAST ONCE EVERY CALENDAR WEEK AS DESCRIBED IN THE PERMIT.
- 3. DISTURBED AREAS WILL BE TEMPORARILY SEEDED AND MULCHED AS SOON AS POSSIBLE AFTER THE AREA IS WORKED, BUT IN NO CASE WILL REMAIN EXPOSED FOR MORE THAN 14 DAYS.
- 4. ALL TEMPORARY EROSION AND SEDIMENT CONTROL FACILITIES WILL BE REMOVED FROM THE SITE AFTER THE FINAL ACCEPTANCE OF GRASSING, AND THE NOTICE OF TERMINATION HAS BEEN ACCEPTED.

GENERAL NOTES

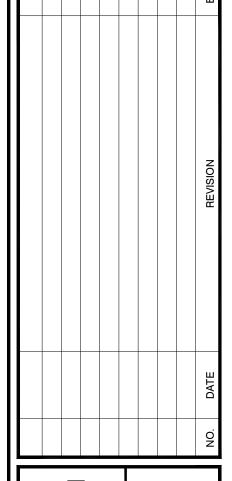
- 1. MAINTAIN EROSION CONTROL DEVICES UNTIL VEGETATION HAS BECOME ESTABLISHED IN ALL AREAS AND A 70 PERCENT UNIFORM COVERAGE HAS BEEN REACHED. A REPRESENTATIVE OF ARDURRA WILL PROVIDE WRITTEN PERMISSION FOR THE REMOVAL OF THE EROSION CONTROLS.
- 2. PERFORM ALL SITE IMPROVEMENT WORK IN COMPLETE ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS OF SCDES.
- 3. ALL EXCESS DIRT SHALL BE STORED IN SUCH A MANNER AS TO PREVENT AND/OR MINIMIZE EROSION FROM THE PILE. PLACE SILT FENCES AROUND THE BOTTOM PERIMETER OF THE PILE. ANY STOCK PILES SHOULD BE PERMANENTLY GRASSED AND MULCHED TO PREVENT EROSION.
- 4. COORDINATE WITH THE OWNER A PLACE TO APPLY SEDIMENT OBTAINED FROM THE CLEANING OF SEDIMENT AND EROSION CONTROL STRUCTURES SUCH AS, BUT NOT LIMITED TO, ROCK DITCH CHECKS, SEDIMENT BASINS, AND SILT FENCES. EVENLY DISTRIBUTE THE SEDIMENT AT THE LOCATION DETERMINED AND APPLY GRASS SEED AND MULCH AFTER SPREADING.
- 5. THE AREA OF LAND DISTURBANCE IS 3.0 ACRES FOR THE PROJECT. ANY ADDITIONAL DISTURBANCE WILL REQUIRE A REVISION OF THE SEDIMENT & EROSION CONTROL PERMIT BEFORE INITIATING THE DISTURBING OPERATIONS.
- 6. DETENTION IS NOT REQUIRED FOR LINEAR PROJECTS BECAUSE THERE IS NO INCREASE IN IMPERVIOUS AREA.





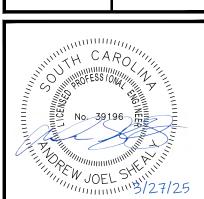






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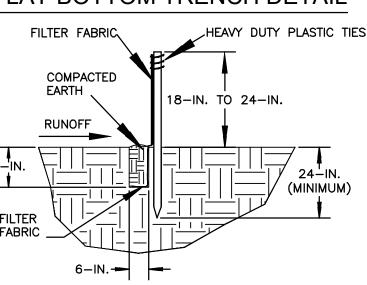
SILT FENCE — GENERAL NOTES

1. Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.

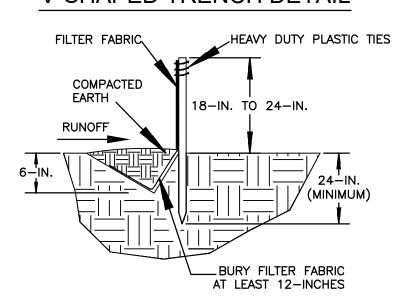
- 2. Maximum sheet or overland flow path length to the silt fence shall be 100-feet
- 3. Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
- 4. Silt fence joints, when necessary, shall be completed by one of the following options: - Wrap each fabric together at a support post with both ends fastened to the post, with a 1-foot
- Overlap silt fence by installing 3-feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy-duty plastic ties; or, - Overlap entire width of each silt fence roll from one support post to the next support post.
- 5. Attach filter fabric to the steel posts using heavy—duty plastic ties that are evenly spaced within the top
- 6. Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
- Install Silt Fence Checks (Tie-Backs) every 50-100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt

FLAT-BOTTOM TRENCH DETAIL SILT FENCE — POST REQUIREMENTS

1. Silt Fence posts must be 48-inch long steel posts that meet, at a minimum,



V-SHAPED TRENCH DETAIL



South Carolina Department of Health and Environmental Contro

SILT FENCE

tandard drawing no. SC-03 Page 1 of 2 NOT TO SCALE

the following physical characteristics. - Composed of a high strength steel with a minimum yield strength of 50,000 psi.

- Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48—inches. - Weigh 1.25 pounds per foot (± 8%)

- 2. Posts shall be equipped with projections to aid in fastening of filter fabric.
- 3. Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17-square inches and be composed of 15 gauge steel, at a minimum. The metal soil stabilization plate should be
- 4. Install posts to a minimum of 24-inches. A minimum height of 1- to 2inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
- 5. Post spacing shall be at a maximum of 6-feet on center.

SILT FENCE - FABRIC REQUIREMENTS

- 1. Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements: - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability
- relative to each other: - Free of any treatment or coating which might adversely alter its physical properties after installation: - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
- Have a minimum width of 36-inches. 2. Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
- 3. 12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
- 4. Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints
- 5. Filter Fabric shall be installed at a minimum of 24-inches above the ground.

SILT FENCE - INSPECTION & MAINTENANCE 1. The key to functional silt fence is weekly inspections, routine maintenance, and

- 2. Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
- 3. Attention to sediment accumulations along the silt fence is extremely important.

Accumulated sediment should be continually monitored and removed when

- 4. Remove accumulated sediment when it reaches 1/3 the height of the silt
- 5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- 6. Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie-backs and/or reinstall silt fence,
- 7. Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence
- 8. Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently

South Carolina Department of Health and Environmental Control

SILT FENCE

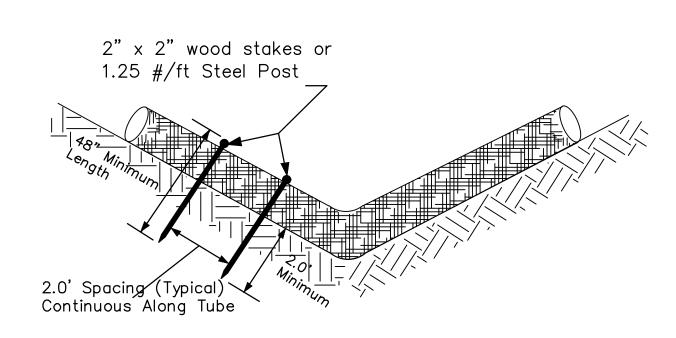
STANDARD DRAWING NO. SC-03 PAGE 2 of 2

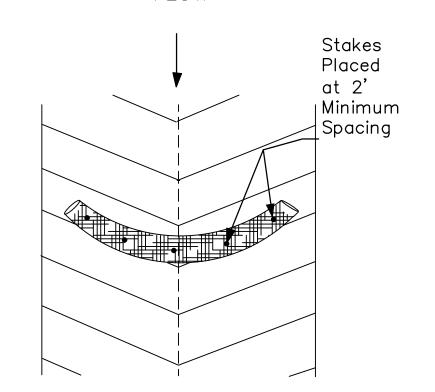
GENERAL NOTES

SILT FENCE INSTALLATION



SEDIMENT TUBE INSTALLATION





SEDIMENT TUBE SPACING

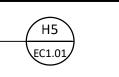
	SLOPE	MAX. SEDIMENT TUBE SPACING	
	LESS THAN 2%	150-FEET	
	2%	100-FEET	
	3%	75-FEET	
	4%	50-FEET	
	5%	40-FEET	
6%		30-FEET	
	GREATER THAN 6%	25-FEET	

PLAN SYMBOL



South Carolina Department of Health and Environmental Control SEDIMENT TUBES standard drawing no. SC-05 PAGE 1 of 2 NOT TO SCALE

SEDIMENT TUBE INSTALLATION



SEDIMENT TUBES - GENERAL NOTES

1. Sediment tubes may be installed along contours, in drainage conveyance channels, and around inlets to help prevent off-site discharge of sediment-laden stormwater runoff.

2. Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber, or hardwood mulch. Straw, pine needle, and leaf mulch-filled sediment tubes are not permitted.

- The outer netting of the sediment tube should consist of seamless, high—density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high—density polyethylene non-degradable material.
- Sediment tubes, when used as checks within channels, should range between 18-inches and 24-inches depending on channel dimensions. Diameters outside this range may be allowed where necessary when approved.
- 5. Curled excelsior wood, or natural coconut products that are rolled up to create a sediment tube are not allowed.
- 6. Sediment tubes should be staked using wooden stakes (2-inch X 2-inch) or steel posts (standard "U" or "T" sections with a minimum weight of 1.25 pounds per foot) at a minimum of 48-inches in length placed on 2-foot centers.
- . Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufacturer's recommendations should always be consulted before
- 3. The ends of adjacent sediment tubes should be overlapped 6-inches to prevent flow and sediment from passing through the field joint.
- 9. Sediment tubes should not be stacked on top of one another, unless recommended by manufacturer.
- 10.Each sediment tube should be installed in a trench with a depth equal to 1/5 the diameter of the sediment tube.
- 11. Sediment tubes should continue up the side slopes a minimum of 1—foot above the design flow depth of the channel.
- 12. Install stakes at a diagonal facing incoming runoff.

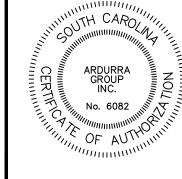
- SEDIMENT TUBES INSPECTION & MAINTENANCE
- 1. The key to functional sediment tubes is weekly inspections, routine maintenance, and regular sediment removal.
- 2. Regular inspections of sediment tubes shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of
- 3. Attention to sediment accumulations in front of the sediment tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- 4. Remove accumulated sediment when it reaches 1/3 the height of the sediment tube.
- 5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- 6. Large debris, trash, and leaves should be removed from in front of tubes when found.
- 7. If erosion causes the edges to fall to a height equal to or below the height of the sediment tube, repairs should be made immediately to prevent runoff from bypassing tube.
- 8. Sediment tubes should be removed after the contributing drainage area has been completely stabilized. Permanent vegetation should replace areas from which sediment tubes have been removed.

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SEDIMENT TUBES STANDARD DRAWING NO. SC-05 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014

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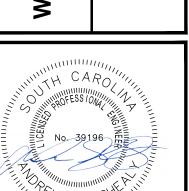




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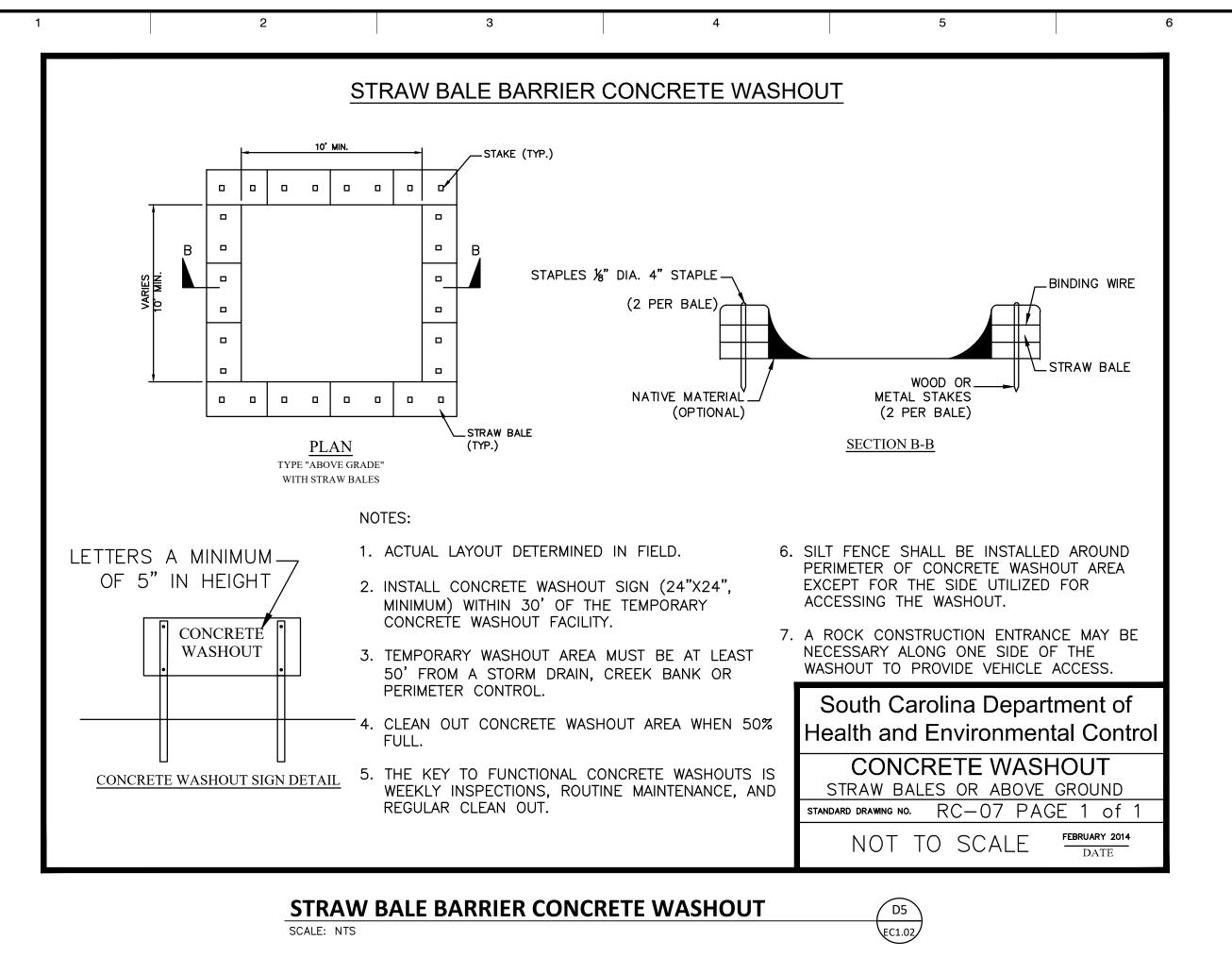


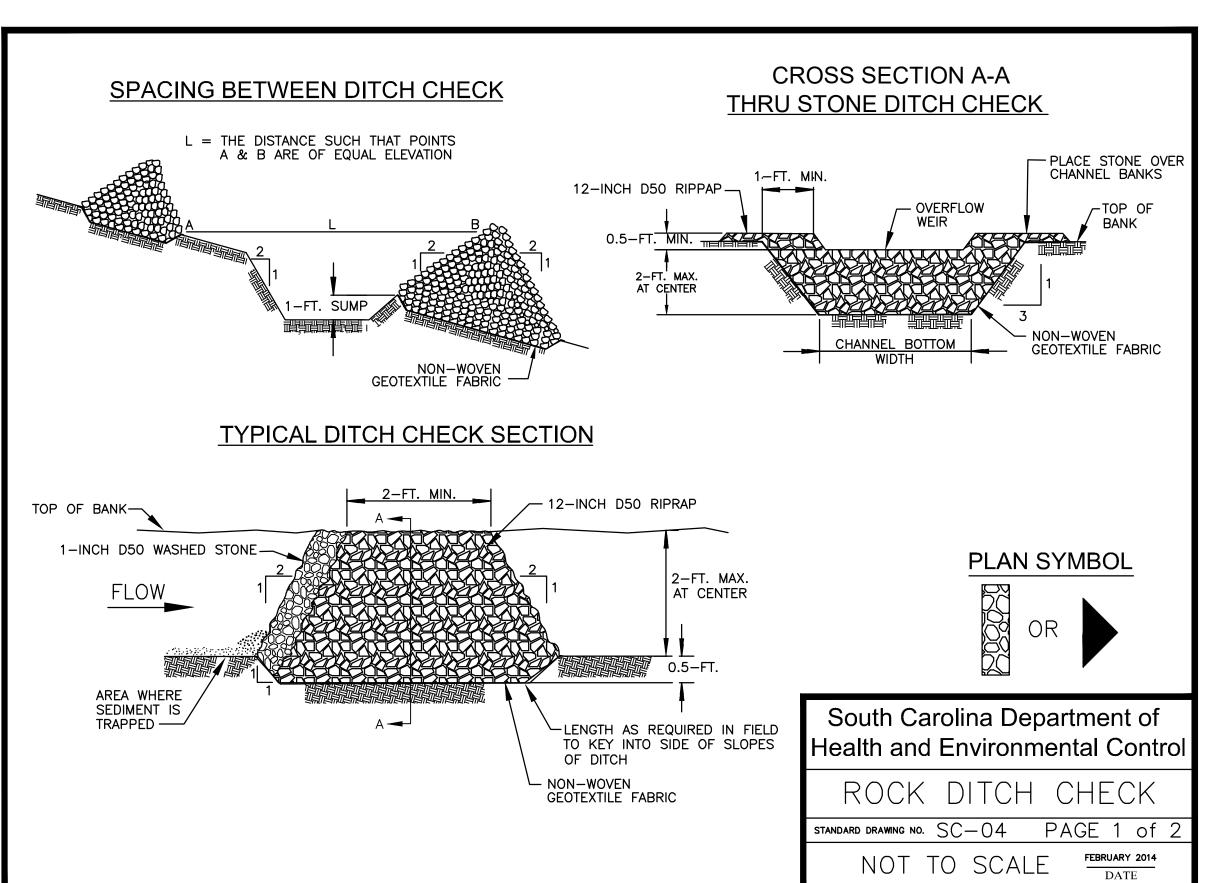
EROSION CONTROL SHEET 2 OF 4 AND AILS SEDIMENT , DETA



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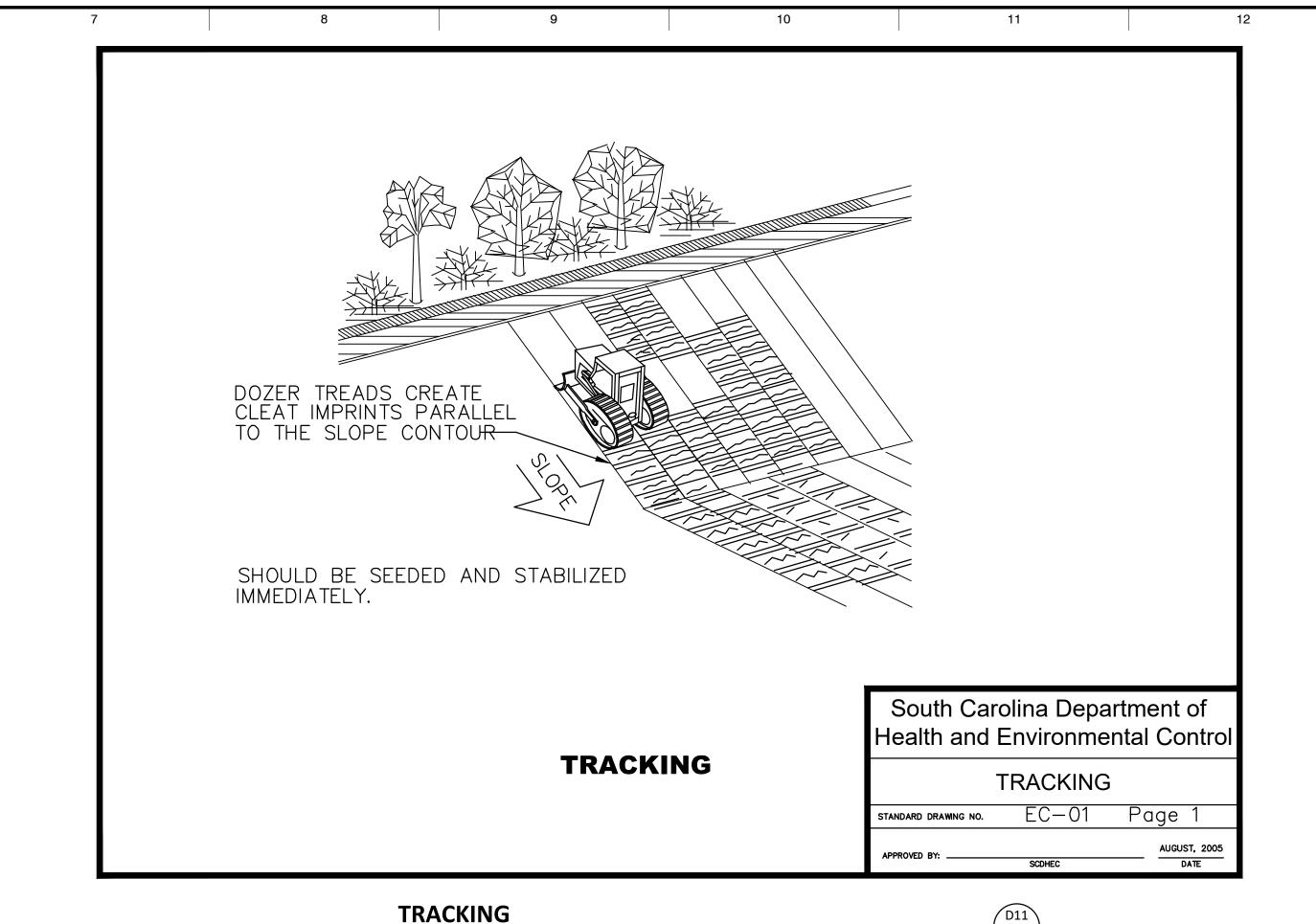
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ROCK DITCH CHECK

SCALE: NTS



ROCK DITCH CHECK - GENERAL NOTES

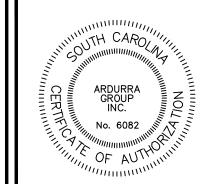
- Rock Ditch Checks should not be placed in Waters of the State or USGS blue—line streams (unless approved by Federal Authorities).
- 2. Rock Ditch Checks should be installed in steeply sloped channels where adequate vegetation cannot be established. This BMP measure should only be used in small open channels.
- 3. A non-woven geotextile fabric shall be installed over the soil surface where the rock ditch check is to be placed.
- 4. The body of the rock ditch check shall be composed of 12—inch D50 Riprap. The upstream face may be composed of 1—inch D50 washed stone.
- 5. Rock Ditch Checks should not exceed a height of 2—feet at the centerline of the channel.

from cutting around the ditch check.

- 6. Rock Ditch Checks should have a minimum top flow length of 2—feet.7. Riprap should be placed over channel banks to prevent water
- 8. The riprap should be placed by hand or mechanical placement (no dumping of rock to form dam) to achieve complete coverage of the channel. Doing so will also ensure that the center of the check is lower than the edges.
- 9. The maximum spacing between the dams should be such that the toe of the upstream check is at the same elevation as the top of the downstream check.

- ROCK DITCH CHECK INSPECTION & MAINTENANCE
- 1. The key to functional rock ditch check is weekly inspections, routine maintenance, and regular sediment removal.
- Regular inspections of rock ditch checks shall be conducted once every calendar week and, as recommended, within 24—hours after each rainfall even that produces 1/2—inch or more of precipitation.
- 3. Attention to sediment accumulations in front of the rock ditch check is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- 4. Remove accumulated sediment when it reaches 1/3 the height of the rock ditch check.
- 5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- 6. Inspect Rock Ditch Checks' edges for erosion and evidence of runoff bypassing the installed check. If evident repair promptly as necessary to prevent erosion and bypassing.
- 7. In the case of grass—lined ditches, channels, and swales, rock ditch checks should be removed when the grass has matured sufficiently to protect the ditch or swale unless the slope of the swale is greater than 4%.
- 8. After construction is completed and final stabilization is reached, the entirety of the rock ditch check should be removed if vegetation will be used for permanent erosion control measures. The area beneath the removed rock ditch check must be addressed with permanent stabilization measures.

South Carolina Department of Health and Environmental Control					
ROCK DITCH CHECK					
STANDARD DRAWING NO. $SC-04$ PAGE 2 of 2					
GENERAL NOTES FEBRUARY 2014					

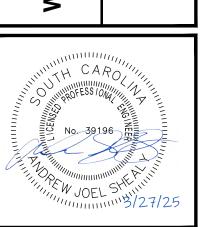




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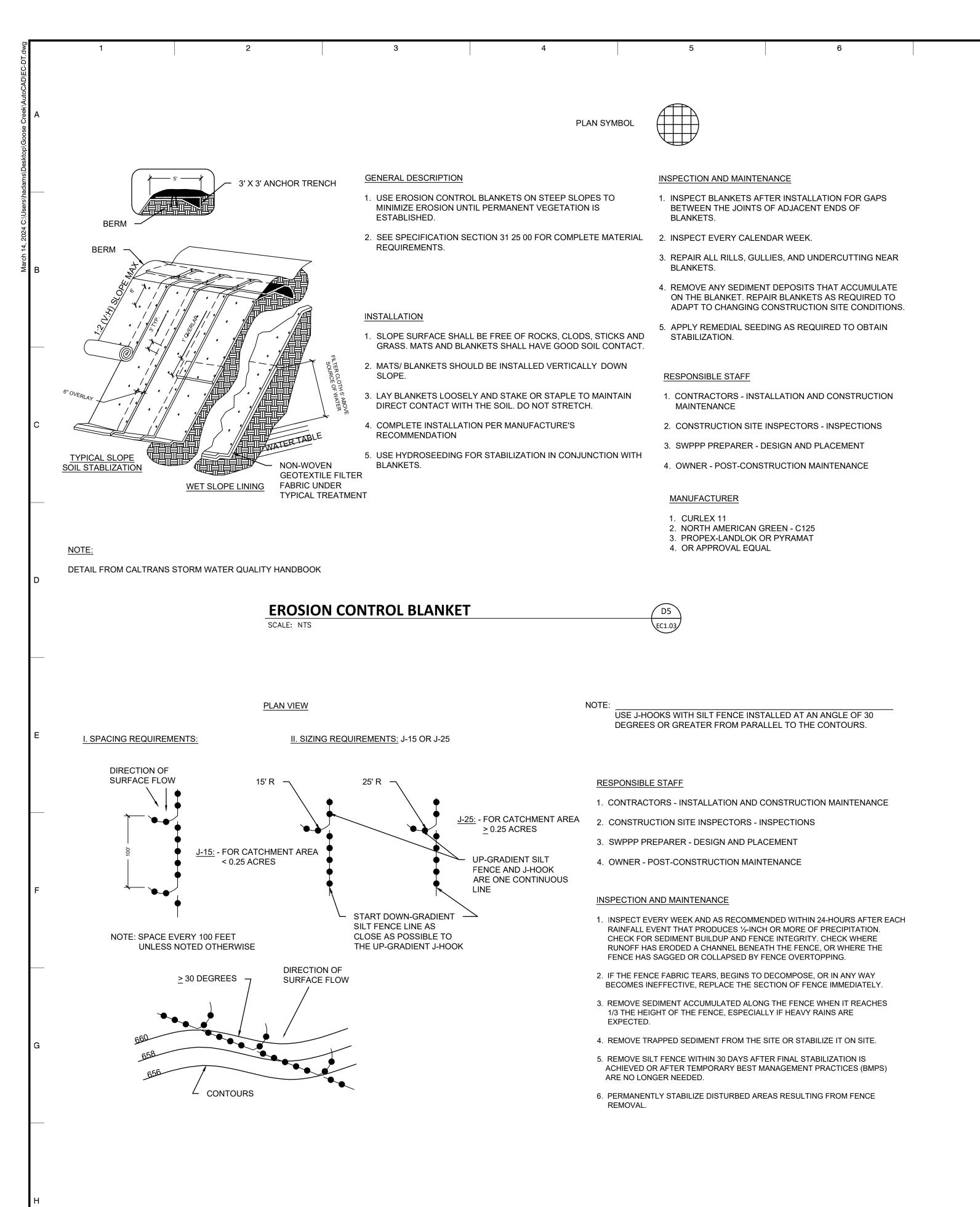
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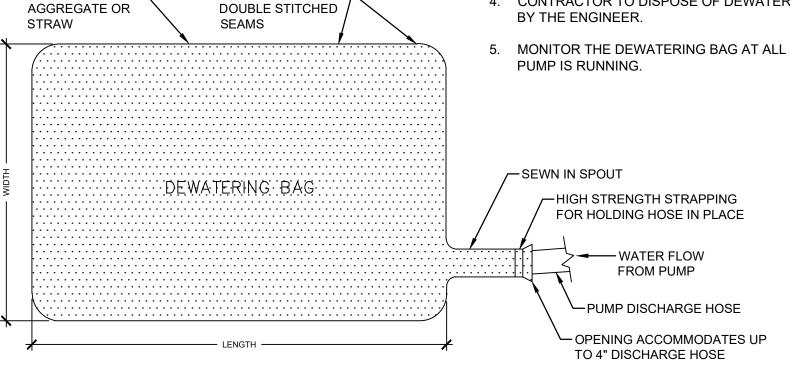


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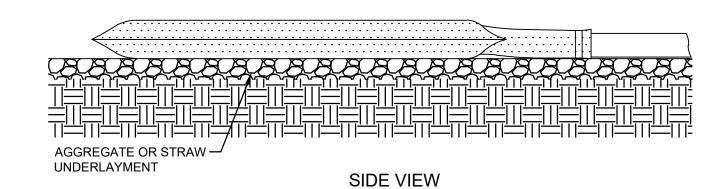
NOTES:

- FOLLOW ALL MANUFACTURER RECOMMENDATIONS FOR INSPECTION AND MAINTENANCE GUIDELINES.
- 2. REPLACE DEWATERING BAG WHEN TRAPPED SEDIMENT HAS ACCUMULATED TO 50% OF THE BAG CAPACITY OR IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS
- 3. DEWATERING BAGS ARE FULL WHEN THEY NO LONGER EFFICIENTLY FILTER OR PASS WATER AT A REASONABLE RATE.
- 4. CONTRACTOR TO DISPOSE OF DEWATERING BAGS AS DIRECTED
- MONITOR THE DEWATERING BAG AT ALL TIMES WHILE THE



TOP VIEW

HIGH STRENGTH-



DEWATERING BAG

SCALE: NTS

BAG PLACED ON-

GENERAL DESCRIPTION

- 1. UTILIZE DUST CONTROL METHODS WHENEVER THERE ARE OFFSITE IMPACTS, ESPECIALLY DURING PERIODS OF DROUGHT
- 2. IMPLEMENT DUST CONTROL UNTIL FINAL STABILIZATION IS REACHED.

INSTALLATION

- 1. THERE ARE MANY METHODS TO CONTROL DUST ON CONSTRUCTION SITES.
- 2. PHASING THE PROJECT PHASING IS DONE TO DECREASE THE AREA OF DISTURBED SOIL THAT IS EXPOSED TO EROSION. THE SMALLER THE AMOUNT OF SOIL THAT IS EXPOSED AT ONE TIME, THE SMALLER THE POTENTIAL FOR DUST GENERATION. PHASING A PROJECT AND UTILIZING TEMPORARY STABILIZATION PRACTICES CAN SIGNIFICANTLY REDUCE DUST EMISSIONS.
- 3. VEGETATIVE COVER A VEGETATIVE COVER HELPS REDUCE WIND EROSION. VEGETATIVE COVER IS FOR DISTURBED AREAS NOT SUBJECT TO TRAFFIC. VEGETATION PROVIDES THE MOST PRACTICAL METHOD OF DUST CONTROL.
- 4. MULCH MULCHING OFFERS A TEMPORARY WAY TO STABILIZE THE SOIL AND PREVENT EROSION. MULCHING OFFERS A FAST, EFFECTIVE MEANS OF CONTROLLING DUST.
- 5. SPRINKLING WATER SPRINKLING HELPS CONTROL THE SUSPENSION OF DUST PARTICLES AND PROMOTES DUST TO SETTLE OUT OF THE AIR. SPRINKLING WATER IS EFFECTIVE FOR DUST CONTROL ON HAUL ROADS AND OTHER TRAFFIC ROUTES.
- 6. SPRAY-ON-ADHESIVE ADHESIVES PREVENT SOIL FROM BLOWING AWAY. LATEX EMULSIONS, OR RESIN IN WATER IS SPRAYED ONTO MINERAL SOILS TO PREVENT THEIR BLOWING AWAY AND REDUCE DUST CAUSED BY TRAFFIC.
- 7. CALCIUM CHLORIDE CALCIUM CHLORIDE KEEPS THE SOIL SURFACE MOIST AND PREVENTS EROSION. CALCIUM CHLORIDE IS APPLIED BY MECHANICAL SPREADERS AS LOOSE, DRY GRANULES OR FLAKES AT A RATE THAT KEEPS THE SURFACE MOIST BUT NOT SO HIGH AS TO CAUSE WATER POLLUTION OR PLANT DAMAGE.
- 8. BARRIERS BARRIERS ARE FENCES THAT PREVENT EROSION BY OBSTRUCTING THE WIND NEAR THE GROUND STOPPING THE SOIL FROM BLOWING OFFSITE. BROAD, WIND, OR SEDIMENT FENCES CAN CONTROL AIR CURRENTS AND BLOWING SOIL. BARRIERS ARE NOT A SUBSTITUTE FOR PERMANENT STABILIZATION. PERENNIAL GRASS AND STRANDS OF EXISTING TREES MAY ALSO SERVE AS WING BARRIERS.

USE AND MAINTENANCE

- 1. INSPECT EVERY CALENDAR WEEK.
- 2. ADD ADDITIONAL DUST CONTROL OR RE-SPRAY AREA AS NECESSARY TO KEEP DUST TO A MINIMUM.
- 3. SPRAY EXPOSED SOIL AREAS ONLY WITH APPROVED DUST CONTROL AGENTS.

RESPONSIBLE STAFF

- 1. CONTRACTORS INSTALLATION AND CONSTRUCTION MAINTENANCE
- 2. CONSTRUCTION SITE INSPECTORS INSPECTIONS
- 3. SWPPP PREPARER DESIGN AND PLACEMENT
- 4. OWNER POST-CONSTRUCTION MAINTENANCE

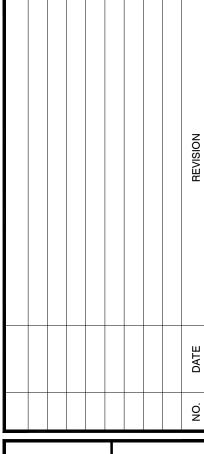
DUST CONTROL SCALE: NTS



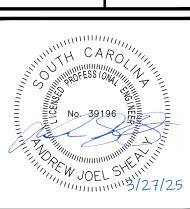








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