

/5/2022 carroll	1:19:46	GPLOT-V8 gplotborder-V8i-P0.tbl	02-001. dgn	n							FORSYTH COUNTY P. 1.	. No.
	DRAWING NO.		DESCRIPTION			DRAWIN	IG NO.		DESCRIPTION			
	01,0001	COVED						GDOT CONSTRUCTION STANDA	IDDC		REV DATE	٦
	01-0001 02-0001	COVER					1030D1	CONCRETE & METAL PIPE CU			09/2001	-
	04-0001	GENERAL NOTES					1030D1	CONCRETE & METAL PIPE CO			09/2001	-
	05-0001	TYPICAL SECTIONS					1030D2	CONCRETE & METAL PIPE CO			09/2001	1
	13-0001	CONSTRUCTION PLANS					1034D			GUTTER (IN SAGS OR LOW POIN		1
	22-0001	DRAINAGE PROFILES					1034DP			HT.) & GUTTER (IN SAGS OR		1
	23-0001 TO 23-0002	CROSS-SECTIONS					1401			Y INSTALLATIONS BY OPEN CUT		1 '
	24-0000 TO 24-0001	UTILITY PLANS						EXISTING PAVEMENT)				1
	26-0001	SIGNING & MARKING PLANS					9032B		R, CONCRETE CURBS, CONCRE	TE MEDIANS	11/2011	1 '
	27-0001 TO 27-0004	SIGNAL PLANS					9100			AND MISCELLANEOUS DETAILS	3/2006	1 '
	52-0001 TO 52-0007	EROSION CONTROL LEGEND					9102	TRAFFIC CONTROL DETAIL I	FOR LANE CLOSURE ON TWO-L	ANE HIGHWAY	3/2006	1
	52-0001		AND UNIFORM CODE SHEET I OF 7] '
	52-0002		AND UNIFORM CODE SHEET 2 OF 7					GDOT CONSTRUCTION DETAIL	LS			
	52-0003		AND UNIFORM CODE SHEET 3 OF 7				D-24A	TEMPORARY SILT FENCE (SI			01/2011	_
	52-0004		AND UNIFORM CODE SHEET 4 OF 7				D-24B			RUSH BARRIER (SHEET 2 OF 4)		-
	52-0005		AND UNIFORM CODE SHEET 5 OF 7				D-24C		HOOKS, INLET SEDIMENT TRA	PS (SHEET 3 OF 4)	01/2011	-
	52-0006		AND UNIFORM CODE SHEET 6 OF 7				D-41	CONSTRUCTION EXIT			04/2018	- '
	52-0007		AND UNIFORM CODE SHEET 7 OF 7				D-42 D-54	INLET SEDIMENT TRAPS			05/2008	-
	54-0001 T0 54-0002	BMP LOCATION DETAILS						SOD INSTALLATION SIGN PLATES			04/2016 1/2000	4
						-		DETAILS FOR TYPICAL FRAM	// NG		3/2000	-
							T03a		IBE POST INSTALLATION DET/	Δ / /	7/2002	-
							TIIa		KING PLACEMENT ON NON-LIM		9/2016	-
								DETAILS OF PAVEMENT MARK		TIED NOCESS NONDIKI	01/2000	1 '
								DETAILS OF PAVEMENT MARK			11/2008	1
							T15A	RAISED PAVEMENT MARKER I			09/2016	1 '
							T15C	DETAILS OF RAISED PAVEME	ENT MARKERS		09/2011	1
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									REVISION DATES	_	INDEX	
				PL	ANS PREPARED AND SUBMITTED BY:	§				 		
				∎	O 65 Aberdeen Drive Glasgow, KY 42I4I Ac (270) 651-7220 (7	60 Acworth Landing Drive worth, GA 30101 701 421-8422						
					O 2500 Nelson Miller Parkway Louisville, KY 40223 (502) 245-3813					TRA	AMMEL ROAD	
					MERICAN ENGINEERS, INC.	PROFESSIONAL ENGINEERING				CHECKED:	DATE: DRAWING No.	
				""	DESIGN CONSULTANT					BACKCHECKED: CORRECTED:	DATE: 02 - 000	ı1 「
/23/2015 GPLN										VERIFIED:	DATE: UL UUU.	

All work shall be done in accordance with the Georgia Department of Transportation Standard and Supplemental Specifications, Current Edition.

All known utility facilities are shown schematically on highway plans, and are not necessarily accurate in location as to plan or elevation. Utility facilities such as service lines or unknown facilities not shown on highway plans will not relieve the contractor of his responsibility under this requirement. "Existing utility facilities" means any utility that exists on the highway project in its original, relocated, or newly installed position. All utility facilities which are in conflict with construction and are not covered as specific items in the detailed estimate are to be removed or relocated to clear construction in advance of his work.

Utility work coordination will be required as a part of this contract. The contractor shall be required to use the one-call center telephone number, 1-800-282-7411, for the purpose of coordinating the marking of underground utilities. The contractor's attention is called to Sub-Section 105.06, "Cooperation with Utilities". The following utilities have facilities in the project area:

Sawnee EMC 404-277-7192 Cumming, GA 30040 AT&T 770-363-7674 Cumming, GA 30040 Atlanta Gas Light Resources 404-569-2505 Atlanta, GA 30309 Windstream 704–589–9728 Atlanta, GA 30319

Comcast 770-527-9867 Forsyth County Water & Sewer Dept 770–781–2160 Cumming, GA 30040

Cumming, GA 30040

The total acreage shown on the plans for Grading Complete are for information only. Forsyth County Transportation & Engineering assumes no responsibility for its accuracy, the contractor shall bid on Grading Complete lump sum, and it shall be his responsibility to determine the actual acres to be cleared and grubbed. No claims will be considered for extra compensation if the contractor relies on the acres shown on the plans. Costs for items to be removed which do not have a separate pay item shall be included in price bid for Grading Complete - lump sum.

The contractor shall strictly adhere to dust control regulations. All areas subjected to dust formation must be periodically watered, sufficient to retard dust. All costs for dust control shall be included in price bid for clearing and grubbing - lump sum.

The total area shown on the plans for grassing is for information only. Forsyth County Transportation & Engineering assumes no responsibility for its accuracy. The contractor shall bid on grassing complete, lump sum, and it shall be his responsibility to determine the actual area to be grassed. No claims will be considered for extra compensation if the contractor relies on the area shown on the plans.

Ingress and egress shall be maintained at all times to adjacent properties. Refer to Sub-Section 107.07 of the Standard Specifications.

It shall be the contractor's responsibility to furnish suitable borrow material for the project and dispose of any unsuitable or waste material.

Horizontal control is based upon Georgia State Plane Coordinate System. See plans for locations and descriptions of monuments used.

Forsyth County expects to have other contracts under construction during the life of this contract. The contractor's attention is called to Sub-Section 105.07 of the Standard Specifications "Cooperation Between Contractors". The engineer shall be expected to coordinate the interface and cooperation between contractors.

This project lies within the limits of an insect infested area. The contractor's attention is called to the following Sub-Sections or Special Provisions to the standard specifications: A) Sub-Section 107.13D O Insect Control Regulations; B) Sub-Section 155 - Insect Control; and C) Sub-Section 893 - Miscellaneous Planting.

The contractor shall observe all applicable local, state, and federal safety regulations regarding pipe installation in trenches. No separate payment will be made for any cost incurred to comply with this requirement.

All existing pipe shall be removed unless otherwise noted on plans, or as directed by the engineer. Costs for removal shall be included in the price bid for Grading Complete.

In areas where Type 2 curb is used, drainage structures 1033D and 1034D will be required.

GEORGIA OIL

Utilities Protection Center, Inc

Know what's below. Call before you dig. At locations where new pavement is to be placed adjacent to existing pavement without an overlay or where curbing is to be placed across a paved area, a joint shall be sawn on a line established by the engineer to ensure pavement removal to a neat line. Costs for sawn joints, when required, shall be included in price bid for other contract items, except when sawing PCC concrete pavement.

Where existing pavement markings and lines are in conflict with the traffic pattern being used on construction, the contractor shall remove or overlay lines to the satisfaction of the engineer such that the lines do not confuse the traveling public. All remaining lines or markings shall be in accordance with the 'Manual on Uniform Traffic Control Devices' or as directed by the engineer. Traffic shall not be allowed on any pavement not properly striped.

The contractor's attention is directed to Articles 104.05 and 107.07 of the standard specifications and the special provisions for traffic control and sequence of operations in regards to maintenance of traffic during construction.

Price bid for traffic control – lump sum shall include, but is not limited to, construction, maintenance, and removal of temporary signing and pavement markings, barricades, channelizing devices, etc. required for maintenance of traffic during construction. All temporary signing and pavement marking shall be in accordance with the 'Manual on Uniform Traffic Control Devices', current edition and/or as directed by the engineer.

Staged construction may be required in order to maintain traffic throughout the project. Construction staging plans may be included in this set of drawings and are for guidance. The contractor may elect to design his own staging plan. If so, the contractor's staging plan must be approved by the engineer prior to construction. Any deviation to the stage construction plans, if included, shall be approved by the engineer prior to implementation.

Handicap ramps shall be constructed at all points where sidewalk terminates at curb or is bisected by driveways, if necessary. The exact type of ramp, (terminal or on curb radius) may be modified as directed by the engineer.

Sod all disurbed areas - Pricing to be included in grassing complete. All cut and fill slopes shall be grassed as directed by the engineer immediately after the slopes are established, in order to reduce erosion. If the season does not permit grassing, temporary mulch shall be used as directed by the engineer. Refer to Section 161 of the Standard Specifications.

The contractor shall ensure that positive and adequate drainage is maintained at all times within the project limits. This may include, but not be limited to, replacement or reconstruction of existing drainage structures that have been damaged or removed or re grading as required by the engineer, except for those drainage items shown at specific locations in the plans and having specific pay Items in the detailed estimate. No separate payment will be made for any costs incurred to comply with this requirement.

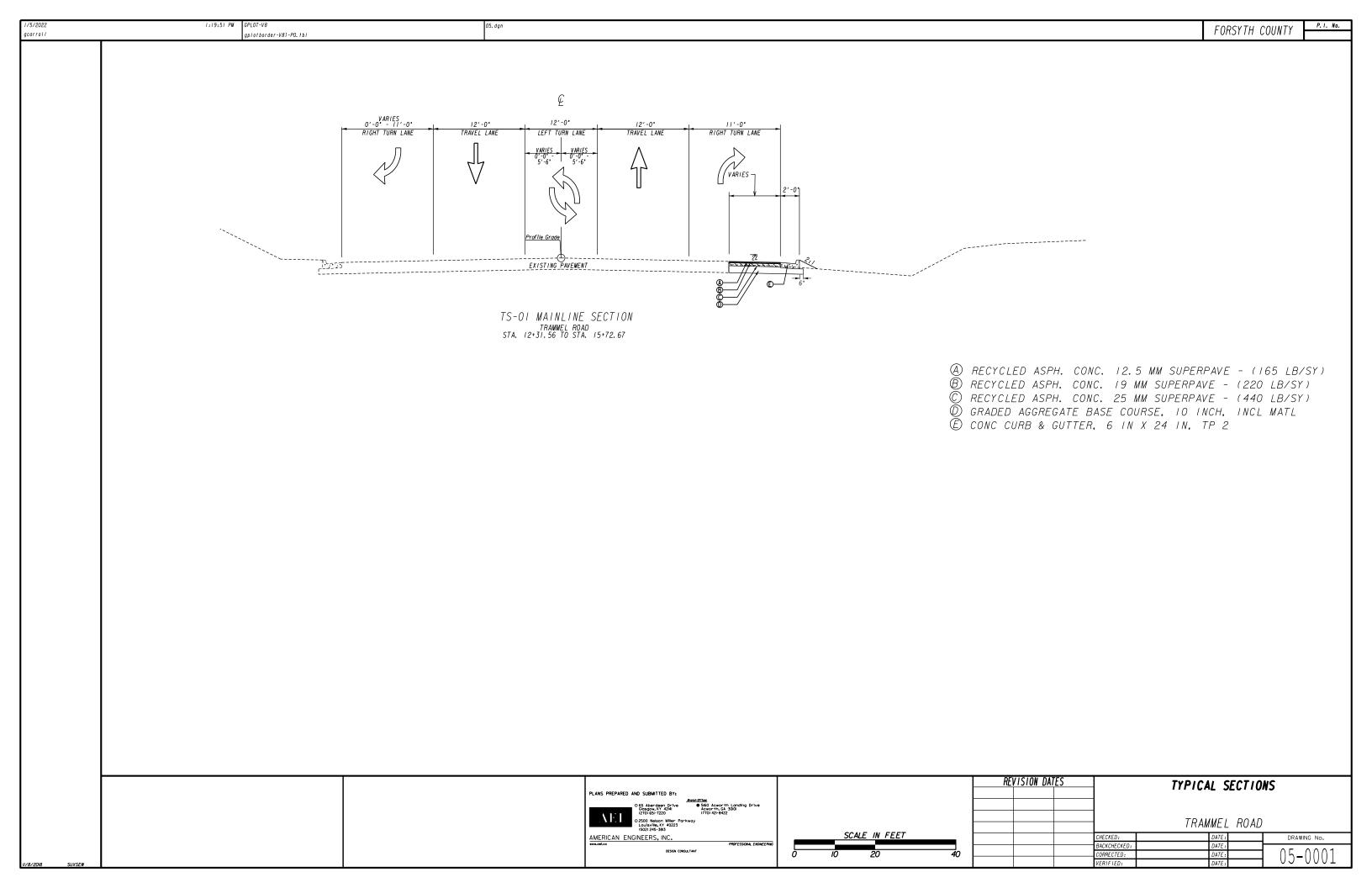
Erosion control measures shall be installed prior to or concurrent with land disturbance activities and shall be maintained at all times. Additional erosion and sediment control devices shall be installed if deemed necessary by on site inspection or as directed by the engineer. All silt fences must be placed as access is obtained during clearing. No grading shall be done until silt fence installation is complete. It is the contractor's responsibility to maintain all silt fences and to repair or replace any silt fence that is not satisfactory. All erosion control devices shall be placed according to the plans, and as directed by the engineer. See Georgia Standard Specifications, current edition regarding erosion control. The contractor shall be responsible to keep wetland areas free from siltation. The contractor shall obtain and ablde by all Corps of Engineers rules and regulations concerning construction adjacent to waterways and maintain water quality.

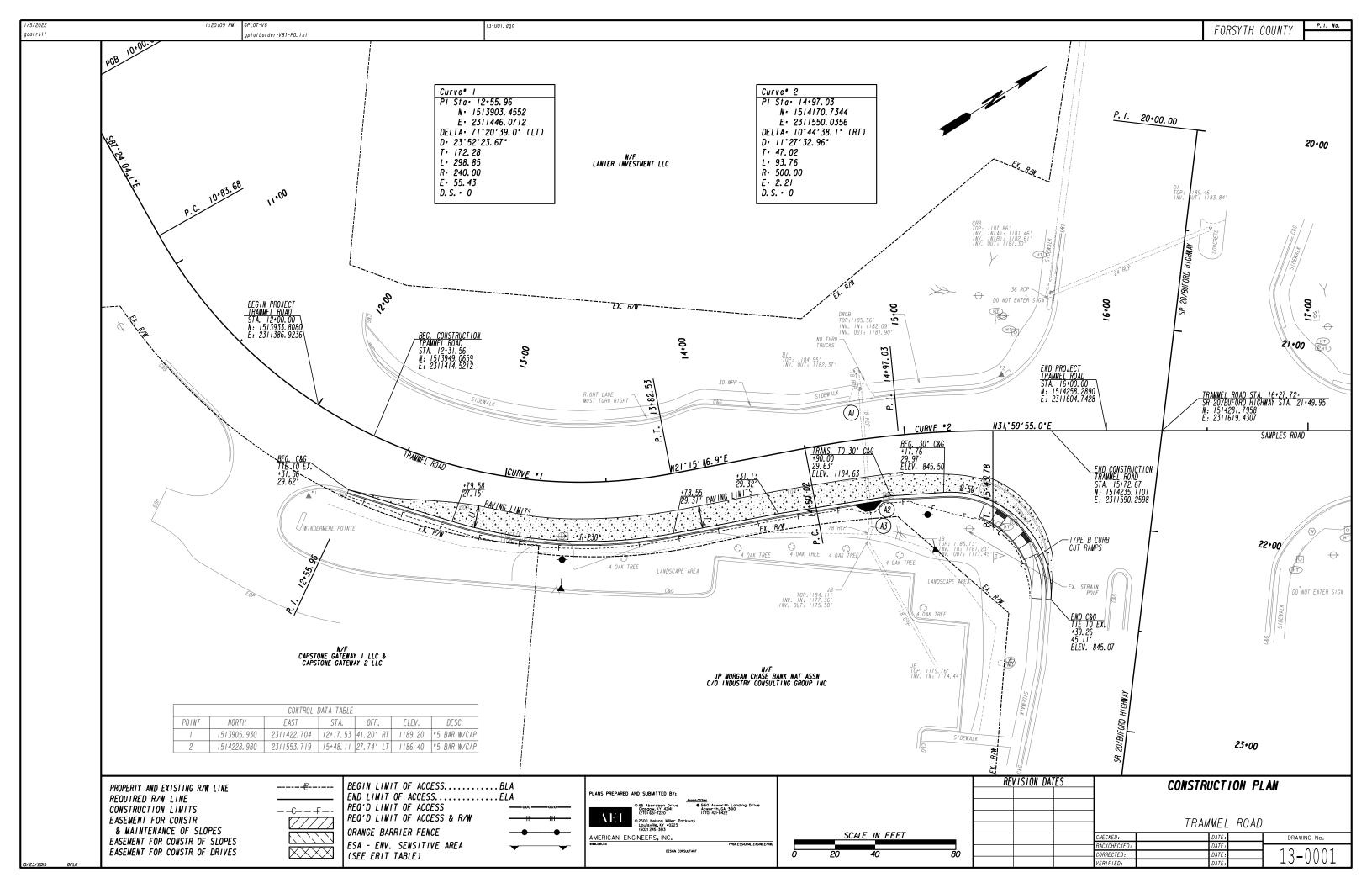
This project has a total area of 0.52 acres, and the expected disturbed area is 0.13 acres.

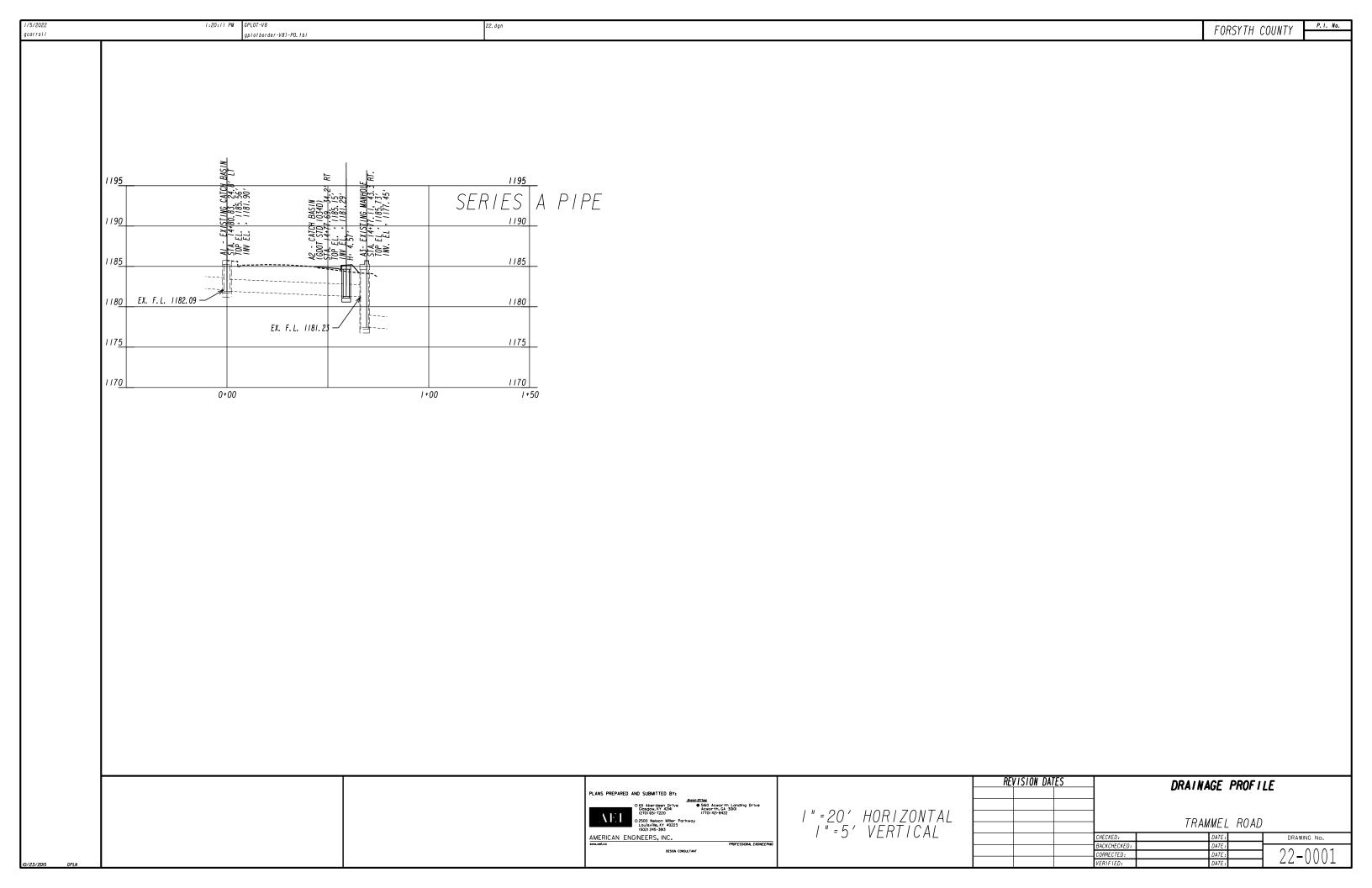
The contractor will be responsible for pre-marking all signing, striping, and handicap ramps. After pre-marking is complete and 72 hrs. in advance of installation, the contractor shall notify the Forsyth Department of Transportation's Operations and Maintenance Division for approval, this shall be coordinated with the project engineer.

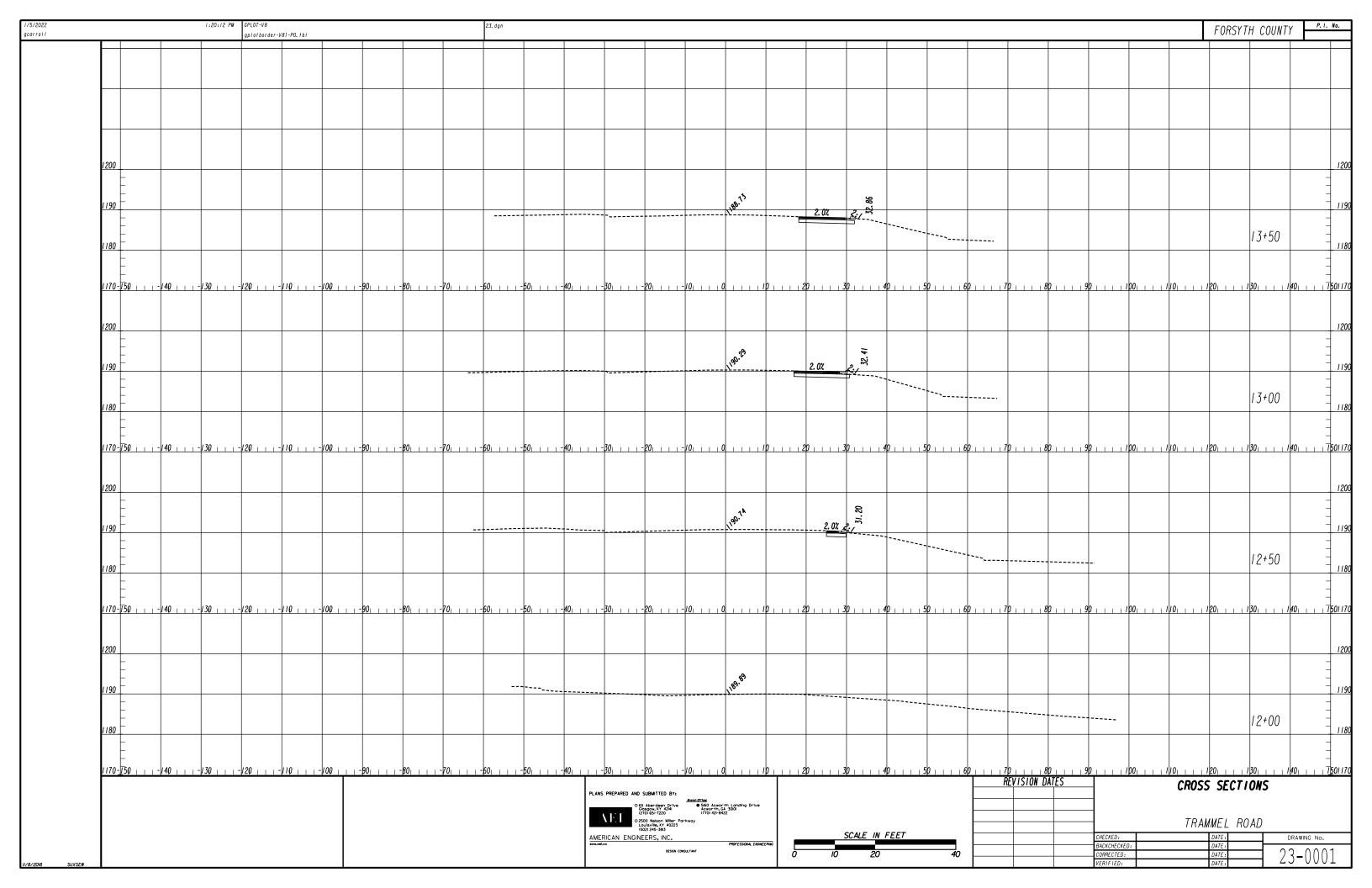
Any fence and/or gate within the construction limits shall be replaced in like kind and reset to it's origional location. All other related costs for its construction, are to be included in the total cost for grading complete.

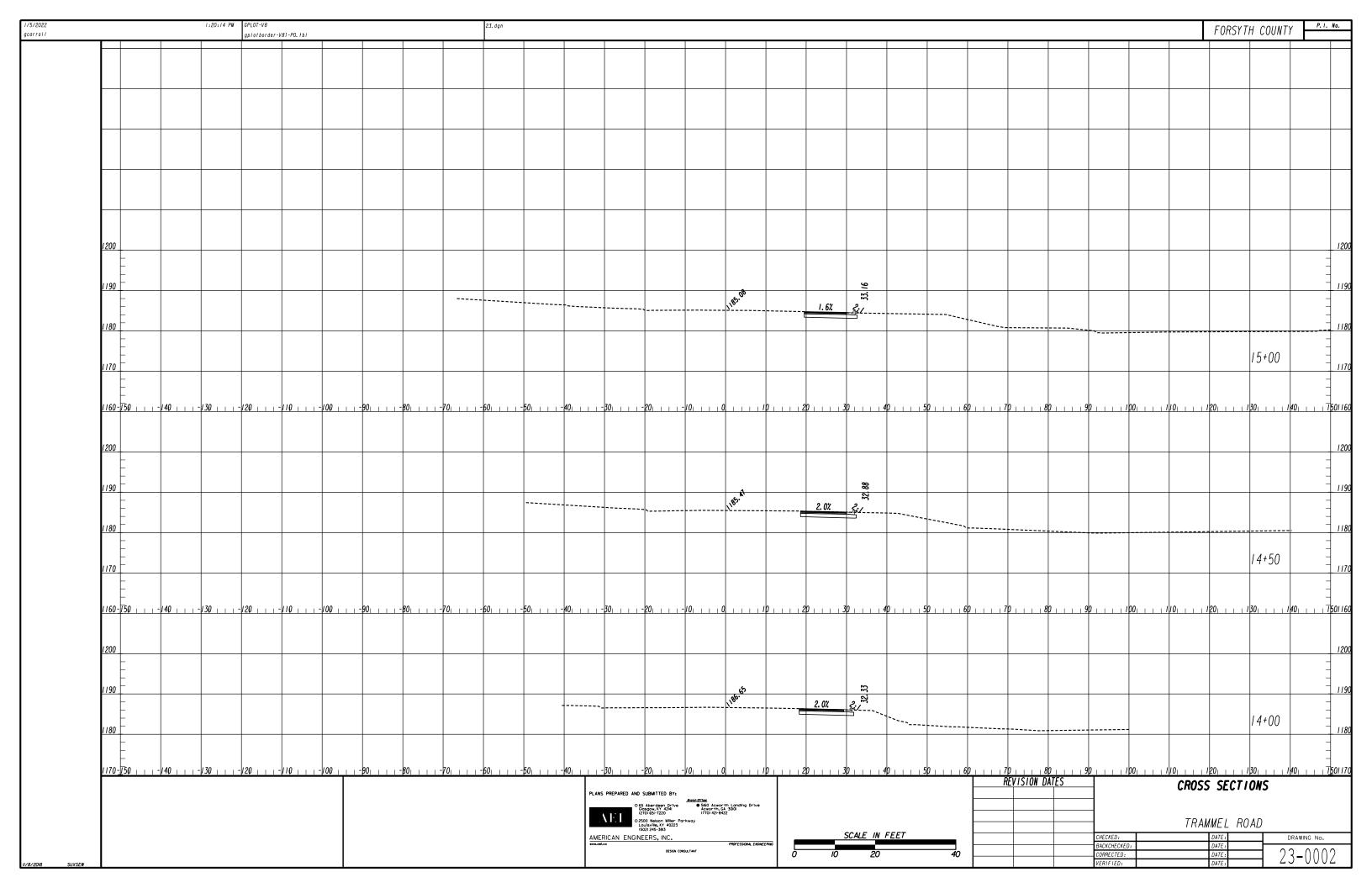
	REV	ISION DAT	ES		GENERAL	NOTES	•
PLANS PREPARED AND SUBMITTED BY: 0 65 Aberdeen Drive 0 560 Adworth Londing Drive 0 650 Ad					3_3_3		
(2701 651-7220 (7701 421-9422) O 2500 Nelson Miller Parkway Louisville, KY 40223 (502) 245-383					TRAMMEL	ROAD	
AMERICAN ENGINEERS, INC.				CHECKED:	DATE:		DRAWING No.
WWW.oel.cc PROFESSIONAL ENGINEERING				BACKCHECKED:	DATE:		01 0001
DESIGN CONSULTANT				CORRECTED:	DATE:		
				VERIFIED:	DATE:		04-0001











UTILITY LEGEND EXISTING OVERHEAD OVERHEAD TO BE REMOVED PROPOSED OVERHEAD TYPE OF UTILITY -W---E---W---E - * -\\\- * -E - * -\\\- --ΛΛ- - -F - T - - -ΛΛ- -- * -W- * -E-T- * -W - * -W- * -E-TV - * --W---E-TC---W-- * -\\\- * -F-TC - * ----E-T-TV---- * -W- * -E-T-TV- * - * -W- * -E-T-TV-TC -W--- E-TV-TC ---- * -W- * - E-TV-TC --W---E-T-TC---V - * -W- * -E-T-TC- * -\\\- - - GW - - -\\\- -- * -\\\- * - GW - * -\\\ --\/\---- GW -----\/\---**V**----**V**----TELECOMMUNICATIONS -W- * -T-TC- * -W--VV----T-TC----VV--V---T-TC---V--VV--- T-TV-TC ----W- * - T-TV-TC - * -**-**₩---T-TV---₩--W--- TV ---W--**──────────────────────────────────** CABLE TV -W- * - TC - * -W- * -W--- TC ----W-- TRAFFIC CONTROL UNDERGROUND TO BE REMOVED EXISTING UNDERGROUND PROPOSED UNDERGROUND TYPE OF UTILITY ----F-------*--F---*--ELECTRIC (QL-D) ----E(C)-------*--E(C)---*-ELECTRIC (QL-C) ----F(B)------*--F(B)---*-ELECTRIC (QL-B) ----T-------*--T---*--TELECOMMUNICATIONS (QL-D) ----T(C)------*--T(C)---*-TELECOMMUNICATIONS (QL-C) ----T(B)-------*--T(B)---*-TELECOMMUNICATIONS (QL-B) ----TV-------*--TV---*--CABLE TV (QL-D) ----TV(C)------- * - - - T V(C) - - - * -CABLE TV (QL-C) ----TV(B)-------*--TV(B)---*-CABLE TV (QL-B) -----w-------*--W---*--WATER (QL-D) -----W(C)-------*--*(C)---*-WATER (QL-C) ----W(B)-------*--W(B)---*-WATER (OL-R) =====**#****W====== == * = = = * * W = = = * = WATER FOR LABELED PIPE SIZES (QL-D) =====**##"W**(C)===== : * = = = * * W(C) = = = * = WATER FOR LABELED PIPE SIZES (QL-C) =====**##*****W**(B)===== : # = = = # * W(B) = = = # : WATER FOR LABELED PIPE SIZES (QL-B) ----NW-------*--NW---*--NON-POTABLE WATER (QL-D) ----NW(C)------*--NW(C)---*-NON-POTABLE WATER (OL-C) ----NW(B)------*--NW(B)---*-NON-POTABLE WATER (QL-B) :====== :=*===##"NW===*: _____**'NW__ NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-D) :====##"NW(C)===: : * = = = * * NW(C) = = = * NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-C) :====**##**"NW(B)===: :*===##"NW(B)===* NON-POTABLE WATER FOR LABELED PIPE SIZES (QL-B) QUALITY LEVELS AND DEFINITIONS ----STM-------*--STM---*--STM-STEAM (OL-D) ----STM(C)----- * - - - STM(C) - - - * -STEAM (QL-C) ENSITING DITIEST STRUCTURES HAVE BEEN PIELD LOCATED HAN SURVEYED TO ASSIST IN DEFICITION OF REPROPRIATE SURFACE STRUCTURES SHOWN ON RECORDS, NO ELECTRONIC DESIGNATION OF THE SUBSURFACE UTILITIES. OLD HAND SURVEYED TO APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROPRIATE HORIZONTAL POSITION OF THE SUBSURFACE UTILITIES. OLD BOATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

OBTAIN PRECISE HORIZONTAL AND VERTICAL POSITION OF THE UTILITY LINE BY EXCAVATING A TEST HOLE. THE TEST HOLE SHALL BE DONE USING VACUUM EXCAVATION OR COMPARIABLE NONDESTRUCTIVE EQUIPMENT IN A MANNER AS TO CAUSE NO DAMAGE TO THE UTILITY LINE. AFTER EXCAVATING A TEST HOLE, A FIELD SURVEY SHALL BE PERFORMED TO DETERMINE THE EXACT LOCATION AND POSITION OF THE UTILITY LINE. ----STM(B)----- * - - - STM(B) - - - * -STEAM (QL-B) =====******"STM==== :*===##"STM===*: _____**'STM____ STEAM FOR LABELED PIPE SIZES (OL-D) :===##"STM(C)===: : # = = = # # "STM(C) = = = STEAM FOR LABELED PIPE SIZES (QL-C) :===##"STM(B)===: : # = = = # * STM(B) = = = STEAM FOR LABELED PIPE SIZES (QL-B) ----**>**SS------*--≻SS---*--SANITARY SEWER WITH FLOW DIRECTION (QL-D) ---->SS(C)-----*-->SS(C)---*-SANITARY SEWER WITH FLOW DIRECTION (OL-C) ABBREVIATIONS: ----⊁SS(B)----- * - - > SS(B) - - - * - · SANITARY SEWER WITH FLOW DIRECTION (OL-B) :===**Σ****"SS====: =*==Σ**"SS===*= Remote Terminal Polyvinyl Chloride Pipe Ductile Iron Pipe Sanitary Sewer Manhole End of Information _____>**"SS SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-D) *==Σ**"SS(C)===*: ====Σ******"SS(C)===: SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-C) ____**x****"SS(B)___: *==Σ**"SS(B)===*: SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (QL-B) --->SFM------*-->SFM---*-SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (OL -D) ---> SFM(C)----- * - - > SFM(C) - - - * -SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-C) Plastic ---> SFM(B) ----- * - -> SFM(B) - - - * -SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (QL-B) Medium Pressure High Pressure
Polyethylene
Retired in Place -----G-------*--G---*---GAS (QL-D) ----G(C)------ *--- G(C)--- *--GAS (QL-C) ----G(B)-----Cast Iron Terra Cotta ·-*---G(B)---*--GAS (OL-R) Persurized Concrete Pipe
High Density Polyethylene
Count
Fiber Optic
Overhead
Pair
Regulator --*---*-GAS FOR LABELED PIPE SIZES (QL-D) -*---*-GAS FOR LABELED PIPE SIZES (QL-C) :*****===********"**G(B)===*****= :====##"G(B)====: GAS FOR LABELED PIPE SIZES (QL-B) ----P-------*--P---*--PETROLEUM (QL-D) ----P(C)-------*--P(C)---*-PETROLEUM (QL-C) ----P(B)-------*--P(B)---*-PETROLEUM (OL-B) --*---*-PETROLEUM FOR LABELED PIPE SIZES (QL-D) =======P(C)===== : # = = = # * P(C) = = = # : PETROLEUM FOR LABELED PIPE SIZES (QL-C) :====*******P(B)====: : # = = = # # "P(B) = = = # : PETROLEUM FOR LABELED PIPE SIZES (QL-B) ----TC------*--TC---*--TRAFFIC CONTROL (QL-D) ----TC(C)-------*--TC(C)---*-TRAFFIC CONTROL (QL-C) ----TC(B)-------*--TC(B)---* TRAFFIC CONTROL (QL-B) ----IINK(R)----- * - - - I INK(R) - - - * -UNKNOWN UTILITY FOUND IN SUE INVESTIGATION (QL-B)

AMERICAN ENGINEERS, INC

4-000. dgn

carroll

UTILITY CELLS

EXISTING	PROPOSED	TEMPORARY		EXISTING	PROPOSED	TEMPORARY	
E	•	(3)	ELECTRIC MANHOLE	W			WELL
Н	н	H	HAND HOLE	w	w	w	WATER VAULT
Е	E	Е	TRANSFORMER	w>			WATER VALVE MARKER
E	(3	(3)	ELECTRIC METER	P	(<u>^</u>	STAND PIPE
\ominus	•		UTILITY POLE/GUY POLE	<u> </u>	ŏ	•	CLEANOUT
\Diamond	*	☆	LIGHT POLE	(SS)	SS	68	SANITARY SEWER MANHOLE
\prec	- ◀	\multimap	GUY ANCHOR	(ARV)	ARV	(ARD)	AIR RELEASE VALVE
E	E	▣	ELECTRIC BOX	GT	GT	GT	GREASE TRAP
<u> </u>	lack	<u> </u>	MARKER	<u> </u>	•	(S)	SANITARY SEWER FORCE MAIN VALVE
T	•		TELECOMMUNICATIONS MANHOLE	r	ŗ	កិ	VENT
Т			TELECOMMUNICATIONS PEDESTAL	©	@	©	GAS VALVE
x	x	X	SPLICE BOX	©	G	•	GAS METER
SLC	SLC	SLC	SUBCRIBER LOOP CARRIER (aka "SLICK")	(G)	G	©	GAS MANHOLE
			CABINET	(GPR)	GPR	GPR	GAS PRESSURE REGULATOR
)	Đ		PHONE BOOTH	G	G	G	GAS VAULT
ĭ	¥	$\widecheck{\blacksquare}$	CABLE TV PEDESTAL	GTS	GIS	GTS	GAS TEST STATION
ŢΨ	•		CABLE TV MANHOLE	P	•	(D)	PETROLEUM VALVE
w	•	©			MISC.		
w	•	w	WATER VALVE WATER METER	_	——LOS——		LIMITS OF OVERHEAD AND SUBSURFACE UTILITY INVESTIGATION
w	0	(W)	WATER MANHOLE				TEST HOLE (QL-A ONLY)
α	*	®	FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)		EOI (END OF INFORMATION
BFP	BFP	BFP	BACKFLOW PREVENTER		, - -		QUALITY LEVEL (QL) DELINEATION
PIV	PIV		PRESSURE INDICATOR VALVE		123		POLE ID
ARV	ARV	(ARV)	AIR RELEASE VALVE		(A01)		SANITARY SEWER MANHOLE (SSMH) ID

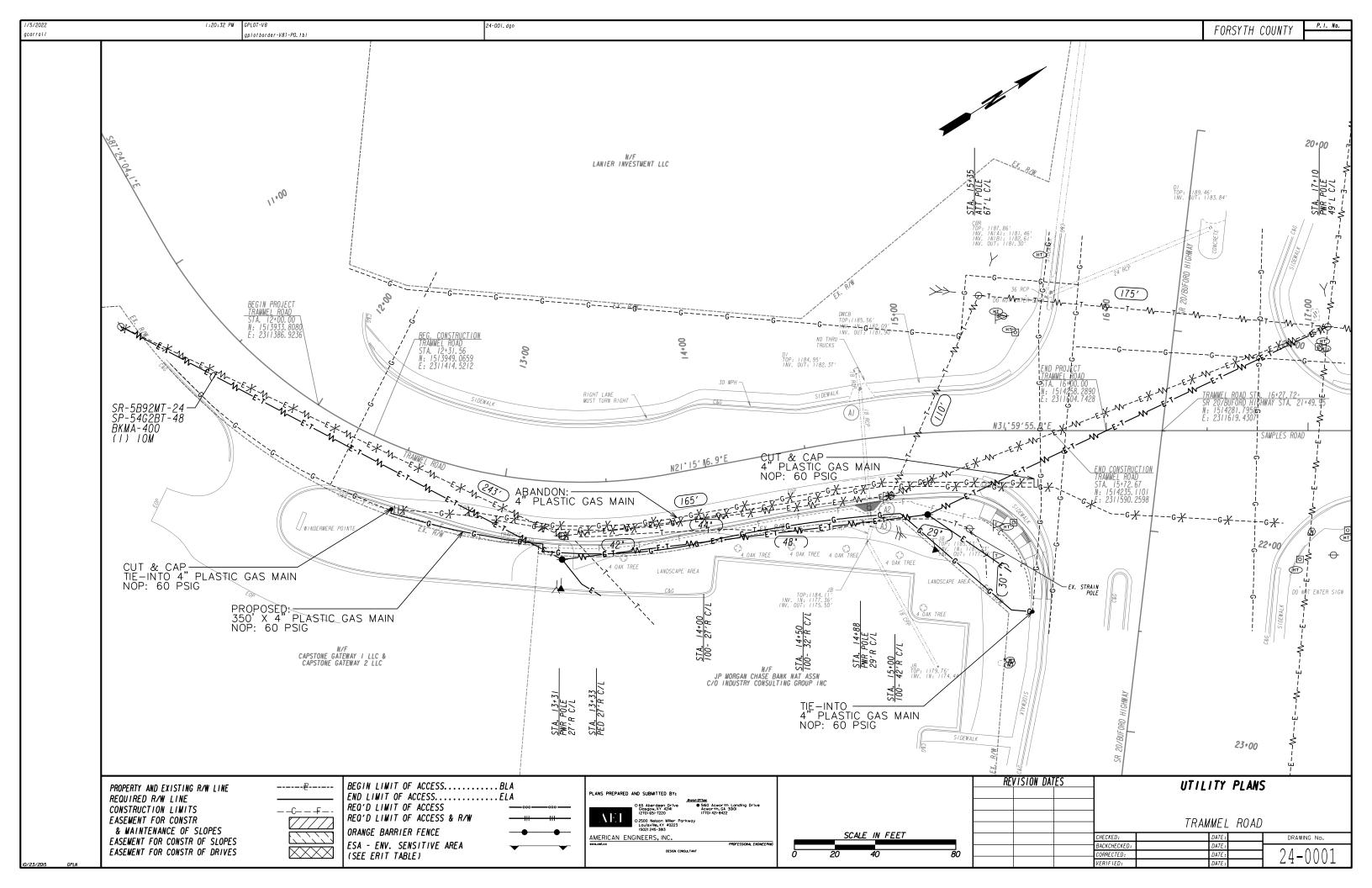
- OL-D DEPICTED ACCORDING TO UTILITY RECORD INFORMATION AND IN-FIELD VISUAL INSPECTION. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.
- OL-C EXISTING UTILITY STRUCTURES HAVE BEEN FIELD LOCATED AND SURVEYED TO ASSIST IN DEPICTING THE UTILITIES SHOWN ON RECORDS. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.

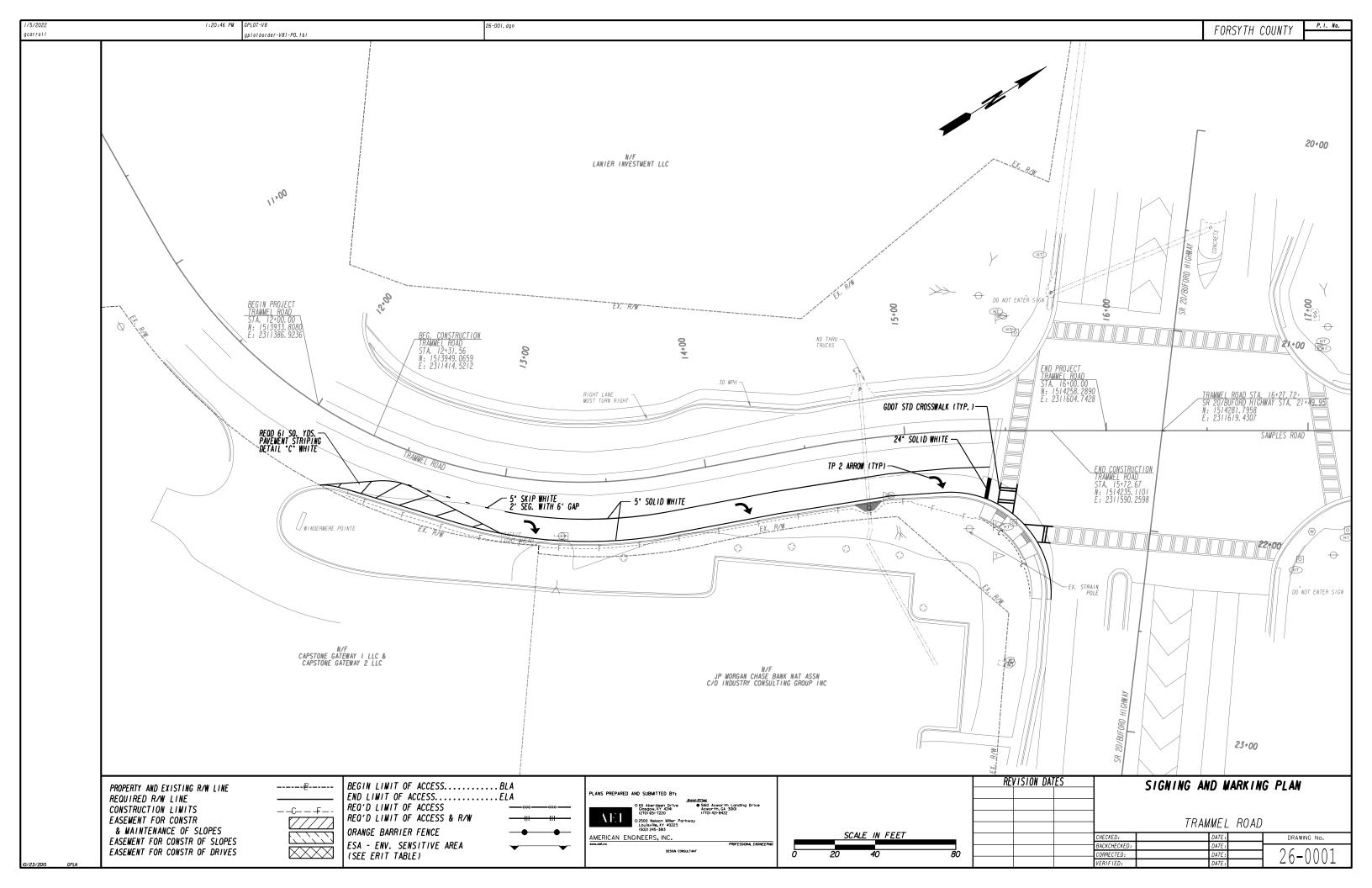


Know what's below. Gall before you dig.

REVISION DAȚES			UTILITY LEGEND						
				UTTETT	LLOLIN				
				TDAMA	MEL ROAD				
				I I A A WI W	ILL NUAD				
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			CORRECTED:	D	ATE:	1 24-0000			
			VEDIETED		ATE	1 47 0000			

FORSYTH COUNTY





CAUSE ANY PART OF THE SIGNAL OPERATION TO BE INOPERABLE.

THE CONTROLLER CABINET.

REQUIRED, AS DIRECTED BY THE ENGINEER.

SIGNAL ITEMS PRIOR TO REMOVING EXISTING SIGNALS FROM SERVICE.

9. WHEN APPLICABLE TO THE PLANS, THE CONTRACTOR SHALL INSTALL AND TEST ALL NEW

IO. WHEN APPLICABLE TO THE PLANS, CONTRACTOR SHALL BE REQUIRED TO PROVIDE A NEW

II. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NEW GUYS ON EXISTING POLES WHEN

ATTACHING SPAN WIRE OR FIBER OPTIC INTERCONNECT CABLE TO THE POLES, WHEN

12. SHIELDED CABLE SHALL BE USED FOR DETECTOR RUNS. AS SHOWN ON THE DETAIL SHEET.

DETECTORS SHALL HAVE SEPARATE LEAD-INS TO THE CONTROLLER CABINET. LOOP AND PEDESTRIAN DETECTOR CABLES SHALL BE 14 AWG IMSA 50-2 3-PAIR EQUIVALENT CABLE.

RISER, CONDUIT, CONDUCTORS AND DISCONNECT TO PROVIDE POWER SERVICE INTO

- ONE 7- OR 5-CONDUCTOR, 14 AWG, STRANDED CABLE AND TWO DETECTOR CABLES FOR PROPOSED AND FUTURE PEDESTRIAN SIGNALS SHALL BE INSTALLED AT EACH STRAIN POLE. A MINIMUM OF ONE 7-CONDUCTOR, 14 AWG, STRANDED SIGNAL CABLE FOR PROPOSED AND FUTURE VEHICLE SIGNALS SHALL BE INSTALLED ON ALL FOUR SIDES OF THE INSTALLATION.
- LOOP DETECTOR UNIT SHALL ENERGIZE ITS INDIVIDUAL LOOP CHANNELS NONCONCURRENTLY. DETECTOR UNIT SHALL BE FAIL SAFE (PROVIDE A CONSTANT CALL TO THE CONTROLLER IF LOOP FAILURE OCCURS
- CONTROLLER SHALL INCLUDE 5-VOLT 2 MB DATA KEY AND SHALL HAVE THE CURRENT GDOT LICENSE INTERSECTION SOFTWARE INSTALLED AND OPERATIONAL.
- HOT DIP GALVANIZED WELDLESS RINGS SHALL BE USED FOR SPAN WIRE JUNCTIONS. GUY ANCHORS SHALL BE GALVANIZED.

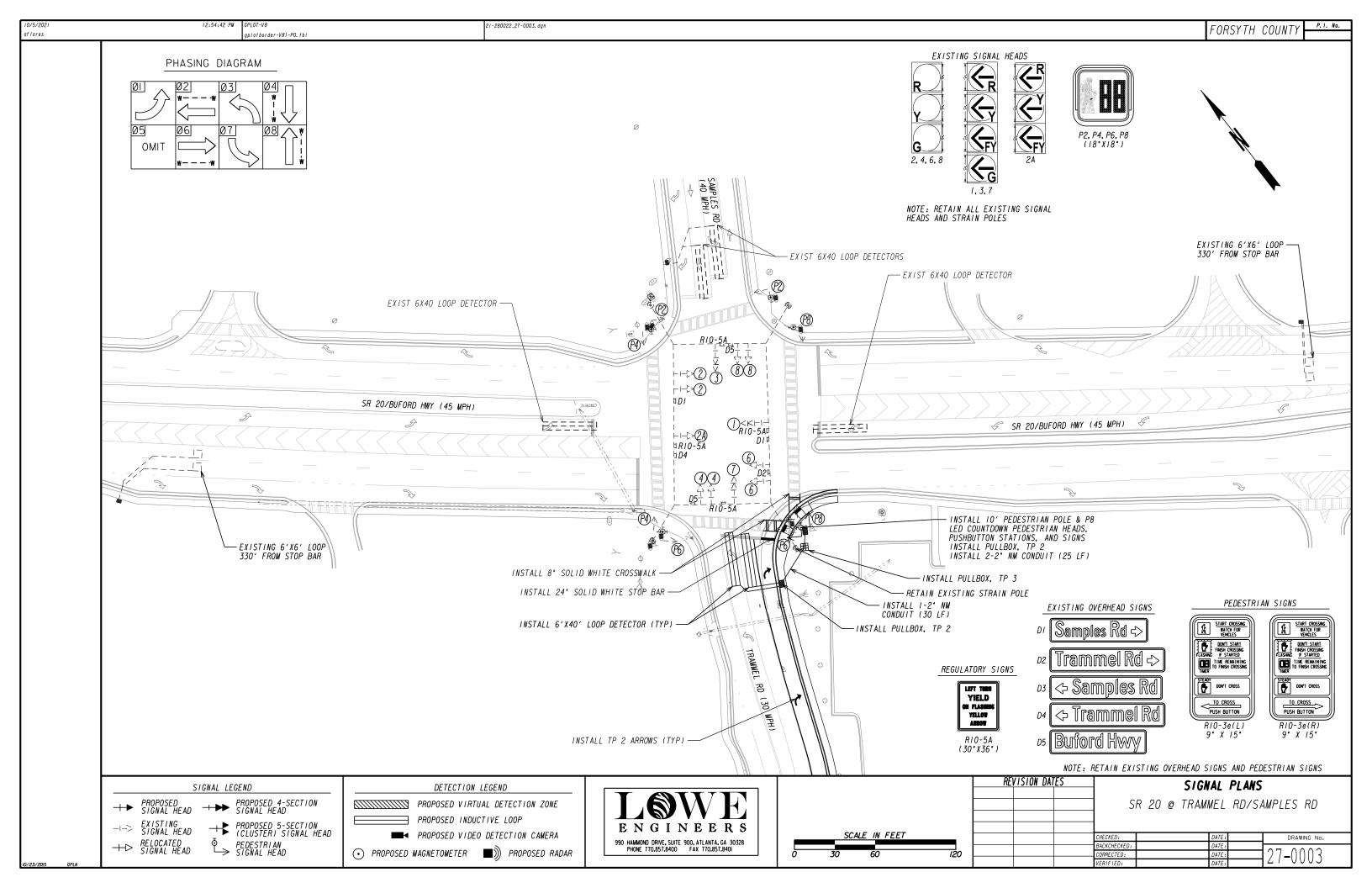
24. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE PAID FOR IN GRADING COMPLETE PAY ITEM.

FORSYTH COUNTY

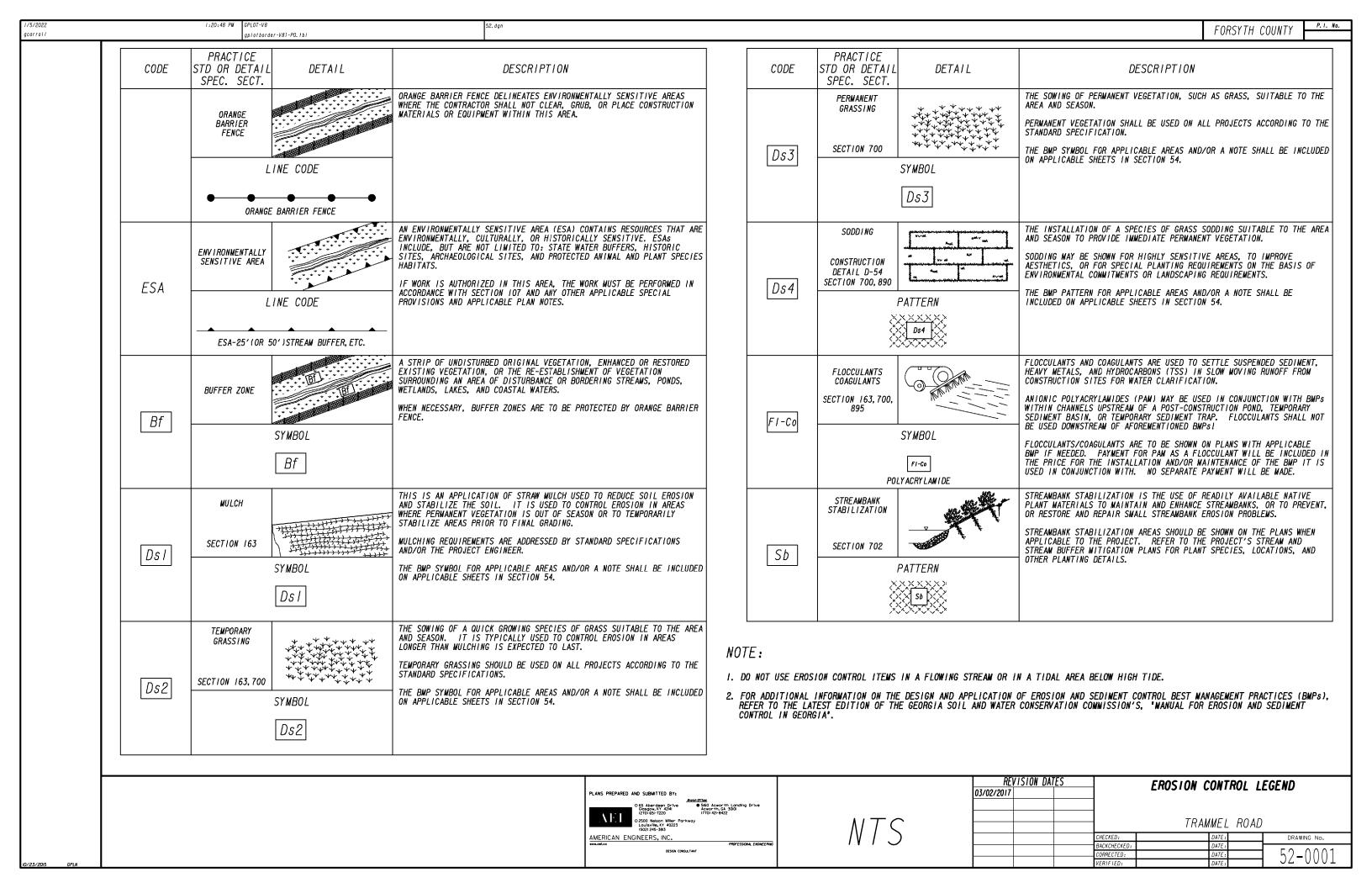
- 25. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AVOID ANY INTERFERENCE WITH UNDERGROUND UTILITIES OR GEORGIA DOT COMMUNICATIONS. ANY DAMAGE TO UTILITIES OR HENRY COUNTTY DOT COMMUNICATIONS CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL CALL GEORGIA 811 AND CONTACT THE GEORGIA DOT TRAFFIC ENGINEER PRIOR TO ANY DIGGING. CALLS SHALL BE PLACED AT LEAST 48 HOURS IN
- 26. 4G MODEMS IN SIGNAL CABINETS SHALL BE INSTALLED BY GDOT FORCES.

ENGINEERS 990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328 PHONF 770.857.8400 FAX 770.857.8401 REVISION DATES SIGNAL PLANS SR 20 @ TRAMMEL RD/SAMPLES RD DRAWING No. BACKCHECKEL

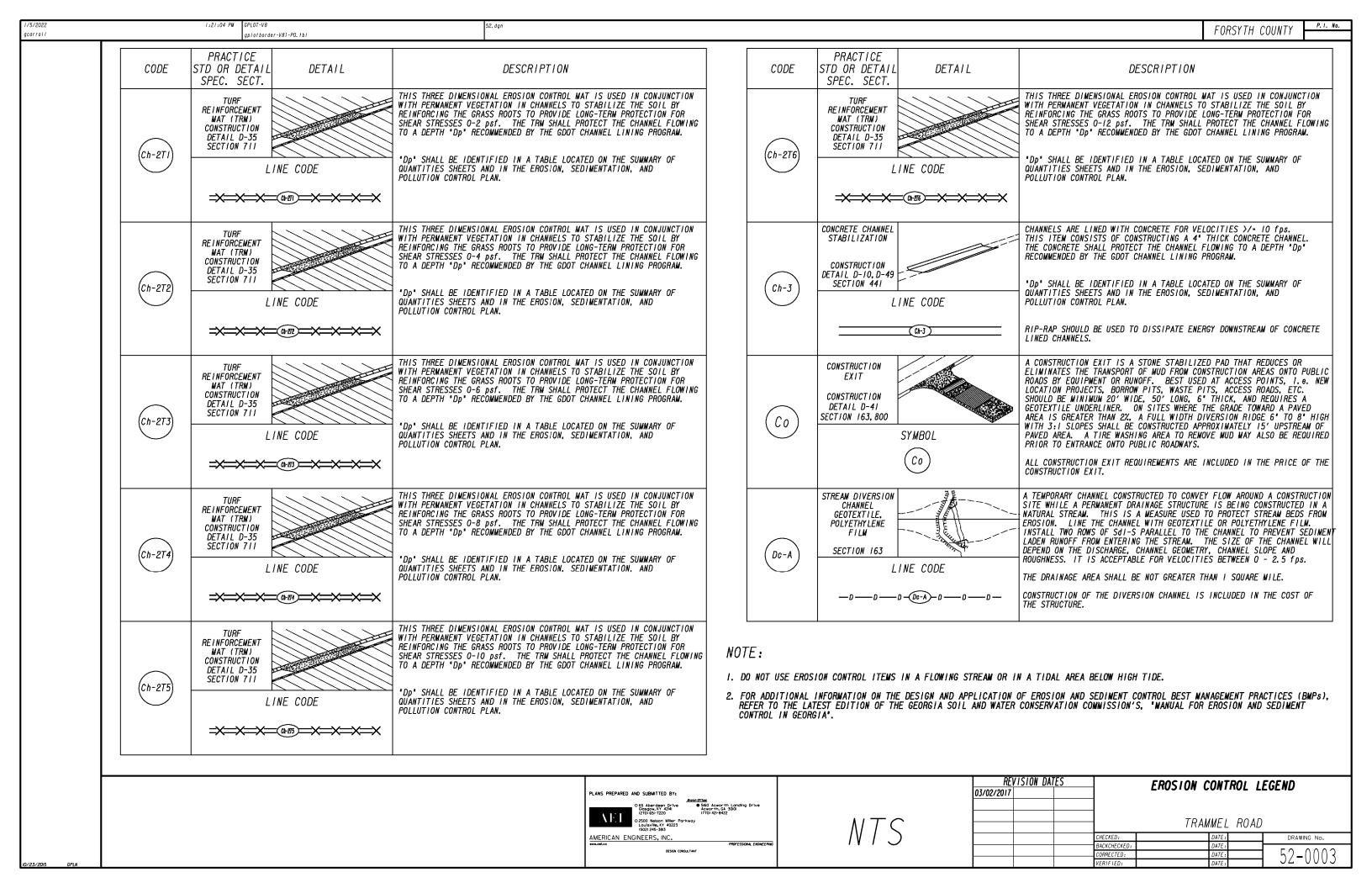
2021 es	12:54:27 PM GPLOT-VB gplotborder-V81-PO.tbl	-280022_27-0002. dgn	FORSYTH COUNTY Proj. No.
		LEGEND	
		LLULNU	PROPOSED SIGNAL
	EXISTING SIGNAL		CONTROLLER CABINET WITH BATTERY BACKUP
			CONTROLLER CABINET
			STRAIN POLE
	STRAIN POLE		→ TIMBER POLE
	→ TIMBER POLE		→ DOWN GUY
	-< DOWN GUY		=-= MAST ARM
	===== MAST ARM		STREET LIGHT
	STREET LIGHT		→ 3 SECTION HEAD
	{> 3 SECTION HEAD		→ 3 SECTION HEAD W/ BACKPLATE
	{> > 4 SECTION HEAD		→ 4 SECTION HEAD
	₹ 5 SECTION HEAD		+→ 4 SECTION HEAD W/ BACKPLATE
	TT OVERHEAD SIGN		5 SECTION HEAD
	PEDESTAL POLE		5 SECTION HEAD W/ BACKPLATE
	-{]] PED SIGNAL HEAD		OVERHEAD SIGN
	'LL' CURB CUT RAMP		
	□ PULLBOX,TP I		← PED SIGNAL HEAD
	₩ PULLBOX,TP 2		CURB CUT RAMP -(See ADA Detail)
	[=] PULLBOX,TP 4		□ PULLBOX,TP /
	[②] PULLBOX,TP 5		m PULLBOX,TP 2
	[] 6x6 PULSE LOOP		☐ 6x6 PULSE LOOP
	[] 6x18 CALL LOOP		6x18 CALL LOOP
	[] 6x40 PRESENCE LOOP (DIPOL	E)	6x40 PRESENCE LOOP (DIPOLE)
	[] 6x40 PRESENCE LOOP (QUAD		6x40 PRESENCE LOOP (QUADRUPOLE)
	<i>CONDUIT</i>		
	SESI RAILROAD CONTROLLER		
	¬- SIGN POST		RAILROAD CONTROLLER
			T SIGN POST
-			REVISION DATES SIGNAL PLANS
		LIBWE	LEGEND
		ENGINEERS	SR 20 @ TRAMMEL RD/SAMPLES RD
		990 HAMMOND DRIVE, SUITE 900, ATLANTA, GA 30328 PHONE 770,857,8400 FAX 770,857,8401	CHECKED: DATE: DRAWING NO. BACKCHECKED: DATE: O. T. O. O. O.
/2016 GPLN		THE THEOLOGY THE TOURING	CORRECTED: DATE: 27-0002

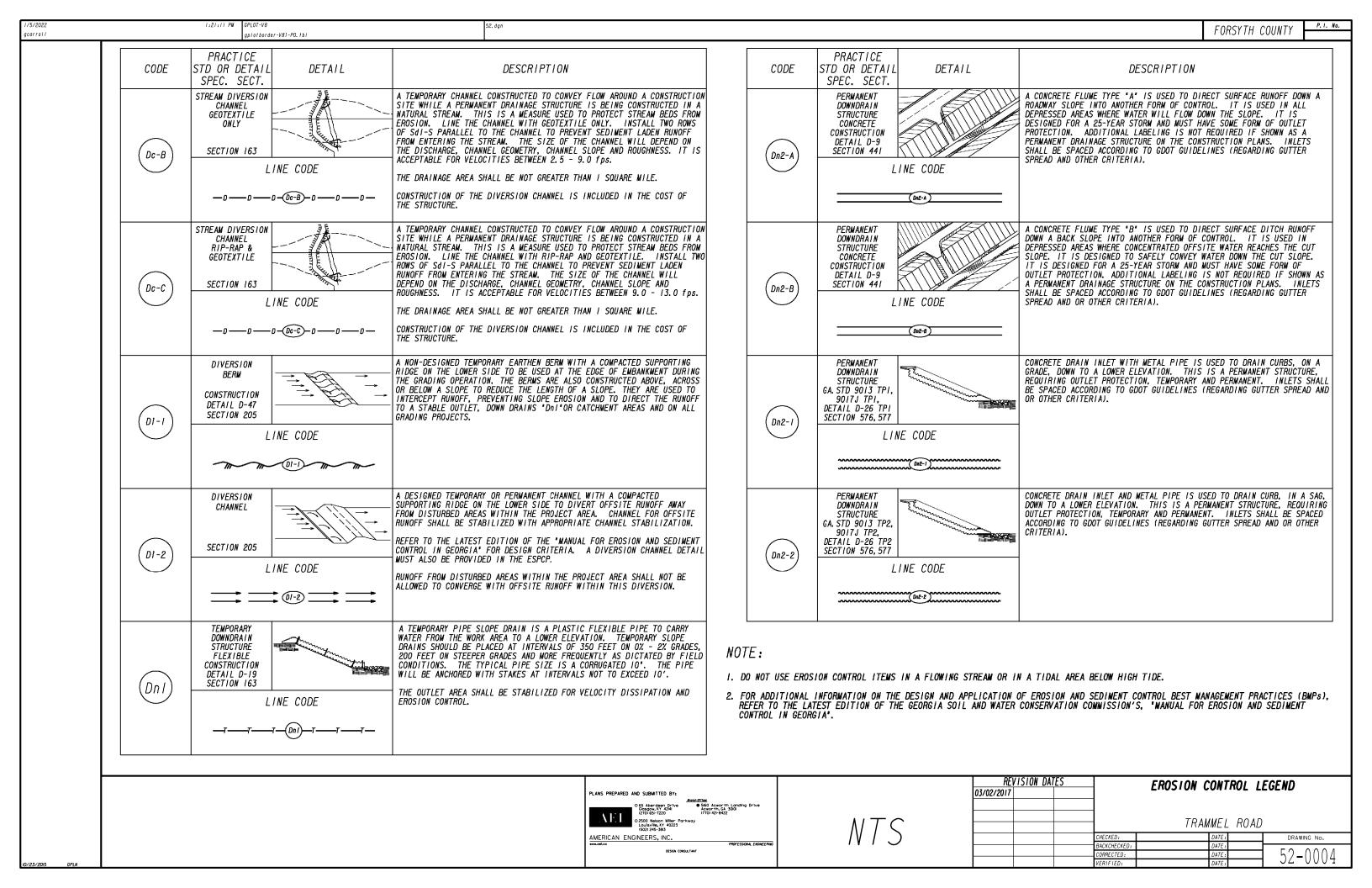


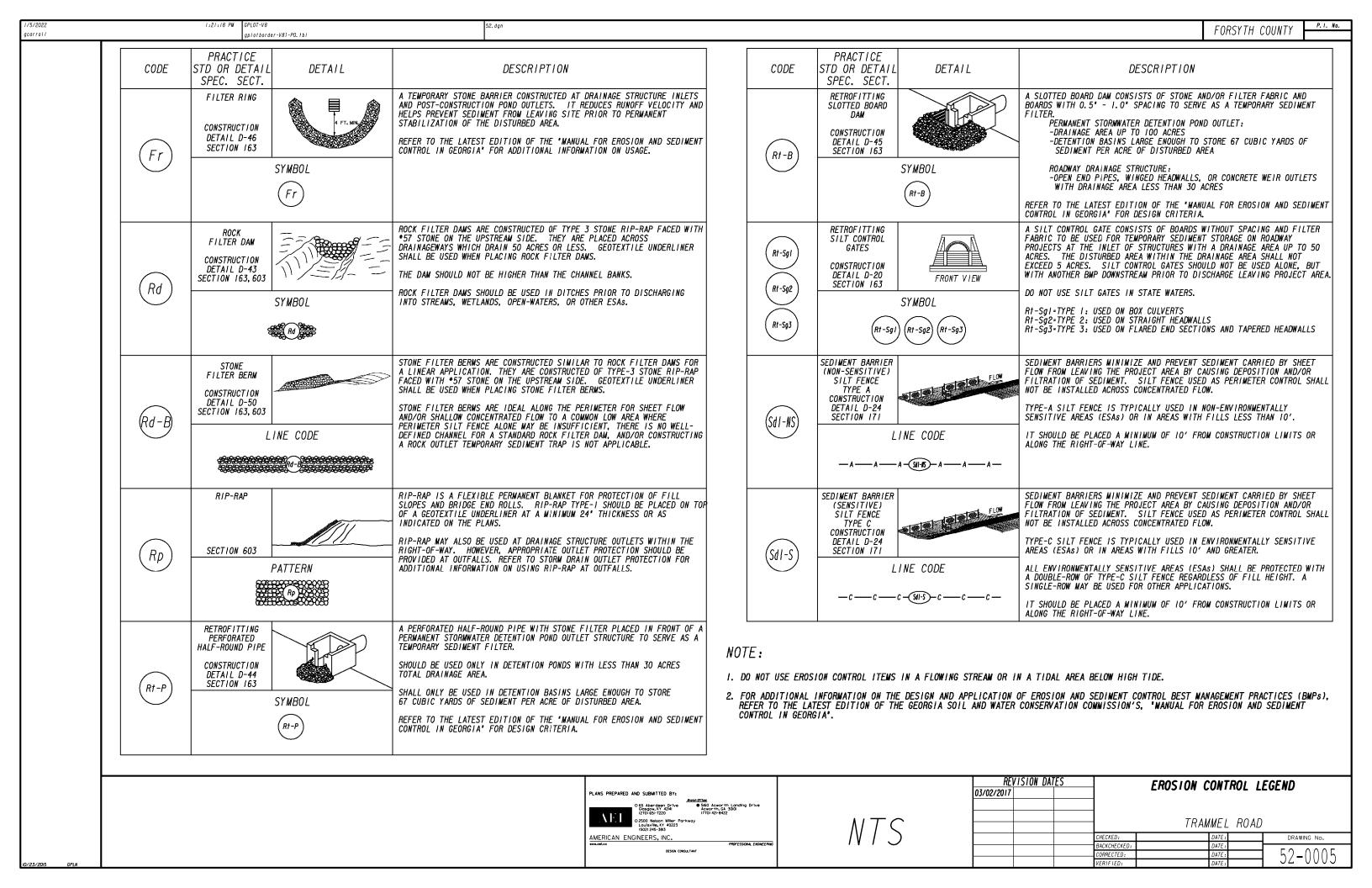
				FORSYTH COUN
i i				
	TRAFFIC SIGNAL INSTALLATION NO. 1			
	LOCATION: SR 20 @ TRAMMEL RD/SAMPLES RD			
	LIST OF MATERIALS			
	PROJECT NUMBER:			
	LIST OF MATERIALS	UNIT	QUANTITY	
	CONTROLLER CABINET ASSEMBLIES			
	LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT); 3 PAIR, 18 AWG	REEL	1	
	SIGNAL CABLE (14 AWG); 7 CONDUCTOR, PER 1000 FT.	REEL	1	
	LOOP DETECTOR WIRE (14 AWG, STRANDED/1000 FT)	REEL	1	
	1-SECTION, 16" x 18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP			
	9" HIGH, Numbers & 12" Symbols	EA	2	
	PEDESTRIAN PUSHBUTTONS STATIONS, w/BUTTONS and SIGNS:			
	9" x 15", R10-3e, (L)eft or (R)ight, Countdown	EA	2	
	HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY	EA	1	
	PEDESTAL POLE	EA	1	
	PULL BOX, PB-2	EA	2	
	PULL BOX, PB-3	EA	1	
	LOOP SAW CUT	LF	315	
	CONDUIT, TYPE 2, 2"	LF	60	
	MISCELLANEOUS MATERIALS NEEDED TO COMPLETE INSTALLATION	LUMP	LUMP	
				_
	SIGNAL PAY ITEMS			
	647-1000 TRAFFIC SIGNAL INSTALLATION NO 1	LS	LUMP	7

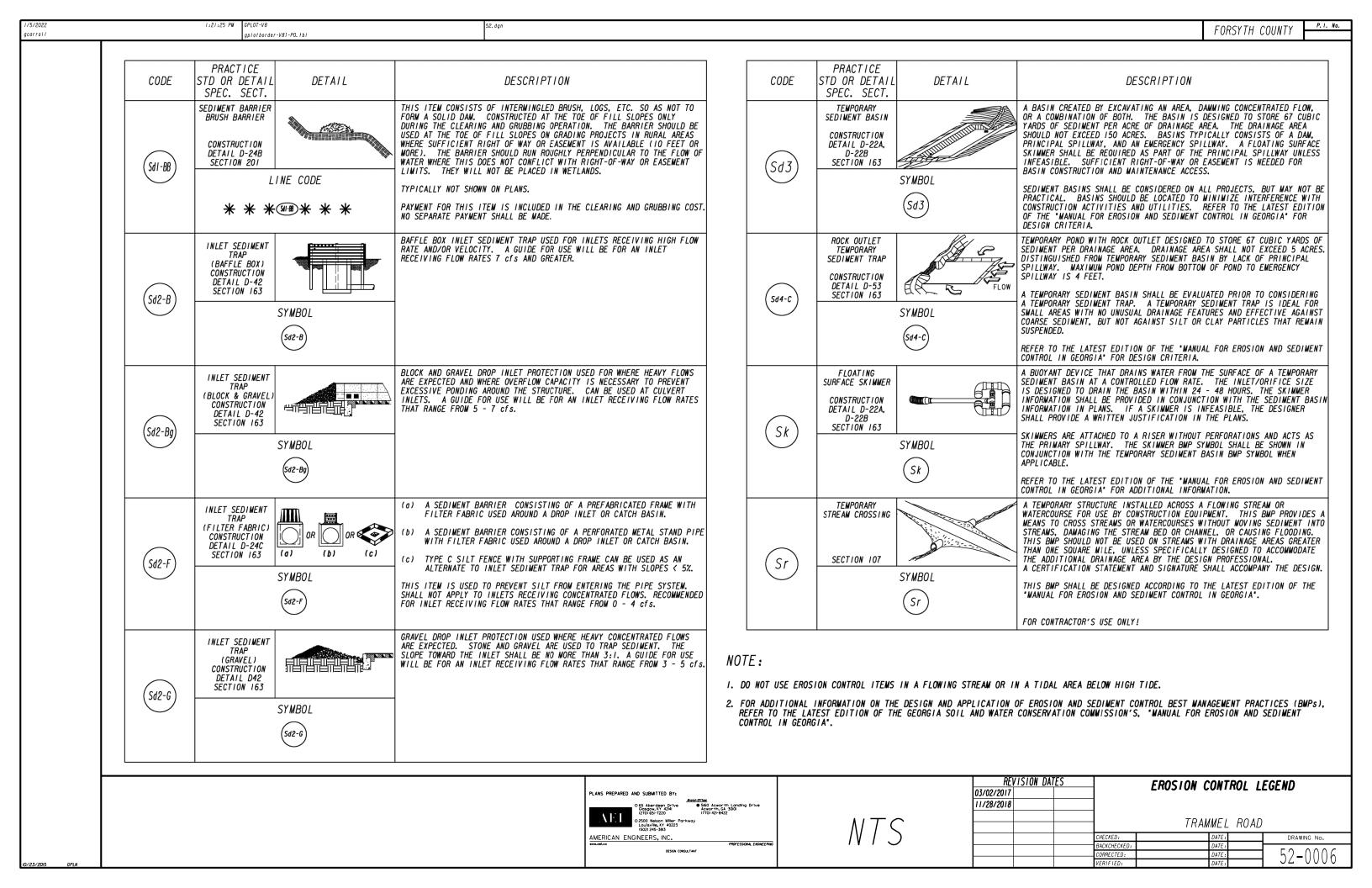


FORSYTH COUNTY carroll PRACTICE PRACTICE CODE STD OR DETAIL DETAIL DESCRIPTION CODE STD OR DETAIL DETAIL DESCRIPTION SPEC. SECT. SPEC. SECT. STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE STONE CHECK DAM COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING STABILIZATION SANDBAG CHECK DAM OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE. CONSTRUCTION SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) CONSTRUCTION DETAIL D-35 OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP). SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR DETAIL D-56 SECTION 716 SECTION 163, 603 TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS Ss Cd-S PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF SYMBOL **PATTERN** 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR (cd-s NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS. USED AT THE DOWNSTREAM DISCHARGE POINT. TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. TACKIFIERS MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, **VEGETATED CHANNEL** STABILIZATION ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON SECTION 163. TYPICALLY NOT SHOWN IN PLANS. 700. 895 SECTION 700 THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY Ch-I Tac OR PERMANENT GRASSING. SYMBOL LINE CODE REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR CRITERIA. Tac Ţ\$ŢŢŢŢŢŢŢŢ POLYACRYLAMIDE A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC. WIRE REINFORCED. THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE I RIP-RAP 24° CHANNEL FABRIC STABILIZATION RIP-RAP, TYPE I POST. OVERFLOW WEIR. AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE CHECK DAM UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL DEPTH "DD" RECOMMENDED BY THE GOOT CHANNEL LINING PROGRAM. CONSTRUCTION CONSTRUCTION D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. DETAIL D-24D DETAIL D-49 SECTION 171 THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART SECTION 603 Cd-F (Ch-2R1 *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE. SYMBOL LINE CODE IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR POLLUTION CONTROL PLAN. WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE (Cd-F USED AT THE DOWNSTREAM DISCHARGE POINT. A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24° COMPOST CHANNEL STABILIZATION RIP-RAP, TYPE 3 BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE FILTER SOCK MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A CHECK DAM THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. DEPTH "Do" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. CONSTRUCTION CONSTRUCTION REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT DETAIL D-52 DETAIL D-49 CONTROL IN GEORGIA" FOR MATERIAL SPECIFICATIONS. SECTION 603 SECTION 163 Cd-Fs (Ch-2R3 "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN. A MINIMUM OF ONE ROCK FILTER DAM SHALL BE QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND SYMBOL LINE CODE POLLUTION CONTROL PLAN. USED AT THE DOWNSTREAM DISCHARGE POINT. (Cd-Fs A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH BALED STRAW WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WIT CHECK DAM BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF NOTE: BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S CONSTRUCTION LONG. WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASH DETAIL D-52 PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS. I. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE. SECTION 163 Cd-Hb IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.O-CFS OR 2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE SYMBOL USED AT THE DOWNSTREAM DISCHARGE POINT. CONTROL IN GEORGIA". (Cd-Hb) REVISION DATES EROSION CONTROL LEGEND 03/02/2017 5160 Acworth Landing Drive Acworth, GA 30101 (770) 421-8422 11/28/2018 TRAMMEL ROAD AMERICAN ENGINEERS, INC DRAWING No BACKCHECKE









1/5/2022 gcarroll		1:21:34 PM GPLOT-V8 gplotborder-V81-PO.tb1	52. dgn							FORSYTH C	COUNTY P. 1. No.
	CODE	PRACTICE STD OR DETAIL DETAIL SPEC. SECT.	DESCRIPTIO	ON	co	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL		DESCRIPTION	,	
	St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332 SYMBOL	A PIPE OR BOX CULVERT OUTLET HEADWAL BLOCKS IS USED TO REDUCE VELOCITY AT ENTERING AN EXISTING STREAM OR PUBLI IT IS USED ON THE OUTLET OF ALL BOX PIPES. MAY BE USED ON INLET FOR FLO PIPES WHEN OUTLET VELOCITY OF THE 25 GREATER.	THE OUTLET OF A PIPE PRIOR TO ICLY MAINTAINED DRAINAGE SYSTEM. CULVERTS AND ON 48' AND LARGER DWING STREAMS. USE ON SMALL							
	St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603 PATTERN FLAT AREA OR WELL-DEFINED CHANNEL	RIP-RAP OUTLET PROTECTION IS USED TO OF A PIPE, CHANNEL, OR STRUCTURE PRI STREAM OR PUBLICLY MAINTAINED DRAINA OF RIP-RAP OUTLET PROTECTION SHALL E BUT LARGER STORMS ARE RECOMMENDED. TYPE-I RIP-RAP AT A DEPTH OF 36' AND PREFERRED FOR ALL 450 - I8' AND PLACED ON FILTER FABRIC MAY REFER TO THE LATEST EDITION OF THE CONTROL IN GEORGIA' FOR REQUIRED DESINFORMATION TO BE INCLUDED IN THE PL	IOR TO ENTERING AN EXISTING AGE SYSTEM. THE MINIMUM DESIGN BE THE 25-YEAR STORM PEAK FLOW, D PLACED ON FILTER FABRIC IS TYPE-3 RIP-RAP AT A DEPTH OF BE USED FOR 050 - 0.7 FEET. "MANUAL FOR EROSION AND SEDIMENT SIGN DIMENSIONS AND OTHER</td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
	Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205 LINE CODE	PROVIDING A ROUGH SOIL SURFACE WITH OPERATING A CLEATED DOZER ON THE SLO CREATING SERRATED SLOPES IN THE GRAD BENCHES WILL REDUCE RUNOFF VELOCITY WATER. IN MOST CASES THIS BMP IS NOT REQUIFE BUT REQUIRED TO BE COMPLETED BY THE IF SERRATED SLOPES ARE SPECIFIED BY SHALL BE SHOWN ON THE PLANS WHERE SE	OPE IN A VERTICAL DIRECTION. DING PROCESS TO CONSTRUCT AND INCREASE INFILTRATION OF RED TO BE SHOWN ON THE PLANS, CONTRACTOR UNDER ALL PROJECTS. THE SOIL SURVEY, THEN THIS BMP							
	(To-F)	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170 FLOATING LINE CODE	A FLOATING TURBIDITY CURTAIN IS USED MOVING IN WATER BY ALLOWING IT TO DEWITHIN THE CONSTRUCTION AREA. IT IS CONSTRUCTION IS REQUIRED IN A LARGE RIVERS. IT SHOULD BE USED AS DIRECT THIS BMP IS ONLY TO BE USED WHEN PERINTO A STATE WATER, OR AS A SUPPLEME PERIMETER BMPS. IT MAY ALSO BE REFERRED TO AS A FLOASILT CURTAIN.	ROP OUT OF SUSPENSION AND REMAIN S TYPICALLY USED WHERE BODY OF WATER SUCH AS LAKES AND FED BY THE ENGINEER. RMITTED FILL IS BEING PLACED ENT TO ADEQUATELY PLACED							
	(Tc-S)	CONSTRUCTION DETAIL D-51 SECTION 170 STAKED LINE CODE	A STAKED TURBIDITY CURTAIN IS USED TO MOVING IN WATER BY ALLOWING IT TO DE WITHIN THE CONSTRUCTION AREA. IT IS INUNDATED AREAS. IT MAY BE USED TO REALIGNED OR RESTORED. IN THIS CASE BOTTOM OF STREAMBED. THE HEIGHT SHED DIRECTED AND EXTEND 2 FEET ABOVE NOR BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERINTO A STATE WATER, OR AS A SUPPLEME PERIMETER BMPS.	S TYPICALLY USED IN SHALLOW PROTECT A SMALL STREAM BEING E, CURTAIN SHOULD EXTEND TO DULD BE LIMITED TO 5 FEET UNLESS RMAL WATER ELEVATION. IT SHOULD RMITTED FILL IS BEING PLACED ENT TO ADEQUATELY PLACED	2. FOR ADDIT	SE EROSION CONTROL ITEMS . TIONAL INFORMATION ON THE THE LATEST EDITION OF THE N GEORGIA".	DESIGN AND APPLICATION	ON OF EROSION AND S	EDIMENT CONTROL BEST	MANAGEMENT PRAC OR EROSION AND	CTICES (BMPs), SEDIMENT
10/23/2015 GPLN				PLANS PREPARED AND SUBMITTED BY: O 65 Aberdeen Drive Gospow, NY 4241 (2710 651-7220 C) 2500 Netson Mitter Porkwoy (7170 C) C 9250 Netson Mitter	Acworth Landing Drive Drith, GA 3000 421-8422 PROFESSONAL ENGINEERING	NTS	03/02/201	REVISION DATES		RAMMEL ROAD DATE: DATE: DATE: DATE: DATE:	

