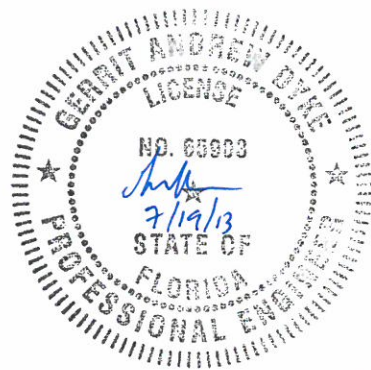


DRAWING INDEX

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1 of 3	GENERAL NOTES
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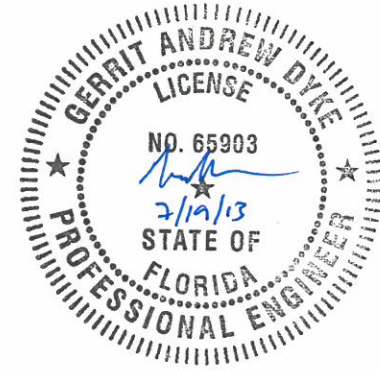
X-LITE END TERMINAL - PARALLEL

1. THE GUARDRAIL END ANCHORAGE SYSTEM REPRESENTED ON THIS QUALIFIED PRODUCT LIST (QPL) IS A PROPRIETARY DESIGN BY BARRIER SYSTEMS, INC (BSI) AND MARKETED UNDER THE TRADE NAME X-LITE.
2. THIS DRAWING IS SUFFICIENT FOR PLAN DETAILS FOR THE X-LITE PARALLEL END TERMINAL WHEN INSTALLED IN CONNECTION WITH SHOULDER GUARDRAIL, AND PRECLUDES THE REQUIREMENT FOR SHOP DRAWING SUBMITTALS UNLESS THE PLANS OTHERWISE CALL FOR SUCH SUBMITTALS. THE X-LITE PARALLEL END TERMINAL SHALL BE ASSEMBLED IN ACCORDANCE WITH THE MANUFACTURER'S DETAILED DRAWINGS, PROCEDURES, AND SPECIFICATIONS.
3. THE X-LITE PARALLEL END TERMINAL IS AVAILABLE IN THE STEEL POST WITH WOOD BLOCKOUT CONFIGURATION ONLY. POSTS #1 AND #3 ARE CRIMPED STEEL W6X8.5 OR W6X9 WIDE FLANGE POSTS. POSTS #4 THROUGH #6 ARE STANDARD STEEL W6X8.5 OR W6X9 WIDE FLANGE POSTS. POST #2 IS A SPECIAL STEEL FLANGED POST WITH AN INTEGRAL SOIL PLATE (SEE MANUFACTURER DETAILS). SINCE THE X-LITE PARALLEL END TERMINAL IS ONLY AVAILABLE IN A STEEL POST CONFIGURATION, IT SHOULD NOT BE USED ADJACENT TO SIDEWALKS.
4. THE X-LITE PARALLEL END TERMINAL IS INTENDED FOR USE AS AN APPROACH END GUARDRAIL ANCHORAGE FOR SHOULDER GUARDRAIL. THE BEGINNING OF LENGTH OF NEED IS LOCATED AT POST #3. THE EFFECTIVE LENGTH OF THE X-LITE PARALLEL END TERMINAL IS 37'-6". THE ALIGNMENT OF THE X-LITE PARALLEL END TERMINAL CAN BE OFFSET UP TO 2'-0".
5. THE X-LITE PARALLEL END TERMINAL CANNOT BE USED IN MEDIANS WHERE HORIZONTAL CLEARANCE REQUIRES THE USE OF A BACKRAIL.
6. METALLIC COMPONENTS SHALL MEET THE GALVANIZING REQUIREMENTS FOR GUARDRAIL, SECTION 967 OF THE FDOT SPECIFICATIONS.
7. FOR DETAILS OF SHOULDER WIDENING, MISCELLANEOUS ASPHALT PAVEMENT AND PAY LIMITS, SEE INDEX 400.
8. IF THE PLANS CALL FOR THE X-LITE PARALLEL END TERMINAL AT A SPECIFIC LOCATION, SUBSTITUTION WITH OTHER END ANCHORAGE ASSEMBLIES WILL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER. IF THE PLANS CALL FOR END ANCHORAGE ASSEMBLY "PARALLEL" AT A SPECIFIC LOCATION, THE CONTRACTOR HAS THE OPTION TO CONSTRUCT ANY FDOT APPROVED PARALLEL ASSEMBLY. WHERE A FLARED END ANCHORAGE ASSEMBLY IS CALLED FOR IN THE PLANS, ANY APPROVED SUBSTITUTION WITH A PARALLEL END ANCHOR WILL NOT BE ELIGIBLE FOR VECF CONSIDERATION. CONTRACTOR HAS THE OPTION TO CONSTRUCT ANY FDOT APPROVED PARALLEL ASSEMBLY.
9. THE X-LITE PARALLEL END TERMINAL SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR GUARDRAIL, END ANCHORAGE ASSEMBLY (PARALLEL), PER EA AND SHALL BE FULL COMPENSATION FOR FURNISHING AND INSTALLING ALL COMPONENTS IN ACCORDANCE WITH THE PLANS, MANUFACTURER'S DETAILED DRAWINGS, PROCEDURES AND SPECIFICATIONS, AND THIS DRAWING.
10. MAINTAIN A RELATIVELY CLEAR AND TRAVERSABLE RUN-OUT AREA BEHIND AND BEYOND ALL GATING END TERMINALS.



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APPROVALS		INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-1994		TITLE		X-LITE PARALLEL TERMINAL	
DRAWN BY: JMT		THIRD ANGLE PROJECTION		SIZE		DWG NO.	
DRAWN DATE: 04/26/13				1		BSI-1304042-AP	
APPR'D BY: GAD				0		AP 00954	
APPR'D DATE: 07/19/13		DO NOT SCALE DRAWING		REV		ECN#	
				DATE		SCALE	
				06/27/13		NTS	
				04/26/13		FDOT QPL S536-0221	
				SHEET		1 OF 3	

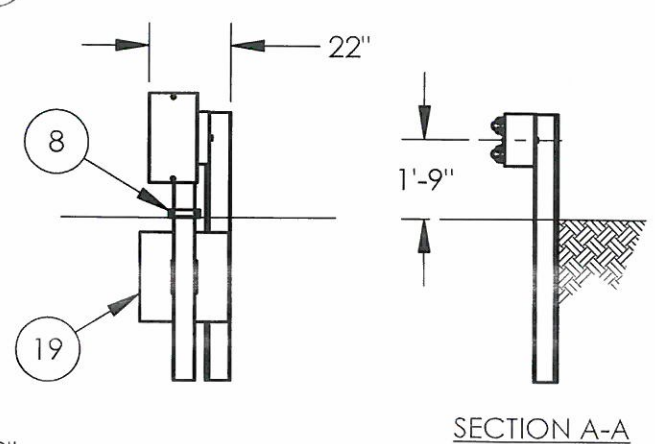
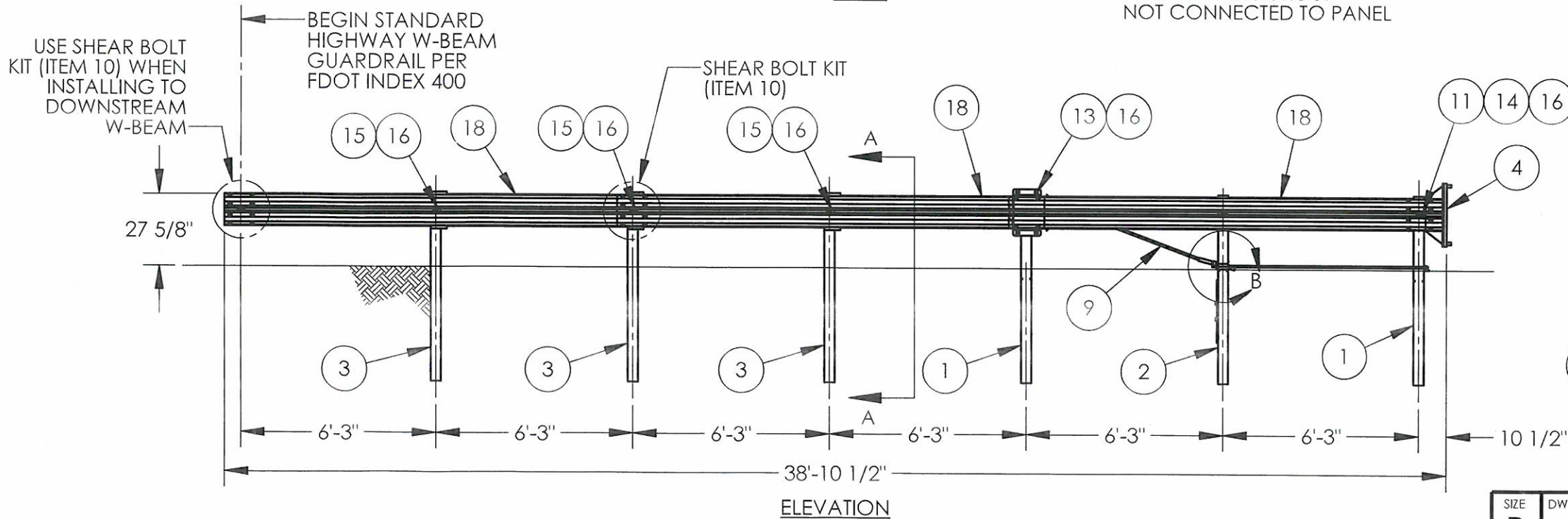
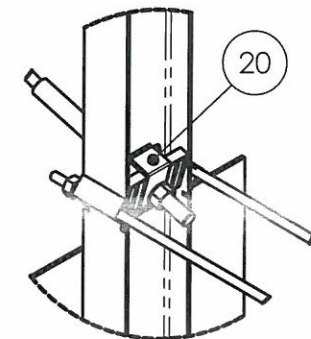
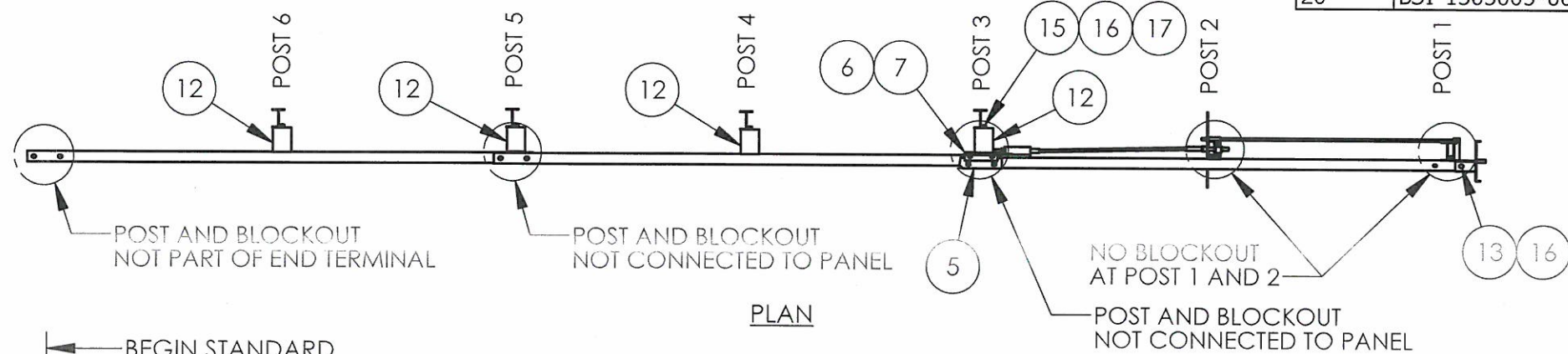
SYSTEM WIDTH	MODEL NUMBER	DESIGN SPEED	TEST LEVEL	SYSTEM LENGTH	DESIGN LENGTH
22"	XLTSUST	≤ 45 MPH	TL-2	38' - 10 1/2"	37' - 6"
22"	XLTSUST	≥ 50 MPH	TL-3	38' - 10 1/2"	37' - 6"



ITEM	PART NO	DESCRIPTION	QTY	SPEC
1	BSI-1012079-00	Crimped Post, X-Lite	2	X-LITE
2	BSI-1012086-00	POST II, X-LITE, GALV	1	X-LITE
3	BSI-1012078-00	Line Post, X-Lite	3	FDOT
4	BSI-1012103-00	Impact Head, X-Lite	1	X-LITE
5	BSI-1012093-00	Slider Panel, Front, X-Lite	1	X-LITE
6	BSI-1012090-00	Slider Bracket, X-Lite	1	X-LITE
7	BSI-1012096-00	Slider Panel, Back, X-Lite	1	X-LITE
8	BSI-1102001-KT	Ground Strut Kit, X-Lite	1	X-LITE
9	BSI-1012104-00	Cable Anchor Assembly, X-Lite	1	X-LITE
10	K080123	Kit, X-Tension Shear Bolt,	2	X-LITE
11	BSI-1102027-00	Washer, Square, X-Lite	1	X-LITE
12	4002337	W-Beam Timber Blockout PDB01b	4	FDOT
13	4001115	Guardrail Bolt 5/8-11x 1 1/4	16	FDOT
14	2000464	Bolt CH 5/8-11x1 1/2 Gr5 MGal	2	FDOT
15	2000465	Bolt CH 5/8-11x9 Gr5 MGal	4	FDOT
16	4001116	Guardrail Nut Recessed 5/8-11	22	FDOT
17	2001380	Wshr 3/4 F436 Flat Rd Struct	1	FDOT
18	4000443	W-Beam Guardrail RWM02a	3	FDOT
19	BSI-1106016-KT	X-Lite Soil Plate Kit	1	X-LITE
20	BSI-1303005-00	Bracket, X-Lite, Cable Retention	1	X-LITE

NOTES: UNLESS OTHERWISE SPECIFIED.

- FOR LOW SPEED FACILITIES WITH A DESIGN SPEED ≤ 45 MPH USE A TL-3 SYSTEM.
- FOR HIGH SPEED FACILITIES WITH A DESIGN SPEED ≥ 50 MPH USE A TL-3 SYSTEM
- ALL GUARDRAIL POSTS, PANELS, BLOCKOUTS AND ASSOCIATED HARDWARE SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 536 AND DESIGN STANDARD INDEX 400.

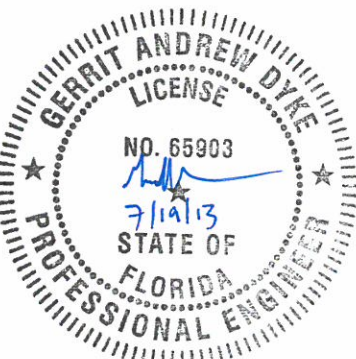
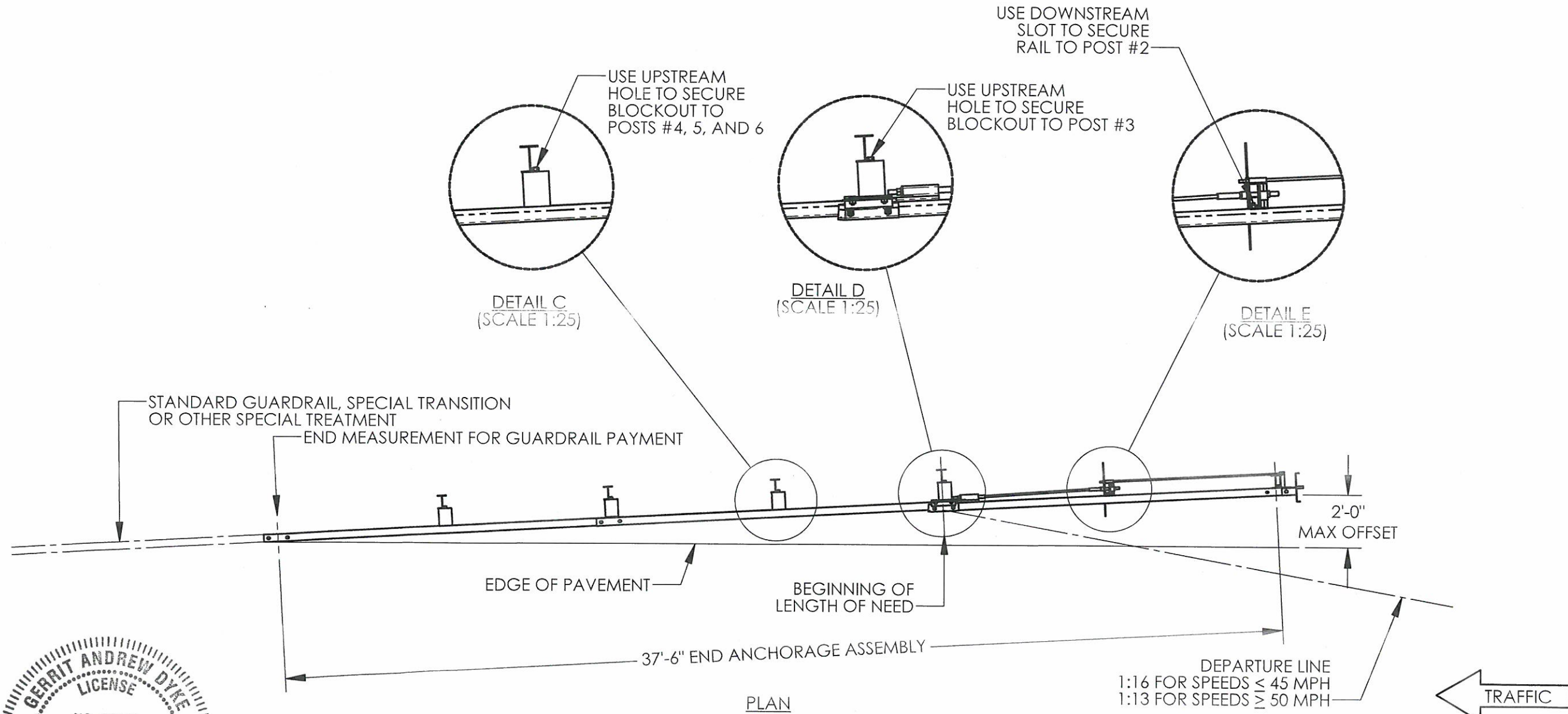


X-LITE PARALLEL END TERMINAL SYSTEM LAYOUT

SIZE B	DWG. NO. BSI-1304042-AP	REV. 1
SCALE 1:50	FDOT QPL S536-0221	SHEET 2 OF 3

NOTES: UNLESS OTHERWISE SPECIFIED.

1. ALL BOLTS, NUTS, CABLE ASSEMBLIES, CABLE ANCHOR, GROUND STRUT, SLIDER PANEL AND BRACKET, IMPACT HEAD AND OTHER STEEL COMPONENTS SHALL MEET THE GALVANIZING REQUIREMENTS FOR GUARDRAIL, SECTION 967 OF THE FDOT STANDARD SPECIFICATIONS.
2. IF ROCK EXCAVATION IS ENCOUNTERED, CONSULT THE MANUFACTURER'S INSTALLATION MANUAL FOR RECOMMENDATIONS.
3. WHEN SITE CONDITIONS PERMIT, POSTS MAY BE DRIVEN. IF POSTS ARE PLACED IN A DRILLED HOLE, THE BACKFILL MATERIAL MUST BE SATISFACTORILY COMPECTED TO PREVENT SETTLEMENT.
4. THE SPECIAL SHEAR BOLTS USED TO CONNECT THE W-BEAM PANELS AT POSTS #5 AND 7 ARE DIFFERENT THEN STANDARD SPLICE BOLTS. FOR EASY IDENTIFICATION THEY ARE SUPPLIED WITH YELLOW HEADS.



X-LITE PARALLEL END TERMINAL DETAILS

SIZE B	DWG NO. BSI-1304042-AP	REV. 1
SCALE 1:50	FDOT QPL S536-0221	SHEET 3 OF 3