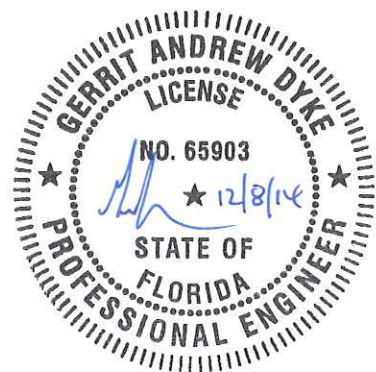


DRAWING INDEX

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3 of 3	X-LITE FLARED END TERMINAL DETAILS

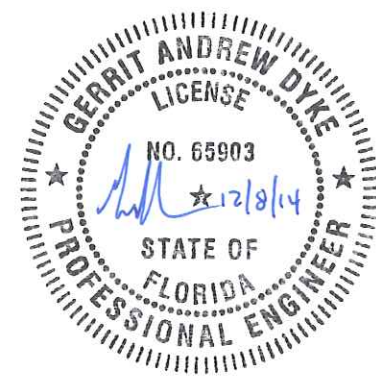
X-LITE END TERMINAL - FLARED

1. THE GUARDRAIL END ANCHORAGE SYSTEM REPRESENTED ON THIS QUALIFIED PRODUCT LIST (QPL) IS A PROPRIETARY DESIGN BY LINDSAY TRANSPORTATION SOLUTIONS (LTS) AND MARKETED UNDER THE TRADE NAME X-LITE.
2. THIS DRAWING IS SUFFICIENT FOR PLAN DETAILS FOR THE X-LITE FLARED 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 FLARED END TERMINAL SHALL BE ASSEMBLED IN ACCORDANCE WITH THE MANUFACTURER'S DETAILED DRAWINGS, PROCEDURES, AND SPECIFICATIONS.
3. THE X-LITE FLARED END TERMINAL IS AVAILABLE IN THE STEEL POST CONFIGURATION ONLY. POSTS #1 AND #3 THROUGH #6 ARE CRIMPED 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 FLARED END TERMINAL IS ONLY AVAILABLE IN A STEEL POST CONFIGURATION, IT SHOULD NOT BE USED ADJACENT TO SIDEWALKS.
4. THE X-LITE FLARED 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 FLARED END TERMINAL IS 37'-6". THE ALIGNMENT OF THE X-LITE FLARED END TERMINAL IS A STRAIGHT FLARE WITH AN UPSTREAM OFFSET UP TO 4'-0" (STANDARD OFFSET OF 4 FT SHOULD BE USED WHEREVER POSSIBLE).
5. THE X-LITE FLARED 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 FLARED 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 "FLARED" AT A SPECIFIC LOCATION, THE CONTRACTOR HAS THE OPTION TO CONSTRUCT ANY FDOT APPROVED FLARED ASSEMBLY. WHERE A PARALLEL END ANCHORAGE ASSEMBLY IS CALLED FOR IN THE PLANS, ANY APPROVED SUBSTITUTION WITH A FLARED END ANCHOR WILL NOT BE ELIGIBLE FOR VECP CONSIDERATION.
9. THE X-LITE FLARED END TERMINAL SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR GUARDRAIL, END ANCHORAGE ASSEMBLY (FLARED), 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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<p align="center">APPROVALS</p>		<p align="center">THIRD ANGLE PROJECTION</p>		<p align="center">TITLE</p> <p align="center">X-LITE FLARED TERMINAL STATE OF FLORIDA DOT QPL NO. 536-002-020</p>		<p align="center">SIZE DWG NO.</p> <p align="center">B BSI-1304043-AP</p>	
DRAWN BY: JMT DRAWN DATE: 04/26/13 APPR'D BY: GAD APPR'D DATE: 07/19/13		2 1 0	12/05/14 06/27/13 04/26/13	SCALE NTS FDOT QPL 536-002-020	SHEET 1 OF 3	REV. 2	

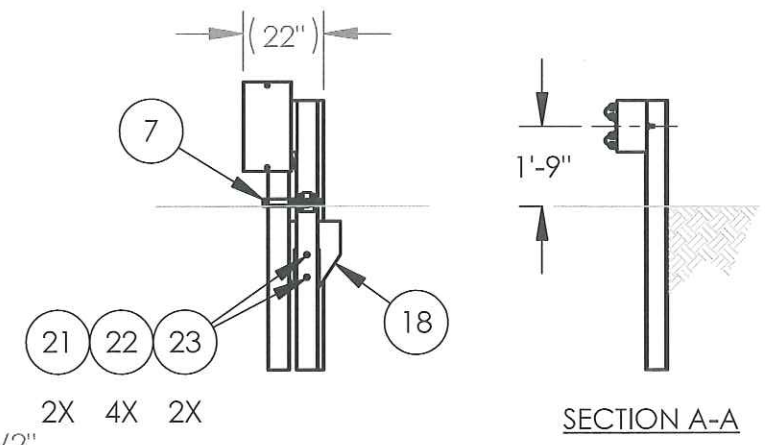
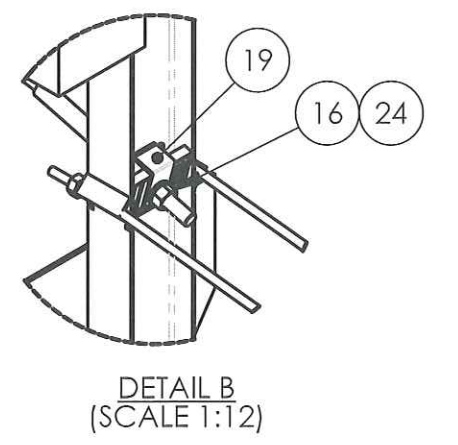
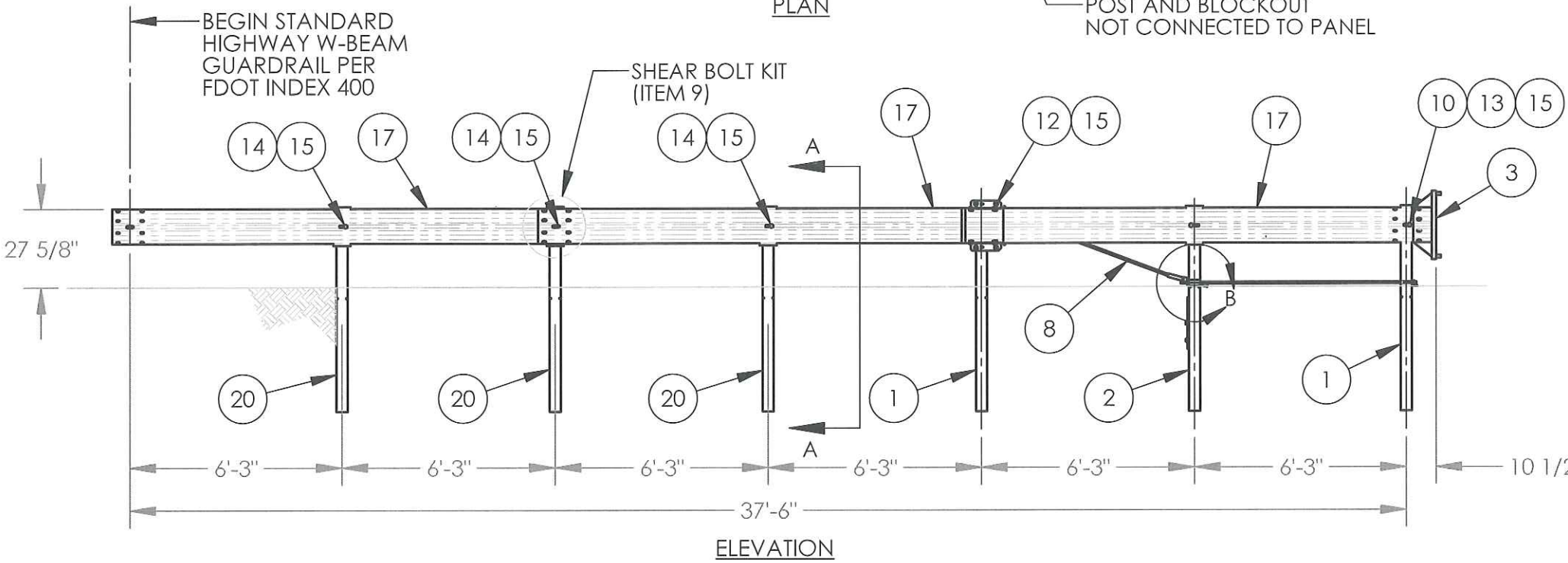
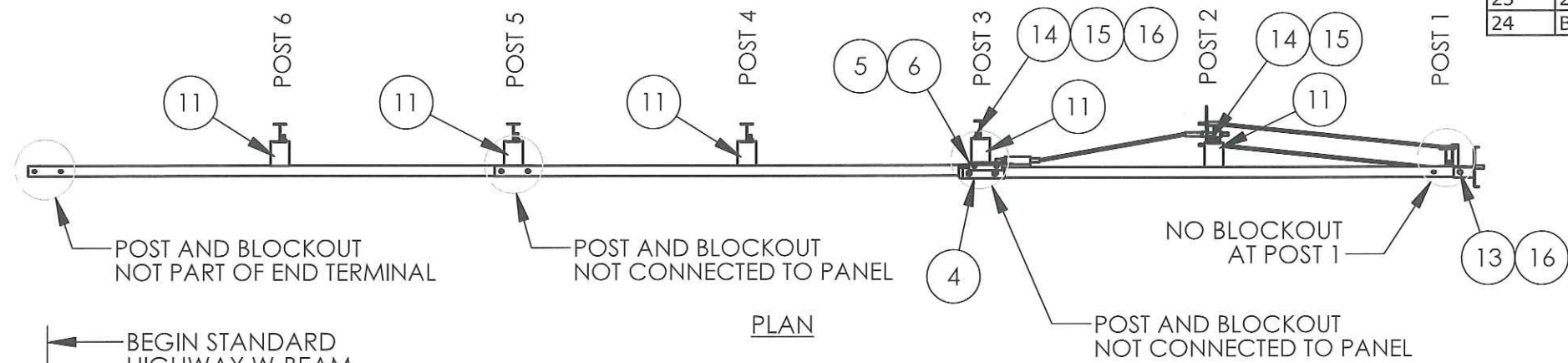
SYSTEM WIDTH	MODEL NUMBER	DESIGN SPEED	TEST LEVEL	SYSTEM LENGTH	DESIGN LENGTH
22"	XLFSUST	≤ 45 MPH	TL-2	38'- 10 1/2"	37'- 6"
22"	XLFSUST	≥ 50 MPH	TL-3	38'- 10 1/2"	37'- 6"



ITEM	PART NO	DESCRIPTION	QTY	SPEC
1	BSI-1310024-00	XLITE, CRIMPED POST SLOTS, GALV	2	X-LITE
2	BSI-1012086-00	POST II, X-LITE, GALV	1	X-LITE
3	BSI-1012103-00	IMPACT HEAD, X-LITE, GALV	1	X-LITE
4	BSI-1012093-00	SLIDER PANEL, FRONT, XLITE, GALV	1	X-LITE
5	BSI-1012090-00	Slider Bracket, X-Lite	1	X-LITE
6	BSI-1012096-00	BACK SLIDER PANEL, X-LITE, GALV	1	X-LITE
7	BSI-1101209-00	Ground Strut Assembly, X-Lite	2	X-LITE
8	BSI-1012104-00	Cable Anchor Assembly, X-Lite	1	X-LITE
9	K080123	Kit, X-Tension Shear Bolt,	1	X-LITE
10	BSI-1102027-00	WASHER, SQUARE, X-LITE, GALV	1	X-LITE
11	4002337	W-Beam Timber Blockout PDB01b	5	FDOT
12	4001115	Guardrail Bolt 5/8-11x 1 1/4	16	FDOT
13	2000302	Bolt CH 5/8-11x2 MGal	1	FDOT
14	2001635	Bolt CH 5/8-11x10 Gr5 MGal	5	FDOT
15	4001116	Guardrail Nut Recessed 5/8-11	22	FDOT
16	2001580	Wshr 1 F436 Structural Gal	2	FDOT
17	4000443	W-Beam Guardrail RWM02a	3	FDOT
18	BSI-1312100-00	Soil Plate, 18x18, Galv	1	X-LITE
19	BSI-1303005-00	Bracket, X-Lite, Cable Retention	1	X-LITE
20	BSI-1310027-00	XLITE, CRIMPED POST HOLES, GALV	3	X-LITE
21	2000220	C-Scr HH 5/8-11x3 1/2 Gr5 MGal	2	X-LITE
22	2001636	Wshr 5/8 F436 Struct MGal	4	X-LITE
23	2000312	Nut HX 5/8-11 Gr5 Mgal	2	X-LITE
24	BSI-1410121-00	NUT, 1-8 UNC-2, ASTM Q563 DH	2	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.

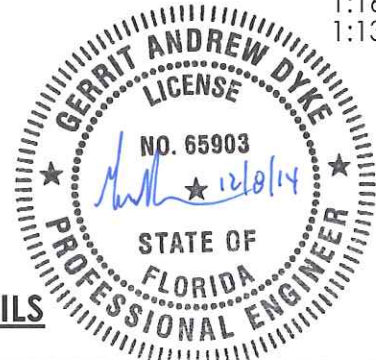
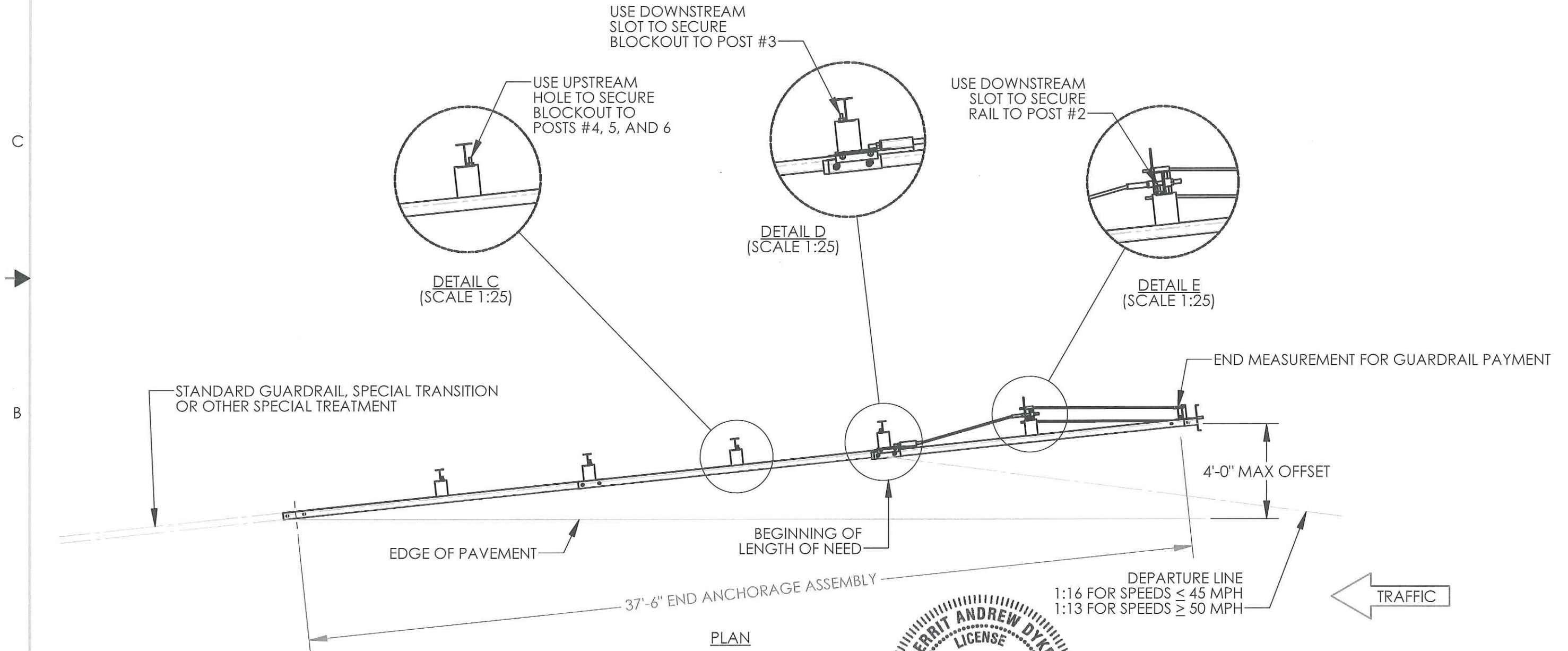


X-LITE FLARED END TERMINAL SYSTEM LAYOUT

SIZE B	DWG NO. BSI-1304043-AP	REV. 2
SCALE 1:50	FDOT QPL 536-002-020 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 COMPCTED TO PREVENT SETTLEMENT.
4. THE SPECIAL SHEAR BOLTS USED TO CONNECT THE W-BEAM PANELS AT POST #5 ARE DIFFERENT THAN STANDARD SPLICE BOLTS. FOR EASY IDENTIFICATION THEY ARE SUPPLIED WITH YELLOW HEADS.



X-LITE FLARED END TERMINAL DETAILS

SIZE B	DWG NO. BSI-1304043-AP	REV. 2
SCALE 1:50	FDOT QPL 536-002-020	SHEET 3 OF 3