


DRAWING INDEX

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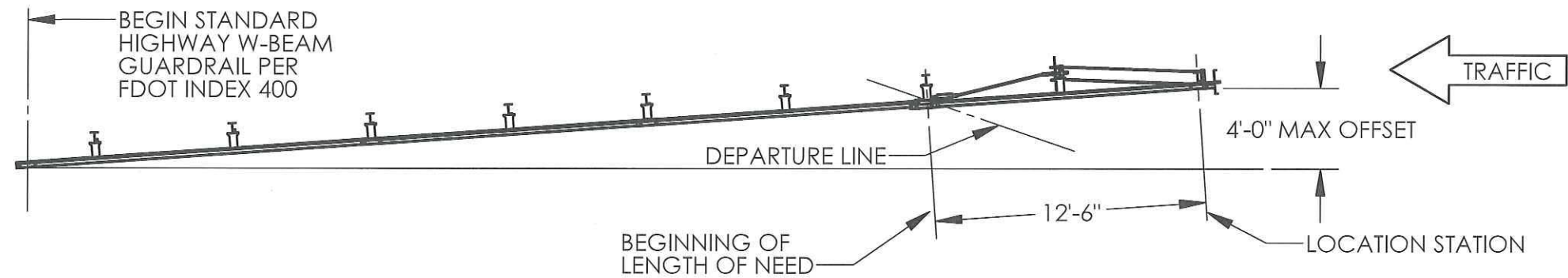
X-LITE END TERMINAL - FLARED, 31"

1. THE GUARDRAIL END ANCHORAGE SYSTEM REPRESENTED ON THIS QUALIFIED PRODUCT LIST (QPL) IS A PROPRIETARY DESIGN BY LINDSAY TRANSPORTATION SOLUTIONS (LTS) AND MARKED UNDER THE TRADE NAME X-LITE.
2. THESE DRAWINGS ARE 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).
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 53'-1 1/2". 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. FOR DETAILS OF SHOULDER WIDENING, MISCELLANEOUS ASPHALT PAVEMENT AND PAY LIMITS, SEE INDEX 400.
7. 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.
8. MAINTAIN A RELATIVELY CLEAR AND TRAVERSABLE RUN-OUT AREA BEHIND AND BEYOND ALL GATING END TERMINALS.
9. SITE CONDITIONS: SINCE THE X-LITE IS ONLY AVAILABLE IN A STEEL POST CONFIGURATION, IT MAY NOT BE USED IF THE FRONT OF A SIDEWALK OR SHARED USE PATH IS LOCATED 4' OR LESS FROM THE BACK OF THE X-LITE POSTS.
10. REGARDING THE ORIENTATION OF PANEL LAP SPLICES, INSTALL THE X-LITE SYSTEM AS SHOWN IN THE DRAWINGS, REGARDLESS OF THE DIRECTION OF TRAFFIC IN THE ADJACENT LANES (I.E. PANEL LAPPING MAY NOT BE IN THE DIRECTION OF TRAFFIC UNDER SOME CONDITIONS).
11. FOR THE X-LITE SYSTEM TO FUNCTION PROPERLY, I.E. TELESCOPE TO ABSORB ENERGY, THE GUARDRAIL PANELS WITHIN THE END TERMINAL MUST BE PROPERLY LAPPED STARTING FROM THE TERMINAL HEAD; FIRST PANEL IS LAPPED ON TOP OF START OF SECOND PANEL, SECOND PANEL IS LAPPED OVER TOP OF THIRD PANEL.

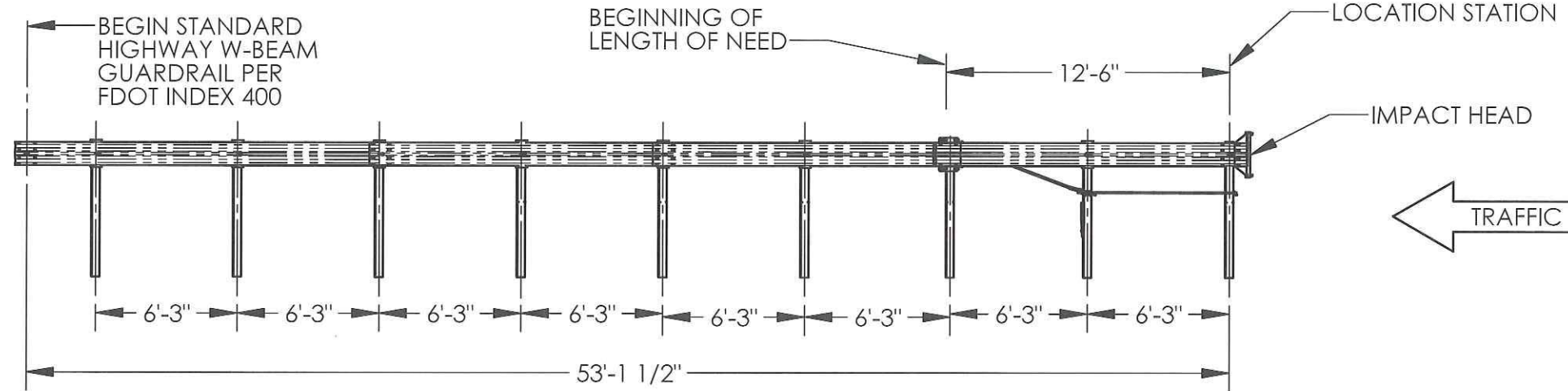


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APPROVALS DRAWN BY: NMB DRAWN DATE: 11/14/14 APPR'D BY: GAD APPR'D DATE: 11/14/14		INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-1994. THIRD ANGLE PROJECTION  DO NOT SCALE DRAWING		TITLE X-LITE FLARED END TERMINAL 2'-1" MOUNTING HEIGHT/ TL3 FLARED FDOT APL NO. 536-003-012	
REV ECN# DATE		3 2 1 0 AP 01031		5/11/17 9/24/15 11/14/14 02/11/14	
SCALE NTS		SIZE B		DWG NO. BSI-1402008-AP	
SHEET 1 OF 4		REV. 3			

SYSTEM WIDTH	MODEL NUMBER	DESIGN SPEED	TEST LEVEL	SYSTEM LENGTH	SYSTEM HEIGHT	DESIGN LENGTH
22"	XLFSUSW	≤ 45 MPH	TL-2	53'-1 1/2"	2'-1"	53'-1 1/2"
22"	XLFSUSW	≥ 50 MPH	TL-3	53'-1 1/2"	2'-1"	53'-1 1/2"

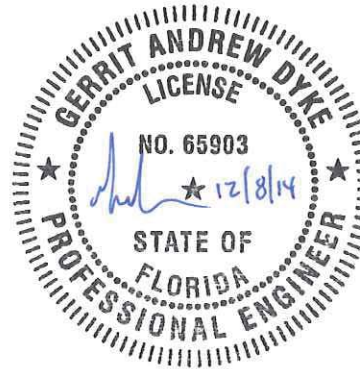


PLAN VIEW



ELEVATION VIEW

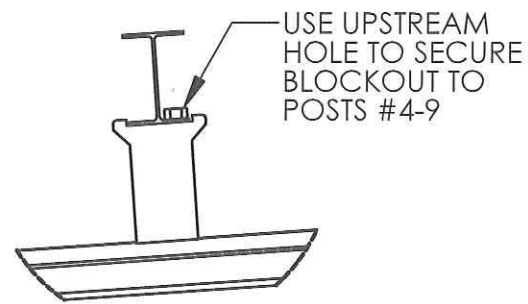
X-LITE FLARED END TERMINAL SYSTEM LAYOUT, 31"



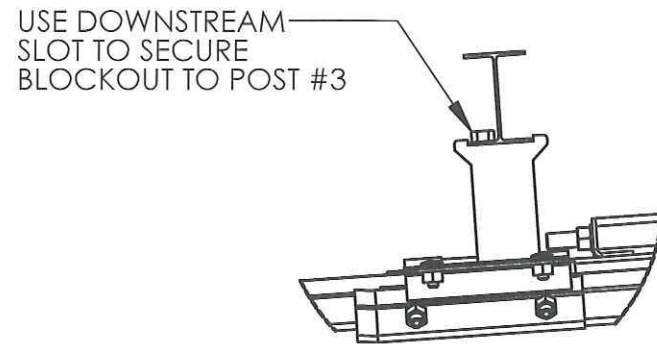
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APPROVALS		THIRD ANGLE PROJECTION		TITLE X-LITE FLARED END TERMINAL 2'-1" MOUNTING HEIGHT/ TL3 FLARED FDOT APL NO. 536-003-012				
DRAWN BY:	NMB		1	FDOT changes	11/14/14	SIZE	DWG NO.	REV.
DRAWN DATE:	11/14/14		0	AP01031	2/11/14	B	BSI-1402008-AP	1
APPR'D BY:	GAD	DO NOT SCALE DRAWING		REV	ECN#	DATE	SCALE	SHEET
APPR'D DATE:	11/14/14						1:80	2 OF 4

NOTES: UNLESS OTHERWISE SPECIFIED.

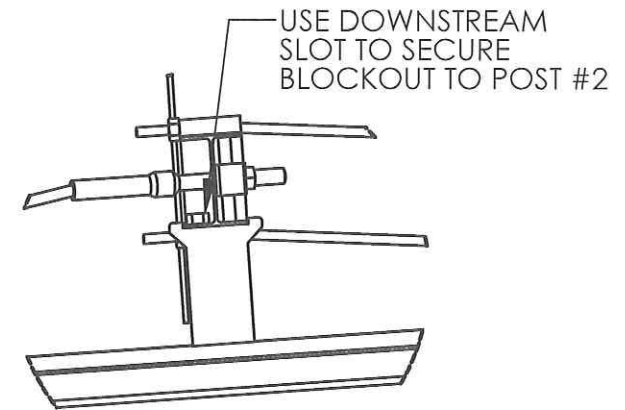
1. ALL GUARDRAIL POSTS, PANELS, BLOCKOUTS AND ASSOCIATED HARDWARE SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 536 AND DESIGN STANDARD INDEX 400. ALL METALLIC COMPONENTS SHALL MEET THE GALVANIZING REQUIREMENTS FOR GUARDRAIL, STANDARD SPECIFICATION 967.
2. IF ROCK EXCAVATION IS ENCOUNTERED, 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 COMPACTED TO PREVENT SETTLEMENT.
4. THE SPECIAL SHEAR BOLTS USED TO CONNECT THE W-BEAM PANELS TO POST #5 ARE DIFFERENT THAN STANDARD SPLICE BOLTS. FOR EASY IDENTIFICATION THEY ARE SUPPLIED WITH YELLOW HEADS.



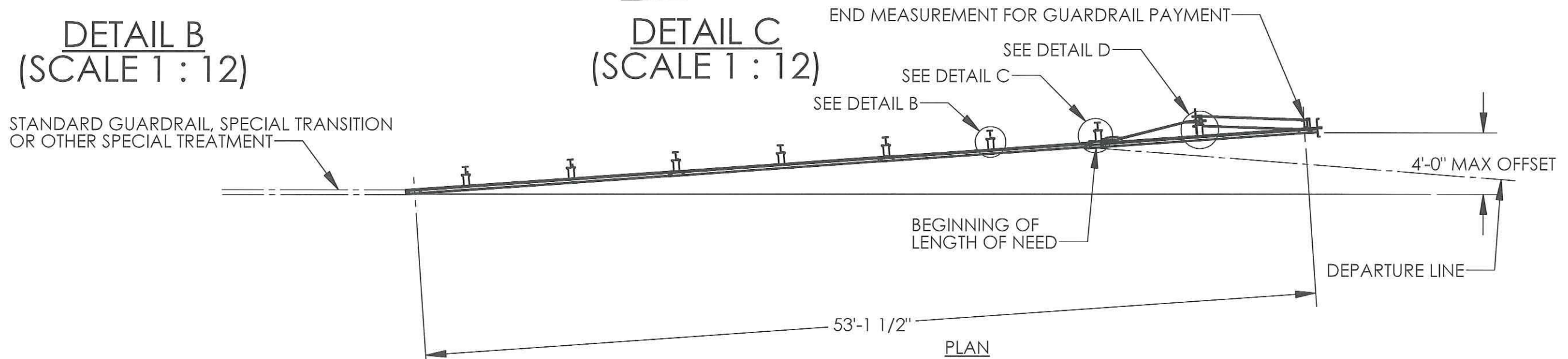
DETAIL B
(SCALE 1 : 12)



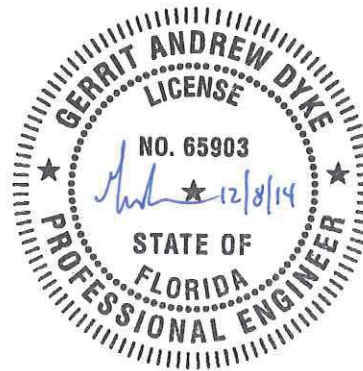
DETAIL C
(SCALE 1 : 12)

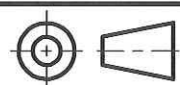


DETAIL D
(SCALE 1 : 12)



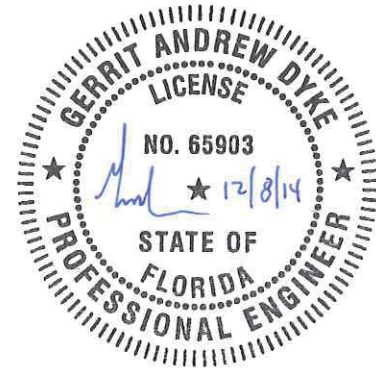
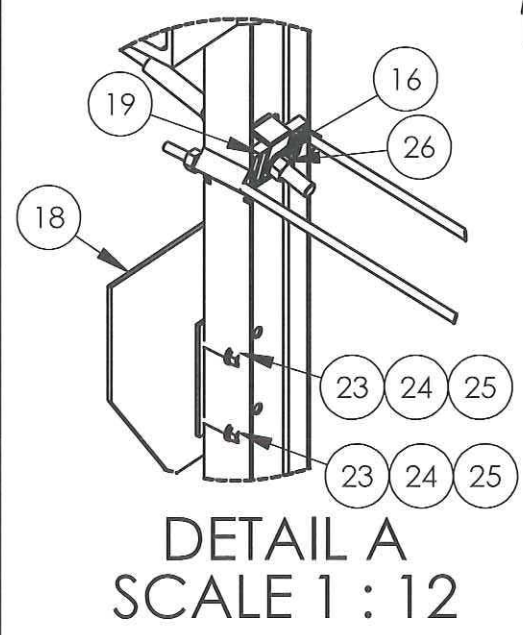
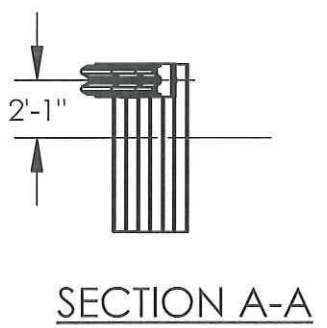
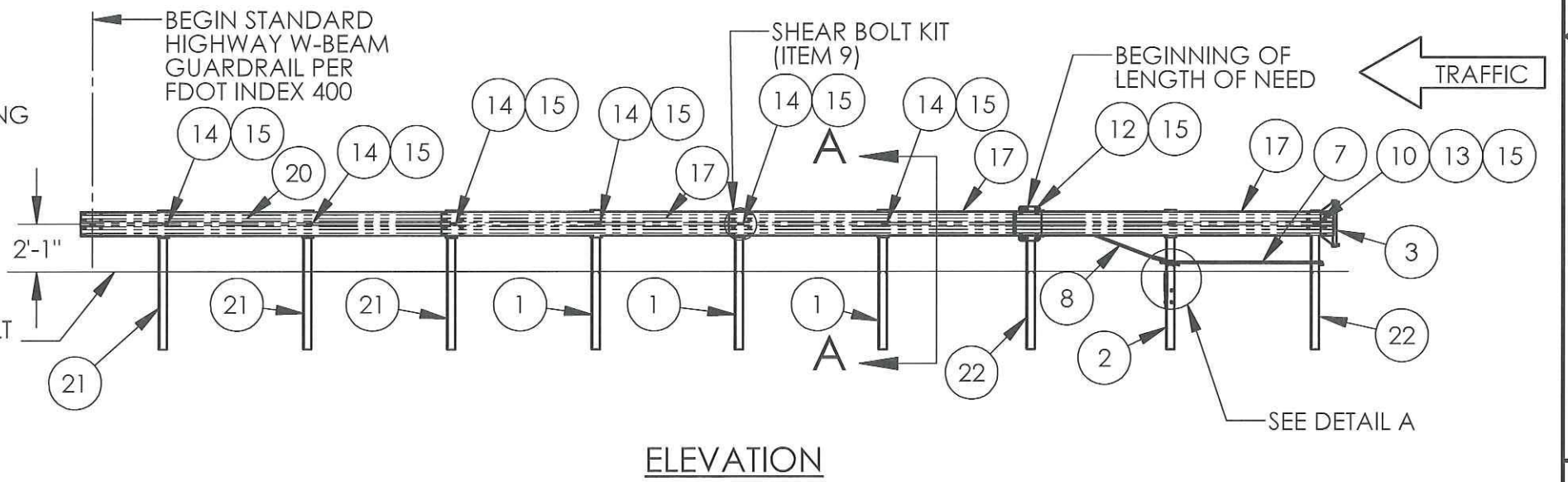
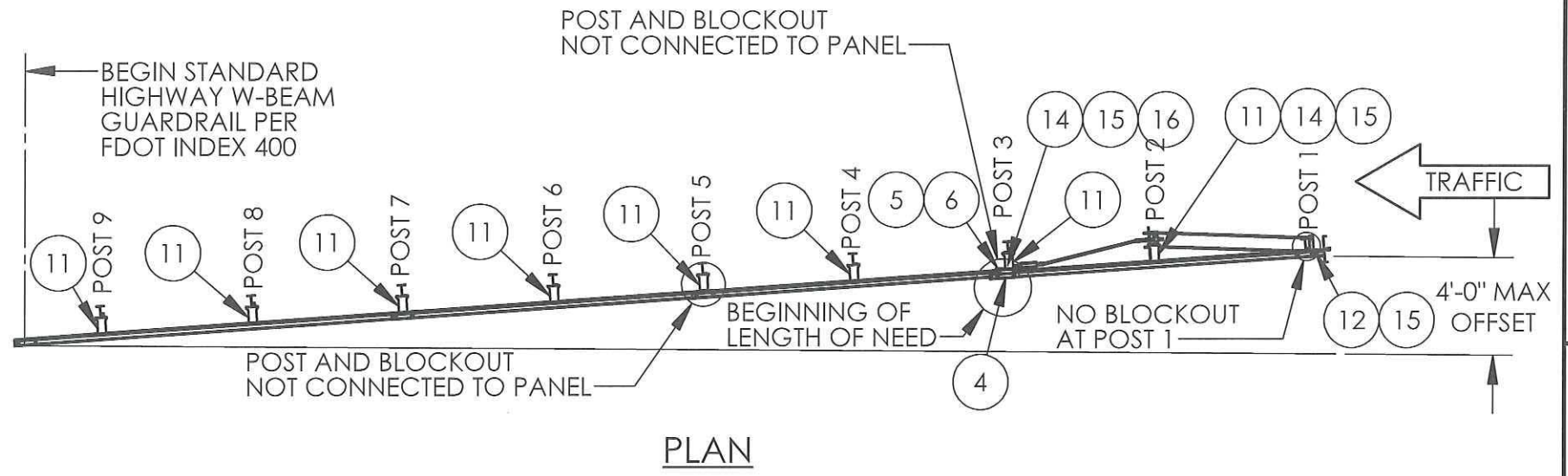
X-LITE FLARED END TERMINAL DETAILS



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		1 FDOT changes 11/14/14 0 AP 01031 2/11/14		SIZE B DWG NO. BSI-1402008-AP SCALE 1:80	REV. 1 SHEET 3 OF 4

ITEM	PART NO.	DESCRIPTION	QTY	SPEC
1	BSI-1310027-00	XLITE, CRIMPED POST HOLES, GALV	3	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, 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	8	FDOT
12	4001115	Guardrail Bolt 5/8-11x 1 1/4	24	FDOT
13	2000302	Bolt CH 5/8-11x2 MGal	1	FDOT
14	2001635	Bolt CH 5/8-11x10 Gr5 MGal	8	FDOT
15	4001116	Guardrail Nut Recessed 5/8-11	33	FDOT
16	2001580	Wshr 1 F436 Structural Gal	2	FDOT
17	4000443	W-Beam Guardrail RWM02a	3	FDOT
18	BSI-1312100-00	X-Lite Soil Plate	1	X-LITE
19	BSI-1303005-00	Bracket, X-Lite, Cable Retention	1	X-LITE
20	BSI-1403002-00	Panel, 15'-7 1/2", Galv	1	FDOT
21	BSI-1012078-00	LINE POST, GALV	3	FDOT
22	BSI-1310024-00	XLITE, CRIMPED POST SLOTS, GALV	2	X-LITE
23	2000220	C-Scr HH 5/8-11x3 1/2 Gr5 MGal	2	X-LITE
24	2001636	Wshr 5/8 F436 Struct MGal	4	X-LITE
25	2000312	Nut HX 5/8-11 Gr5 Mgal	2	X-LITE
26	BSI-1410121-00	NUT, 1-8 UNC-2, ASTM Q563 DH	2	X-LITE

* IN LIEU OF TIMBER OFFSET BLOCKS, COMPOSITE OFFSET BLOCKS MEETING THE REQUIREMENTS OF SPECIFICATION SECTION 536 MAY BE USED.



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REV 0 AP01031 2/11/14 ECN# DATE		SIZE B DWG NO. BSI-1402008-AP SCALE 1:80 SHEET 4 OF 4		REV. 1	