DRAWING INDEX

SHEET NO	DESCRIPTION
1 OF 5	GENERAL NOTES
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3 OF 5	MAX-TENSION PARALLEL END TERMINAL TL-2 SYSTEM DETAILS
4 OF 5	MAX-TENSION PARALLEL END TERMINAL TL-2 EXPLODED VIEW
5 OF 5	BILL OF MATERIALS

31" MAX-TENSION GUARDRAIL END TERMINAL TL-2 - PARALLEL

1. THE GUARDRAIL APPROACH TERMINAL SYSTEM REPRESENTED ON THESE APPROVED PRODUCT LIST (APL) DRAWINGS IS A PROPRIETARY DESIGN BY LINDSAY TRANSPORTATION SOLUTIONS (LTS) AND MARKETED UNDER THE TRADE NAME MAX-TENSION.
2. THESE DRAWINGS ARE SUFFICIENT FOR PLAN DETAILS FOR THE MAX-TENSION PARALLEL END TERMINAL TL-2. WHEN INSTALLED IN CONNECTION WITH SHOULDER GUARDRAIL, AND PRECLUDES THE REQUIREMENT FOR SHOP DRAWING SUBMITTALS UNLESS THE PLANS OTHERWISE CALL FOR SUCH SUBMITTALS. THE MAX-TENSION PARALLEL END TERMINAL TL-2 SHALL BE ASSEMBLED IN ACCORDANCE WITH THE MANUFACTURER'S DETAILED DRAWINGS, PROCEDURES, AND SPECIFICATIONS.
3. THE MAX-TENSION PARALLEL END TERMINAL TL-2 IS AVAILABLE IN A STEEL POST CONFIGURATION ONLY. POST #1 IS A PROPRIETARY STEEL W6X8.5 OR W6X9 WIDE FLANGE POST. THE SOIL ANCHOR IN FRONT OF POST #1 IS A SPECIAL STEEL BENT CHANNEL DESIGN WITH AN INTEGRAL SOIL PLATE (SEE MANUFACTURER DETAILS).
4. THE MAX-TENSION PARALLEL END TERMINAL TL-2 IS INTENDED FOR USE AS AN APPROACH TERMINAL FOR SHOULDER GUARDRAIL. THE BEGINNING OF LENGTH OF NEED IS LOCATED AT POST #3. THE EFFECTIVE LENGTH OF THE THE MAX-TENSION PARALLEL END TERMINAL TL-2 IS 30'-1/2". THE ALIGNMENT OF THE MAX-TENSION PARALLEL END TERMINAL TL-2 CAN BE OFFSET UP TO 2'-0"
5. THE MAX-TENSION PARALLEL END TERMINAL TL-2 CANNOT BE USED IN MEDIANS WHERE HORIZONTAL CLEARANCE REQUIRES THE USE OF DOUBLE-FACED GUARDRAIL.
6. FOR DETAILS OF SHOULDER GRADING AROUND END TREATMENTS, MISCELLANEOUS ASPHALT PAVEMENT AND PAY LIMITS, SEE FDOT STANDARD PLANS, INDEX 536-001.
7. REGARDING THE ORIENTATION OF PANEL LAP SPLICES, INSTALL THE MAX-TENSION 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).
8. FOR THE MAX-TENSION PARALLEL END TERMINAL TL-2 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 EXISTING GUARDRAIL PANEL.

GERRIT ANDREW DYKE LICENSE NO. 65903 2/6/19 STATE OF FLORIDA PROFESSIONAL ENGINEER

APPROVALS

DRAWN BY:	AEM
DRAWN DATE:	05/16/18
APPR'D BY:	JF
APPR'D DATE:	05/21/18

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
FRACTIONS ±1/16 DECIMAL .XX = ±.03 .XXX = ±.010 ANGLES ±1/2°
INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-1994

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

REV	ECN#	DATE
4	AP01346	02/06/19
3	AP01346	12/17/18
2	AP01346	06/01/18
1	AP01346	05/21/18

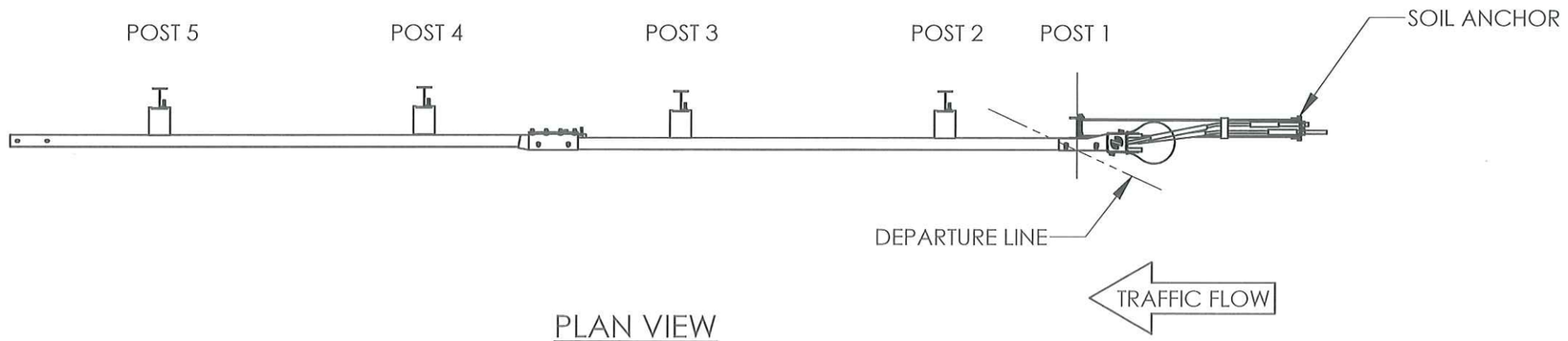
LINDSAY TRANSPORTATION SOLUTIONS
180 River Road
Rio Vista, CA 94571
Tel: 888-800-3691
www.barriersystemsinc.com

TITLE
MAX-TENSION PARALLEL TL-2
2'-1" MOUNTING HEIGHT
FDOT APL No. 536-007-002

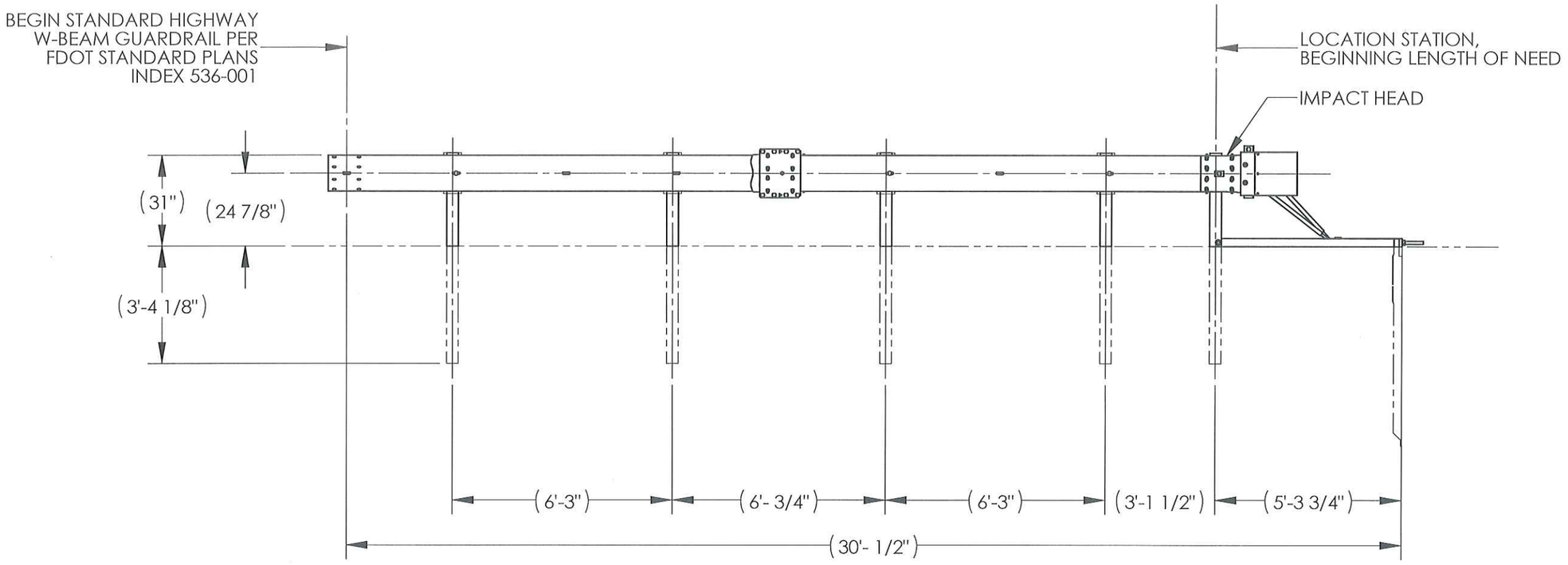
SIZE	DWG NO.	REV.
B	BSI-1805042-AP	4

SCALE		SHEET
1:1	FDOT APL 536-007-002	1 OF 5

Doc. B100108



PLAN VIEW



ELEVATION VIEW

SYSTEM WIDTH	MODEL NUMBER	DESIGN SPEED	TEST LEVEL	SYSTEM LENGTH	SYSTEM HEIGHT	DESIGN LENGTH
17.5"	MT2SIS8C8	≤ 45MPH	TL-2	30'-1/2"	2'-1"	30'-1/2"

GERRIT ANDREW DYKE LICENSE NO. 65903 STATE OF FLORIDA PROFESSIONAL ENGINEER 2/6/19

MAX-TENSION PARALLEL END TERMINAL
TL-2 SYSTEM LAYOUT

SIZE	DWG NO.	REV.
B	BSI-1805042-AP	4
SCALE 1:40	FDOT APL 536-007-002	SHEET 2 OF 5

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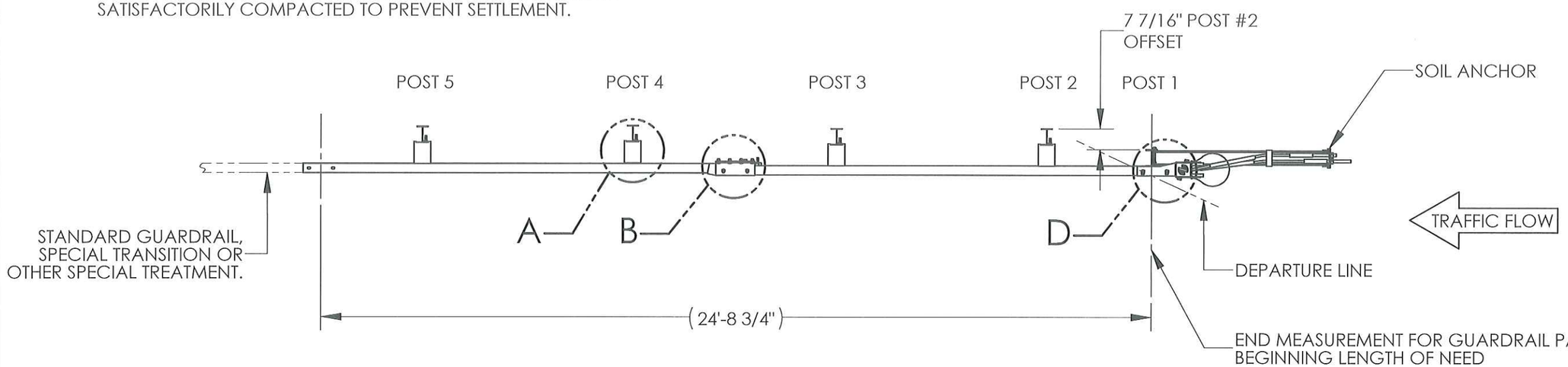
NOTES: UNLESS OTHERWISE SPECIFIED.

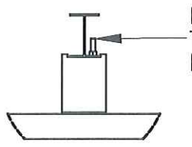
1. ALL GUARDRAIL POSTS, PANELS, BLOCKOUTS AND ASSOCIATED HARDWARE SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 536 AND 967 AND STANDARD PLANS, INDEX 536-001 ALL METALLIC COMPONENTS SHALL MEET THE GALVANIZING REQUIREMENTS FOR GUARDRAIL, STANDARD SPECIFICATION 967.

2. IF ROCK EXCAVATION IS ENCOUNTERED, CONSULT THE MANUFACTURER'S INSTALLATION MANUAL FOR RECOMMENDATIONS.

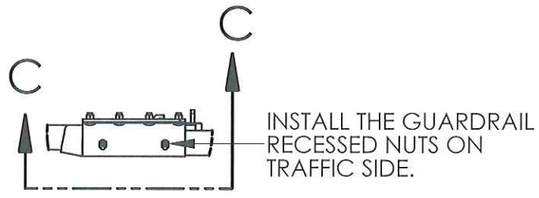
3. WHEN SITE CONDITIONS PERMIT, POSTS MAY BE DRIVEN. IF POSTS ARE PLACED IN A DRILLED HOLE, THE BACKFILL MATERIAL MUST BE SATISFACTORILY COMPACTED TO PREVENT SETTLEMENT.



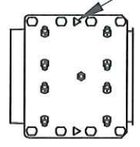
PLAN VIEW



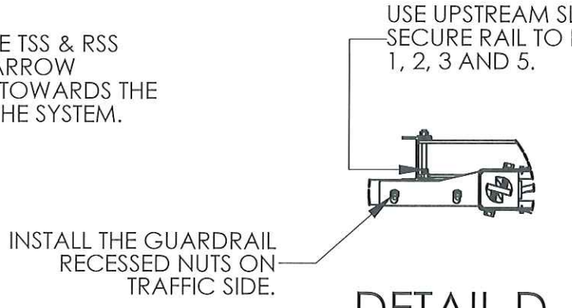
DETAIL A
SCALE 1 : 20



DETAIL B
SCALE 1 : 20



VIEW C-C
SCALE 1 : 20



DETAIL D
SCALE 1 : 20

GERRIT ANDREW DYKE
LICENSE
NO. 65903
2/6/19
STATE OF FLORIDA
PROFESSIONAL ENGINEER

MAX-TENSION PARALLEL END TERMINAL
TL-2 SYSTEM DETAILS

SIZE	DWG NO.	REV.
B	BSI-1805042-AP	4
SCALE 1:40	FDOT APL 536-007-002	SHEET 3 OF 5

Doc. B100108

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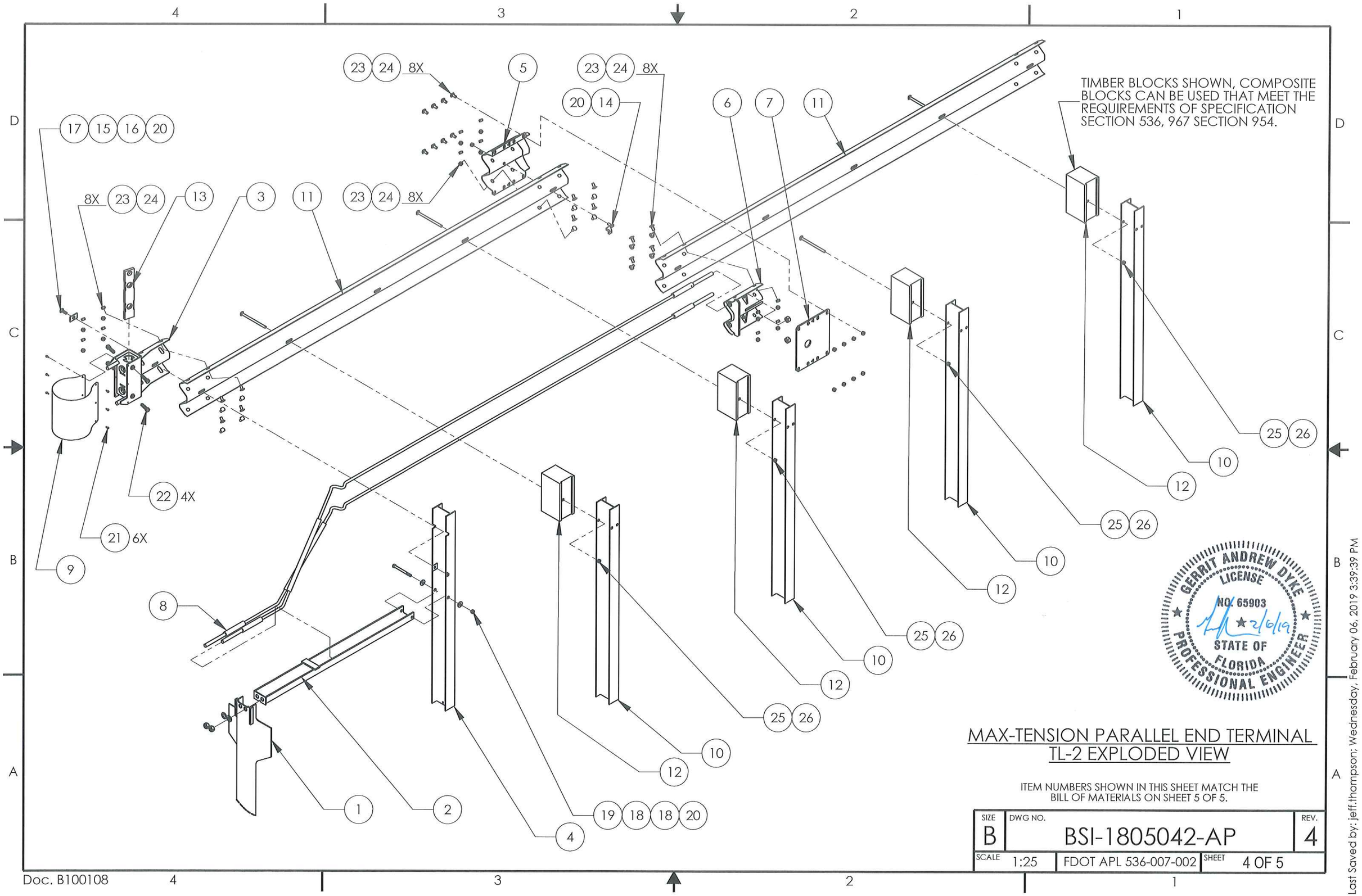

GERRIT ANDREW DYKE LICENSE NO. 65903 2/6/19 STATE OF FLORIDA PROFESSIONAL ENGINEER

MAX-TENSION PARALLEL END TERMINAL
TL-2 EXPLODED VIEW

ITEM NUMBERS SHOWN IN THIS SHEET MATCH THE BILL OF MATERIALS ON SHEET 5 OF 5.

SIZE	DWG NO.	REV.
B	BSI-1805042-AP	4
SCALE 1:25	FDOT APL 536-007-002	SHEET 4 OF 5

Doc. B100108

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ITEM	PART NO	DESCRIPTION	QTY	SPEC
1	BSI-1610060-00	SOIL ANCHOR, GALVANIZED	1	
2	BSI-1610061-00	GROUNDSTRUT, GALVANIZED	1	
3	BSI-1610062-00	IMPACT HEAD, CHASE THREADS	1	
4	BSI-1610063-00	POST, I-BEAM, W6x9 6FT., GALVANIZED	1	
5	BSI-1610064-00	TSS PANEL, GALVANIZED	1	
6	BSI-1610065-00	ISS PANEL, GALVANIZED	1	
7	BSI-1610067-00	RSS PLATE, GALVANIZED	1	
8	BSI-1612013-00	CABLE ASSEMBLY, MAX-TENSION TL-2	2	
9	BSI-1701063-00	BRACKET, DELINEATION, MAX-TENSION	1	
10	BSI-1012078-00	6' GUARDRAIL LINE POST	4	
11	BSI-4004386	W-BEAM GUARDRAIL, 4-SPACE, (RWM04a), 12 GAUGE	2	
12	4002337	W-BEAM TIMBER BLOCKOUT PDB01b	4	
13	B061058	CABLE FRICTION PLATE, HEAD UNIT	1	
BSI-1702051-KT: MAX TENSION SYSTEM HW KIT				
14	BSI-1610066-00	TOOTH, GEOMET	1	
15	4002051	Guardrail Wshr Rect AASHTO FWR03	1	
16	BSI-1102027-00	WASHER, SQUARE, X-LITE	1	
17	BSI-2001888	Bolt CH 5/8-11x2 Fully Threaded, Gr5 Geomet	1	
18	2001636	Wshr 5/8 F436 Struct MGal	2	
19	BSI-2001886	BOLT HH 5/8-11x7, 2in THREAS, Gr5, GEOMET	1	
20	4001116	GUARDRAIL NUT RECESSED 5/8-11, GR-2 MGAL	3	
21	BSI-2001887	SCREW SD, HH 1/4-14 x 3/4, 410SS	6	
22	BSI-2001885	BOLT HH 3/4-10x3 FULLY THREADED, Gr5, GEOMET	4	
BSI-1801121-KT: MAX-TENSION TL-2 GUARDRAIL SPLICE HW KIT, IMPERIAL				
23	4001115	GUARDRAIL BOLT 5/8-11 x 1 1/4, Gr2 Mgal	32	
24	4001116	GUARDRAIL NUT RECESSED 5/8-11, GR-2 MGAL	32	
BSI-1801122-KT: MAX-TENSION TL-2 POST HW KIT, IMPERIAL				
25	2001840	GUARDRAIL BOLT 5/8-11 x 10, MGAL	4	
26	4001116	GUARDRAIL NUT RECESSED 5/8-11, GR-2 MGAL	4	
27	MANMAX2	MAX-TENSION INSTALLATION MANUAL TL-2	1	

GERRIT ANDREW DYKE
LICENSE
NO. 65903
2/6/19
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

MAX-TENSION PARALLEL END TERMINAL TL-2 SYSTEM BILL OF MATERIALS

SIZE	DWG NO.	REV.
B	BSI-1805042-AP	4
SCALE 1:1	FDOT APL 536-007-002	SHEET 5 OF 5

Doc. B100108

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