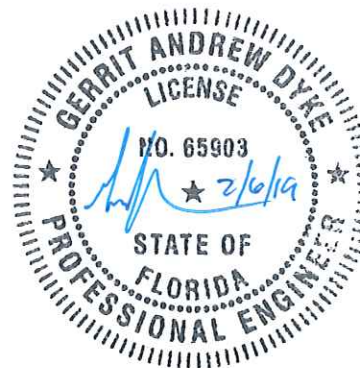


DRAWING INDEX

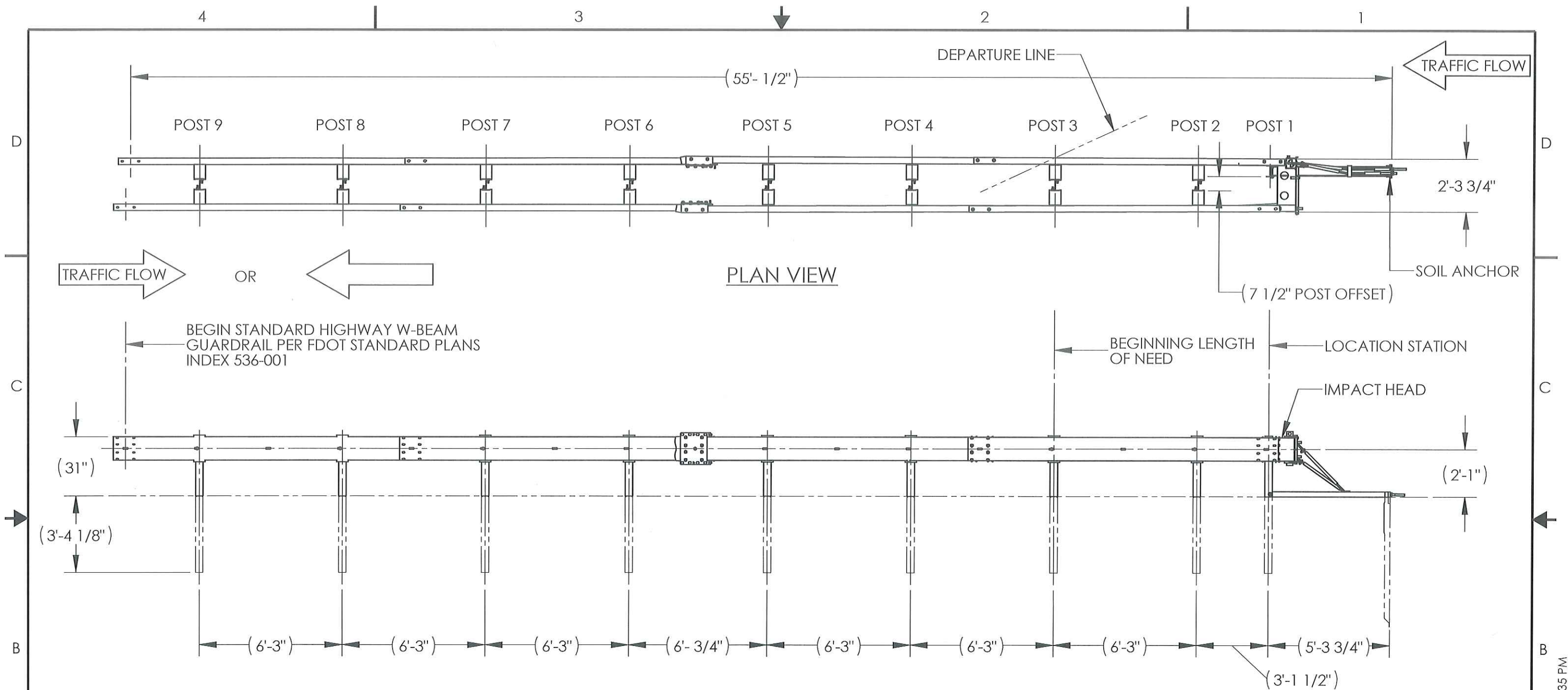
31" MAX-TENSION MEDIAN TL-3 SYSTEM

SHEET No.	DESCRIPTION
1 OF 5	GENERAL NOTES
2 OF 5	MAX-TENSION MEDIAN TL-3 SYSTEM LAYOUT
3 OF 5	MAX-TENSION MEDIAN TL-3 SYSTEM DETAILS
4 OF 5	MAX-TENSION MEDIAN TL-3 SYSTEM ASSEMBLY
5 OF 5	MAX-TENSION MEDIAN TL-3 SYSTEM BILL OF MATERIALS

1. THE ENERGY ABSORBING SYSTEM REPRESENTED ON THIS APPROVED PRODUCT LIST (APL) IS A PROPRIETARY DESIGN BY LINDSAY TRANSPORTATION SOLUTIONS AND MARKETED UNDER THE TRADE NAME MAX-TENSION.
2. THE MAX-TENSION MEDIAN TL-3 SYSTEM IS A GATING, REDIRECTIVE DOUBLE FACED APPROACH TERMINAL SYSTEM WHICH IS SUITED FOR SHIELDING THE ENDS OF DOUBLE FACE W-BEAM GUARDRAIL SYSTEMS. THE MAX-TENSION MEDIAN TL-3 SYSTEM CAN BE USED IN PERMANENT APPLICATIONS. THE BEGINNING OF LENGTH OF NEED SHALL BE AT THE POINT OF INTERSECTION BETWEEN THE FACE OF THE MAX-TENSION MEDIAN AND THE DEPARTURE LINE, AT THE CENTERLINE OF POST 3.
3. THE MAX-TENSION MEDIAN TL-3 SYSTEM HAS BEEN EVALUATED TO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) CRASH TEST CRITERIA AND IS SUITABLE FOR ALL DESIGN SPEEDS.
4. THE MAX-TENSION MEDIAN TL-3 SYSTEM SHALL BE ASSEMBLED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S DETAILED DRAWINGS, PROCEDURES, SPECIFICATIONS, PRODUCT MANUAL, OR SUITABLE GUIDE. INFORMATION AND COPIES OF THE ABOVE MANUALS ARE AVAILABLE ON THE APL.
5. THE MAX-TENSION MEDIAN TL-3 SYSTEM IS AVAILABLE IN 24" NOMINAL (INSIDE) WIDTH AND MATCHES THAT OF DOUBLE FACE W-BEAM GUARDRAIL. THE SYSTEM WIDTH SHALL BE CALLED OUT IN THE CONTRACT DOCUMENTS.
6. THE MAX-TENSION MEDIAN TL-3 SYSTEM SHALL BE CONSTRUCTED PARALLEL TO THE APPROACH TRAVEL LANE AND ON CROSS SLOPES 1:10 OR FLATTER.
7. METALLIC COMPONENTS SHALL MEET THE GALVANIZING REQUIREMENTS FOR GUARDRAIL, SPECIFICATION 967.
8. NO CONCRETE PAD REQUIRED. CONTINUE MISCELLANEOUS ASPHALT PAVEMENT UNDER THE MAX-TENSION MEDIAN. SEE FDOT STANDARD PLANS, INDEX 536-001.
9. UNITS OF MEASURE ARE IN ENGLISH UNITS.
10. THE MAX-TENSION MEDIAN TL-3 SYSTEM IS NOT INTENDED FOR USE IN GORE AREAS OF FREEWAY AND EXPRESSWAY MAINLINE RAMP TERMINALS, GORES OF ROADWAY FORKS OR OTHER GORE LOCATIONS WHERE THERE IS A HISTORY OF HIGH FREQUENCY VEHICLE DEPARTURES FROM THE ROADWAY, OR WHERE THE POTENTIAL EXISTS FOR SUCH DEPARTURES. THE MAX-TENSION MEDIAN TL-3 SYSTEM IS WELL SUITED FOR THE ENDS OF GUARDRAIL IN MEDIAN CROSSEOVERS.
11. REGARDING THE ORIENTATION OF PANEL LAP SPLICES, INSTALL THE MAX-TENSION MEDIAN TL-3 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).
12. FOR THE MAX-TENSION MEDIAN TL-3 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, THIRD PANEL IS LAPPED OVER TOP OF FOURTH PANEL AND THE FOURTH PANEL IS LAPPED OVER TOP OF THE EXISTING GUARDRAIL PANEL ON BOTH SIDES.
13. FOR DETAILS OF SHOULDER GRADING AROUND END TREATMENTS, MISCELLANEOUS ASPHALT PAVEMENT AND PAY LIMITS, SEE FDOT STANDARD PLANS, INDEX 536-001.



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APPROVALS		<small>INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-1994</small>		TITLE		MAX-TENSION MEDIAN TL-3 SYSTEM 2'-1" MOUNTING HEIGHT FDOT APL No. 536-006-005	
DRAWN BY: AEM	THIRD ANGLE PROJECTION	4	AP01347	02/06/19	SIZE DWG NO.	B BSI-1805043-AP	REV. 4
DRAWN DATE: 05/21/18		3	AP01347	12/17/18			
APPR'D BY: JF	DO NOT SCALE DRAWING	1	AP01347	05/30/18			
APPR'D DATE: 05/30/18	REV ECN#	DATE	SCALE 1:1	FDOT APL 536-006-005	SHEET 1 OF 5		

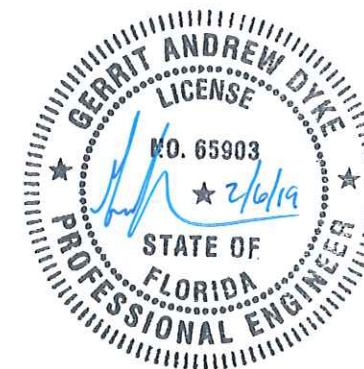


SYSTEM WIDTH	MODEL NUMBER	DESIGN SPEED	TEST LEVEL	SYSTEM LENGTH	SYSTEM HEIGHT	DESIGN LENGTH
27.75"	MM3SIS8C8	≥ 50MPH	TL-3	55'-1/2"	2'-1"	55'-1/2"

NOTE: MAY BE USED FOR LOWER DESIGN SPEEDS

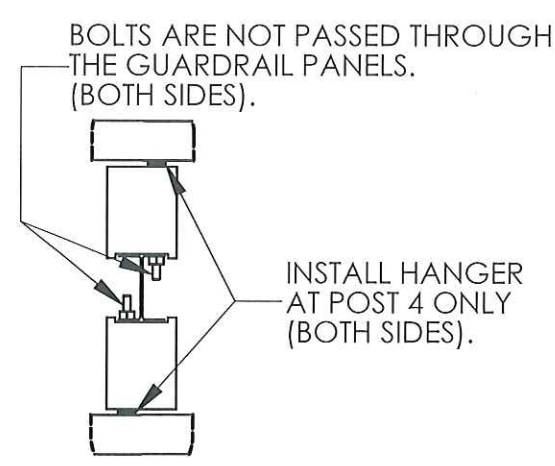
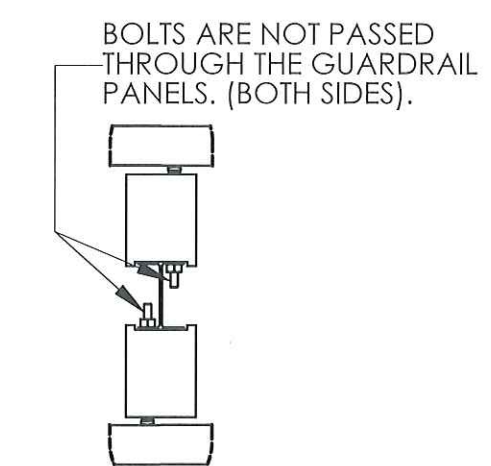
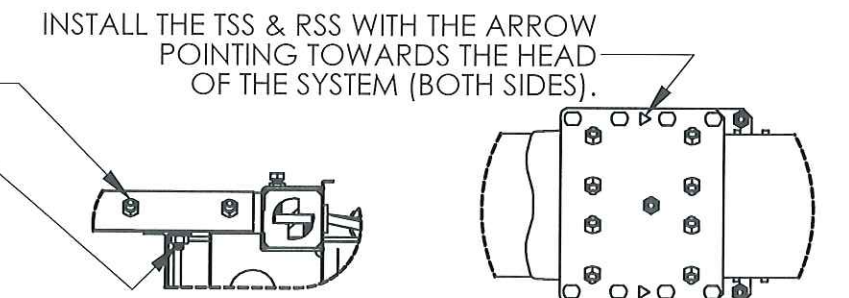
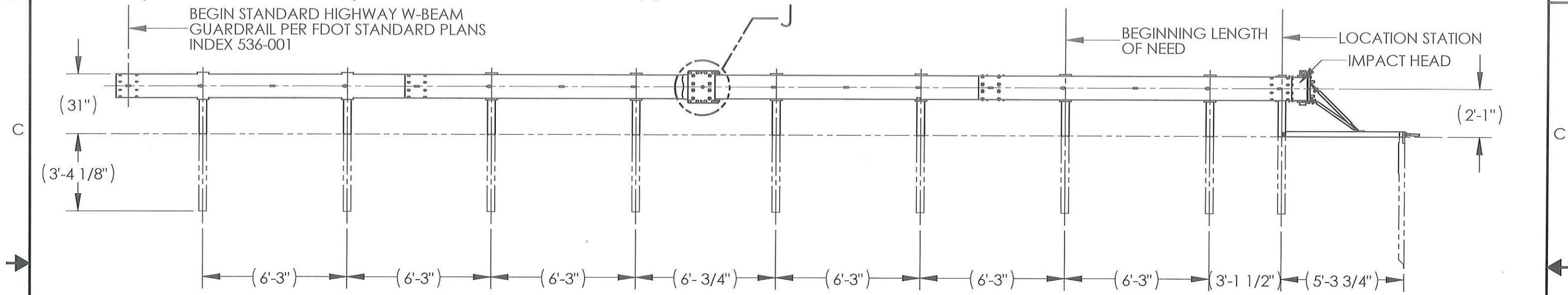
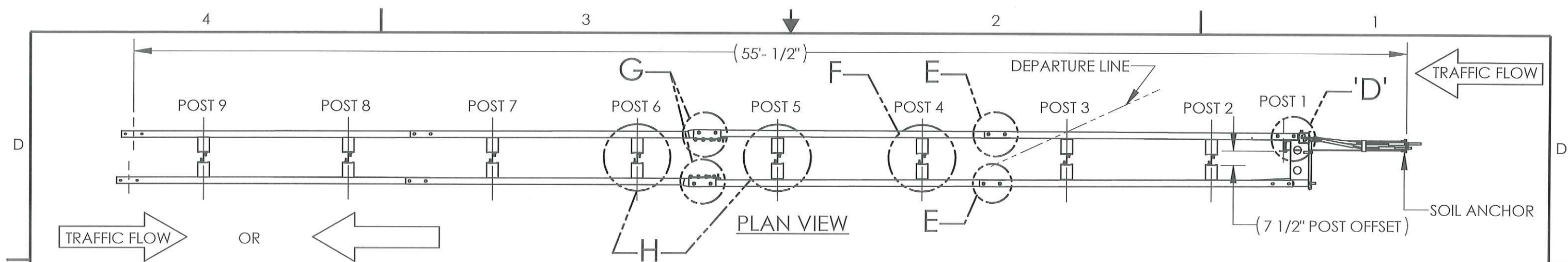
NOTES: UNLESS OTHERWISE SPECIFIED

1. ALL GUARDRAIL POSTS, PANELS, BLOCKOUTS AND ASSOCIATED HARDWARE SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 536 & 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 MATERIALS MUST BE SATISFACTORILY COMPACTED TO PREVENT SETTLEMENT.



31" MAX-TENSION MEDIAN TL-3 SYSTEM LAYOUT

SIZE	DWG. NO.	REV.
B	BSI-1805043-AP	4
SCALE	FDOT APL 536-006-005	SHEET 2 OF 5



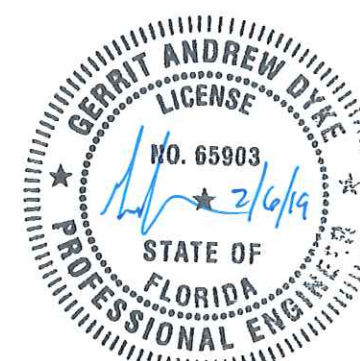
DETAIL E
SCALE 1:16

DETAIL 'D'
SCALE 1:16

DETAIL J
SCALE 1:16

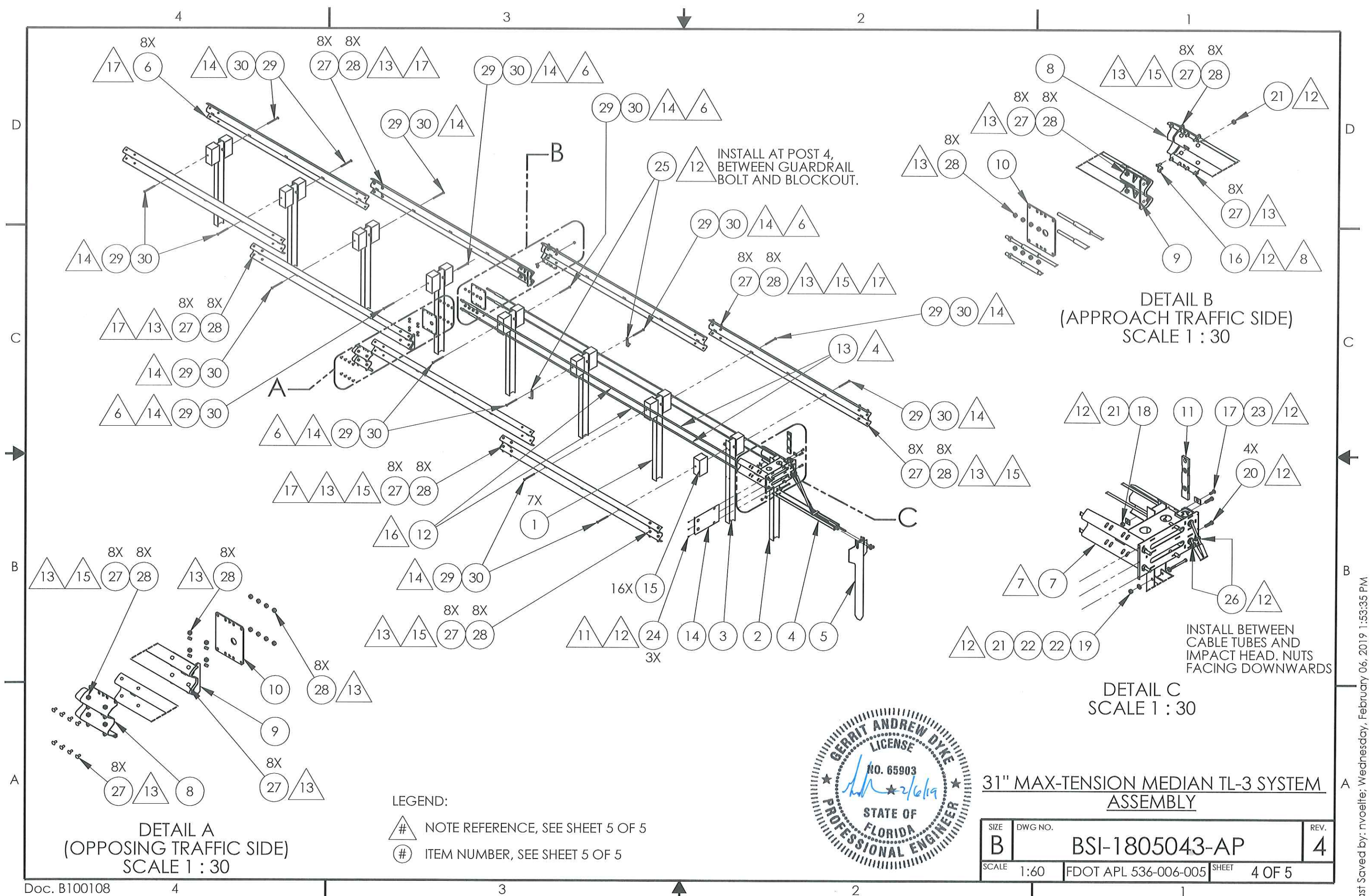
DETAIL H
SCALE 1:16

DETAIL F
SCALE 1:16



31" MAX-TENSION MEDIAN TL-3 SYSTEM
DETAILS

SIZE	DWG. NO.	REV.
B	BSI-1805043-AP	4
SCALE	FDOT APL 536-006-005	SHEET 3 OF 5



INSTALL AT POST 4,
BETWEEN GUARDRAIL
BOLT AND BLOCKOUT.

DETAIL B
(APPROACH TRAFFIC SIDE)
SCALE 1 : 30

INSTALL BETWEEN
CABLE TUBES AND
IMPACT HEAD. NUTS
FACING DOWNWARDS

DETAIL C
SCALE 1 : 30

DETAIL A
(OPPOSING TRAFFIC SIDE)
SCALE 1 : 30

- LEGEND:
- # NOTE REFERENCE, SEE SHEET 5 OF 5
 - # ITEM NUMBER, SEE SHEET 5 OF 5



31" MAX-TENSION MEDIAN TL-3 SYSTEM
ASSEMBLY

SIZE B	DWG. NO. BSI-1805043-AP	REV. 4
SCALE 1:60	FDOT APL 536-006-005	SHEET 4 OF 5

ITEM	PART NO.	DESCRIPTION	QTY.
1	BSI-1012078-00	6' GUARDRAIL LINE POST	7
2	BSI-1610063-00	POST, I-BEAM, W6x9 6FT., GALVANIZED	1
3	BSI-1705026-00	POST 2, CRIMPED AND NOTCHED	1
4	BSI-1610061-00	GROUNDSTRUT, GALVANIZED	1
5	BSI-1610060-00	SOIL ANCHOR, GALVANIZED	1
6	BSI-4004386	W-BEAM GUARDRAIL, 4-SPACE, (RWM04a), 12 GAUGE	8
7	BSI-1711005-00	IMPACT HEAD, CHASED THREADS, MEDIAN	1
8	BSI-1610064-00	TSS PANEL, GALVANIZED	2
9	BSI-1610065-00	ISS PANEL, GALVANIZED	2
10	BSI-1610067-00	RSS PLATE, GALVANIZED	2
11	B061058	CABLE FRICTION PLATE, HEAD UNIT	1
12	BSI-1703105-00	26'-6" CABLE ASSEMBLY, MAX-TENSION MEDIAN END TERMINAL	2
13	BSI-1610069-00	CABLE ASSEMBLY, MAX-TENSION	2
14	BSI-1706010-00	DELINEATION BRACKET, MEDIAN IMPACT HEAD	1
15	4002337	W-BEAM TIMBER BLOCKOUT PDB01b	16
BSI-1801139-KT: MAX-TENSION MEDIAN TL-3 SYSTEM HW KIT			
16	BSI-1610066-00	TOOTH, GEOMET	1
17	4002051	RECT WASHER, STD	1
18	BSI-1102027-00	WASHER, SQUARE, X-LITE	1
19	BSI-2001886	BOLT HH 5/8-11x7, 2in THREAS, Gr5, GEOMET	1
20	BSI-2001885	BOLT HH 3/4-10x3 FULLY THREADED, Gr5, GEOMET	4
21	4001116	GUARDRAIL NUT RECESSED 5/8-11, Gr2 Mgal	3
22	2001636	WSHR 5/8 F436 STRUCT MGALV	2
23	BSI-2001888	Bolt CH 5/8-11x2 Fully Threaded, Gr5 Geomet	1
24	BSI-2001887	SCREW SD, HH 1/4-14 x 3/4, 410SS	4
25	BSI-1707029-00	PANEL HANGER, GALVANIZED	2
26	BSI-4004455	5/8 Cable Clamp, Galv	2
BSI-1801140-KT: MAX-TENSION MEDIAN TL-3 GUARDRAIL SPLICE HW KIT, IMPERIAL			
27	4001115	GUARDRAIL BOLT 5/8-11 x 1 1/4, Gr2 Mgal	96
28	4001116	GUARDRAIL NUT RECESSED 5/8-11, Gr2 Mgal	96
BSI-1801141-KT: MAX-TENSION MEDIAN TL-3 POST HW KIT, IMPERIAL			
29	2001840	GUARDRAIL BOLT 5/8-11 x 10, MGAL	16
30	4001116	GUARDRAIL NUT RECESSED 5/8-11, Gr2 Mgal	16
31	MANMAXM3	MAX-TENSION MEDIAN INSTALLATION MANUAL TL-3	1

NOTES: UNLESS OTHERWISE SPECIFIED.

1. SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. SEE ASSEMBLY AND INSTALLATION MANUAL FOR ADDITIONAL DETAILS.
3. A DRIVING CAP WITH A TIMBER OR PLASTIC INSERT SHALL BE USED WHEN DRIVING THE POST INTO THE SOIL TO PREVENT DAMAGE TO THE GALVANIZING TO THE TOP OF THE POST.
4. CABLES SHALL BE TIGHTENED USING THE HEX NUTS AT THE ISS PANEL (ITEM 9) UNTIL THEY ARE NOT VISIBLY SAGGING. BETWEEN POSTS. DO NOT TIGHTEN THE CABLES AT THE FRONT OF THE GROUNDSTRUT ANCHOR.
5. SYSTEM SHOWN USING STEEL WIDE FLANGE POST WITH TIMBER BLOCKOUTS. COMPOSITE BLOCKOUTS CAN BE USED IN LIEU OF TIMBER BLOCKOUTS. (REFERENCE SPECIFICATION 536).
6. PANELS NOT CONNECTED TO BLOCKOUT OR POSTS.
7. IMPACT HEAD (ITEM 7) NESTED ON INSIDE OF GUARDRAIL PANELS, BOTH SIDES.
8. CUTTING TOOTH (ITEM 16) IS TO BE INSTALLED ON APPROACH TRAFFIC SIDE.
9. ALL STEEL COMPONENTS ARE GALVANIZED PER ASTM A123 OR EQUIVALENT UNLESS OTHERWISE STATED.
10. APPLY YELLOW REFLECTIVE SHEETING TO THE DELINEATION BRACKET IN ACCORDANCE WITH SPECIFICATION 536.
11. EXTRA SELF-DRILLING SCREW IS PROVIDED.
12. ITEM IS PART OF KIT P/N: BSI-1801139-KT: MAX-TENSION MEDIAN TL-3 SYSTEM HW KIT.
13. ITEM IS PART OF KIT P/N: BSI-1801140-KT: MAX-TENSION MEDIAN TL-3 GUARDRAIL SPLICE HW, 4 PANELS, KIT.
14. ITEM IS PART OF KIT P/N: BSI-1801141-KT: MAX-TENSION MEDIAN TL-3 POST HW KIT.
15. RECESSED HEX NUTS TO BE INSTALLED ON TRAFFIC SIDE.
16. TIGHTEN AFTER PRIMARY CABLES (ITEM 13) HAVE BEEN TENSIONED AND SET. TIGHTEN USING HEX NUTS IN FRONT OF IMPACT HEAD UNTIL CABLES ARE NO LONGER SAGGING.
17. FOUR 25' GUARDRAIL PANELS CAN BE USED IN PLACE OF THE EIGHT 12'-6" PANELS. IN THE 25' PANEL CONFIGURATION, THE SPLICE HARDWARE BETWEEN PANELS IS NOT USED. THE QUANTITY OF ITEMS 27 AND 28 IS REDUCED BY 32 IF THE 25' GUARDRAIL PANEL CONFIGURATION IS USED.



**31" MAX-TENSION MEDIAN TL-3 SYSTEM
BILL OF MATERIALS**

SIZE	DWG. NO.	REV.
B	BSI-1805043-AP	4
SCALE	1:1	FDOT APL 536-006-005 SHEET 5 OF 5