

CONTENTS

TX Tangent End Terminal NOTES

DESCRIPTION	DRAWING NUMBER
TX End Terminal (Plan and Elevation)	FL-TMGUS-001-A (Rev. 0)
TX End Terminal (Details)	FL-TMGUS-001-B (Rev. 0)

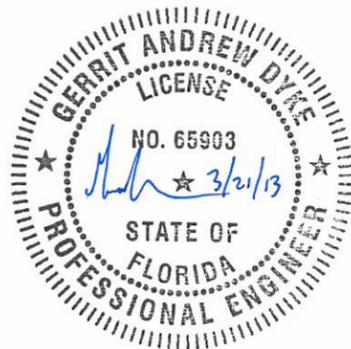
1. The guardrail end anchorage system represented on this drawing is a proprietary design by Formet, Inc. and marketed under the trade name TX End Terminal.
2. This drawing is sufficient for plan details for the TX End Terminal when installed in connection with shoulder guardrail and precludes the requirement for shop drawing submittals unless the plans otherwise call for such submittals. The TX End Terminal shall be assembled in accordance with the manufacturer's detailed drawings, procedures and specifications.
3. The TX End Terminal System is available in steel post with timber blockout configuration only. Post #1 to #3 are crimped steel W6x8.5 and W6x9 flanged posts. Posts #4 and #5 are standard steel W6x8.5 and W6x9 flanged posts. Post #2 is a special steel flanged post with integral soil plate (See Vendor Details). Since the TX End Terminal is only available in a steel post configuration, it should NOT be used adjacent to sidewalks.
4. The TX End Terminal is intended for use as an approach end guardrail anchorage for shoulder guardrail. The length of Need is located at Post #3. The effective length of the TX End Terminal is 37.50'

The alignment of the TX End Terminal can be offset from 0' to 1.5'

The alignment of the TX End Terminal is an extension of the normal guardrail alignment, except when constructed with curb alignment of the TX End Terminal will be flared over the first 25' at a rate of 1:25

5. The TX End Terminal can not be used in medians where horizontal clearance requires the use of a backrail.
6. For galvanizing requirements of metallic components see Standard Specification Section 967.
7. For details of shoulder widening, miscellaneous asphalt pavement and pay limits see Index 400.
8. If the plans call for the TX 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 VECP consideration. Contractor has the option to construct any FDOT approved parallel assembly.
9. The TX 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 detail drawings, procedures and specifications; and this drawing.

10. Maintain a relatively clear and traversable run-out area behind and beyond all gating end terminals.



REV. N°	DATE	DESCRIPTION	MODIFIED	REV.	APPROVED

TECHNICAL SHEET CONSTRUCTION PRODUCTS

TX TANGENT TERMINAL
FDOT QPL S536-0219

DREW : L.H.S.O.	REV : A.M.V.
APPROVED : A.C.H.	DATE : 03/18/13
DRAW N° FL-TMGUS-COVER	

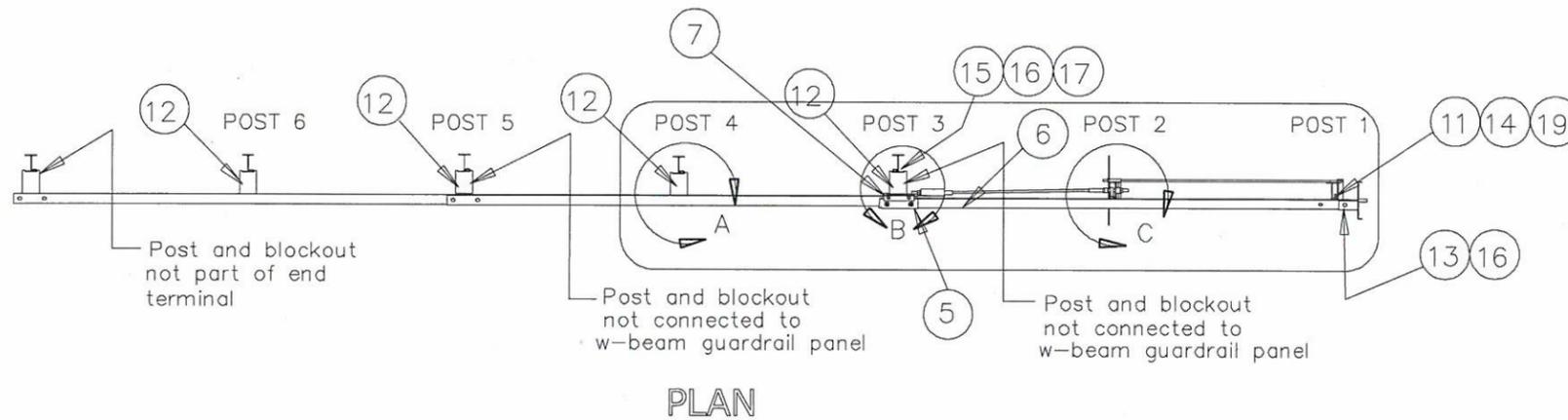


Model Number	System Width	System Length	Design Length	Design Speed	Test Level Designation	Remarks
T0612712TX	21"-11/16"	38'-10.5"	37'-6"	≤ 45 MPH	TL-2	See Low Speed Facilities Note Below
T0612712TX	21"-11/16"	38'-10.5"	37'-6"	≥ 50 MPH	TL-3	

Note:

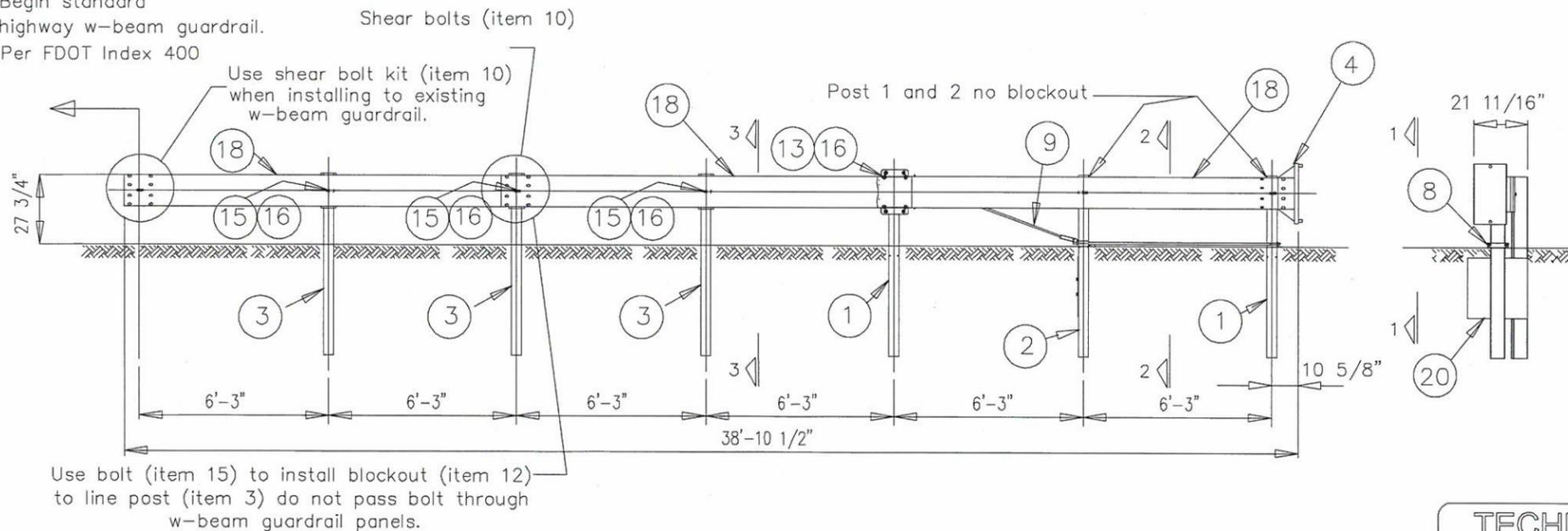
For Low Speed Facilities With a Design Speed ≤ 45 MPH- May use a TL-3 System in Lieu of a TL-2 System.

For High Speed Facilities With a Design Speed ≥ 50 MPH- Use a TL-3 System.



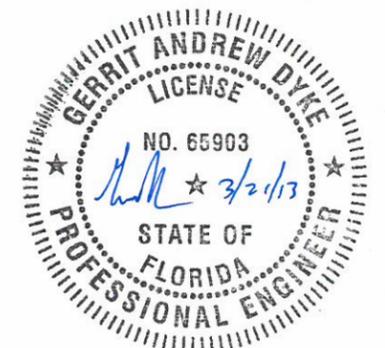
BILL OF MATERIALS				
Find No.	Part No.	QTY	Description	Spec
1	T062GP86TFC	2	Crimped Post	TX
2	C06BSI1012086	1	Post # 2	TX
3	T062GP86TF	3	Post standard	FDOT
4	T06SBSI1012103	1	Impact Head	TX
5	T06SBSI1012093	1	Slider Panel, Front	TX
6	T06SBSI1012090	1	Slider Bracket	TX
7	T06SBSI1012096	1	Slider Panel, Back	TX
8	T06SBSI1102001KT	1	Ground Strut Kit	TX
9	C06BSI1012104	1	Cable Anchor Assembly	TX
10	C06BK080122	2	Special Shear Bolt Kit (Yellow Head)	TX
11	C06BSI1102027	1	Washer, Square	TX
12	C06WB6814WG	4	Wood Block 6"X8"X14" w/guides	FDOT
13	B06WB6814WG	17	Guardrail Bolt 5/8"-11x1 1/4"	FDOT
14	C06BS6215	1	Bolt CH 5/8"-11x1 1/2" Gr2 Mgal	FDOT
15	C06BP6210	4	Bolt CH 5/8"-11x10" Gr2 Mgal	FDOT
16	C06BN62DR	21	Guardrail Nut Recessed 5/8"-11	FDOT
17	C06B2001636	1	Wshr 5/8" F436 Flat Rd Struct	FDOT
18	T062GE120382	3	W-Beam Guardrail RWM02a	FDOT
19	C06BN62	1	Nut HN 5/8"-11 Gr2 Mgal	FDOT
20	T06PBSI1012082	1	Soil Plate Kit	TX

Begin standard highway w-beam guardrail. Per FDOT Index 400



Notes:

1.-All Guardrail Posts, Panels, Blockouts, and associated hardware shall be in accordance with FDOT Standard Specification 536 & Design Standard Index 400.



TECHNICAL SHEET

CONSTRUCTION PRODUCTS

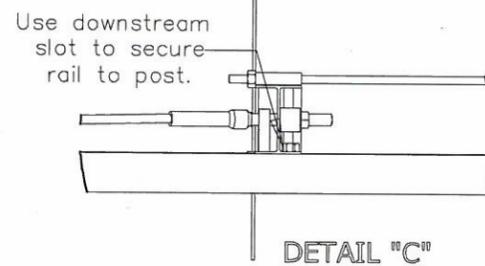
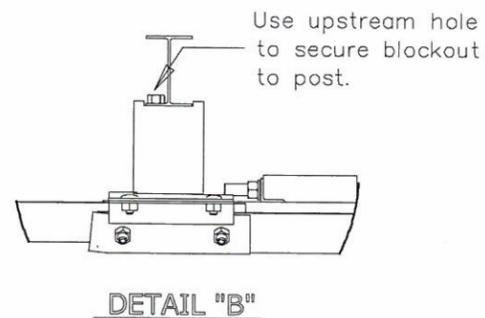
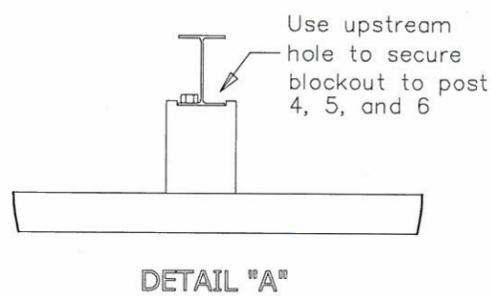
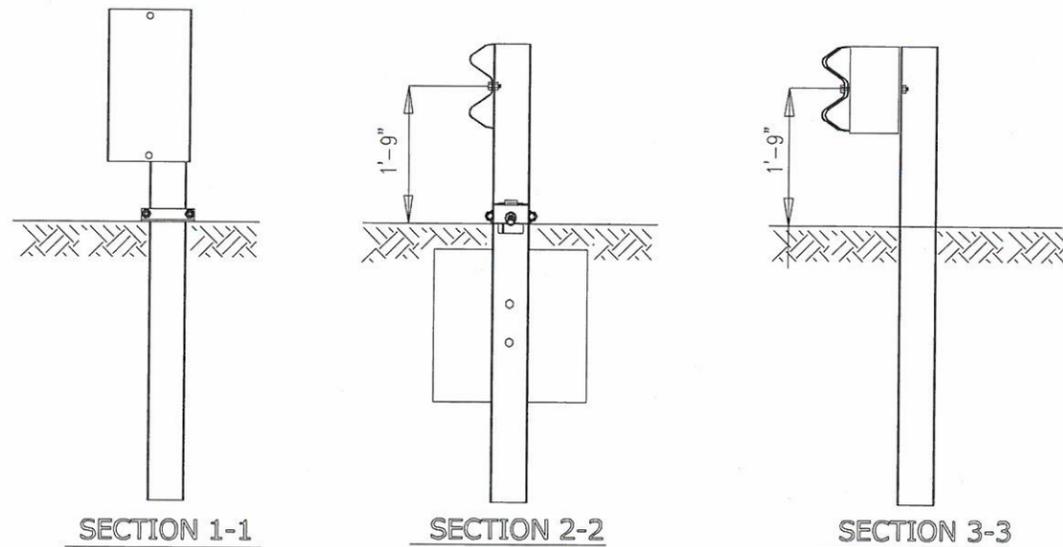
TX TANGENT TERMINAL
FDOT QPL S536-0219

DREW : L.H.S.O.	REV : A.M.V.
APPROVED : A.C.H.	DATE : 03/18/13
DRAW N° FL-TMGUS-001A	



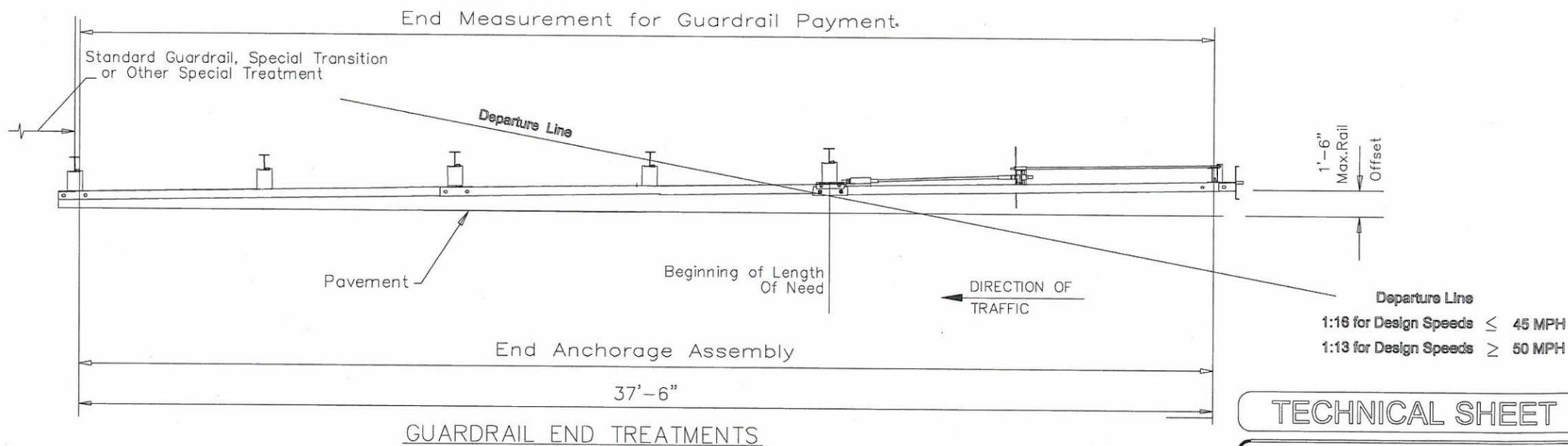
REV. N°	DATE	DESCRIPTION	MODIFIED	REV.	APPROVED

SHEET
1 of 2

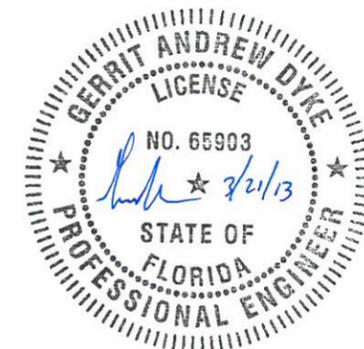


GENERAL NOTES

1. For additional information contact FORMET Inc.
5801 Riverside Laredo Tx. 78041 Ph; (956)753-2400
or Fax (956)753-2402
2. All bolts, nuts, cable assemblies, cable anchor, ground strut, slider pieces impact head and all steel components shall meet the galvanizing requirements for guardrail, Section 967 of the FDOT Standard Specifications
3. If rock excavation is encountered, consult the manufacturer's installation booklet for recommendations.
4. 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.
5. The special shear bolts used to connect the "W beam" panels at Post # 5 and #7 are different than regular splice bolts, for easy identification they are supplied with yellow heads.



GUARDRAIL END TREATMENTS



TECHNICAL SHEET CONSTRUCTION PRODUCTS

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FDOT QPL S536-0219

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L.H.S.O.	A.M.V.
APPROVED :	DATE :
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FL-TMGUS-001B	



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SHEET
2 of 2