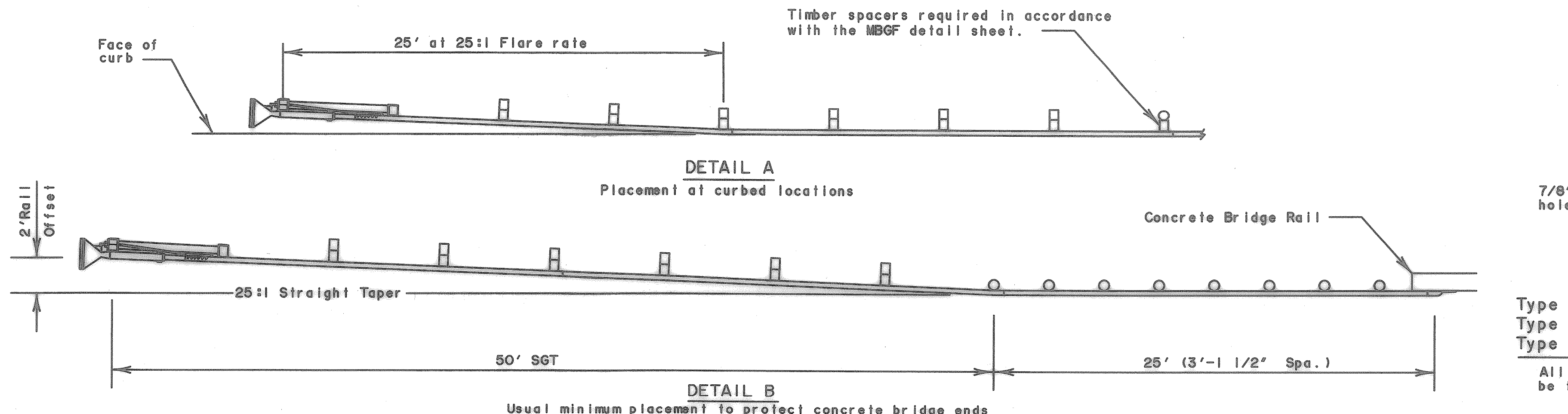
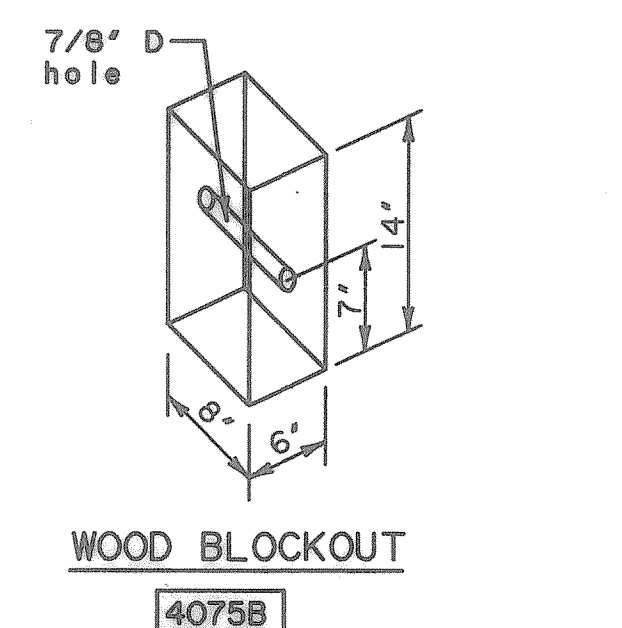
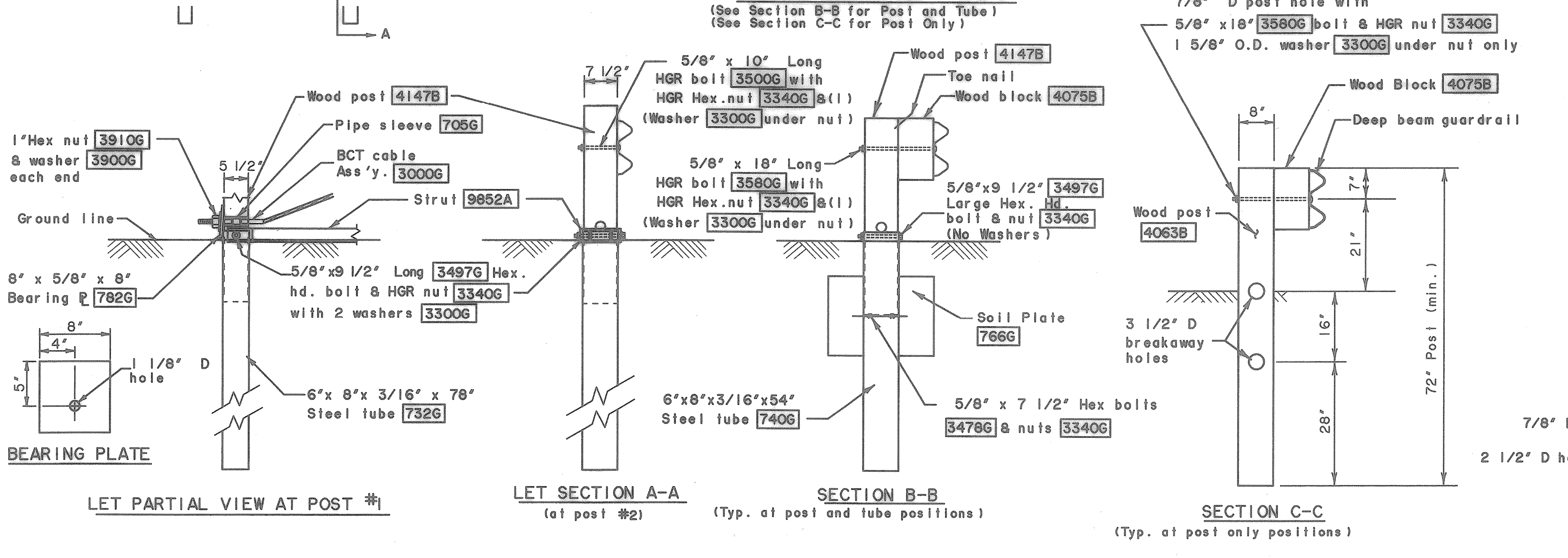
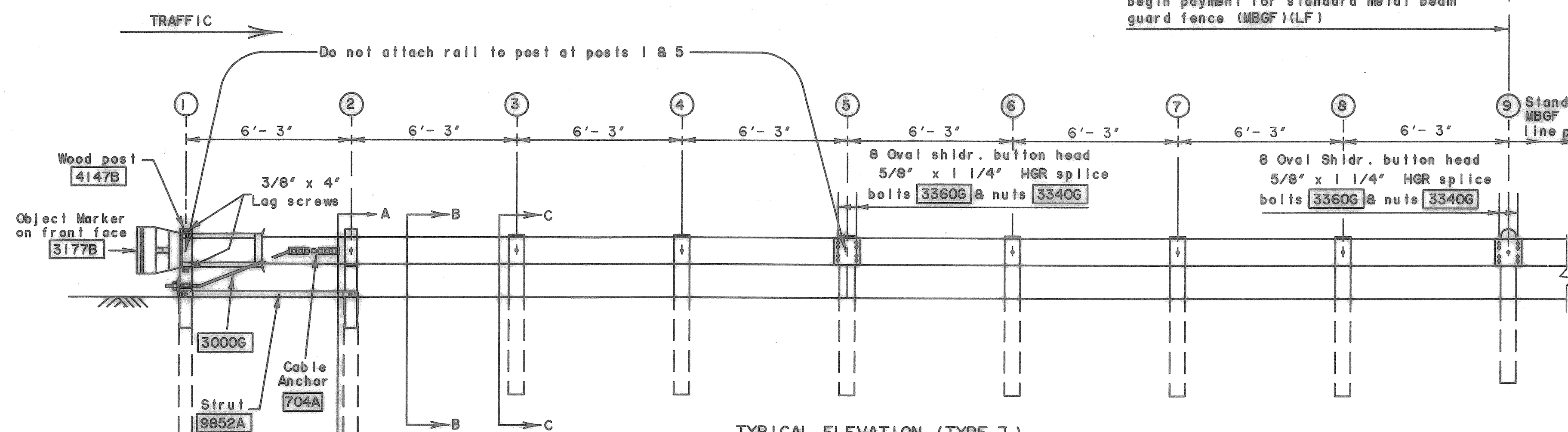
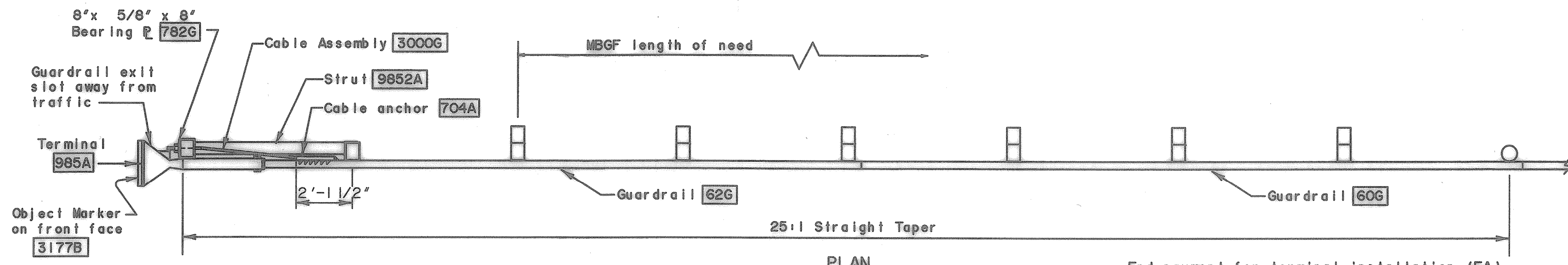


GENERAL NOTES

- The type of SGT unit will be specified elsewhere in the plans. (Numbers in circles indicate post position.)
- Wood posts are required with this guardrail end treatment.
- All bolts, nuts, cable assemblies, cable anchors, steel tubes & bearing plates shall be galvanized.
- For non-curb installations, the MBSF will be flared at a rate of 25:1 over the first 50 foot of the system to prevent the terminal head from encroaching on the shoulder. The flare may be decreased or eliminated for specific installations if directed by the Engineer. A 25:1 flare rate will be used at curb sections, beginning at post number 5 and ending at post number one.
- The steel tubes shall not protrude more than 4 inches above ground. Site grading may be necessary to meet this requirement.
- The steel tubes may be driven with an approved driving head. They shall not be driven with the wood post in the tube. If the steel tubes are placed in drilled holes, the backfill material must be satisfactorily compacted to prevent tube settlement.
- When rock excavation is encountered, a 12 inch diameter post hole, 20 inches deep may be used if approved by the Engineer. Granular material will be placed in the bottom of the hole approximately 2 1/2 inches deep to provide drainage. The steel tube sleeves will be field cut to 20 inches in length, placed in the hole and backfilled with adequately compacted material excavated from the hole.
- The breakaway cable assembly must be fault. A locking device, (vice grips or channel lock pliers) should be used to prevent the cable from twisting when tightening the nuts.
- The wood blockouts shall be "toe nailed" to the rectangular wood posts to prevent them from turning when the wood shrinks.
- For curb installations, the soil tubes and posts shall be installed at the proper ground elevation behind the curb. The posts will then require field drilling new holes to accommodate the rail to post connection bolt to maintain the proper height of the rail above the gutter pan. The excess post length above the rail will be removed if directed by the Engineer.
- An object marker shall be installed on the front of the Impact head as detailed on D80M(VIA).
- A special site evaluation should be considered, prior to using this end treatment where there is less than 25 feet between the extrusion side of the end treatment and any adjacent driving lane.

		BILL OF MATERIAL							
Code #	LET-2000		ET-2000				DESCRIPTION		
	Type I Qty.	Type II Qty.	Type I Qty.	Type II Qty.	Type I Qty.	Type II Qty.			
62G	1	1	1	1	1	1	#1 Deep Beam Guardrail (12 Ga) at 25'		
60G	1	1	1	1	1	1	#2 Deep Beam Guardrail (12 Ga) at 25'		
732G	2	2	2	2	-	-	Steel Tube - 6" x 8" x 78" x 3/16"		
740G	0	2	6	4	8	8	Steel Tube - 6" x 8" x 54" x 3/16"		
766G	0	2	6	4	8	8	Soil Plate - 18" x 24" x 1/4"		
4147B	2	4	8	4	8	8	Wood Posts - 5 1/2" x 7 1/2" x 45"		
4063B	6	4	0	4	0	0	Wood CRT Posts - 6" x 8" x 72"		
4075B	6	6	6	7	7	7	Wood Block - 6" x 8" x 14"		
705G	1	1	1	1	1	1	Pipe Sleeve - 2" sid. pipe x 5 1/2"		
782G	1	1	1	1	1	1	Bearing Plate - 8" x 8" x 5/8"		
704A	1	1	1	1	1	1	Cable Anchor		
3000G	1	1	1	1	1	1	Cable Assembly (3/4" x 78")		
9852A	1	1	1	-	-	-	Inline Strut		
9918A	-	-	-	1	1	1	Offset Strut		
985A	1	1	1	1	1	1	ET-2000 Guardrail Terminal		
HARDWARE									
3497G	2	4	8	4	8	8	5/8"x9 1/2" Hex Hd. Bolt (Top of tubes)		
3300G	11	11	11	11	11	11	5/8" Washers		
3478G	2	4	8	8	16	16	5/8" x 7 1/2" Hex Bolt		
3500G	1	1	1	-	-	-	5/8" x 10" Post Bolt (Post 2 of LET)		
3580G	6	6	6	7	7	7	5/8"x18" HGR Post Bolt (posts ③ thru ⑧)		
3360G	16	16	16	16	16	16	5/8" x 1 1/4" HGR Splice Bolt		
3340G	27	31	39	35	47	47	5/8" HGR Nut (16-spl, 7-posts, 2-strut, 2 each at tube ③ thru ⑧)		
4228G	2	2	2	2	2	2	3/8" x 4" Lag Screw		
3910G	2	2	2	2	2	2	1 Hex Nut (Anchor Cable)		
3900G	2	2	2	2	2	2	1 Washer (Anchor Cable)		
3177B	1	1	1	1	1	1	Object Marker (18" x 18")		



Type I Posts ① thru ②
 Type II Posts ① thru ④
 Type III Posts ① thru ⑧

All measurements should be taken from bottom of posts.
 R = Radius
 D = Diameter

RECORD PLANS
 12-17-2002

Texas Department of Transportation
 Design Division (Roadway)

SINGLE GUARDRAIL TERMINAL
 (LET-2000 & ET-2000)

SGT(6)-97

FILE: sg1697.dgn	DN: MAN	CK: MAN	DN: BGD	CK:	NEG: R0000
DATE: JUNE 1994	DIST:	FED REG:	FEDERAL AID PROJECT:	SHEET:	51
REVISIONS:		6			
COUNTY:	CONTROL:	RECT:	JOB:	HIGHWAY:	

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LEVELS DISPLAYED	1
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