

## NOTES:

5' min. See Note

flatter

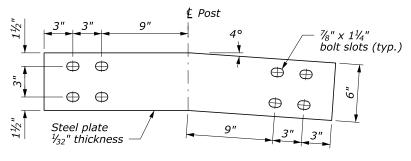
1/2" thick steel bearing plates

 $^{13}\!/_{16}$ " dia. holes (typ.)

STEEL BEARING PLATE

- 1. Extend the fill widening a minimum of 5 feet behind the guardrail, unless otherwise directed by the CO.
- 2. The guardrail flare shown in the plan view is the minimum length and rate required. As directed by the CO, flare the guardrail so that the terminal section is outside the clear zone. If the terminal section cannot be located outside the clear zone, it should be flared as far as practical from the road at the maximum rate indicated on the Guardrail Flare Rates table.
- 3. See Standard 617-60, Steel-Backed Timber Guardrail, Type SBTA and SBTB, for timber, structural steel, and hardware details.
- 4. On the Type A, blocked-out guardrail, include the blocks in terminal section, except on the concrete anchor. For the Type B, non-blocked-out guardrail, no blocks are included.

GUARDRAIL FLARE RATE TABLE				
Design Speed (mph)	Shy line offset (ft)	Flare rate inside shy line (a:b)	Flare rate outside shy line (a:b)	
60	8.0	26:1	14:1	
50	6.5	21:1	11:1	
40	5.0	16:1	8:1	
30 and less	4.0	13:1	7:1	



ANGLED STEEL SPLICE PLATE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION EASTERN FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

## STEEL-BACKED TIMBER GUARDRAIL **TERMINAL SECTION TYPE SBT-FAT**

DETAIL

ET 617-61

STANDARD APPROVED FOR USE 1/1990 REVISED: 4/1994 6/2005 12/2013 4/2016 9/2017

NO SCALE

Shy line	Block, Typ (See Note	$\frac{-4)}{a}b  Flare \ rate=a:b $ $(See \ table)$	
Begin Terminal flare (See Note 2) —/	Shy line offset	See roadway typical section for offset distance —	
Standard post section	Edge of pavement PLAN		
Standard post section Steel-backed timber guardrail		limits for	
(See Note 3)	Type SBT-FAT terminal section		
	Angled steel splice plate		
100	_ Steel sp	plice plate	
	00 00	See Detail A —	
	1991-4-166	00 100	
Ground line —		Concrete anchor for terminal section	
	10'-0" (typ.)		
	ELEVATIO	N.	
	PPROACH & DEPARTURE FLARE WITH I		
	FFROACH & DEFARTORE FEARE WITH	LAKED ANCHOR TERMINAL (TAT)	
Ground line A	6" 12	Ground line	
2.0	3%		

2'-3"

SECTION A-A

**CONCRETE ANCHOR** 

Hinge line of foreslope

 $^{13}\!\!/_{16}$ " dia. holes (typ.)

8¾"

2'-3"

DETAIL A

30' Flare Length (min.)

(See Note 2)