

STATE PROJECT SHEET NUMBER

## NOTE:

- 1. Use the Type A, blocked-out, system or the Type B, non-blocked-out, system as specified.
- 2. Use the weathering steel for all structural steel and fastener hardware.
- 3. Furnish shop bent splice plates. Use the minimum bend angle shown in the table below.
- 4. See Sheet 2 of 2 for Plan View Layout.

BEND AND END CUT TABLE			
Radius R ft	Δ/2 degrees	d in	
20	7.18	3/4	
25	<i>5.74</i>	<i>5</i> /8	
30	<i>4.78</i>	1/2	
35	4.10	₹ <sub>16</sub>	
40	3.58	3/ <sub>8</sub>	
45	3.18		
50	2.87	<sup>5</sup> / <sub>16</sub>	
<i>55</i>	2.61	1/4	
60	2.39	1/4	
65	2.20	1/4	
70	2.05	1/4	
over 70	flat	0	

BOLT LENGTH TABLE		
Type A (Block-out)	Type B (No Block-out)	
15"	11"	

REVISED:

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

U.S. CUSTOMARY STANDARD

STEEL-BACKED TIMBER GUARDRAIL AROUND CIRCULAR CURVES 70 FOOT RADIUS AND BELOW

Sheet 1 of 2

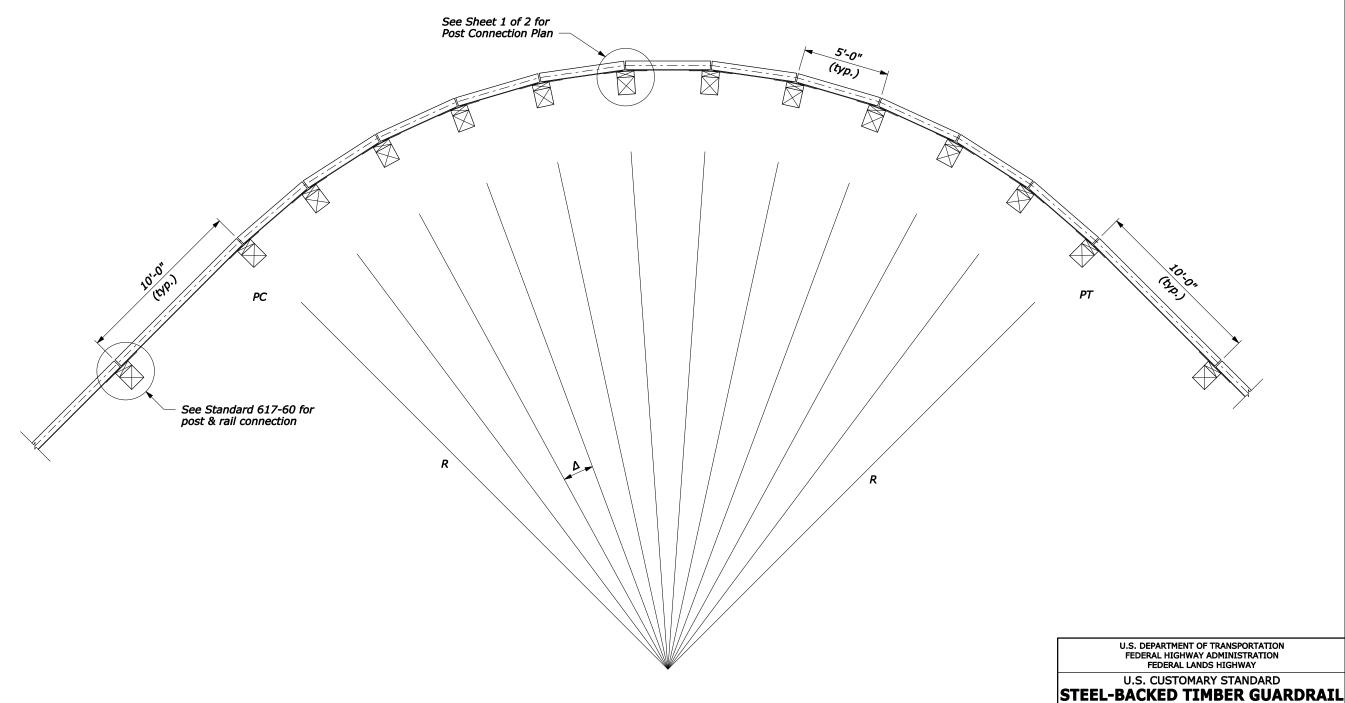
STANDARD APPROVED FOR USE 6/2005 STANDARD

617-63

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## NOTE:

- 1.  $\Delta$  is the central angle which subtends a 5'-0" chord.
- 2. R is measured from the center of the circle to the back surface of the rough sawn timber rail.



**PLAN VIEW LAYOUT** 

NO SCALE

**AROUND CIRCULAR CURVES** 70 FOOT RADIUS AND BELOW Sheet 2 of 2

STANDARD APPROVED FOR USE 6/2005 REVISED:

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