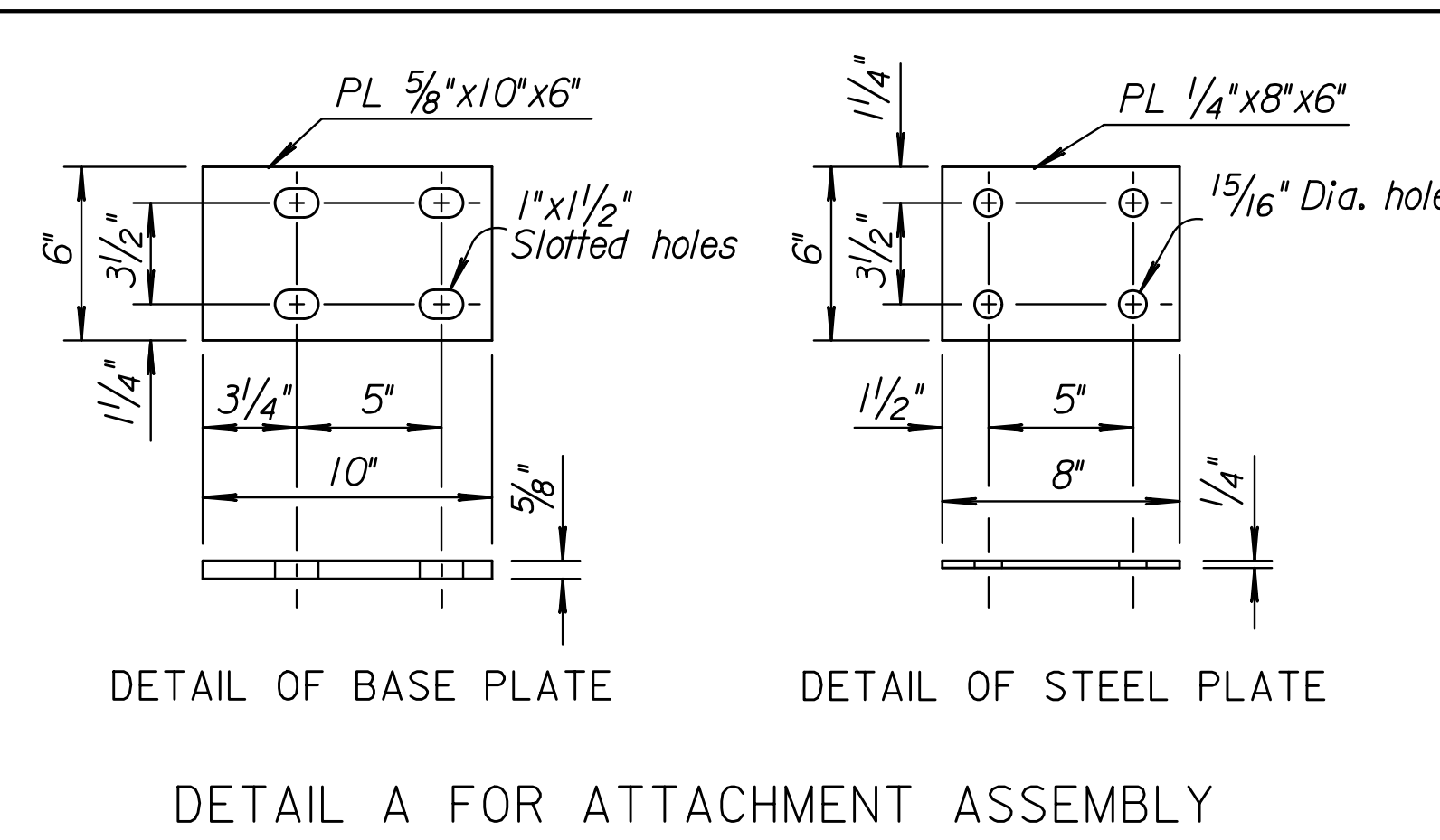
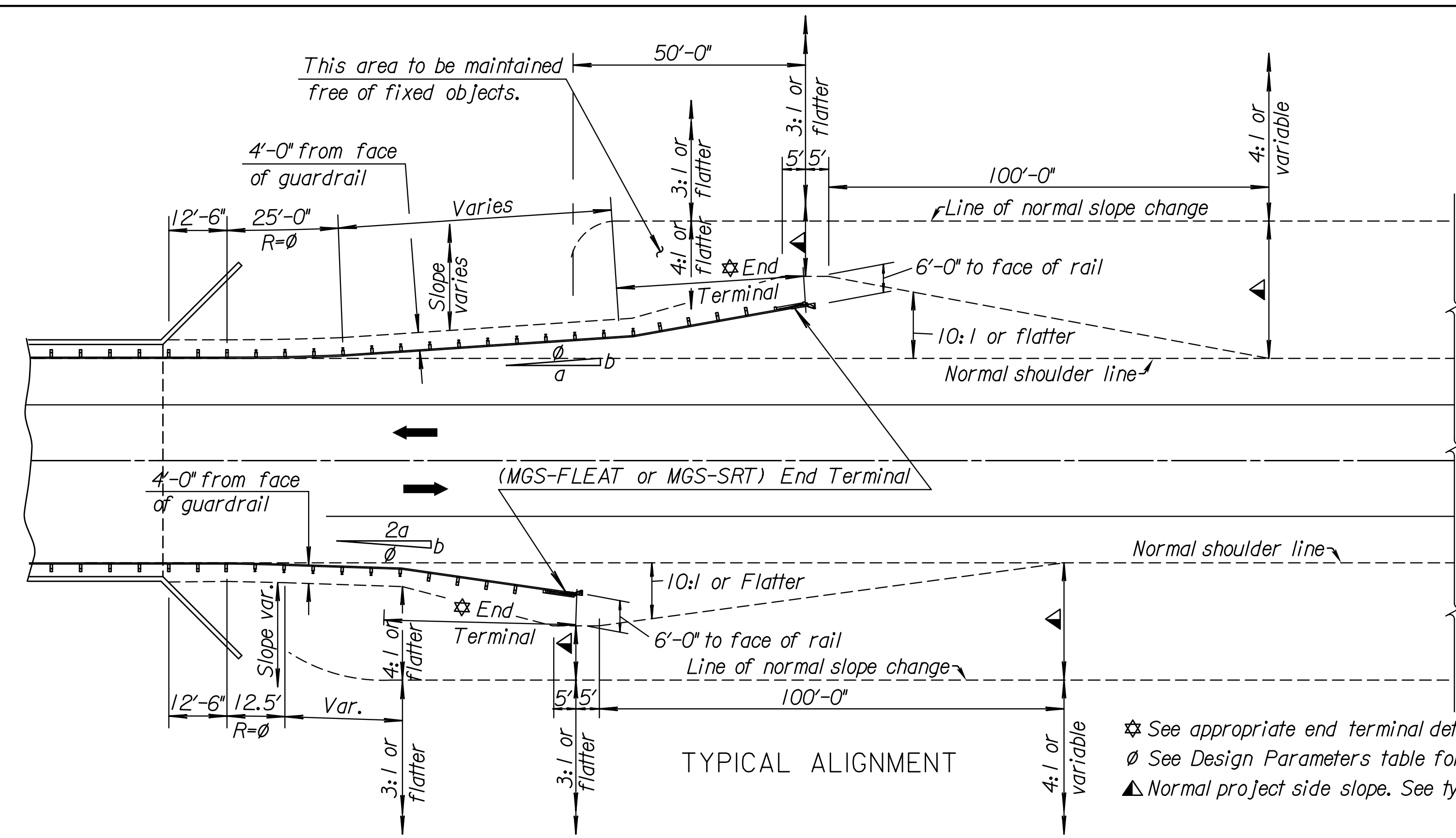


Notes to Designer: Determine guardrail length of need using either KDOT's Length of Need Equation or a graphic design approach with an L<sub>1</sub> distance measured from the edge of the area of concern to the P.I. of the curved guardrail section.

Plotted: 29-AUG-2012 12:35

Drawn By: tfooads  
File: rd617c-1.dgn

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS				

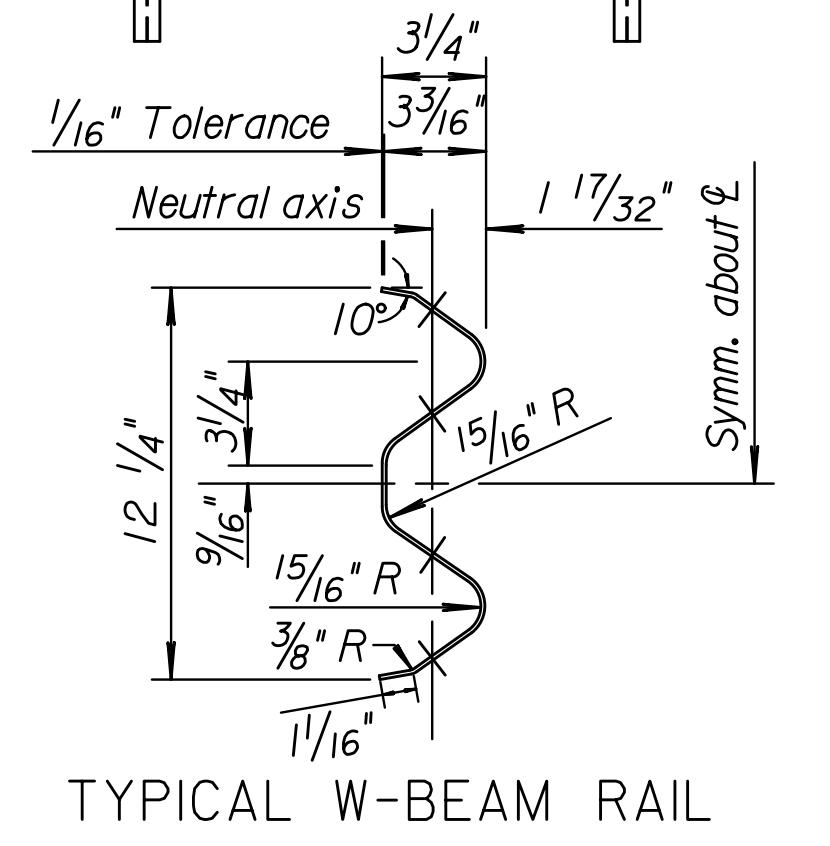
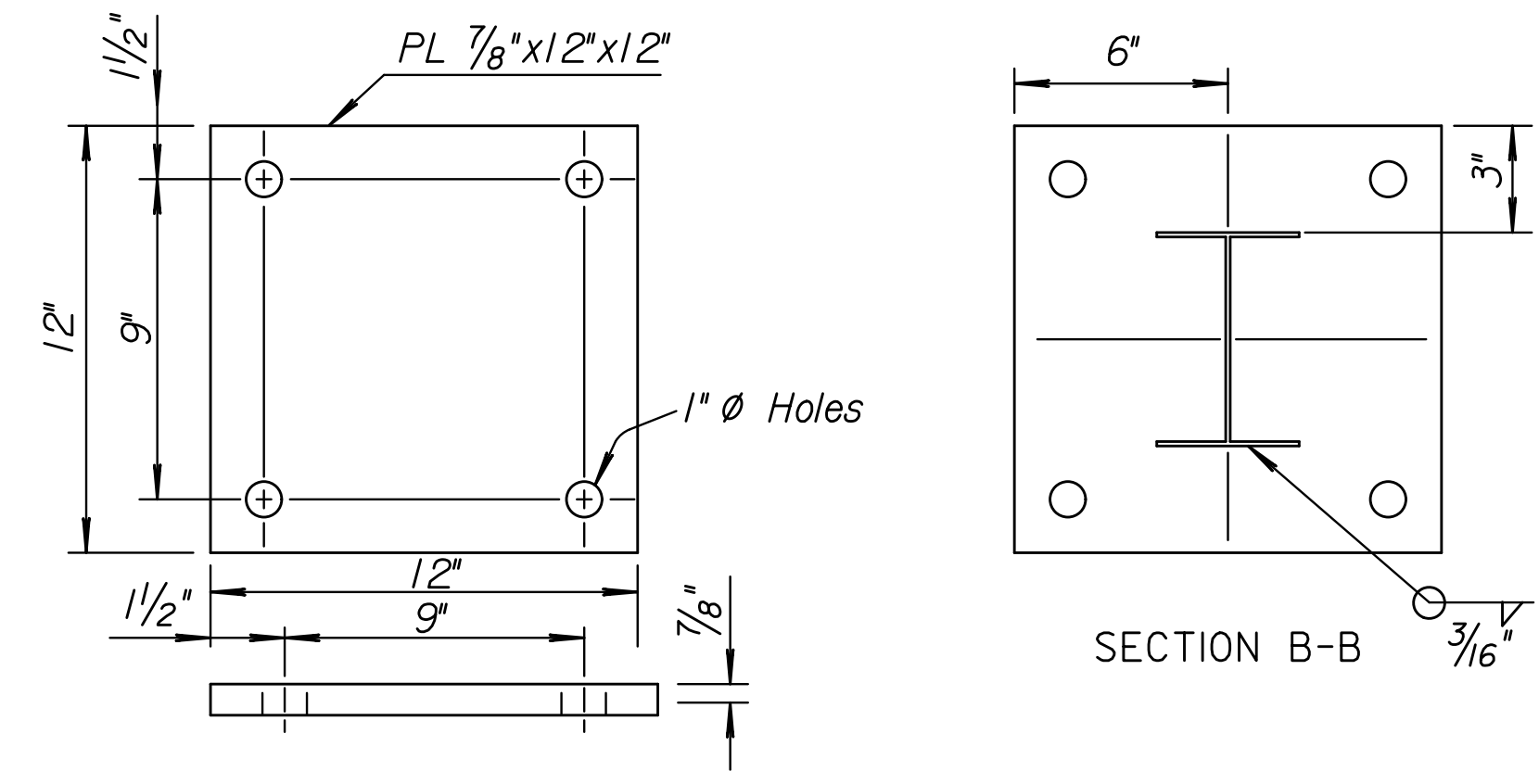
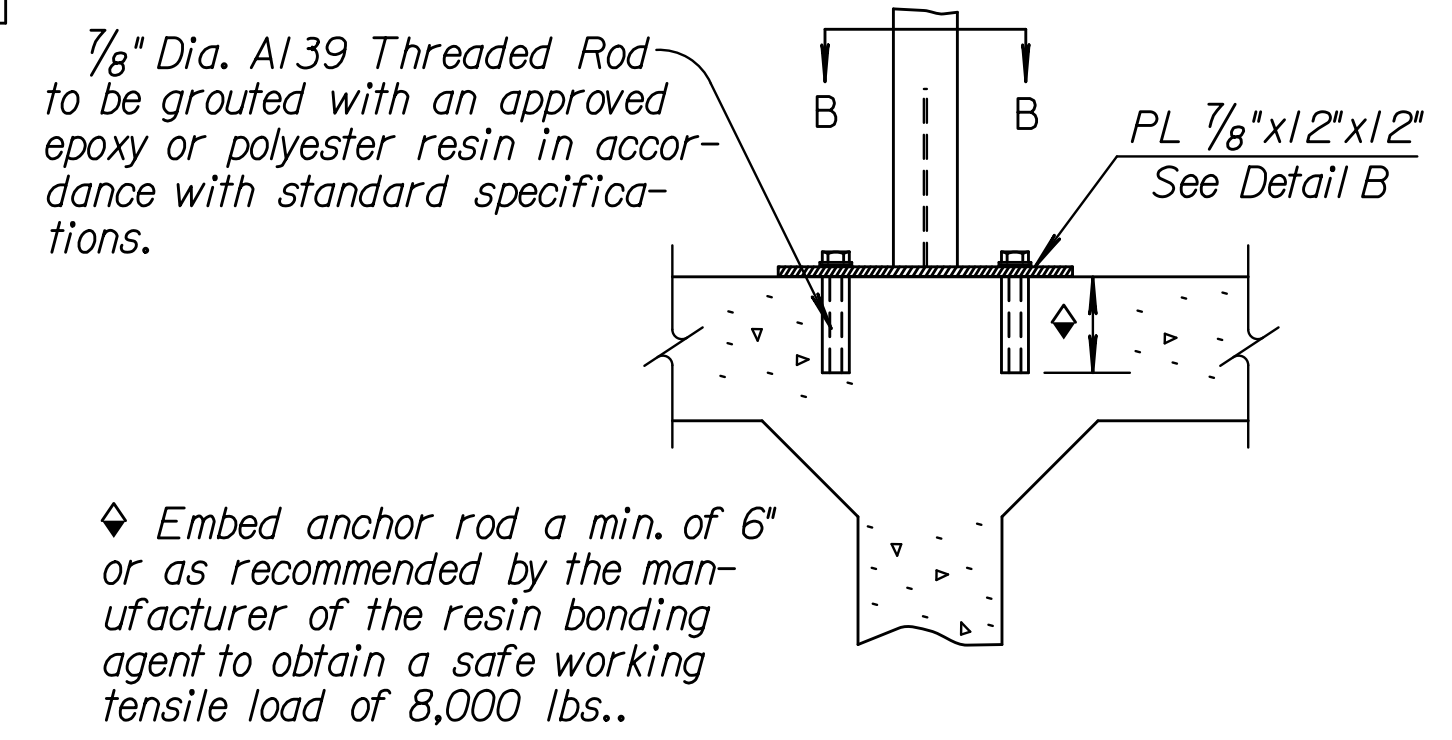
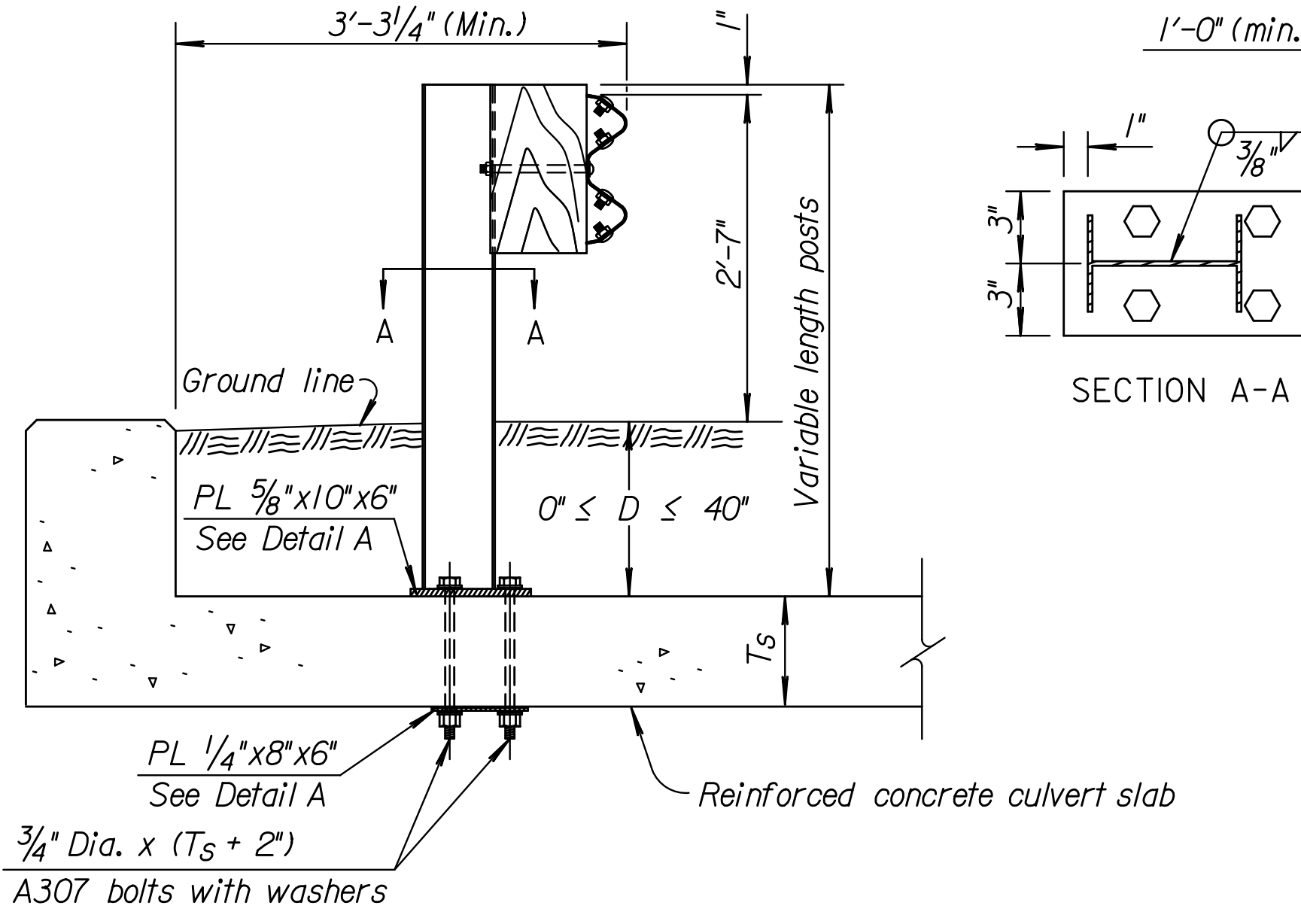
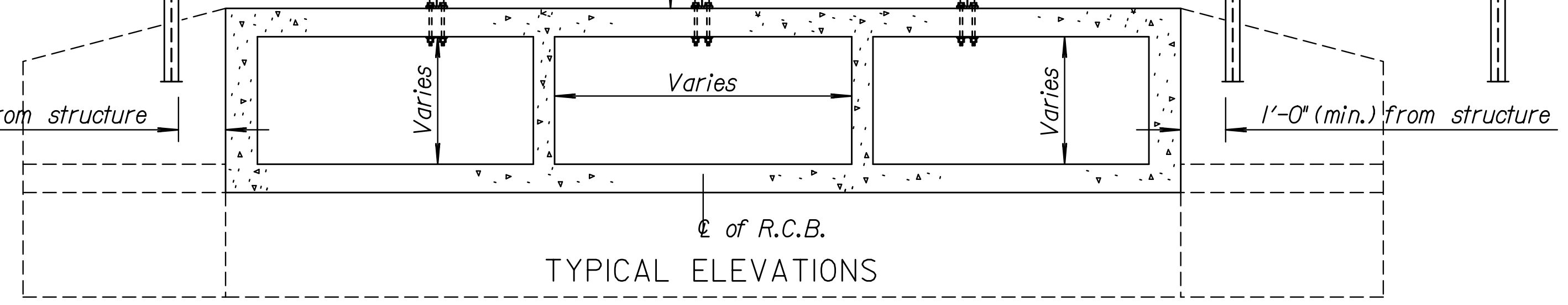
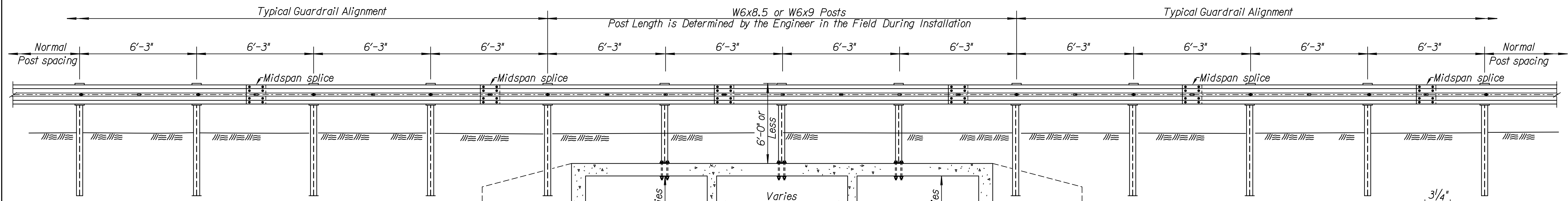


**GENERAL NOTES**  
 Use this Standard Drawing for (MGS) Guardrail installed over a low fill culvert greater than 22'-6" wide. See Typical Alignment for guardrail installation from posts attached to culvert to End Terminal.  
 Use Standard W-Beam Guardrail throughout.  
 See Standard Drawing RD611A for guardrail post and blockout details not shown on this sheet.  
 Guardrail layout shown this sheet is for flared installation, see Standard Drawing RD606E for (MGS-FLEAT) End Terminal or Standard Drawing RD621A for (MGS-SRT) End Terminal.

Design Parameters				
Design Speed (mph)	Flare Rate (a:b)	Radius (R)	Flare Rate (2a:b)	Radius (R)
70	15:1	375.55'	30:1	375.14'
60	14:1	350.59'	26:1	325.16'
55	12:1	300.69'	24:1	300.17'
50	11:1	275.76'	21:1	262.70'
45	10:1	250.83'	18:1	225.23'
40	8:1	201.04'	16:1	200.26'

Note: Where guardrail is beyond shy line use flare rate of a:b and 25'-0" curve length. When guardrail is located inside shy line use flare rate of 2 a:b and 12'-6" curve length.

☆ See appropriate end terminal details.  
 ∅ See Design Parameters table for radius and flare rate.  
 ▲ Normal project side slope. See typical sections.



NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION  
**ALIGNMENT (FLARED) & DETAILS FOR (MGS) GUARDRAIL PROTECTION ON LOW FILL CULVERTS**  
 RD617C

DESIGNED	QUANTITIES	APP'D. James O. Brewer
DESIGN CK.	DETAIL CK.	TRACED Bowser
		TRACE CK. King

KDOT Graphics Certified 08-29-2012