

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Tri	299	53.5/64.0	16	70
<i>Heidi Borders</i> REGISTERED CIVIL ENGINEER		11-06-13	DATE		
		11-06-13	PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

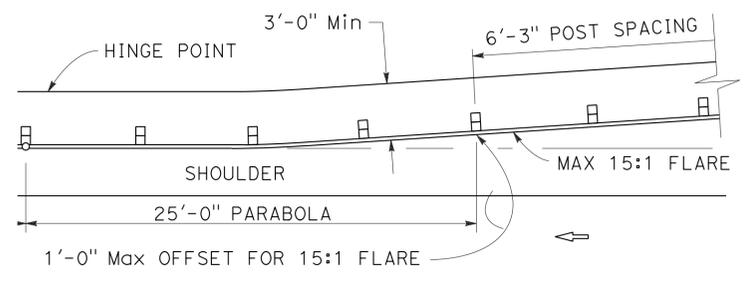


BASE LINE (EDGE OF PAVED SHOULDER OR OFFSET LINE OF EDGE OF TRAVELED WAY)

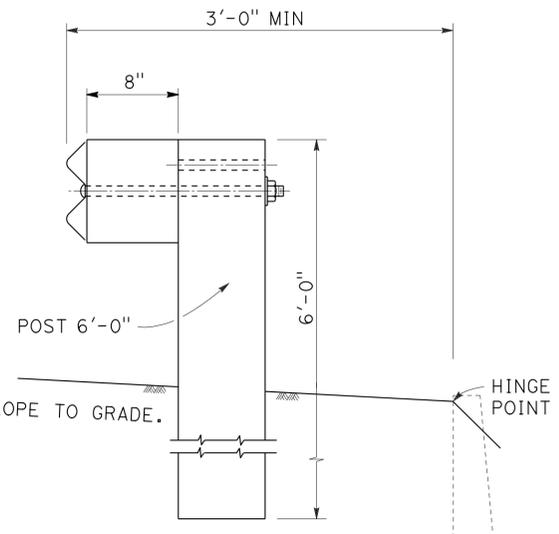
$$Y = \frac{WX^2}{L^2}$$

Y = OFFSET FROM BASE LINE
 W = MAXIMUM OFFSET
 X = DISTANCE ALONG BASE LINE
 L = LENGTH OF FLARE

PARABOLIC FLARE OFFSETS



GUARDRAIL WITH FLARED ALIGNMENT

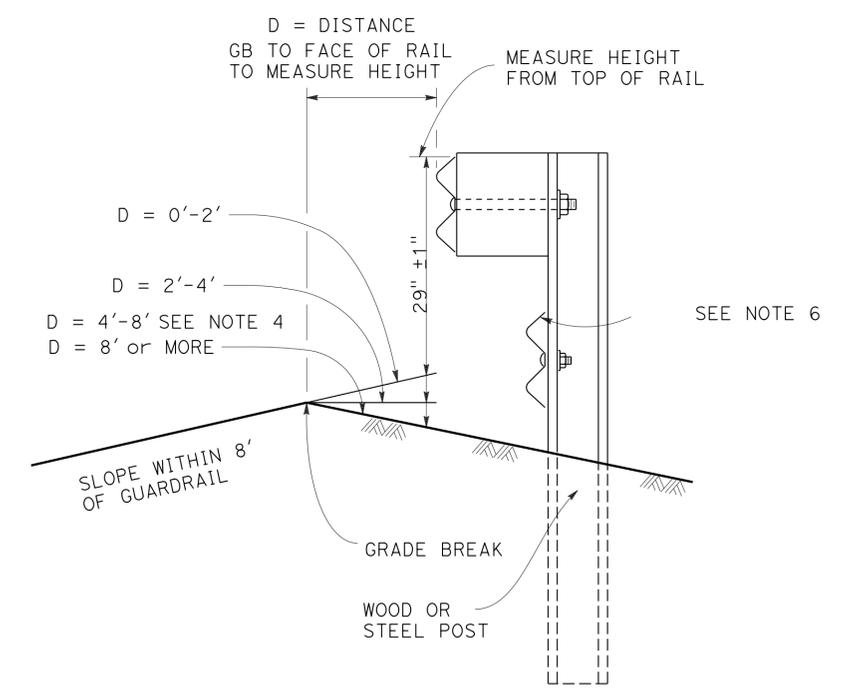


**DETAIL A
TYPICAL ROADWAY
INSTALLATION**

SEE NOTE 1

NOTES:

1. THESE INSTALLATION DETAILS APPLICABLE TO WOOD AND STEEL LINE POST INSTALLATIONS.
2. SEE ENGINEER IF SLOPE INFRONT OF GUARD RAIL IS STEEPER THAN 10:1.
3. SEE ENGINEER FOR ALTERNATIVES IF LESS THAN 2' FROM FACE OF RAIL TO HP.
4. WHEN THERE IS A BREAK POINT INFRONT OF GUARDRAIL BETWEEN 4'-8' CONTACT ENGINEER.
5. W6 x 15 STEEL POST, 8'-0" IN LENGTH, WITH 8" NOTCHED BLOCKS MAY BE USED IN PLACE OF THE 10" x 10" x 8'-0" WOOD POST WITH 8" BLOCK SHOWN IN THE "STRENGTHENED RAILING SECTIONS DETAILS".
6. PLACE RUB RAIL (GUARD RAIL ELEMENT) AND ATTACH TO POST WITH NO BLOCK WHEN HEIGHT OF GUARD RAIL IS MIN 32" ABOVE FINISH GRADE UNDER FACE OF RAIL.



MEASURE HEIGHT DETAIL AT GRADE BREAK (GB)

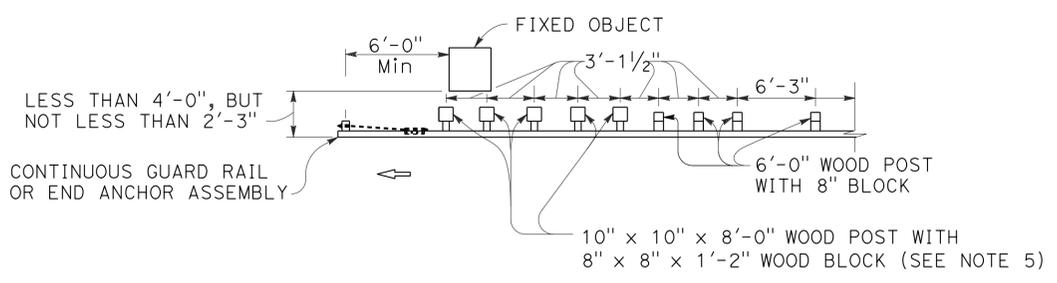
WHEN THERE IS A BREAK POINT IN FRONT OF GUARDRAIL MEASURE HEIGHT OF GUARD RAIL BASED ON DISTANCE FROM GRADE BREAK TO ADJUST FOR TRAJECTORY.

**CONSTRUCTION DETAILS
METAL BEAM GUARD RAILING
TYPICAL LINE POST
EMBEDMENT AND
HINGE POINT OFFSET DETAILS**

NO SCALE

C-10

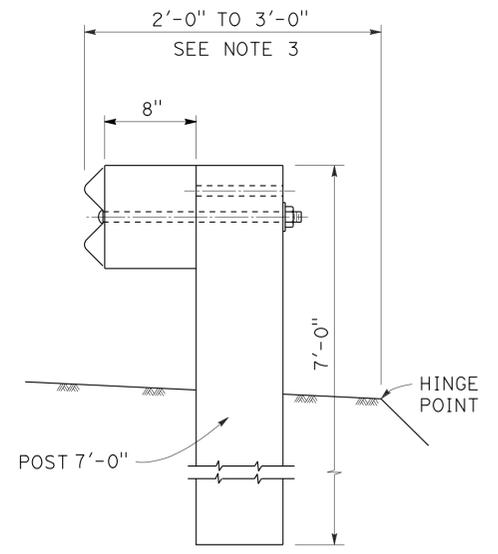
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN
 PROJECT: 11-02-4E410 - PLANS CONTRACT - PLANS ADDENDA 01-29-14 24e410ga010.dgn
 SUPERVISOR: JULIE CASEY
 DESIGNED BY: HEIDI BORDERS
 CHECKED BY: HEIDI BORDERS
 REVISIONS: 2



NOTE A: For a series of fixed objects (bridge columns, overhead sign supports, etc.) additional 10" x 10" x 8'-0" wood post with 8" x 8" x 1'-2" wood blocks at 3'-1/2" center to center spacing are to be used between fixed objects.

**STRENGTHENED RAILING SECTIONS
FOR FIXED OBJECT**

Use strengthened railing sections where minimum clearance between the face of the guard railing and fixed object(s) is less than 4'-0", but not less than 2'-3".



**DETAIL B
NARROW ROADWAY
INSTALLATION**

SEE NOTE 1

POST EMBEDMENT



REVISED PER ADDENDUM NO. 2 DATED JANUARY 31, 2014

USERNAME => s115152
 DGN FILE => 24e410ga010.dgn



UNIT 0318

PROJECT NUMBER & PHASE: 02-0002-0282-1

EA: 02-4E4101

LAST REVISION DATE PLOTTED => 31-JAN-2014
 11-06-13 TIME PLOTTED => 09:50

