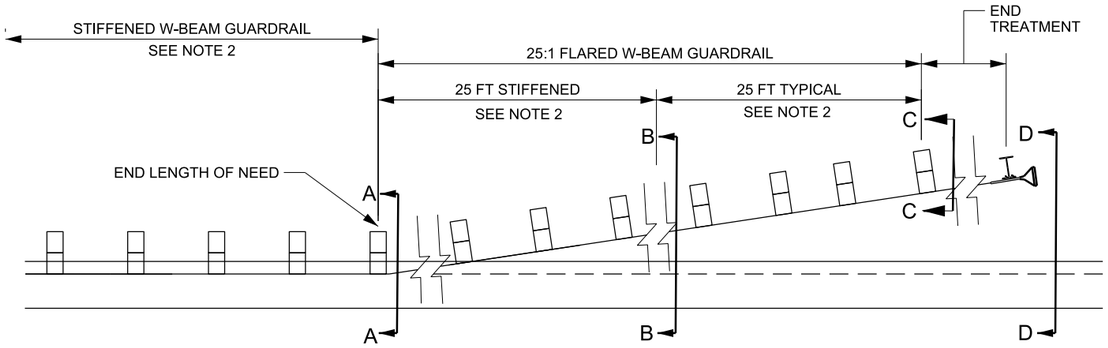
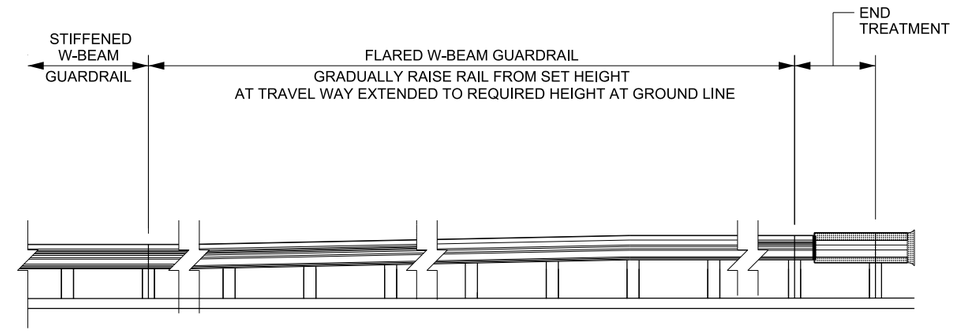


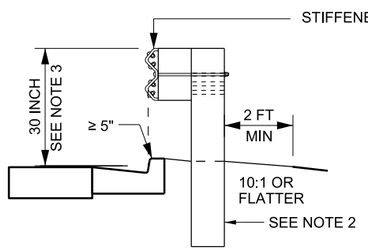
PLAN

SEE NOTE 1

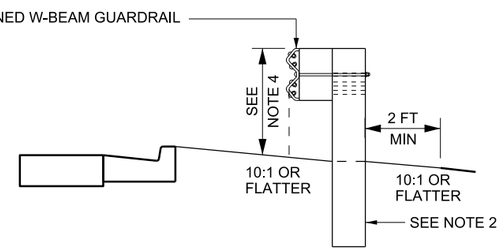


ELEVATION

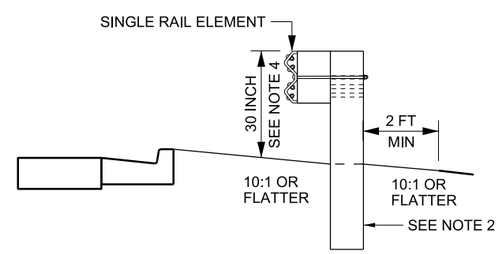
SEE NOTE 1



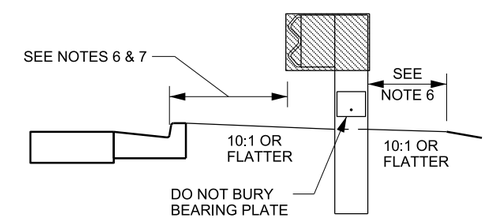
SECTION A-A



SECTION B-B



SECTION C-C

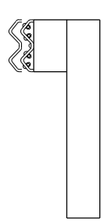


SECTION D-D

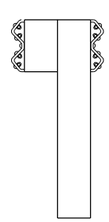
TYPE B1 CURB AND GUTTER SHOWN AS EXAMPLE
APPLIES TO ALL CURBS AND/OR CURB AND GUTTER TYPES

SEE NOTE 1

STIFFENING METHODS



NESTED W-BEAM



BACK SIDE RAIL
ATTACHMENT

NOTES:

1. USE STIFFENED W-BEAM GUARDRAIL WHEN DESIGN SPEED IS 50 MPH OR GREATER.
2. DRIVE GUARDRAIL POST TO THE DEPTH REQUIRED TO ATTACH BLOCK AND RAIL AT 30 INCHES USING THE TOP HOLE OF THE POST FOR COMPLETE GUARDRAIL RUN.
3. SET RAIL HEIGHT AT FACE OF CURB FROM TRAVEL WAY SURFACE EXTENDED, WHEN RAIL IS AT FACE OF CURB.
4. GRADUALLY RAISE RAIL ELEMENT OVER THE LENGTH OF FLARED BARRIER TO ATTACH END TREATMENT AT REQUIRED HEIGHT.
5. ADDITIONAL STIFFENING OF W-BEAM GUARDRAIL TRANSITION, STD DWG BA 4B2, NOT REQUIRED WHEN INSTALLED WITH CURB AND CURB AND GUTTER.
6. CONSTRUCT PAD ACCORDING TO APPLICABLE CC STD DWG.
7. OFFSET END TREATMENT ACCORDING TO APPLICABLE CC STD DWG.
   A. TYPE "G": PLACE ALONG 25:1 FLARE LINE.
   B. TYPE "H": PLACE WITH 4 FOOT OFFSET FROM 25:1 FLARE LINE.

W-BEAM GUARDRAIL & END TREATMENT INSTALLATION WITH CURB & GUTTER 5 INCH OR GREATER

SUPPLEMENTAL DRAWING

REVISIONS

NO.	DATE	APPR.	REMARKS
1	08/30/12	SDD	CORRECTED CURB DIMENSION IN SECTION A-A.

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
SALT LAKE CITY, UTAH

RECOMMENDED FOR APPROVAL — AUG.30.2012 DATE
CHAIRMAN STANDARDS COMMITTEE APPROVED — AUG.30.2012 DATE
DEPUTY DIRECTOR

W-BEAM GUARDRAIL
WITH CURB
AND GUTTER ≥ 5 INCH

STANDARD DRAWING TITLE

STD. DWG. NO.
BA 4E2

DGN File:L:\Standard_Drawings\Imperial\2012Approved_Supplemental_Issues\SupplApproved\BA04E2.dgn

12-SEP-2012