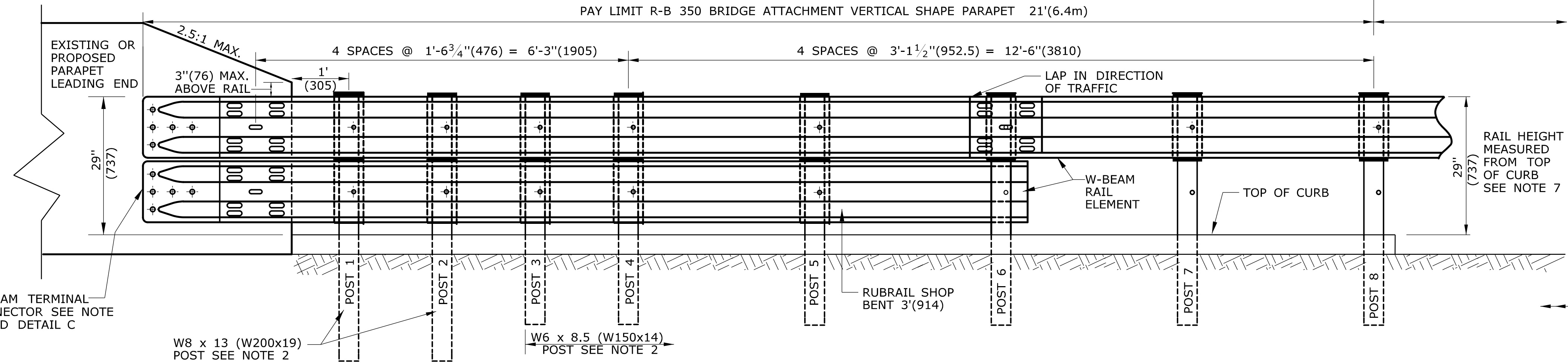
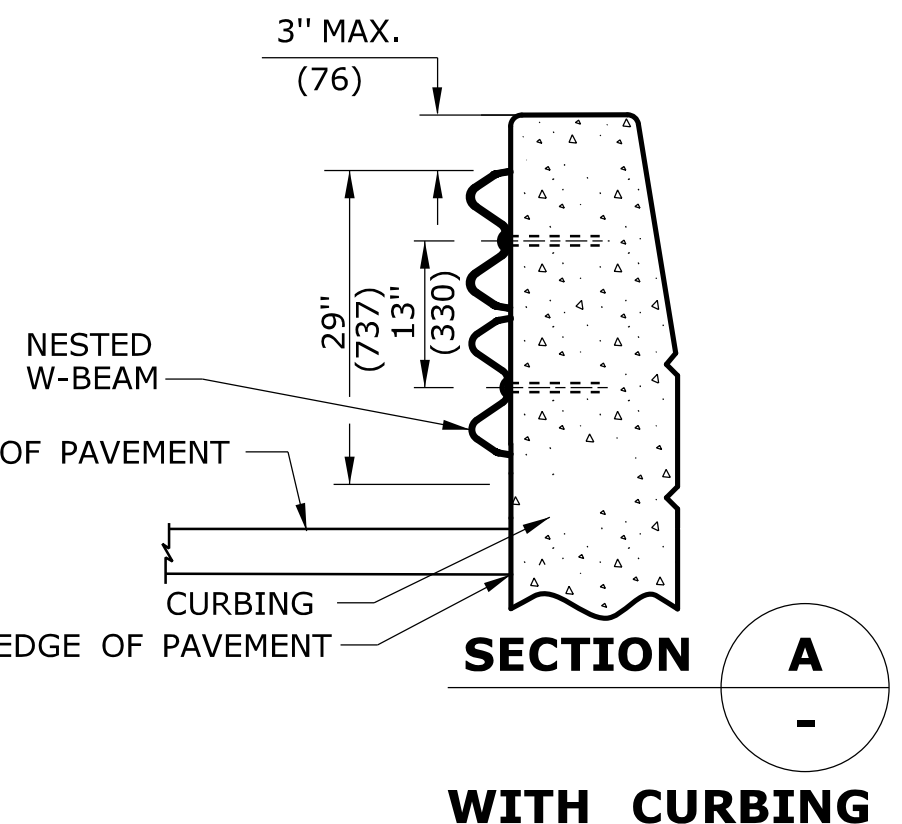


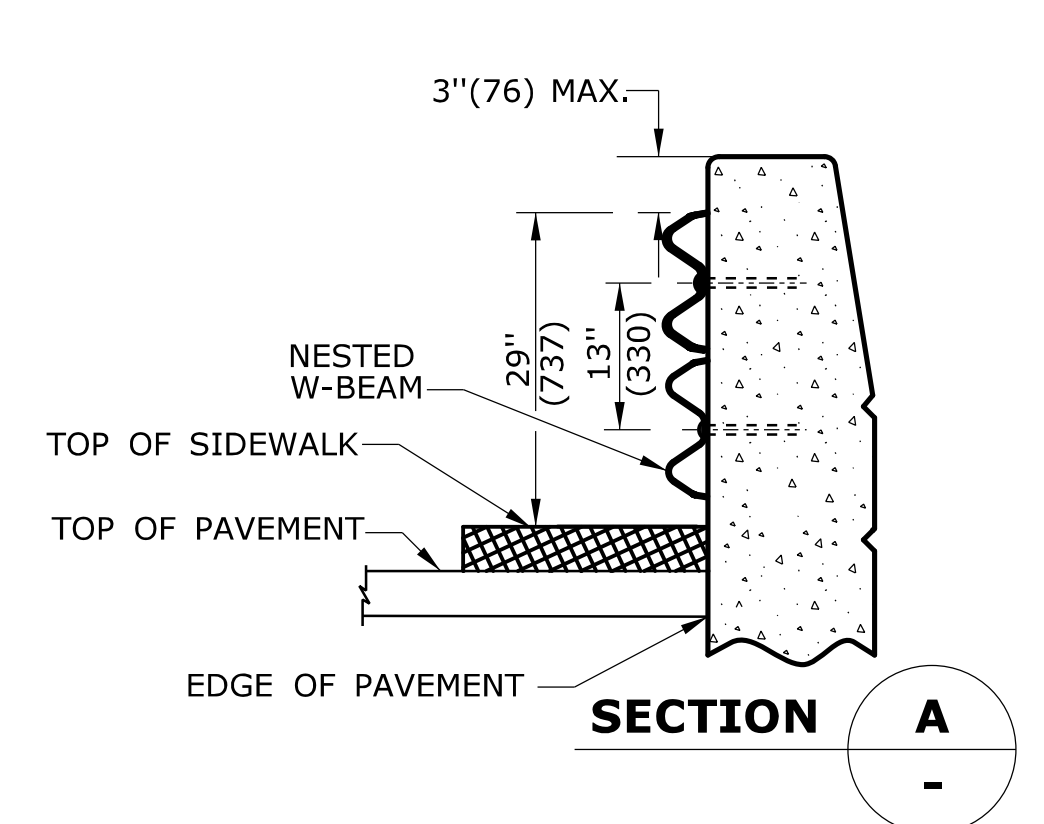
PLAN



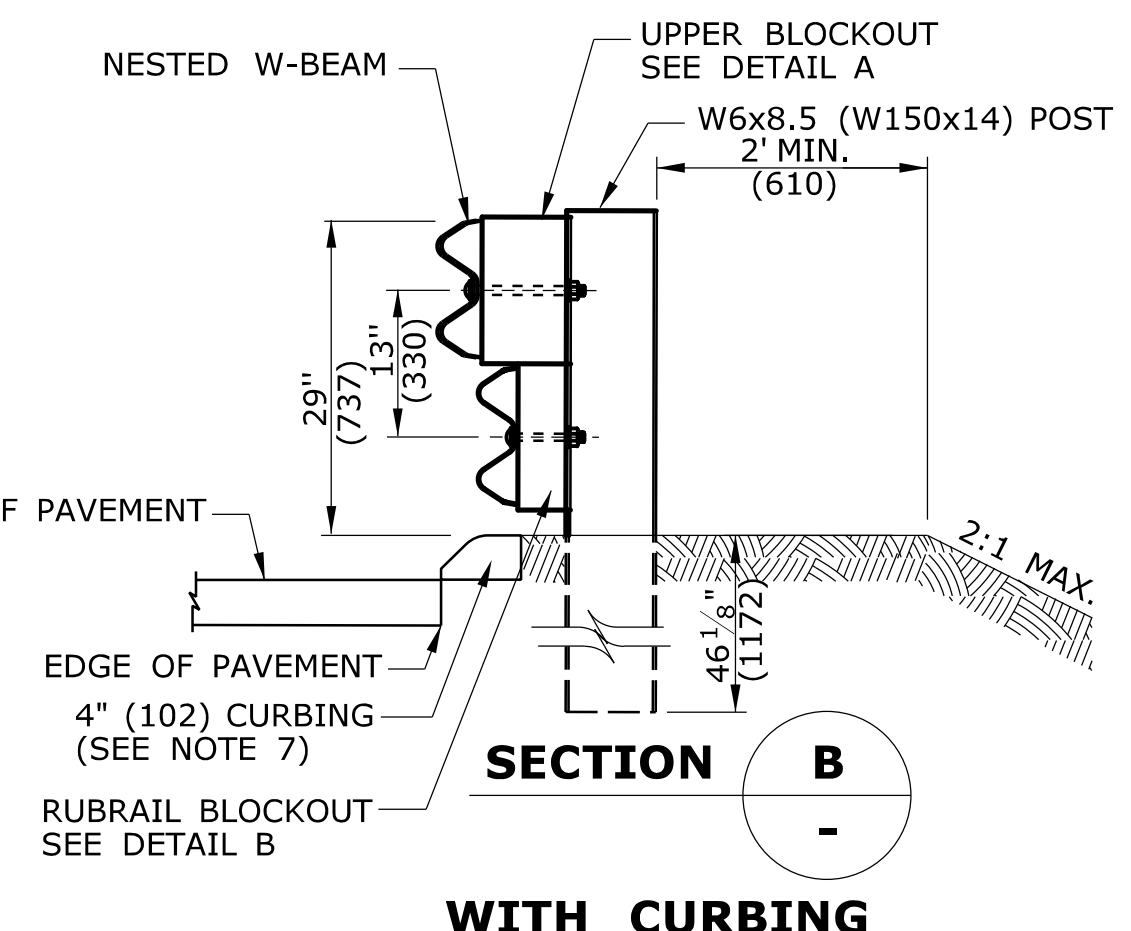
ELEVATION



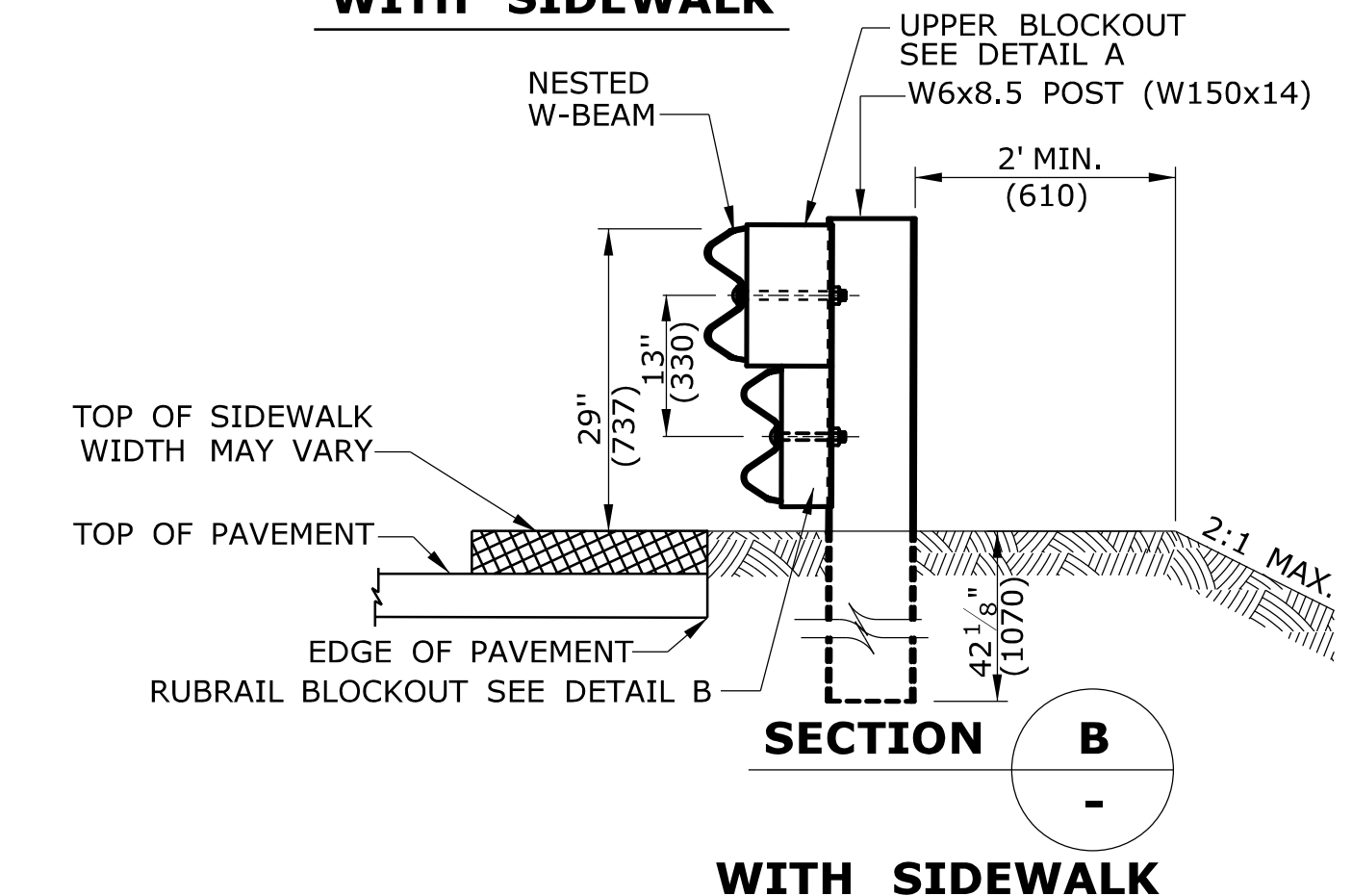
SECTION A WITH CURBING



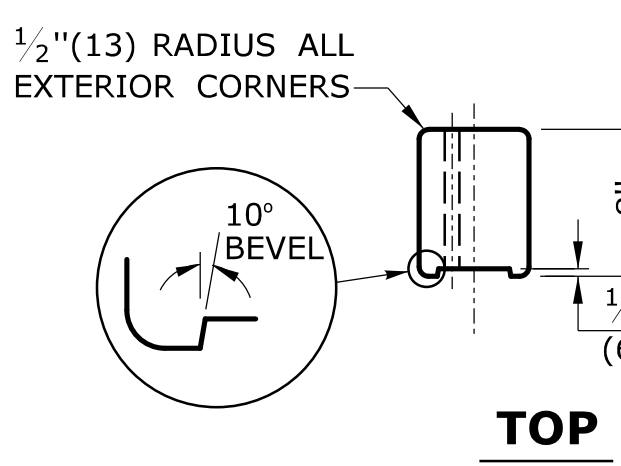
SECTION A WITH SIDEWALK



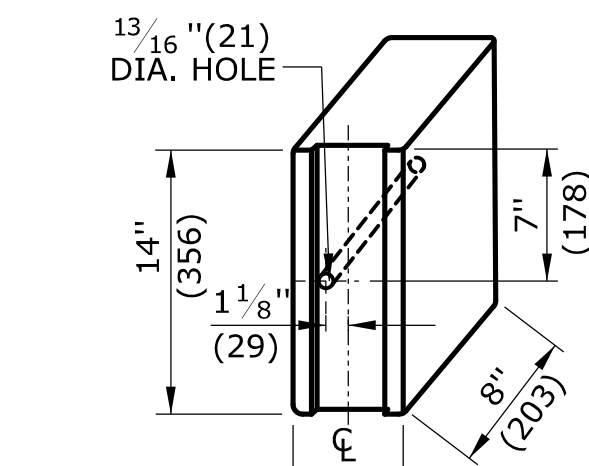
SECTION B WITH CURBING



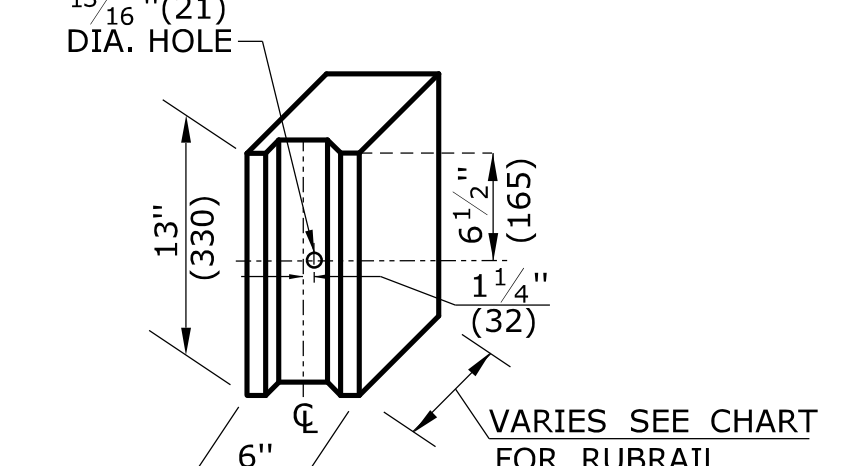
SECTION B WITH SIDEWALK



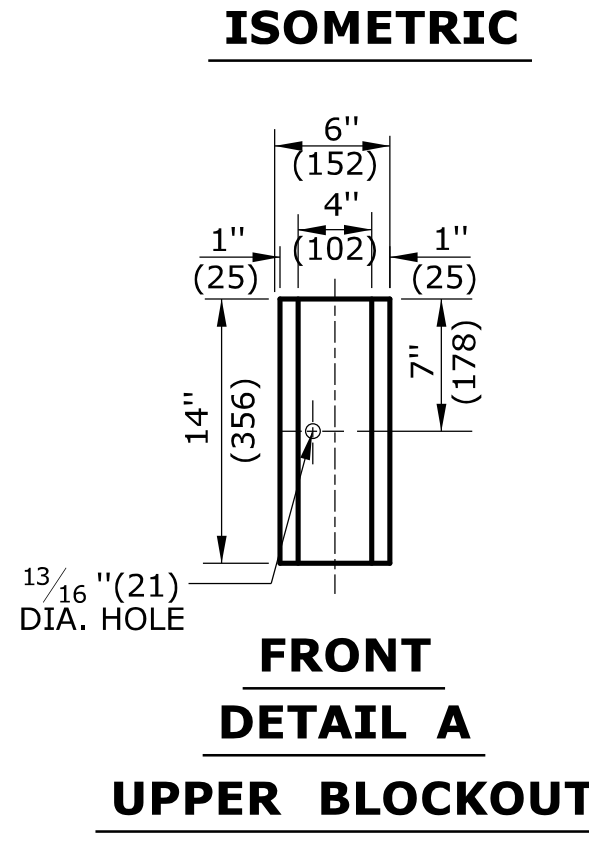
TOP



ISOMETRIC



DETAIL B RUBRAIL BLOCKOUT

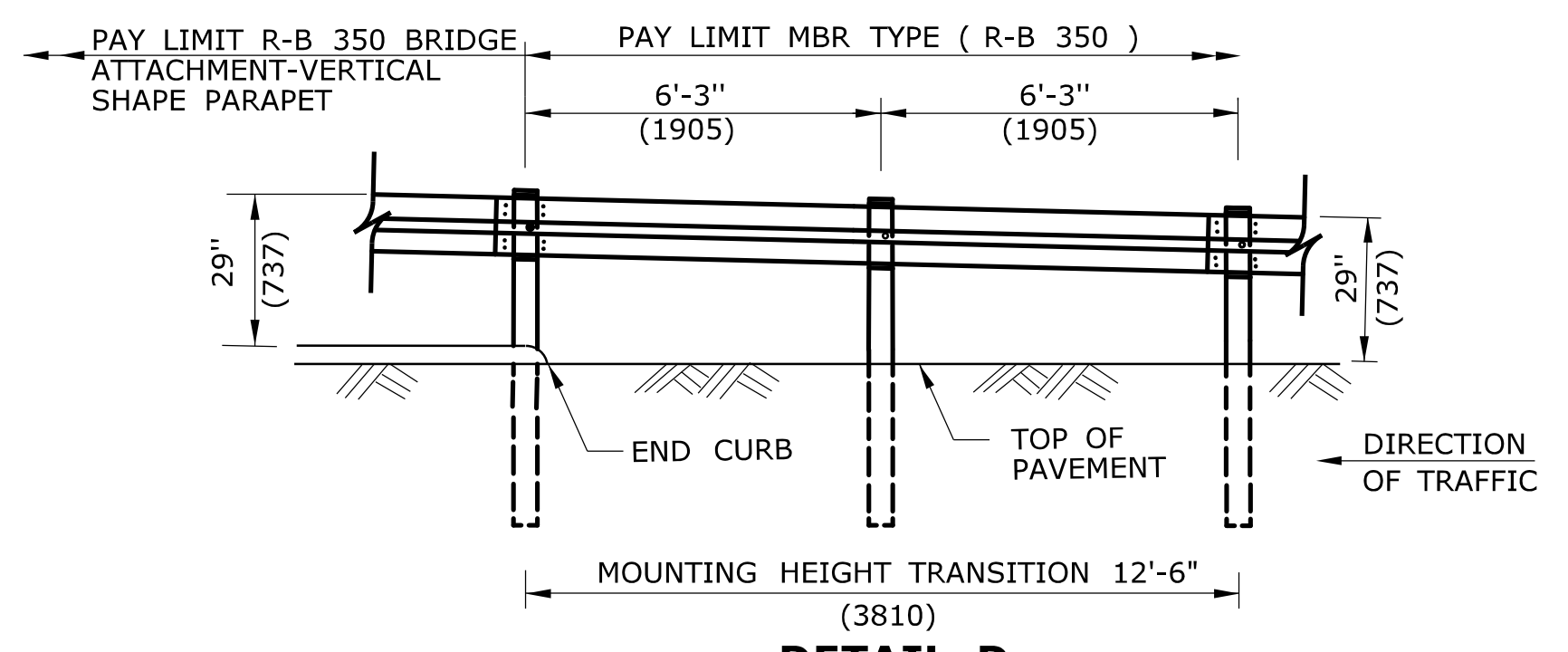


FRONT DETAIL A UPPER BLOCKOUT

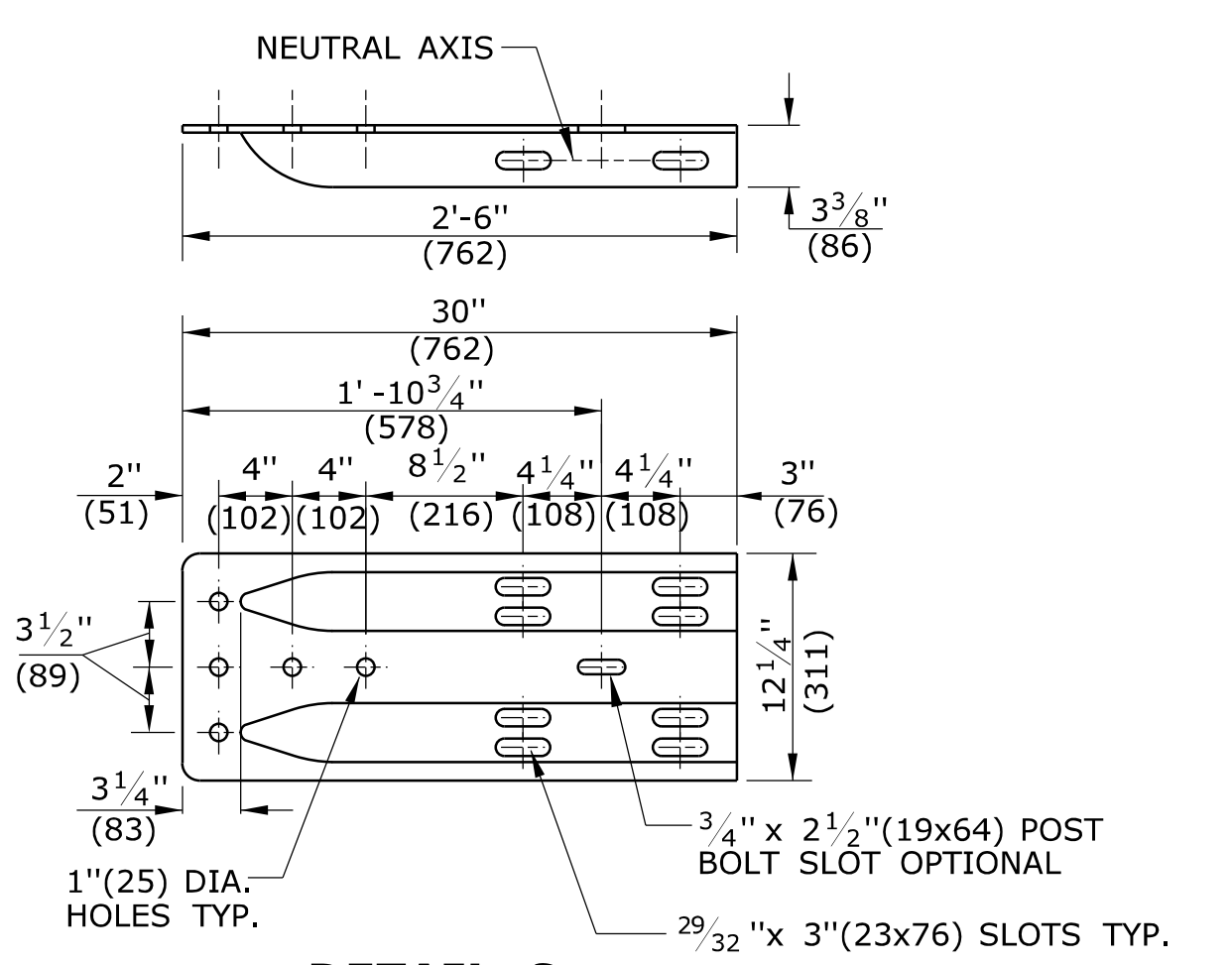
RUBRAIL BLOCKOUTS 13"(330)HIGH x 6"(152)WIDE		
POST	THICKNESS	BOLT LENGTH
①	7"(178)	9"(229)
②	6"(152)	8"(203)
③	4 1/2"(114)	6"(152)
④	3"(76)	5"(127)

GENERAL NOTES:

- THIS R-B 350 GUIDERAIL TRANSITION IS APPROPRIATE FOR CONNECTION AT THE FOLLOWING LOCATIONS:
 - WHEN ANY SAFETY SHAPE (F-SHAPED OR JERSEY SHAPE) PARAPET HAS AN ELECTRICAL JUNCTION BOX WITHIN 8' (2438) OF THE END OF THE PARAPET, THE END OF THE PARAPET SHALL BE MODIFIED OR TRANSFORMED TO A VERTICAL SHAPE PRIOR TO GUIDERAIL ATTACHMENT.
 - VERTICAL WALL OR ABUTMENT FACE.
 - VERTICAL CONCRETE PARAPET WITH SIDEWALK.
 - VERTICAL FACE FOR LEADING AND TRAILING ENDS ON DUAL DIRECTION ROADWAYS.
- POSTS 1 AND 2 ARE W8 x 13(W200x19), 7'-6" (2286) LONG. ALL OTHER POSTS IN TRANSITION ARE W6 x 8.5(W150x14), 6' (1829) LONG.
- POSTS 1 THROUGH 5 REQUIRE AN ADDITIONAL HOLE TO ATTACH LOWER BLOCKOUTS AND/OR LOWER RUBRAIL.
- RUBRAIL BLOCKOUTS FOR POSTS 1 THROUGH 4 ARE ATTACHED TO POST AND RAIL WITH A 5/8" (16) BUTTONHEAD BOLTS (SEE CHART FOR BOLT LENGTH). RUBRAIL ONLY IS ATTACHED TO POST 5 WITH A 5/8" x 1 1/4" (16 x 32) BUTTONHEAD BOLT.
- THE RUBRAIL MAY BE SHOP BENT IN THE LAST 3'(914) TO FACILITATE INSTALLATION. DO NOT ATTACH RUBRAIL TO BACK OF POST 6.
- USE CLASS B (10 GAUGE) TYPE II W-BEAM RAIL ELEMENTS FOR INSTALLATIONS ON EXPRESSWAYS AND RAMP.
- FOR THIS APPLICATION WHEN CURBING IS USED, R-B 350 RAIL HEIGHT MUST BE MEASURED FROM THE TOP OF CURBING TO THE TOP OF RAIL. SEE DETAIL D FOR HEIGHT TRANSITION.
- FOR NEW CONSTRUCTION WHERE CURBING IS NEEDED, USE EITHER 4" (102) BITUMINOUS CONCRETE PARK CURBING OR PRECAST CONCRETE TRANSITION CURBING SET WITH A 4" (102) REVEAL. THE PREFERRED CURBING FOR HIGH SPEED ROADWAYS (>45 MPH (72kph)) IS 4" (102). HOWEVER, ON LOW SPEED ROADWAYS (<45 MPH (72kph)) A 6" (152) CURBING MAY BE USED. ADJUST RAIL HEIGHT AS REQUIRED.
- ANCHORAGE:
 - AT EXISTING PARAPETS EACH W-BEAM TERMINAL CONNECTOR SHALL BE ANCHORED USING FOUR 7/8" x 12" (22 x 305) CHEMICALLY ANCHORED BOLTS WITH WASHERS. MAXIMUM PROJECTION OF BOLTS SHALL BE 1/2" (13). THE 12" (305) MINIMUM LENGTH OF BOLTS SHALL INCLUDE A MINIMUM EMBEDMENT DEPTH OF 10" (254) INTO SUITABLY REINFORCED CONCRETE.
 - ADDITIONAL BLOCKOUTS WITH POSTS 1 THROUGH 6 SHOULD BE AVOIDED.
 - FOR SINGLE DIRECTION ROADWAY:
 - INSTALL W-BEAM TERMINAL CONNECTOR BETWEEN NESTED GUIDERAIL ELEMENTS.
 - FOR DUAL DIRECTION ROADWAY FOR APPROACHING TRAFFIC:
 - INSTALL W-BEAM TERMINAL CONNECTOR BETWEEN NESTED GUIDERAIL ELEMENTS.
 - FOR TRAILING END:
 - INSTALL W-BEAM TERMINAL CONNECTOR OUTSIDE OF THE NESTED GUIDERAIL ELEMENTS.
 - MINIMUM RAIL HEIGHT FOR NEW CONSTRUCTION SHALL BE 29" (737) ± 1" (25).



DETAIL D HEIGHT TRANSITION



DETAIL C W-BEAM TERMINAL CONNECTOR CLASS B TYPE II

SEE NOTE 11
ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.

REV.	DATE	REVISION DESCRIPTION
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NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Plotted Date: 9/30/2010

Filename: CTDOT_HIGHWAY STD.dgn Model: 42 - HW-910_07

SUBMITTED BY: _____ NAME/DATE/TIME: _____

APPROVED BY: _____ NAME/DATE/TIME: _____

CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET

STANDARD SHEET NO.:
HW-910_07