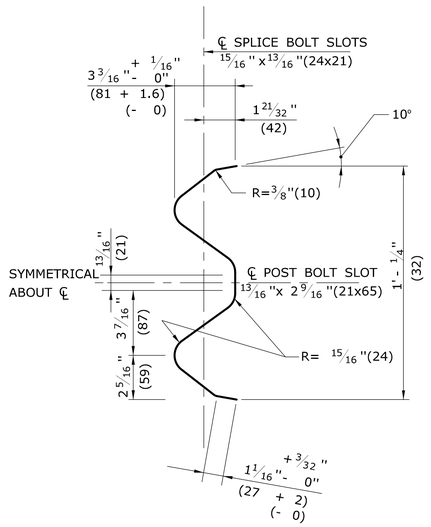
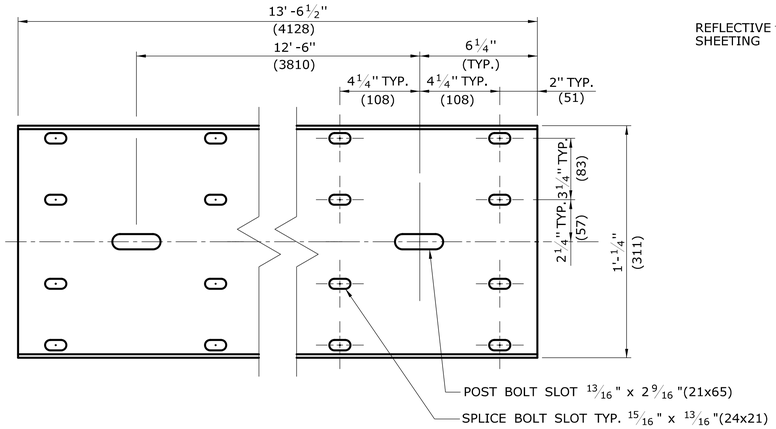
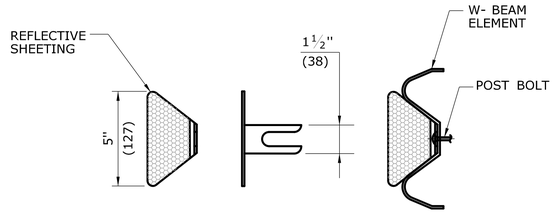


SELECTION THRU RAIL ELEMENT
END VIEW

NOTE: ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES



TYPICAL W-BEAM RAIL ELEMENT
CLASS A, TYPE II



DELINEATOR DETAIL

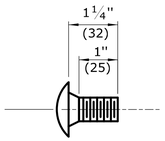
GENERAL NOTES:

1. NEW R-B 350 GUIDERAIL INCLUDING SYSTEMS, ANCHORS AND TRANSITIONS INSTALLED ON EXPRESSWAYS AND RAMPS SHALL USE CLASS B TYPE II (10 GAUGE) W-BEAM RAIL ELEMENTS.
2. THE BOTTOM OF WEATHERING STEEL POSTS, WHEN SPECIFIED, SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-123 TO PROVIDE A 2"(51) EXPOSED GALVANIZED COATING ABOVE THE GROUND.
3. WHEN WEATHERING STEEL ELEMENTS AND POSTS ARE SPECIFIED ALL HARDWARE SHALL BE GALVANIZED.
4. W6x9 (W150x14) POSTS MAY BE USED IN PLACE OF W6 x 8.5(W150x13) POSTS.
5. W8x13 (W200x19) POSTS, 7'-6"(2286) LONG, ARE USED WITH TRANSITIONS TO VERTICAL OR SAFETY SHAPE PARAPETS (POSTS 1 AND 2) AND SYSTEM 6.
6. W6x8.5 (W150x13) POSTS, 6'-0"(1829) LONG, ARE USED WITH TRANSITIONS TO VERTICAL OR SAFETY SHAPE PARAPETS (POSTS 3 THOUGH 6), MD-B 350, SYSTEM 5 & 5A, AND STANDARD R-B 350 GUIDERAIL.

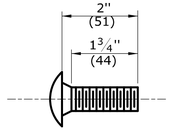
DELINEATOR NOTES:

1. DELINEATORS SHALL BE FORMED OF .080 POLY-CARBONATE OR .080 SHEET ALUMINUM IN ACCORDANCE WITH M.18.13.
2. REFLECTIVE SHEETING SHALL CONFORM TO M.18.09.2.
3. DELINEATORS SHALL BE INSTALLED ON THE POST CLOSEST TO THE DESIGNATED SPACING.
4. REFLECTIVE SHEETING SHALL BE WHITE EXCEPT ON THE LEFT SIDE OF DIVIDED STREETS, HIGHWAYS, RAMPS, AND ONE WAY ROADS IN THE DIRECTION OF TRAVEL WHERE IT SHALL BE YELLOW.
5. INSTALL DELINEATORS ON RAIL THAT IS PARALLEL TO AND NOT GREATER THAN 6'(1829) FROM THE EDGE OF THE ROADWAY. A MINIMUM OF THREE DELINEATORS MUST BE INSTALLED ON ANY RUN OF RAIL.

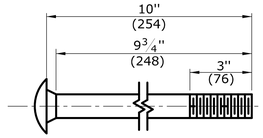
DELINEATOR SPACING:
RADIUS ≥ 300'(91440) - SPACE EVERY 50'(15.24m)
RADIUS < 300'(91440) - SPACE EVERY 25'(7.62m)



W-BEAM SPLICE
BOLT DETAIL

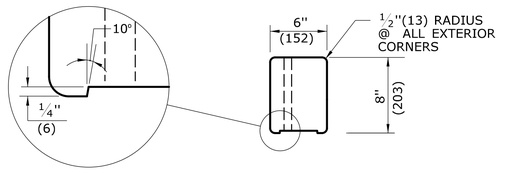


POST BOLT DETAIL
FOR R-B 350
SYSTEM 6 RUBRAIL

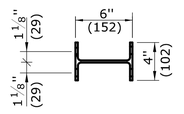


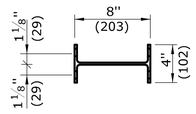
POST BOLT DETAIL FOR R-B 350
AND MD-B 350 GUIDERAIL

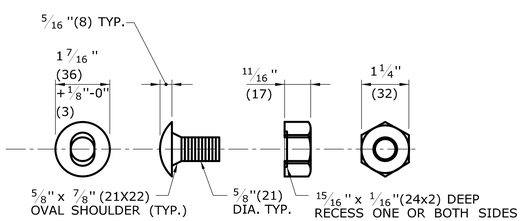
(UNTHREADED PORTION NOT TO EXCEED 6 3/4"(171))



PLAN

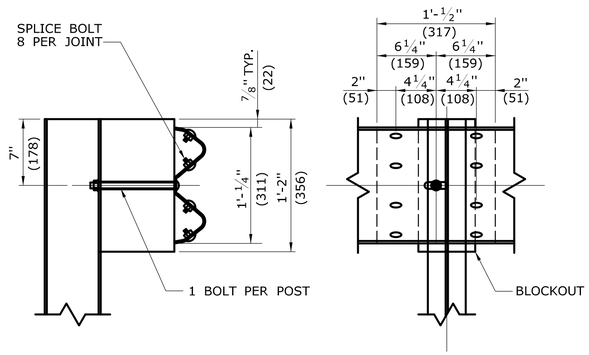






BUTTONHEAD BOLT **HEX NUT**

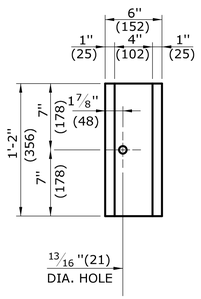
NOTE: AFTER GALVANIZING, THE NUT SHALL BE FREE RUNNING ON THE BOLT. DIAMETER SHOWN IS TYPICAL FOR ALL GUIDERAIL BOLTS. SEE DETAILS ABOVE FOR SPECIFIC LENGTHS.



SECTION **ELEVATION**

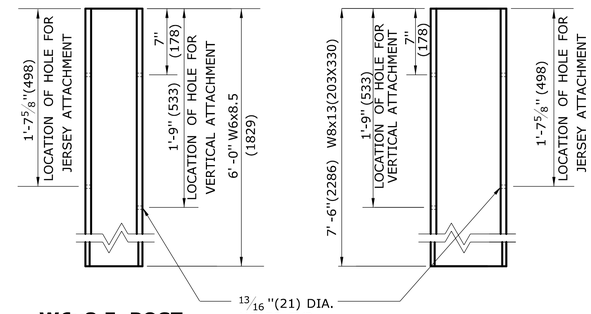
LAP DETAIL

NOTE:
LAP RAIL SECTION IN DIRECTION OF TRAFFIC



ELEVATION

R-B 350 PLASTIC
BLOCKOUT DETAIL



W6x8.5 POST (W150x13) 6'-0"(1829) LONG

W8x13 POST (W200x19) 7'-6"(2286) LONG

BOLT HOLE LAYOUT FOR W8x13(W200x19)
AND W6x8.5 (W150x13)UNIFORM POST

(REFER TO GENERAL NOTES)

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

REV.	DATE	REVISION DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 9/30/2010

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_HIGHWAY_STD.dgn Model: 36 - HW-910_01

SUBMITTED BY: NAME/DATE/TIME:
Digitally signed by Leo Fontaine
DN: c=US, st=Connecticut, l=Newington, ou=Department of Transportation, email=Leo.Fontaine@ct.gov, o=State of Connecticut, cn=Leo Fontaine
Date: 2010.10.16 14:54:13 -04'00'

APPROVED BY: NAME/DATE/TIME:
James H. Norman
Digitally signed by James H. Norman
DN: c=US, st=CT, l=Newington, ou=Department of Transportation, email=James.Norman@ct.gov, o=State of Connecticut, cn=James H. Norman
Date: 2010.10.18 08:38:46 -04'00'

CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
W-BEAM METAL
BEAM RAIL HARDWARE

STANDARD SHEET NO.:
HW-910_01