

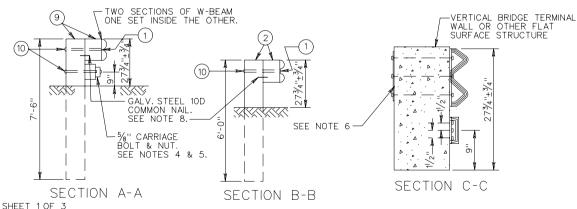
1. FIXED OBJECTS MAY CONSIST OF BRIDGE RAILS, ABUTMENTS, PIERS, RETAINING WALLS, OR OTHER FLAT SURFACED STRUCTURES WITH VERTICAL FACE.

NOTES:

2. BRIDGE RAIL ENDS AND BRIDGE PARAPETS MUST BE OF ADEQUATE STRENGHT TO ACCEPT FULL IMPACT LOADING.

- 3. GUARDRAIL COMPONENTS SHALL BE IN ACCORDANCE WITH VDOT ROAD AND BRIDGE STANDARDS.
- 4. POSTS 1, 2, 3, 4, AND 5 REQUIRE AN ADD-ITIONAL HOLE TO ATTACH BLOCKS AND/OR RUBRAIL RUBRAIL IS NOT BOLTED TO POSTS 2 ANS 4.
- 5. BOTTOM WOOD BLOCKS LOCATED ON POSTS 1 THROUGH 4 ARE CENTER DRILLED AND SECURED WITH 5%" CARRIAGE BOLTS. (LENGTH AS REQUIRED).
- 6. APPROPRIATE LENGTH $\frac{7}{8}$ " DIAMETER ASTM A325 HEX BOLTS WITH WASHERS MUST BE USED WITH THRU DRILLED HOLES WITH A 5%" BEARING PLATE ON THE BACK SIDE OF THE BRIDGE PARAPET OR TERMINAL WALL.
- 7. DRIVE NAIL WITHIN 2" OF THE TOP OR BOTTOM OF THE BLOCKOUT AFTER 3/8" X 18 BOLT IS INSTALLED.
- 8. SEE SHEET 3 OF 3 FOR RUBRAIL BLOCKOUT DETAILS.

NEW BRIDGES - ATTACHMENTS ONE WAY TRAFFIC - RUN-ON, 2-GR-FOA-1, TYPE I - RUN-OFF, 2-GR-FOA-1, TYPE II TWO WAY TRAFFIC - RUN-ON, 4-GR-FOA-1, TYPE I EXISTING BRIDGE ATTACHMENTS AS SHOWN ON PLANS.



ITEM	MATERIAL/SPECIFICATIONS/NOTES
1	5%" X 18" LONG. GUARDRAIL BOLT AND RECESSED NUT
2	STANDARD 6" x 8" WOOD POST AND BLOCK
3	STANDARD W-BEAM TERMINAL CONNECTOR
4	STANDARD W-BEAM RAIL
5	%" X 2" LONG GUARDRAIL BOLT & RECESSED NUT (SEE ST'D.GR-HDW)
6	RECTANGULAR PLATE WASHER (SEE ST'D.GR-HDW)
7	BENT PLATE RUBRAIL (SEE SHEET 3 OF 3)
8	C6 X 8.2 RUBRAIL (SEE SHEET 3 OF 3)
9	8" X 8" X 7'-6" LONG WOOD POST & 8" X 8" X 14" LONG TREATED PINE BLOCK OR RECYCLED MATERIAL
10	WASHER FOR 5/8" BOLT

REV. 9/06

W-BEAM GUARDRAIL - FIXED OBJECT ATTACHMENT FOR USE BETWEEN VERTICAL FIXED OBJECTS AND GUARDRAIL (WOOD POSTS) **SPECIFICATION** REFERENCE

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VIRGINIA DEPARTMENT OF TRANSPORTATION 501.25