

SURVEYED BY _____
SUPERVISED BY _____
DESIGNED BY _____

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	FEDERAL AID		STATE		SHEET NO.
		PROJECT	ROUTE	PROJECT		
	VA					

GR-FOA-4

NOTE:
RUBRAIL MUST BE TWISTED 35° BETWEEN SECTIONS C-C AND D-D. SHOP FABRICATION MAY BE REQUIRED. RIGHT AND LEFT HAND TWISTS WILL BE REQUIRED.

NOTES:
1. ARE GUARDRAIL POSTS ARE TO BE STEEL.
2. ALL GUARDRAIL COMPONENTS ARE TO BE IN ACCORDANCE WITH VDOT ROAD AND BRIDGE STANDARDS.
3. POSTS 1, 2, 3, 4 AND 5 REQUIRE AN ADDITIONAL HOLE TO ATTACH LOWER BLOCKS AND/OR RUBRAIL. RUBRAIL IS NOT BOLTED TO POSTS 2 AND 4.
4. BOTTOM WOOD BLOCKS LOCATED ON POSTS 1 THROUGH 4 ARE TO BE DRILLED AND SECURED WITH 5/8" CARRIAGE BOLTS (LENGTH AS REQUIRED)
5. W-BEAM IS NOT BOLTED TO POSTS 2, 4, 5 AND 7. THESE BLOCKS ARE TO BE BOLTED DIRECTLY TO POSTS.
6. APPROPRIATE LENGTH 7/8" ASTM A325 HEX BOLTS ARE TO BE USED WITH HOLES DRILLED THROUGH THE CONCRETE MEDIAN BARRIER, ATTACHING THE W-BEAM TERMINAL CONNECTORS ON EACH SIDE.

ITEM	MATERIALS/SPECIFICATIONS/NOTES	ITEM	MATERIALS/SPECIFICATIONS/NOTES
1	5/8" WASHER	6	RECTANGULAR PLATE WASHER (SEE STANDARD GR-HDW)
2	ST'D. W6 X 8.5 OR W6 X 9 STEEL POSTS, ST'D. 6" X 8" X 14" LONG TREATED PINE BLOCK OR RE-CYCLED MATERIAL.	7	BENT PLATE (SEE SHEET 2 OF 2)
3	ST'D. W-BEAM TERMINAL CONN. (MOD.)	8	C6 x 8.2 RUBRAIL (SEE SHEET 2 OF 2)
4	STANDARD W-BEAM RAIL	9	WOOD BLOCKOUT FOR RUBRAIL (SEE SHEET 2 OF 2)
5	5/8" X 2" LG. GUARDRAIL BOLT AND RECESSED NUT	10	5/8" X 10" LONG HEX BOLT WITH NUT

RUBRAIL WOOD BLOCKS 7" x 4"

POST THICKNESS	
1	4 1/4"
2	3 1/4"
3	2"
4	1"

SECTION A-A (ONE RAIL OMITTED)
SECTION B-B (ONE RAIL OMITTED)
SECTION C-C (W-BEAM OMITTED)
SECTION D-D

TYPE I TWO RUN-ON SECTIONS (WITH 2 RUBRAILS SHOWN)
TYPE II ONE RUN-ON SECTION WITH 1 RUBRAIL RETAINED)
ONE RUN-OFF SECTION (WITH 1 RUBRAIL REMOVED)
TYPE III TWO RUN-OFF SECTIONS (WITH 2 RUBRAILS REMOVED)

SHEET 1 OF 2
SPECIFICATION REFERENCE
505

BLOCKED-OUT W-BEAM MEDIAN BARRIER-FIXED OBJECT ATTACHMENT
FOR USE BETWEEN STANDARD MB-7 AND STANDARD MB-3
VIRGINIA DEPARTMENT OF TRANSPORTATION

REV. 9/06
501.31

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
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