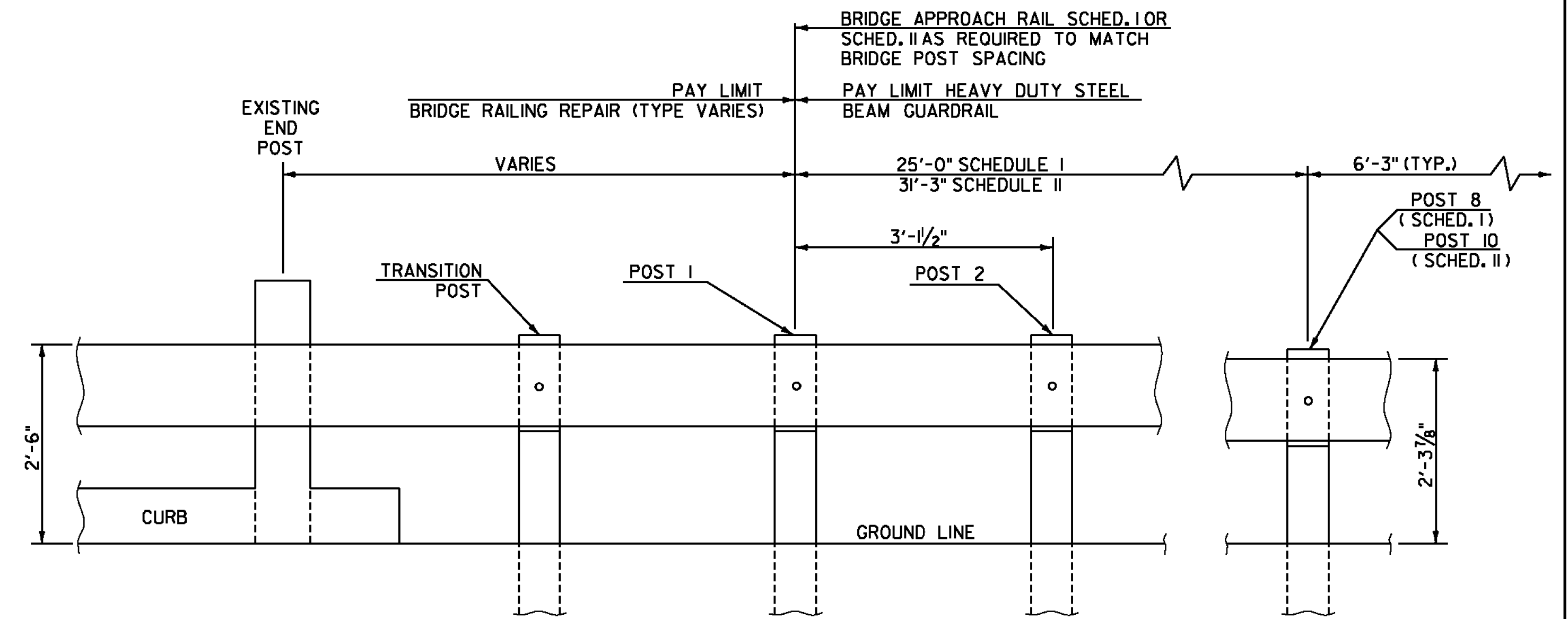


BRIDGE RAIL QUANTITY SHEET

STATION	POS.	BRIDGE NUMBER	OFFSET BLOCK	525.10 REMOVAL OF EXISTING BRIDGE RAILING (LF)	525.50 BRIDGE RAILING REPAIR, TYPE I (LF)	525.55 BRIDGE RAILING REPAIR, TYPE II (LF)	580.20 RAPID SETTING CONC. REPAIR MAT'L W/COARSE AGG. (CF)	REMARKS
LOCATION:								
BRAINTREE								
147+00.4 - 147+25.4	LT	5	8"	25.0	25.0			
147+02.9 - 147+27.9	RT	5	8"	25.0	25.0			
231+98.2 - 232+23.2	RT	8	8"	25.0		25.0	16.0	
232+06.5 - 232+31.5	LT	8	8"	25.0		25.0		
284+97.6 - 285+22.6	LT	9	8"	25.0		25.0	16.0	
284+91.0 - 285+16.0	RT	9	8"	25.0		25.0		
292+14.5 - 292+39.5	LT	10	8"	25.0		25.0	16.0	
292+15.8 - 292+40.8	RT	10	8"	25.0		25.0		
328+43.4 - 328+68.4	RT	11	8"	25.0		25.0	16.0	
328+61.6 - 328+86.6	LT	11	8"	25.0		25.0		
GRANVILLE								
22+92.5 - 23+17.5	RT	12	8"	25.0		25.0	16.0	
22+98.0 - 23+23.0	LT	12	8"	25.0		25.0		
66+94.1 - 67+19.1	RT	14	8"	25.0	25.0 TYPE I		16.0	
67+02.2 - 67+27.2	LT	14	8"	25.0	25.0 TYPE III			
SUBTOTALS				350	50.0 TYPE I	250.0	96.0	
ROUNDING				-	100.0	-	4.0	
TOTAL				350	50.0 TYPE I	250.0	100.0	
					50.0 TYPE III			



SCHEDULE I		
POST NO.	SPACING	PAYMENT FACTOR
1	3'-1/2"	1.4 x 12'-6"
2	3'-1/2"	
3	3'-1/2"	
4	3'-1/2"	
5	4'-2"	1.2 x 12'-6"
6	4'-2"	
7	4'-2"	
8	4'-2"	
9	6'-3" (TYP.)	1.0 (TYP.)
TOTAL PAY LENGTH = 32' - 6"		

SCHEDULE II		
POST NO.	SPACING	PAYMENT FACTOR
1	3'-1/2"	1.4 x 18'-9"
2	3'-1/2"	
3	3'-1/2"	
4	3'-1/2"	
5	3'-1/2"	1.2 x 12'-6"
6	3'-1/2"	
7	4'-2"	
8	4'-2"	
9	4'-2"	1.0 (TYP.)
10	6'-3" (TYP.)	
11	6'-3" (TYP.)	
TOTAL PAY LENGTH = 41' - 3"		

SCHEDULE I APPROACH RAILING SHALL BE USED WHEN A RAIL PANEL SPLICE OCCURS AT POST NO. 1. SCHEDULE II APPROACH RAILING SHALL BE USED WHEN A RAIL PANEL SPLICE OCCURS AT THE BRIDGE END POST.

GENERAL NOTES

- SEE VAOT STANDARDS G-1, G-1d AND STRUCTURES DETAIL SD-516.10 FOR ADDITIONAL DETAILS.
- BRIDGE RAIL SHALL BE HEAVY DUTY STEEL BEAM GUARDRAIL, GALVANIZED.
- BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
- APPROACH RAILING SHALL BE HEAVY DUTY STEEL BEAM GUARDRAIL, GALVANIZED FOR 25' FROM THE ENDS OF THE BRIDGE UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE ENGINEER.
- FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS PRACTICABLE TO THE MIDPOINT BETWEEN THE BRIDGE END POST AND APPROACH RAIL POST 1.
- SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
- SEE STANDARD SHEET G-1 FOR CONNECTION OF STEEL BEAM TO OFFSET BLOCK AND OFFSET BLOCK TO BRIDGE POST.
- SEE STANDARD SHEET G-1 FOR DELINEATION DETAILS AND PLACEMENT.
- ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 31'-3" APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.
- ALL HEAVY DUTY STEEL BEAM BRIDGE RAIL, OFFSET BLOCKS AND RELATED HARDWARE SHALL BE PAID FOR UNDER THE APPROPRIATE BRIDGE RAILING ITEMS AS DENOTED IN THE PLANS.
- ALL STEEL POSTS, PLATES, OFFSET BLOCKS AND FIXTURES SHALL BE PROVIDED IN ACCORDANCE WITH SUBSECTION 732.04, UNLESS OTHERWISE NOTED, AND SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SUBSECTION 726.08.
- ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10.
- SEE FOLLOWING BRIDGE DETAIL SHEETS FOR BRIDGE REPAIR ITEM DESCRIPTIONS.

BRIDGE APPROACH RAILING

PROJECT NAME: RANDOLPH-ROXBURY
PROJECT NUMBER: ER STP 0187(II)

FILE NAME: z13cl82frm.dgn
PROJECT LEADER: M. FOISY
DESIGNED BY: I. MAYNARD
GUARDRAIL DETAIL SHEET 2

PLOT DATE: 11/17/2014
DRAWN BY: I. MAYNARD
CHECKED BY: M. FOISY
SHEET 12 OF 545

