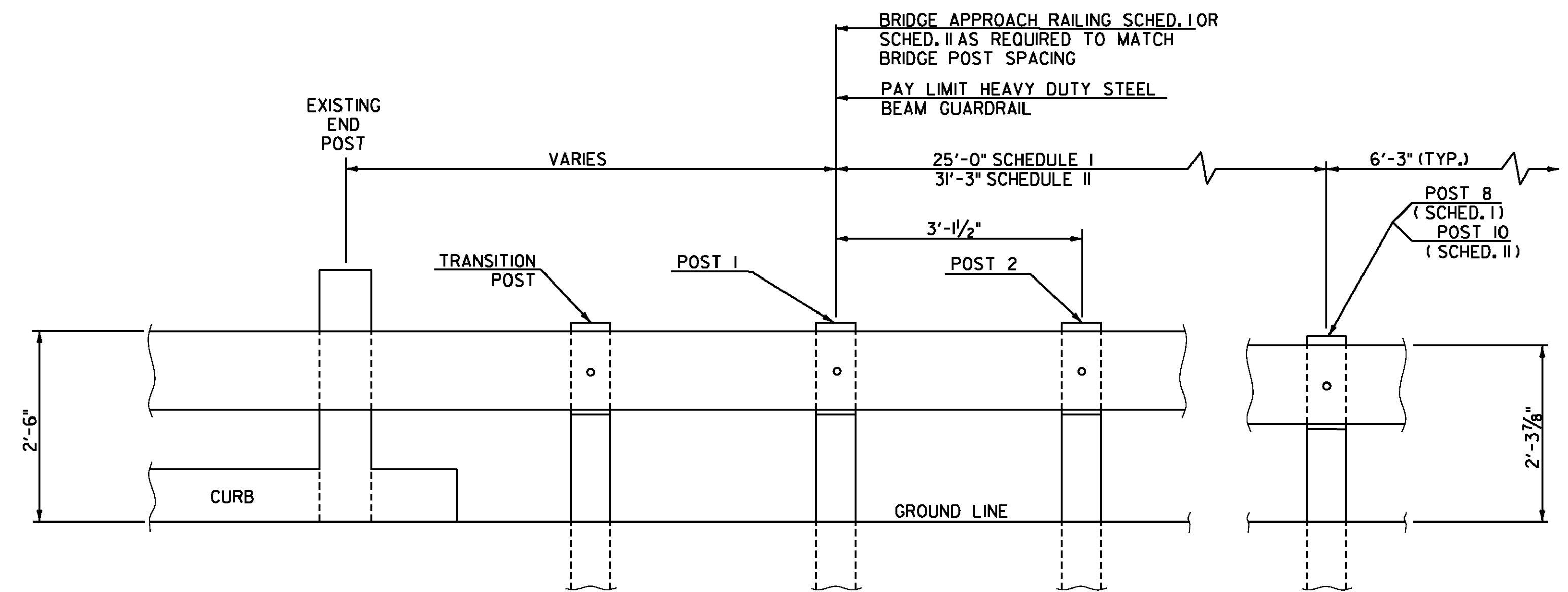


BRIDGE QUANTITY SHEET

STATION	POS.	BRIDGE NUMBER	OFFSET BLOCK	525.10 (LF)	REMARKS
LOCATION: ESSEX					
42+42.5 TO 42+67.5	LT	2	8"	12.5	REMOVE EXISTING BRIDGE RAIL, SEE SHEET II FOR PROPOSED GUARDRAIL TREATMENT.
42+42.5 TO 42+67.5	RT	2	8"	12.5	REMOVE EXISTING BRIDGE RAIL, SEE SHEET II FOR PROPOSED GUARDRAIL TREATMENT.
54+43.5 TO 55+31.0	LT	3	8"		RETAIN EXISTING BRIDGE RAIL
54+43.5 TO 55+31.0	RT	3	8"		RETAIN EXISTING BRIDGE RAIL
SUBTOTALS				25	
ROUNDING				-	
TOTAL				25	



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"	1.0 (TYP.)
9	6'-3" (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"	
6	3'-1/2"	1.2 x 12'-6"
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 AND G-1d FOR ADDITIONAL DETAILS.
- BRIDGE APPROACH RAILING HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY GUARDRAIL 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 RAILING 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 RAILING, 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.

BRIDGE APPROACH RAILING

NOT TO SCALE

BRIDGE DETAIL SHEET #1	PROJECT NAME: ESSEX-WESTFORD
	PROJECT NUMBER: STP 2912(I)
FILE NAME: p10c226.dgn	PLOT DATE: 2/20/2013
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: STANTEC
IPARM FILE: p10c226bds01.i	SHEET 15 OF 239

