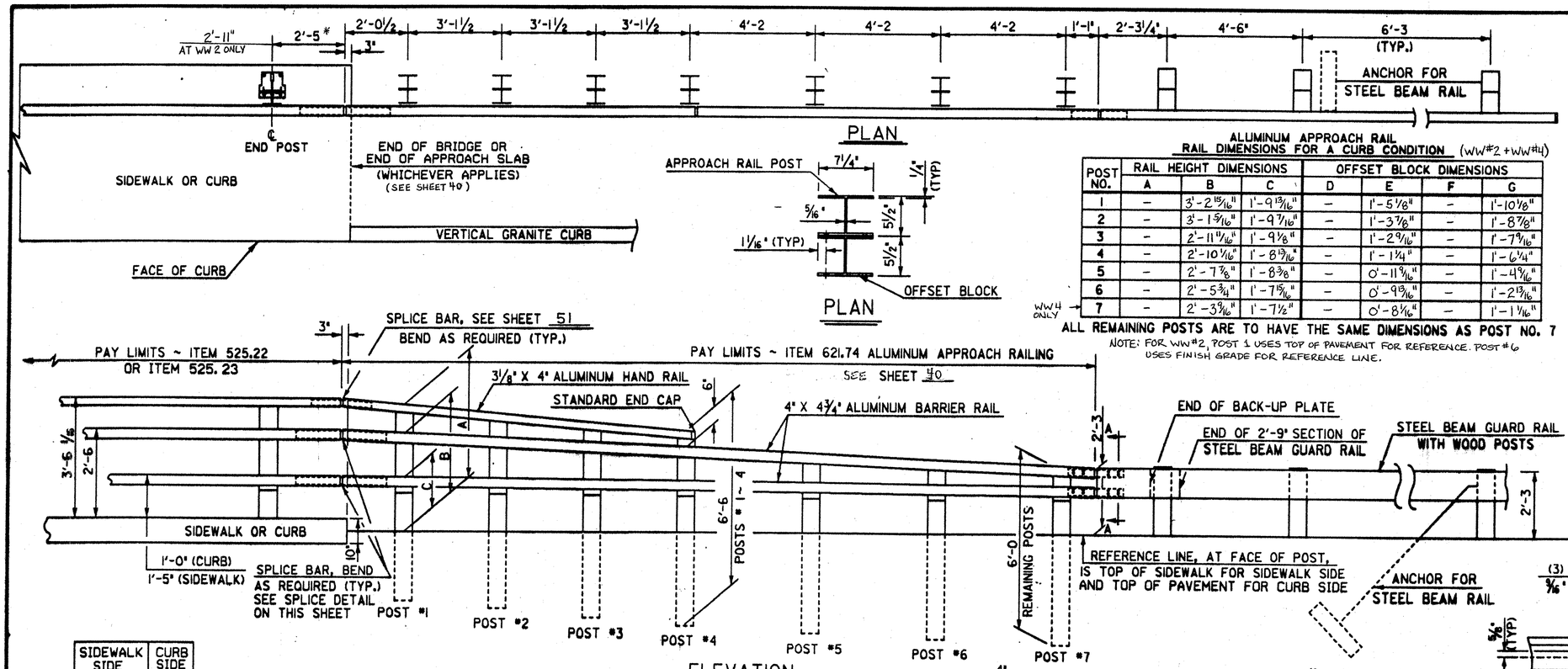


PLAN

PLAN

ALUMINUM APPROACH RAIL
RAIL DIMENSIONS FOR A CURB CONDITION (WW#2 + WW#4)

POST NO.	RAIL HEIGHT DIMENSIONS A	B	C	OFFSET BLOCK DIMENSIONS D	E	F	G
1	–	3'-2 15/16"	1'-9 13/16"	–	1'-5 1/8"	–	1'-10 1/8"
2	–	3'-1 5/16"	1'-9 7/16"	–	1'-3 7/8"	–	1'-8 7/8"
3	–	2'-11 11/16"	1'-9 1/8"	–	1'-2 9/16"	–	1'-7 9/16"
4	–	2'-10 1/16"	1'-8 13/16"	–	1'-1 1/4"	–	1'-6 1/4"
5	–	2'-7 7/8"	1'-8 3/8"	–	0'-11 9/16"	–	1'-4 9/16"
6	–	2'-5 3/4"	1'-7 15/16"	–	0'-9 13/16"	–	1'-2 13/16"
7	–	2'-3 9/16"	1'-7 1/2"	–	0'-8 1/16"	–	1'-1 1/16"

WW4 ONLY →

ALL REMAINING POSTS ARE TO HAVE THE SAME DIMENSIONS AS POST NO. 7

NOTE: FOR WW#2, POST 1 USES TOP OF PAVEMENT FOR REFERENCE. POST #6 USES FINISH GRADE FOR REFERENCE LINE.

NOTES

1. POST 1 THROUGH 7 SHALL BE EXTRUDED ALUMINUM.
2. ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 36 GALVANIZED AFTER FABRICATION.
3. ALL ITEMS NOT OTHERWISE INDICATED SHALL MEET THE SPECIFICATION REQUIREMENTS OF THE STANDARD SHEETS ON WHICH THEY ARE DETAILED.
4. SEE STANDARD G-1 FOR STEEL BEAM GUARD RAIL DETAILS. SEE SHEETS 50 AND 51 FOR ALUMINUM BRIDGE RAILING DETAILS.
5. THE COST OF ALL MATERIALS AND LABOR FOR THE SPLICE BETWEEN THE ALUMINUM APPROACH RAILING AND THE STEEL BEAM GUARD RAIL SHALL BE SUBSIDIARY TO ITEM 621.74, ALUMINUM APPROACH RAILING.
6. DETAILS ARE SHOWN FOR TRANSITION TO A 3 RAIL ALUMINUM BRIDGE RAILING.
7. DIMENSIONS SHOWN ARE FROM A REFERENCE LINE AT THE FACE OF POST FOR A NORMAL CROWNED SECTION. APPROPRIATE CORRECTIONS SHALL BE MADE FOR CROSS SLOPES OTHER THAN A NORMAL SECTION.

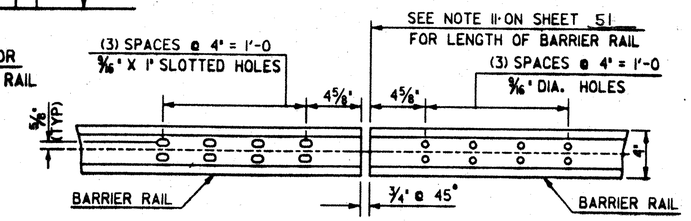
ALUMINUM APPROACH RAIL
RAIL DIMENSIONS FOR A SIDEWALK CONDITION (WW#1 + WW#3)

POST NO.	RAIL HEIGHT DIMENSIONS A	B	C	OFFSET BLOCK DIMENSIONS D	E	F	G
1	3'-4 3/4"	2'-5 3/4"	1'-5 3/16"	0'-11 7/16"	1'-0 9/16"	2'-4 9/16"	–
2	3'-2 1/16"	2'-5 3/8"	1'-5 1/2"	0'-9 3/4"	0'-11 7/8"	2'-2 3/16"	–
3	3'-0 1/16"	2'-5"	1'-5 13/16"	0'-8 1/8"	0'-11 3/16"	1'-11 7/8"	–
4	2'-10 5/8"	2'-4 5/8"	1'-6 1/16"	0'-6 7/16"	0'-10 9/16"	1'-9 9/16"	–
5	–	2'-4 1/8"	1'-6 1/2"	–	0'-9 5/8"	–	1'-2 5/8"
6	–	2'-3 5/8"	1'-6 7/16"	–	0'-8 3/4"	–	1'-1 3/4"
7	–	2'-3 1/8"	1'-7 1/4"	–	0'-7 7/8"	–	1'-0 7/8"

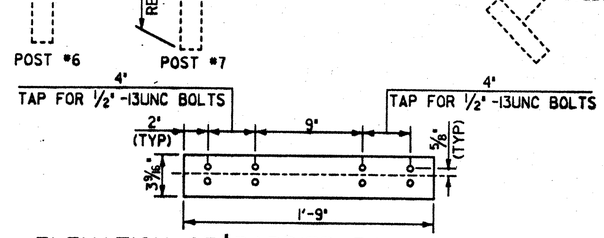
ALL REMAINING POSTS TO HAVE THE SAME DIMENSIONS AS POST NO. 7

ELEVATION

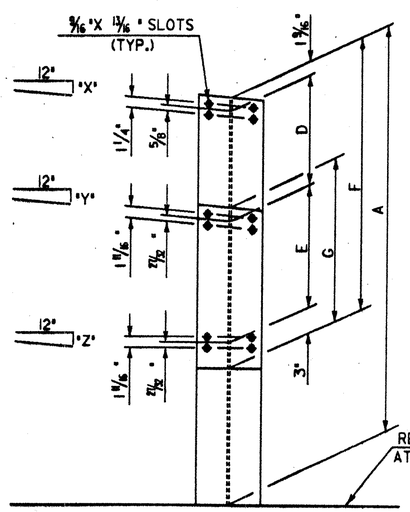
	SIDEWALK SIDE	CURB SIDE
"X"	5/8	–
"Y"	1/8	1/2
"Z"	1/8	1/8



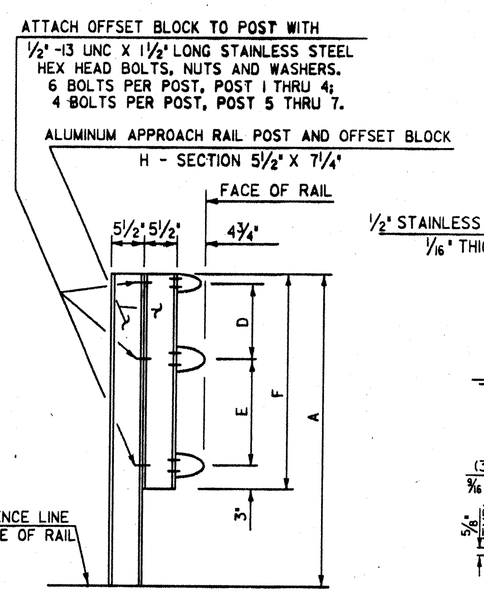
ELEVATION OF BARRIER RAIL (FROM BACK) AT ALL INTERMEDIATE RAIL SPLICES



ELEVATION OF BARRIER RAIL SPLICE BAR TO BE USED AT TRANSITION BETWEEN APPROACH RAIL & GUARD RAIL (FROM BACK)

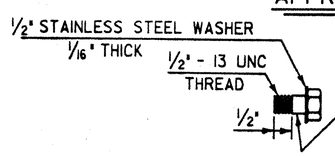


FRONT ELEVATION

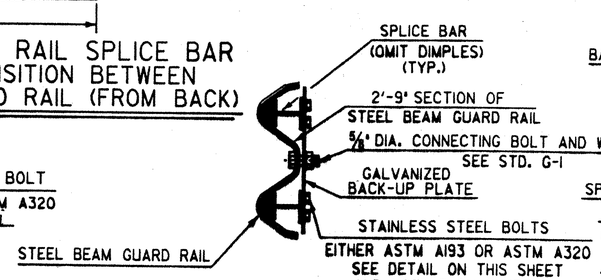


SIDE ELEVATION

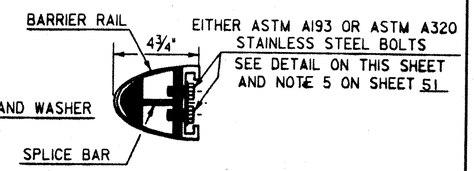
APPROACH RAIL DETAILS



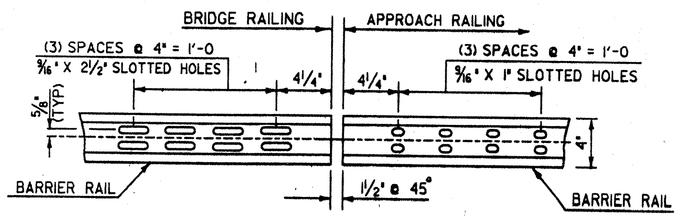
STAINLESS STEEL BOLT DETAILS



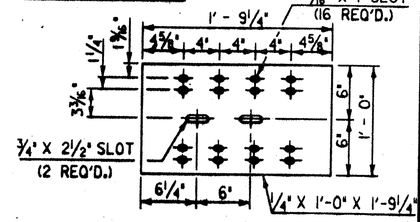
SECTION A-A



TYPICAL SECTION THROUGH BARRIER RAIL SPLICE



ELEVATION OF BARRIER RAIL (FROM BACK)



BACK-UP PLATE DETAILS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of ROYALTON	Bridge No. 21
Highway No. VT. RTE 14	Log Sta. / Surv. Sta.
VT. RTE. 14 OVER THE WHITE RIVER	
ALUMINUM APPROACH RAILING DETAILS	
Designed By / Checked By / Date	Drawn By / Bridge Design Supervisor / Date
PROJECT ROYALTON	PROJECT NO. BRS 0147(5) S
L.G.C. Info. ZHIL30J50JSBR191.DGN	PRF:SBR191SH3
Bridge Sheet No.	Sheet 52 of 76

02-04-93