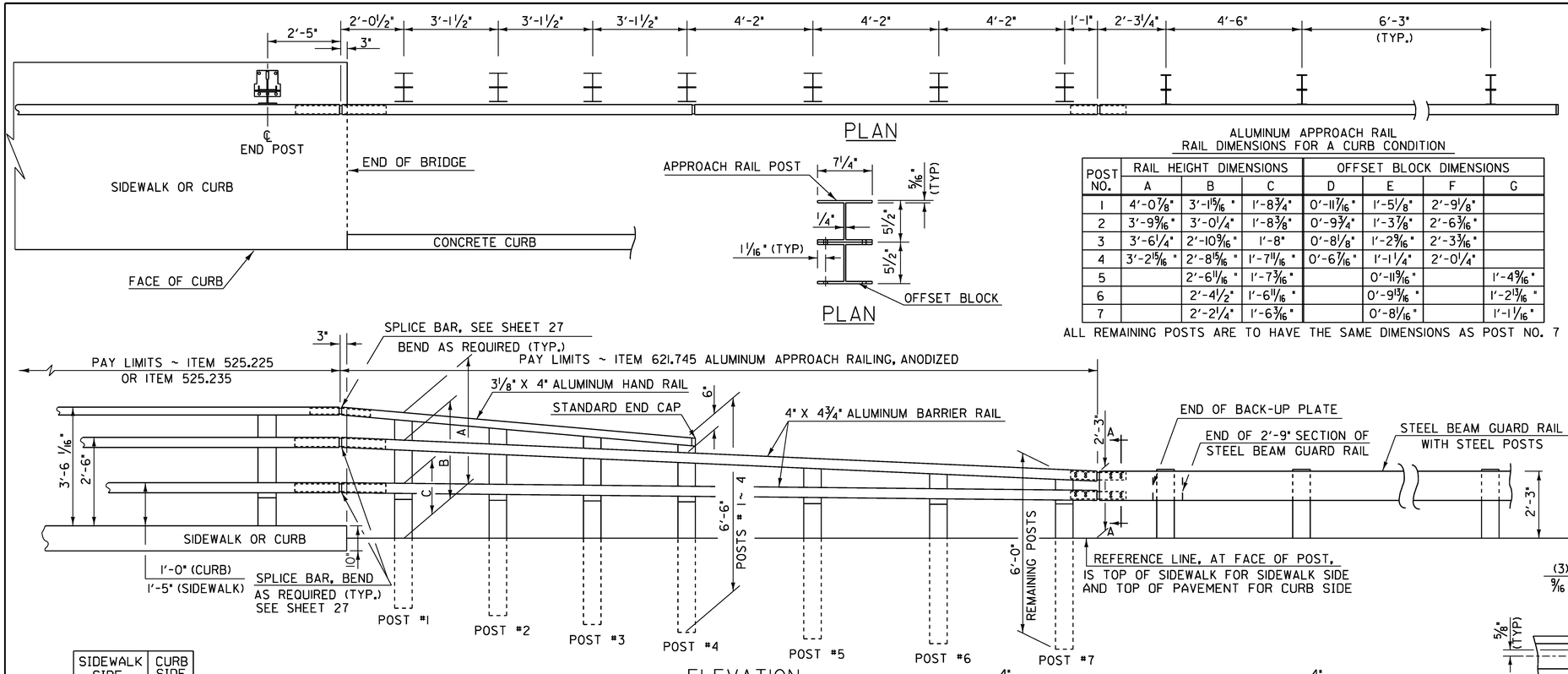


NOTES

1. POST 1 THROUGH 7 SHALL BE EXTRUDED ALUMINUM.
2. ALL STRUCTURAL STEEL SHALL BE AASHTO M 270M/M 270, GRADE 250 (GRADE 36) GALVANIZED AFTER FABRICATION.
3. N/A
4. SEE STANDARD G-1 FOR STEEL BEAM GUARD RAIL DETAILS. SEE SHEETS 26 AND 27 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 INCIDENTAL TO ITEM 621.745, "ALUMINUM APPROACH RAILING, ANODIZED".
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 CURB CONDITION

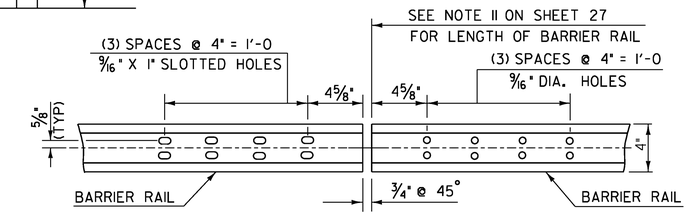
POST NO.	RAIL HEIGHT DIMENSIONS			OFFSET BLOCK DIMENSIONS			
	A	B	C	D	E	F	G
1	4'-0 7/8"	3'-11 5/16"	1'-8 3/4"	0'-11 7/16"	1'-5 1/8"	2'-9 1/8"	
2	3'-9 9/16"	3'-0 1/4"	1'-8 3/8"	0'-9 3/4"	1'-3 7/8"	2'-6 3/16"	
3	3'-6 1/4"	2'-10 9/16"	1'-8"	0'-8 1/8"	1'-2 9/16"	2'-3 3/16"	
4	3'-2 15/16"	2'-8 15/16"	1'-7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

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

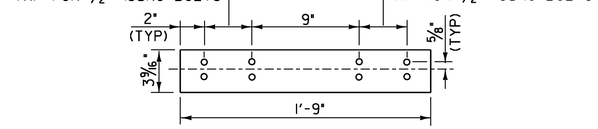
ALUMINUM APPROACH RAIL
RAIL DIMENSIONS FOR A SIDEWALK CONDITION

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

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

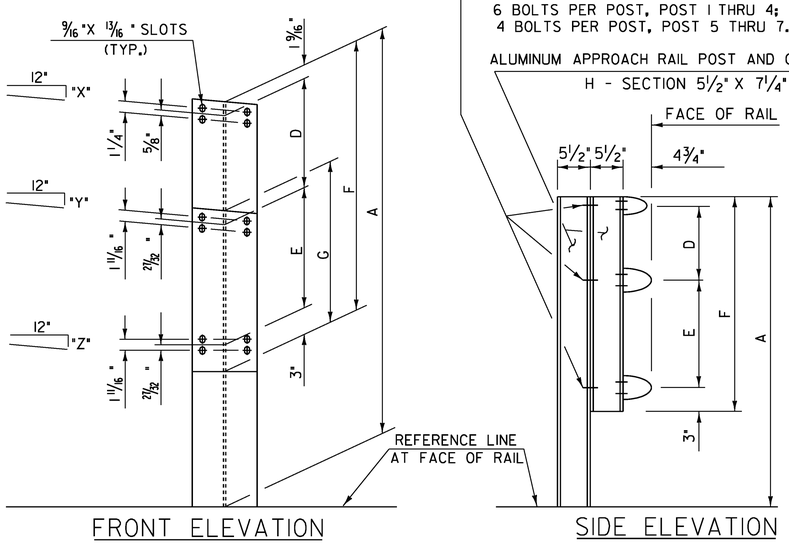


ELEVATION OF BARRIER RAIL (FROM BACK)
AT ALL INTERMEDIATE RAIL SPLICES



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

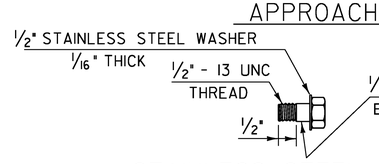
	SIDEWALK SIDE	CURB SIDE
"X"	11/16"	1 1/16"
"Y"	1/8"	9/16"
"Z"	1/16"	1/8"



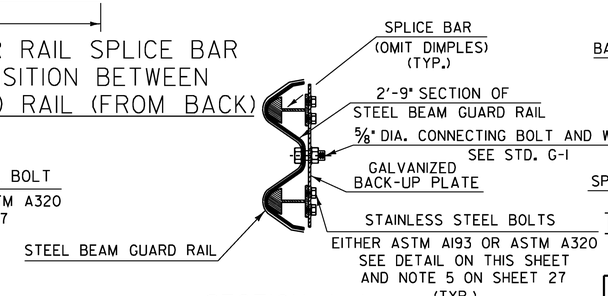
FRONT ELEVATION

SIDE ELEVATION

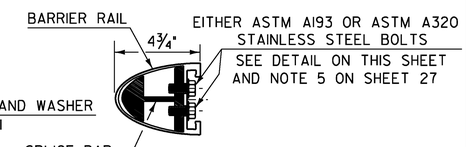
APPROACH RAIL DETAILS



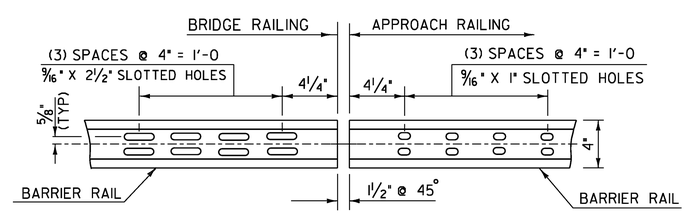
STAINLESS STEEL BOLT DETAILS



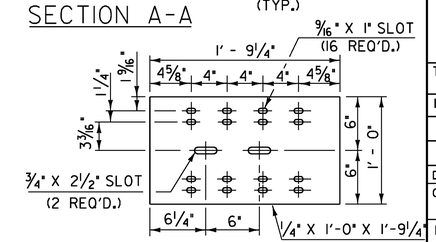
SECTION A-A



TYPICAL SECTION THROUGH
BARRIER RAIL SPLICE



ELEVATION OF BARRIER RAIL (FROM BACK)



BACK-UP PLATE DETAILS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BERKSHIRE	Bridge No. 30
Highway No. VT 118	Log Sta. / Surv. Sta.
VT 118 OVER MISSISSQUOI RIVER	
ALUMINUM BRIDGE RAILING DETAILS (3)	
Designed By R Howe	Drawn By J Davis
Checked By R Hebert — Date 4/2/09	Bridge Design Supervisor — Date
PROJECT BERKSHIRE	PROJECT NO. BHF 0283(9)S
I.G.C. Info.	ZC304RAIL.DGN
Bridge Sheet No.	Sheet 28 of 41