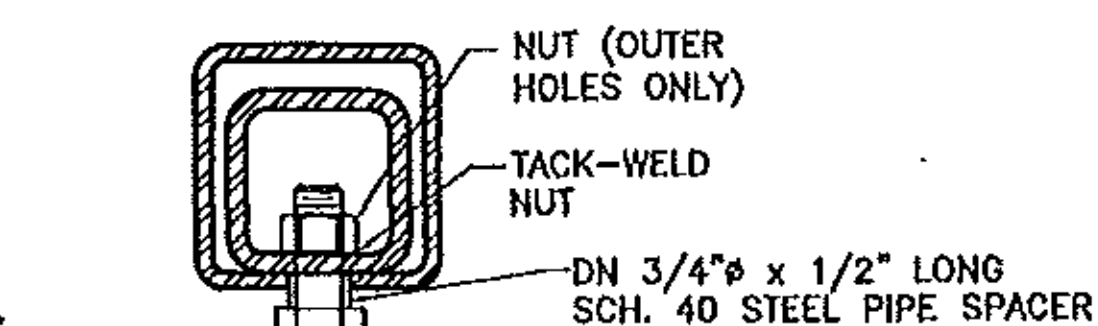
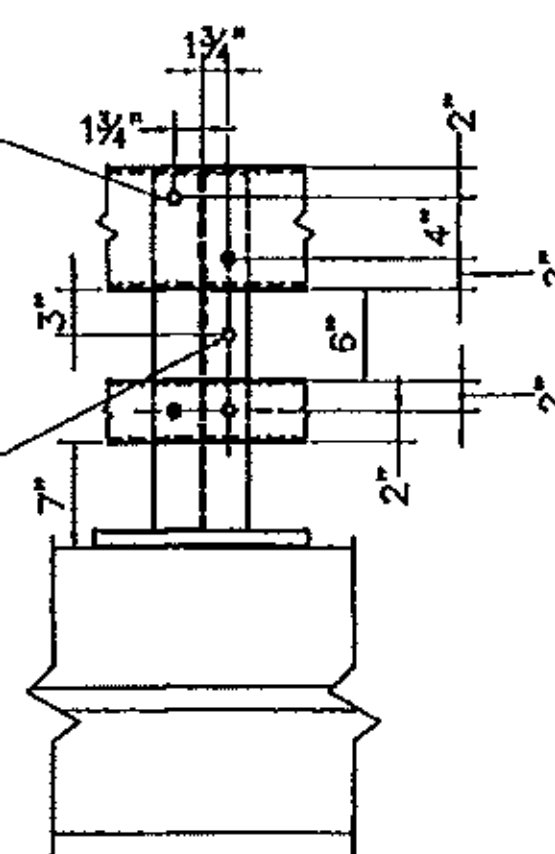
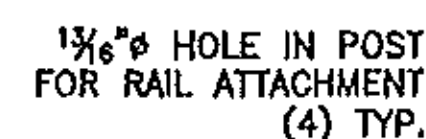
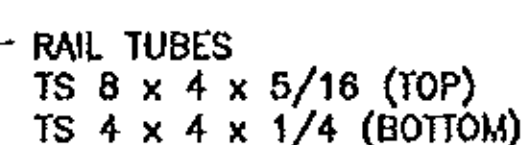
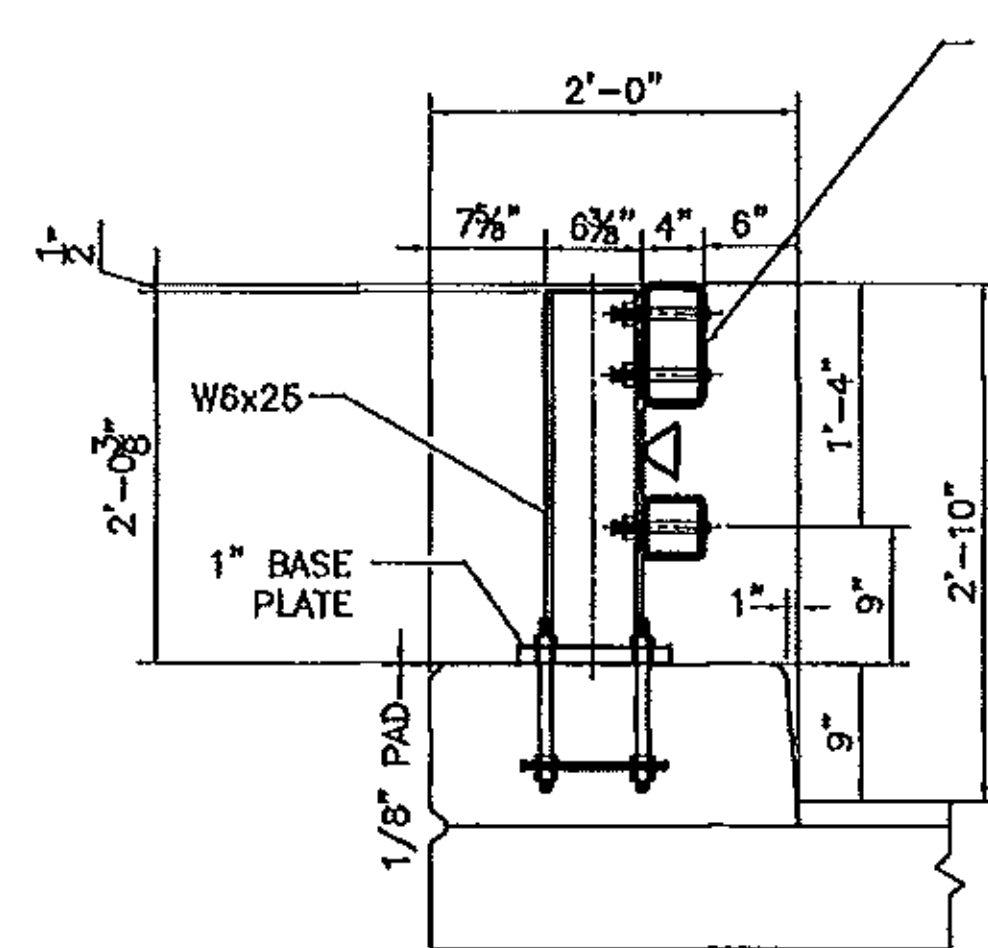
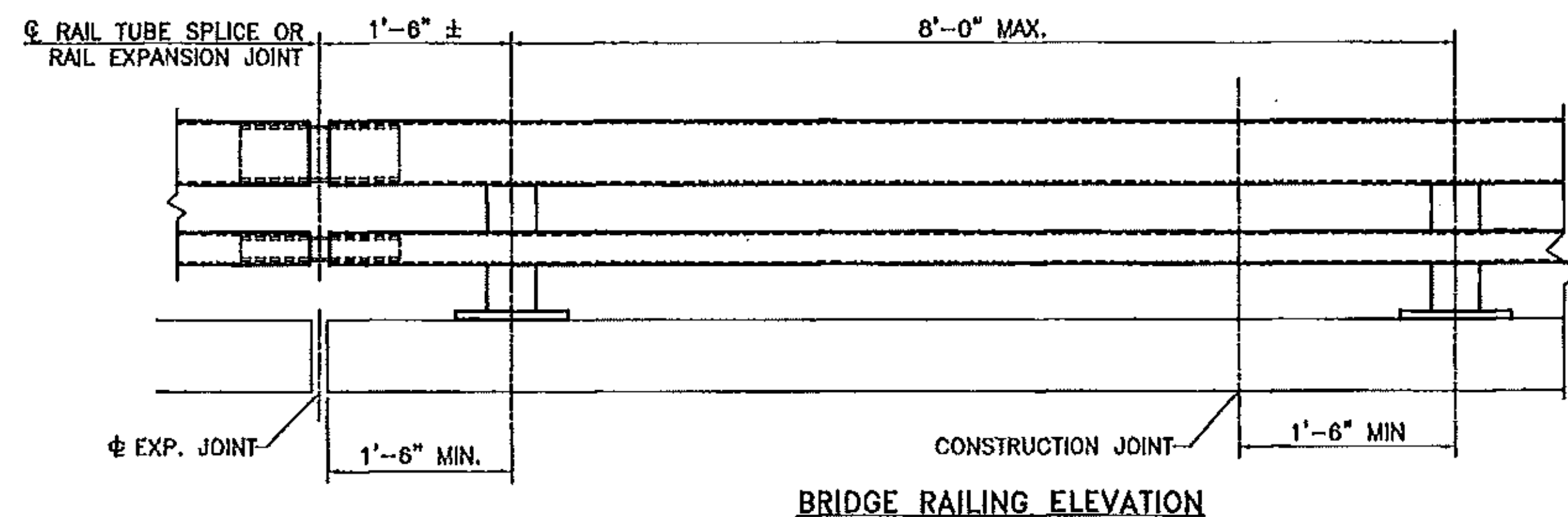
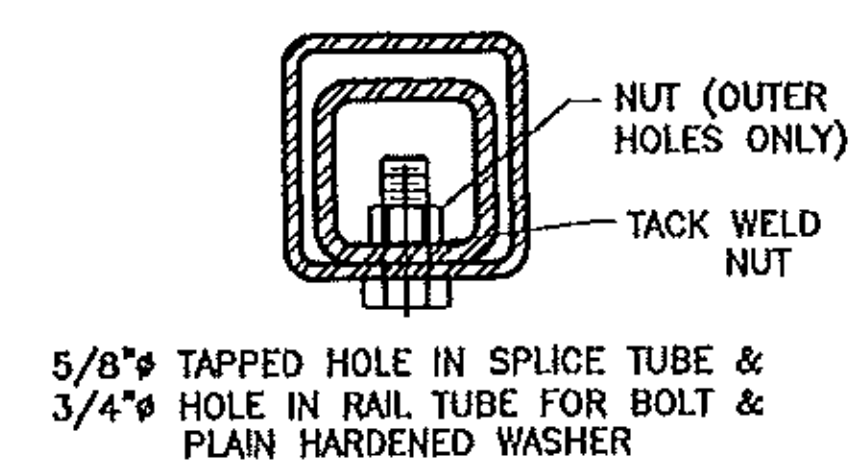


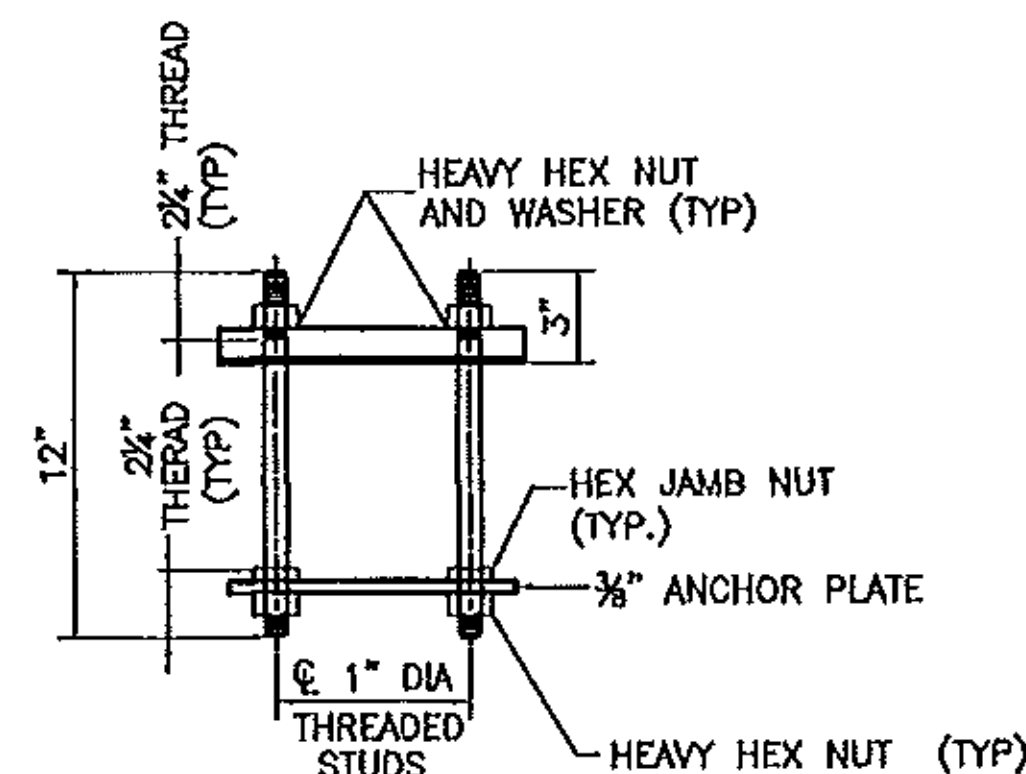


5/8"ø TAPPED HOLE IN SPLICE TUBE
AND 1 1/8" x 'C' SLOT IN RAIL TUBE FOR
BOLT AND PLAIN HARDENED WASHER

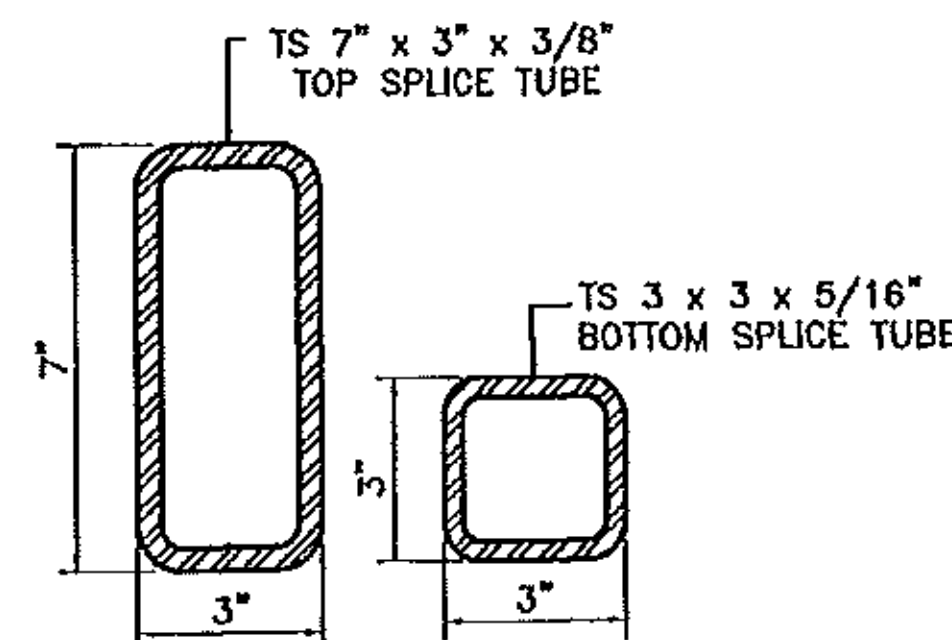
EXPANSION JOINT SECTION
FOR DETAILS NOT SHOWN,
SEE "RAIL TUBE SPLICE SECTION."



5/8" TAPPED HOLE IN SPLICE TUBE &
3/4" HOLE IN RAIL TUBE FOR BOLT &
PLAIN HARDENED WASHER



RAIL POST ANCHORAGE



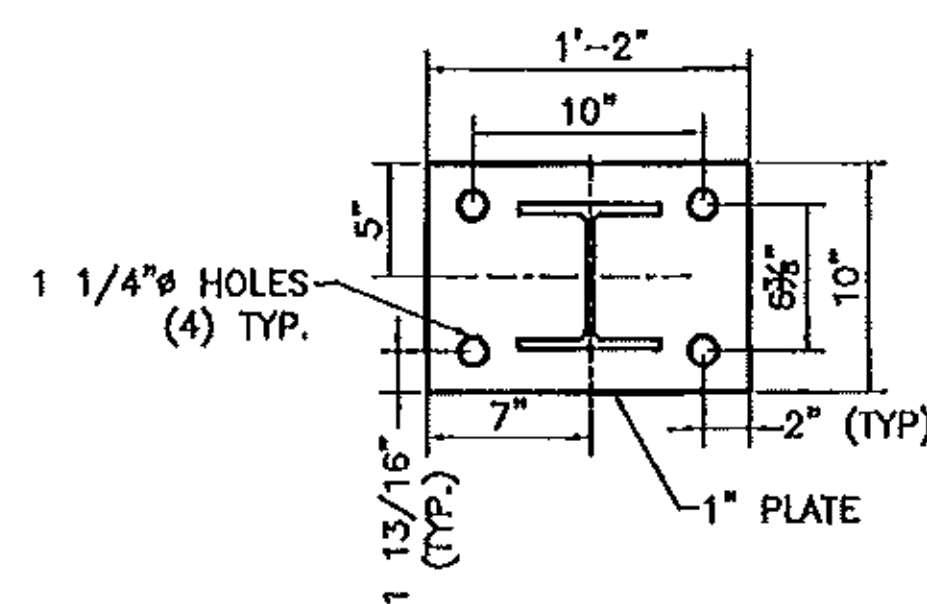
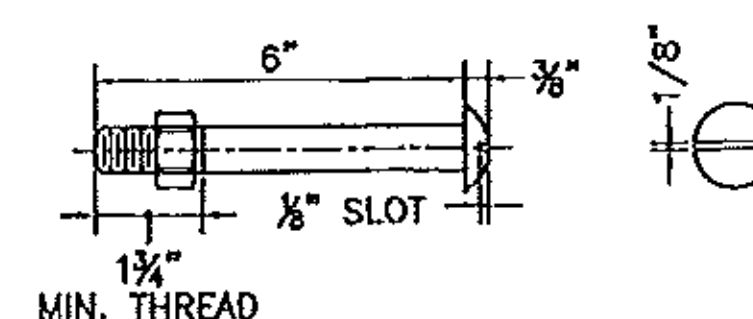
RAIL TUBE SPLICE SECTION

- NOTES:**

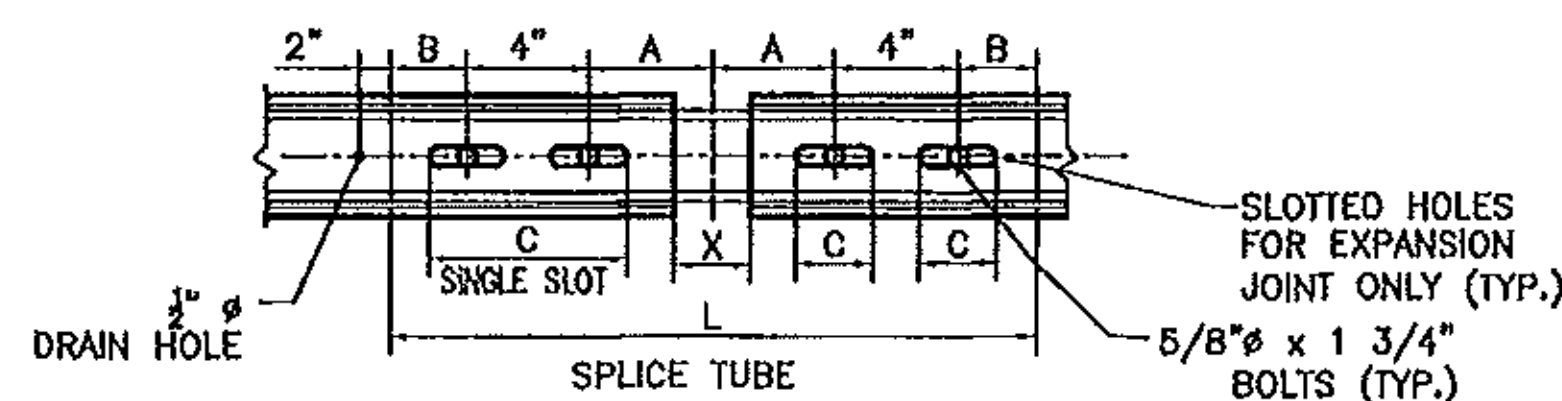
1. ALL RAILINGS AND MATERIALS SHALL CONFORM TO THE STANDARD SPECIFICATION FOR CONSTRUCTION SECTION 625, BRIDGE RAILINGS.
2. PRIOR TO GALVANIZING, ALL EXPOSED CUT OR SHEARED EDGES SHALL BE ROUNDED TO A $1/16"$ RADIUS AND BE FREE OF BURRS.
3. RAIL POSTS SHALL BE SET NORMAL TO GRADE.
4. SECTIONS OF RAIL TUBE SHALL BE ATTACHED TO A MINIMUM OF TWO (2) RAIL POSTS AND PREFERABLY TO AT LEAST FOUR (4) POSTS.
5. RAIL TUBE EXPANSION JOINT SHALL BE PROVIDED IN ANY RAIL BAY SPANNING A SUPERSTRUCTURE EXPANSION JOINT. EXPANSION JOINT WIDTH SHALL BE "X" AT 45°F AND WILL BE ADJUSTED IN THE FIELD BY THE ENGINEER FOR OTHER TEMPERATURES.
6. ALL PARTS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111, EXCEPT HARDWARE, WHICH SHALL MEET THE REQUIREMENTS OF AASHTO M232.
7. RAIL POST ANCHORING NUTS SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL ONE-EIGHTH TURN.
8. RAIL TUBES SHALL BE ATTACHED USING $3/4"$ FULL DIAMETER BODY AASHTO M164 (TYPE 1) ROUND HEAD BOLT INSERTED THROUGH THE FACE OF THE TUBE. HOLES IN POSTS SHALL BE $1/16"$ LARGER THAN THE BOLT SIZE.
9. HOLES IN RAILS FOR RAIL TUBE ATTACHMENT SHALL BE FIELD-DRILLED. HOLES SHALL BE COATED WITH AN APPROVED ZINC-RICH PAINT PRIOR TO ERECTION.
10. IF THERE IS A CONFLICT BETWEEN THE DETAILS SHOWN ON THIS SHEET AND THE DESIGN, THE REQUIREMENTS OF THE DESIGN DRAWINGS SHALL BE FOLLOWED.
11. ANY BENDING OF RAIL SHALL BE BY SHOP PROCEDURE ONLY, AND SHALL BE DONE AT THE FABRICATION PLANT.
12. THE FABRICATOR SHALL SUBMIT SHOP DRAWINGS, INCLUDING WELDING PROCEDURES TO THE STRUCTURES SECTION FOR APPROVAL IN ACCORDANCE WITH SUBSECTION 506.04 OF THE STANDARD SPECIFICATIONS. ALL WELDING SHALL CONFORM WITH SUBSECTION 506.10.
13. RAIL POSTS AND BASE PLATES SHALL BE TESTED FOR IMPACT PROPERTIES IN ACCORDANCE WITH ASTM A-370 CHARPY IMPACT TESTING USING TYPE A SPECIMEN
14. EXPANSION JOINT HARDWARE, REFLECTORS AND REFLECTOR HARDWARE PROVIDED BY OTHERS.

MATERIALS

- | | |
|---|---------------------------------|
| <u>MATERIALS</u> | |
| RAIL TUBES..... | ASTM A500, GRADE B OR ASTM A501 |
| RAIL POSTS AND BASE PLATES..... | ASTM A709/A709M, GRADE 50 |
| ALL OTHER SHAPES AND PLATES..... | ASTM A709/A709M, GRADE 36 |
| ANCHOR STUDS..... | ASTM A449 |
| ALL OTHER BOLTS (UNLESS NOTED)..... | AASHTO M164, TYPE1 |
| NUTS FOR AASHTO M164 BOLTS AND FOR ANCHOR STUDS SHALL COMPLY WITH | |
| AASHTO M291 (ASTM A583). | |



POST AND BASE PLATE

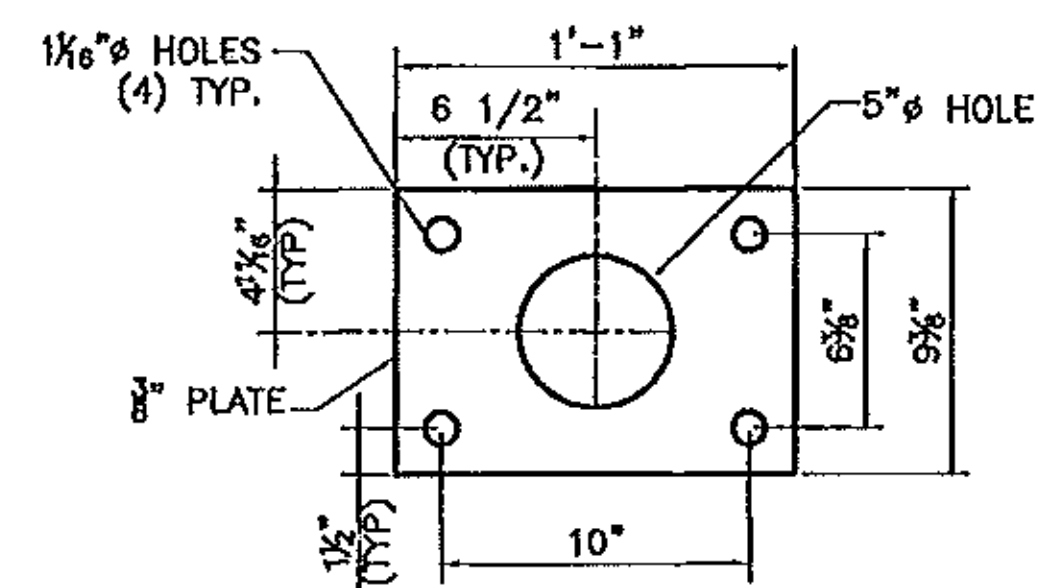


RAIL TUBE SPLICE AND RAIL EXPANSION JOINT DETAIL

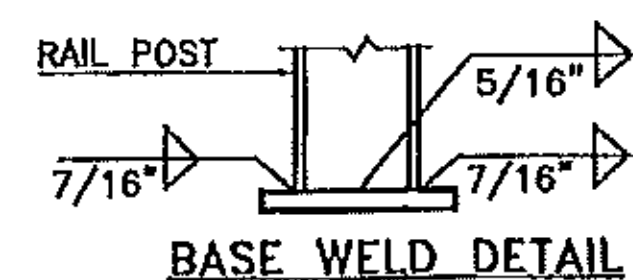
SPLICE TABLE					
T	A	B	C	L	X
N/A	4"	2"	--	20"	3/4"

EXPANSION JOINT TABLE					
<4"	4"	2"	2 1/2"	20"	2 1/2"

T = TOTAL MOVEMENT BETWEEN BRIDGE
EXPANSION JOINTS. SEE NOTE 5



ANCHOR PLATE



1	APPROVED-AS-NOTED CORRECTIONS	07-16-1
0	Initial submittal	05-31-1
No.	Remarks	Date
	REVISIONS	

	HIGHWAY SAFETY CORP				
	GLASTONBURY, CT 860-833-9445				
ITEM 525.33 NETC 2 RAIL BRIDGE RAIL VT RT 9 BRIDGE NO. 11 TOWN OF WOODFORD COUNTY OF BENNINGTON, VERMONT PROJECT NO. ER BHF 010-1(44)					CERTIFIED FABRICATOR
GENERAL CONTRACTOR					ACC JOB NO. 1881
SUB CONTRACTOR T BUCK CONSTRUCTION					BEST NO. 3 of 4
ISSUED	WHM	CHECKED	PAR	DATE 05-31-12	SCALE
					NOTE
					REV