

**NOTES**

1. ALL WORK AND MATERIALS SHALL CONFORM TO THE PROVISIONS OF SECTION 525 - RAILINGS OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.
2. TUBING AND POSTS SHALL MEET THE REQUIREMENTS OF SECTION 732 - RAILING MATERIALS OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.
3. ALL EXPOSED CUT OR SHEARED EDGES SHALL BE ROUNDED TO 1/16" RADIUS AND BE FREE OF BURRS.
4. RAIL POSTS SHALL BE SET NORMAL TO GRADE.
5. SECTIONS OF RAIL BAR SHALL BE ATTACHED TO A MINIMUM OF TWO (2) RAIL POSTS AND PREFERABLY TO FOUR (4) POSTS.
6. ALL PARTS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111, EXCEPT THAT HARDWARE SHALL MEET THE REQUIREMENTS OF AASHTO M232.
7. RAIL POSTS AND ANCHORING NUTS SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN.
8. RAIL BARS SHALL BE ATTACHED USING 3/4" FULL DIAMETER BODY AASHTO M164 (TYPE 1) ROUND HEAD BOLTS INSERTED THROUGH THE FACE OF THE BAR. HOLES IN POSTS SHALL BE 1/16" LARGER THAN THE BOLT SIZE.
9. HOLES IN RAILS FOR RAIL BAR ATTACHMENT MAY BE FIELD-DRILLED. HOLES SHALL BE COATED WITH AN APPROVED ZINC-RICH PAINT PRIOR TO ERECTION.
10. ANY BENDING OF THE RAIL SHALL BE BY SHOP PROCEDURE ONLY.
11. THE FABRICATOR SHALL SUBMIT SHOP DRAWINGS INCLUDING WELDING PROCEDURES TO THE STRUCTURES SECTION FOR APPROVAL IN ACCORDANCE WITH THE PROVISIONS OF 506.04, SHOP DRAWINGS. ALL WELDING SHALL CONFORM WITH SECTION 506.10.

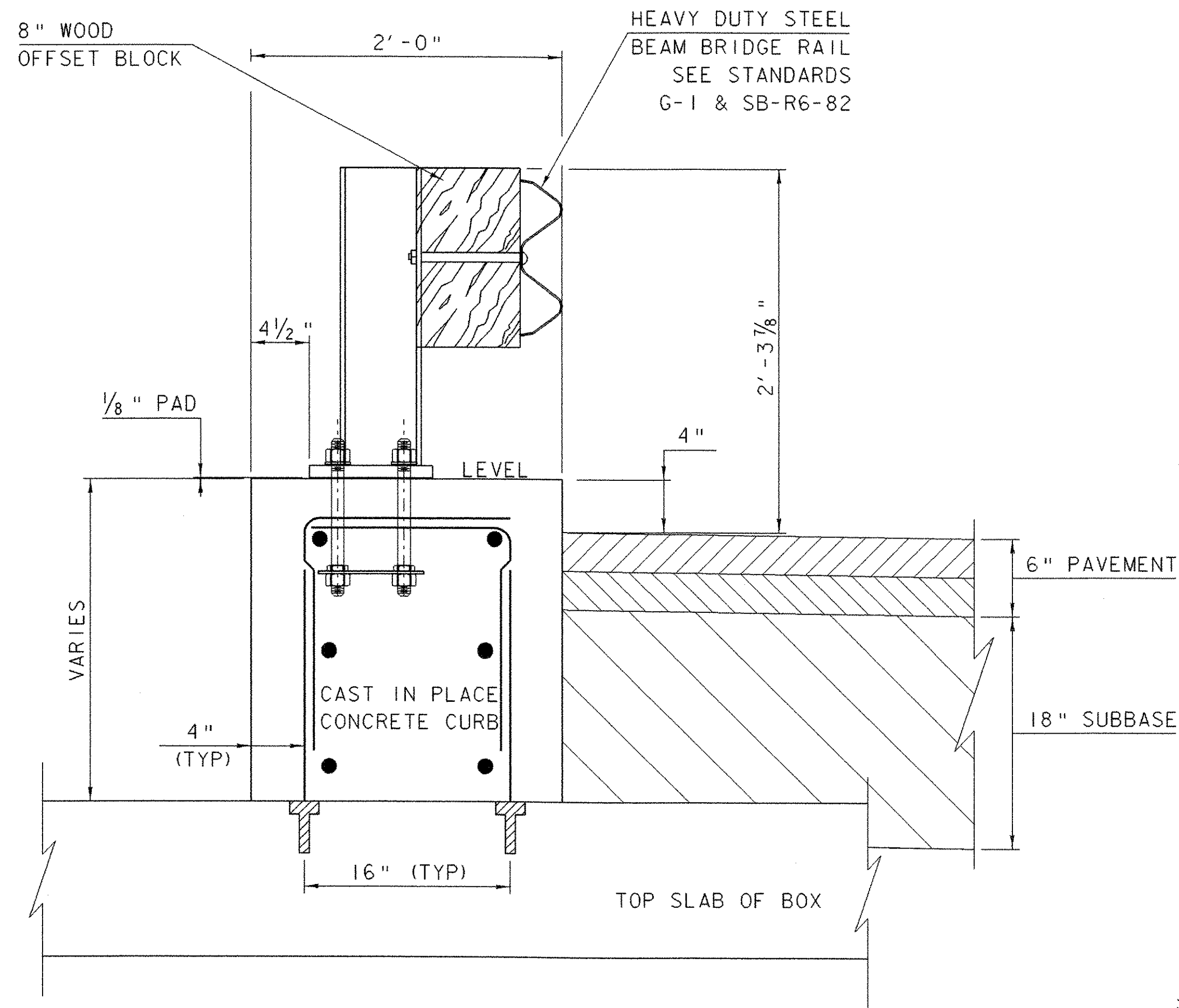
**MATERIALS**

RAIL BARS.....ASTM A500, GRADE B OR ASTM A501  
 RAIL POSTS.....ASTM A709/A709M, GRADE 50  
 ALL OTHER SHAPED & PLATES.....ASTM A709/A709M, GRADE 36  
 ANCHOR STUDS.....ASTM A449  
 ALL OTHER BOLTS (UNLESS NOTED).....ASTM A307

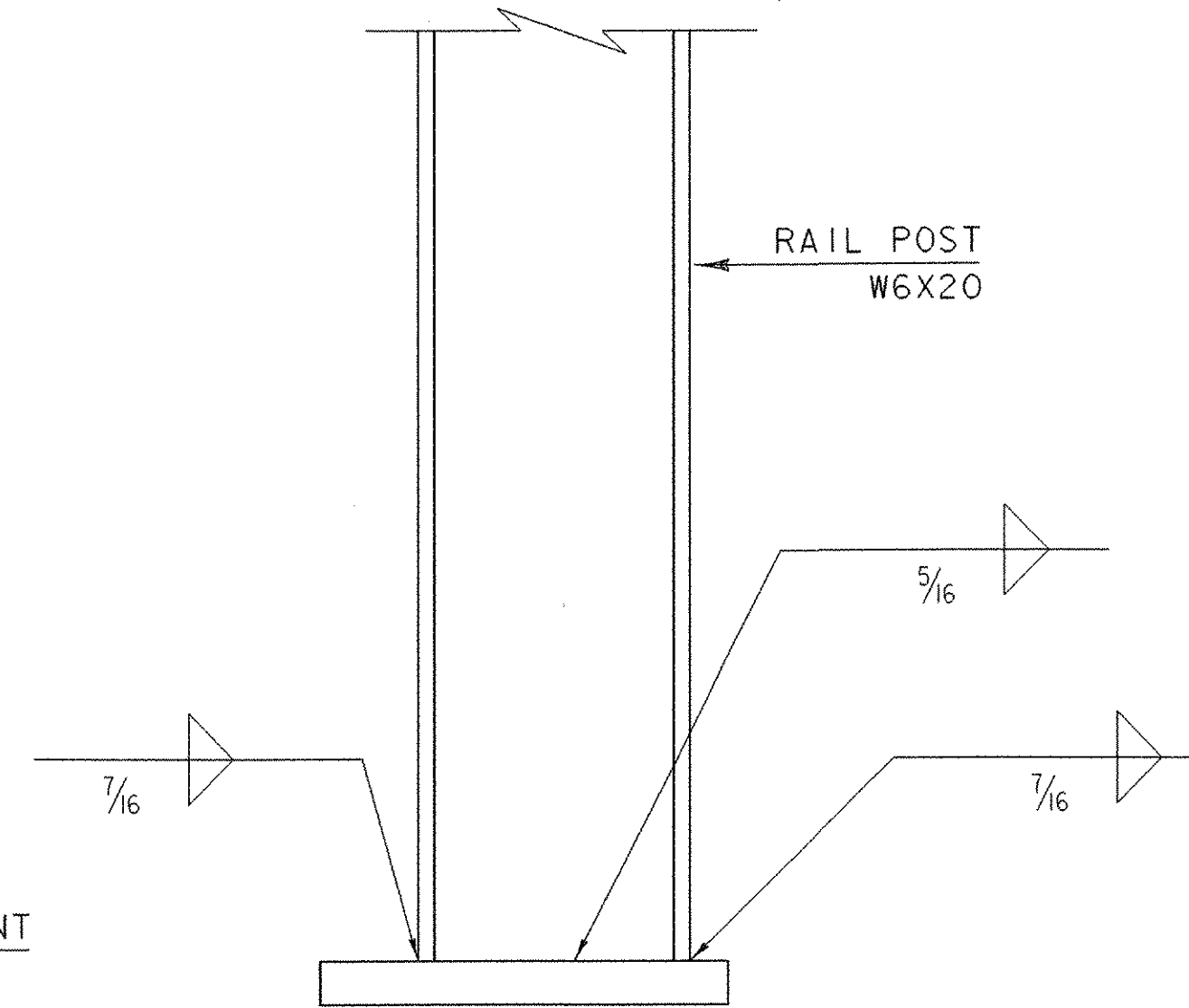
NUTS FOR AASHTO M164 BOLTS SHALL COMPLY WITH AASHTO M291. NUTS FOR ANCHOR STUDS SHALL COMPLY WITH ASTM A563.

WASHERS SHALL COMPLY WITH AASHTO M293 (ASTM F436) SPECIFICATION.

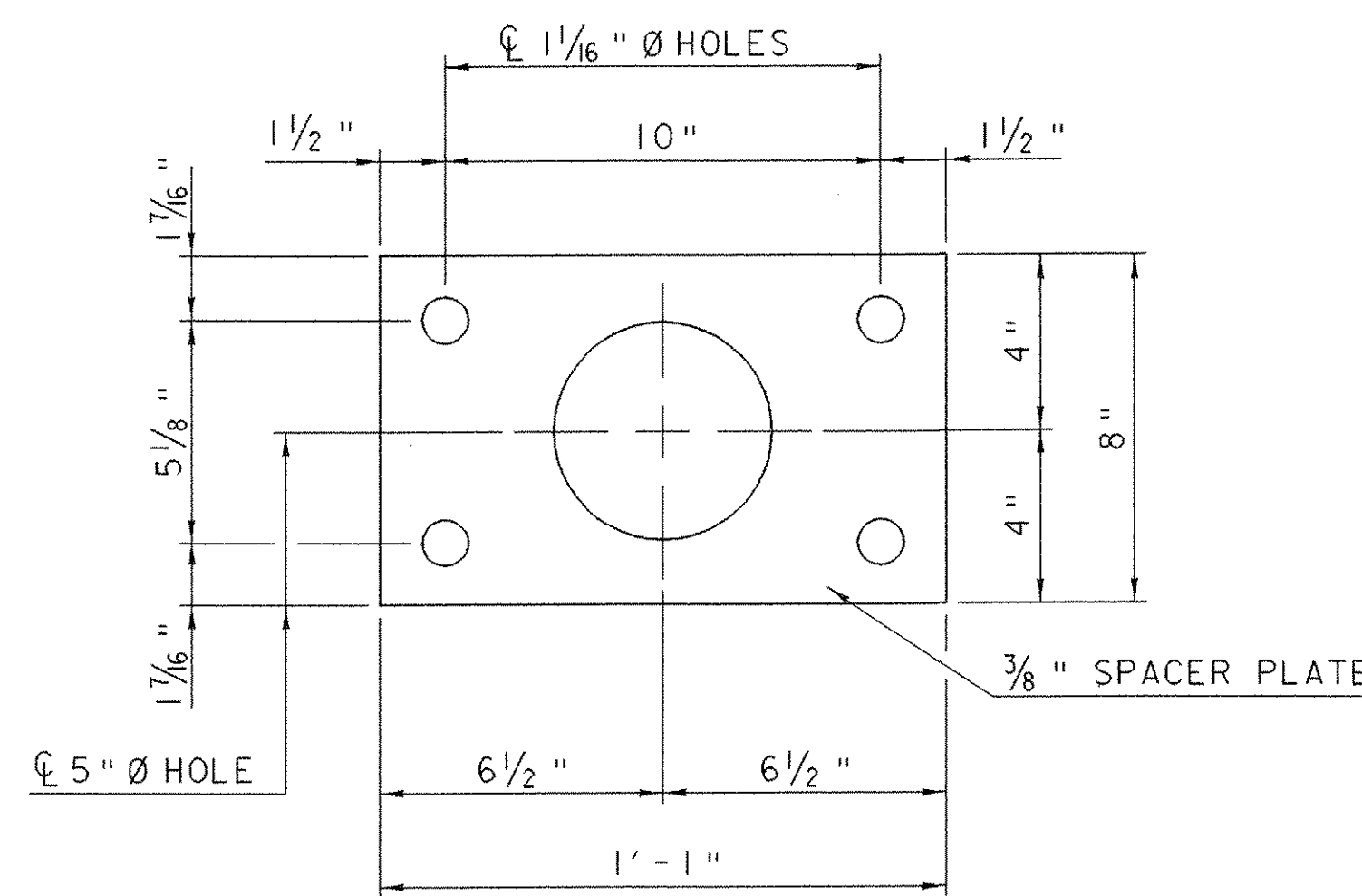
1/8" PAD SHALL COMPLY WITH STANDARD SPECIFICATION SUBSECTION 731.01 OR 731.02.



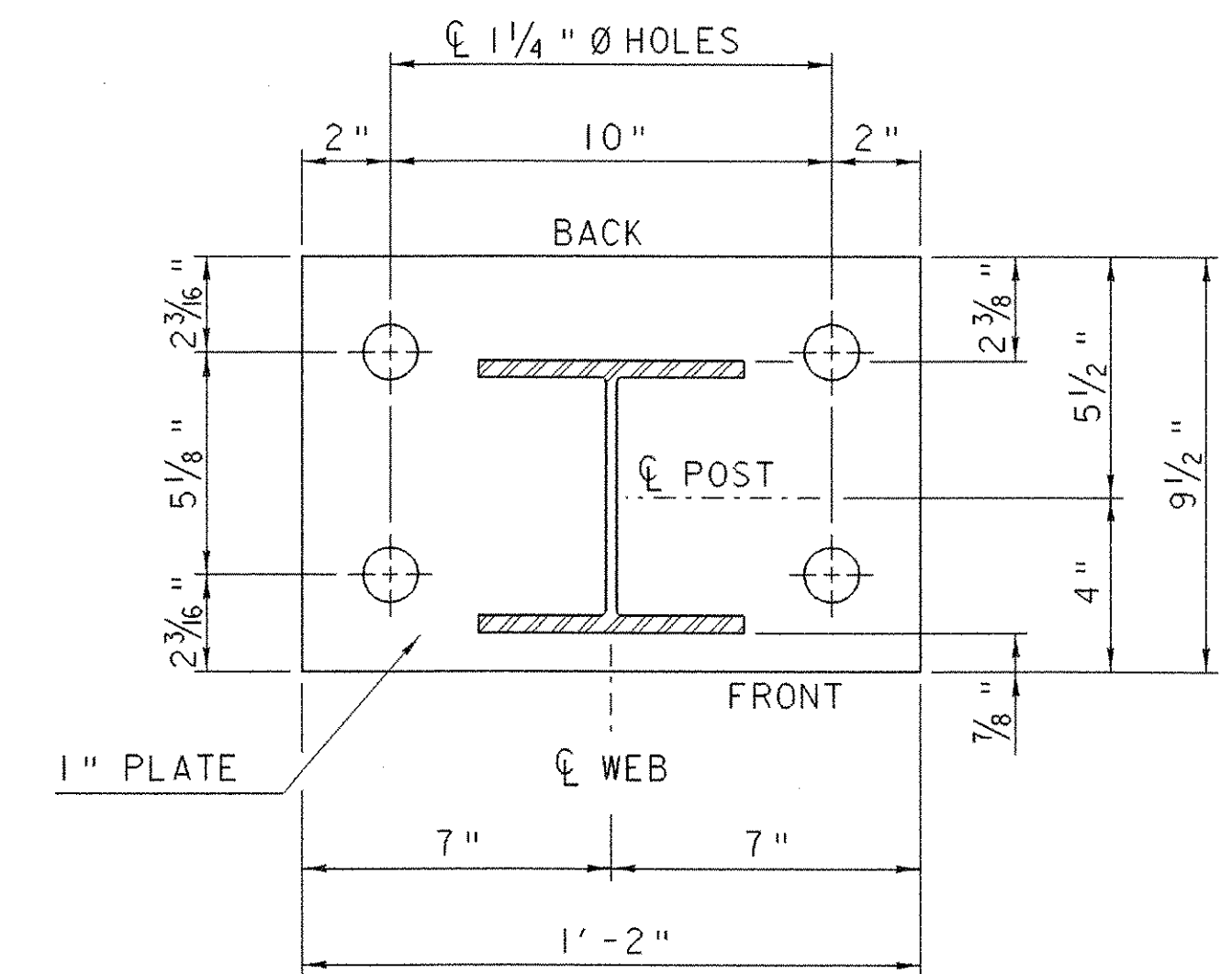
**TYPICAL CURB SECTION**  
 SCALE: 1 1/2" = 1'-0"



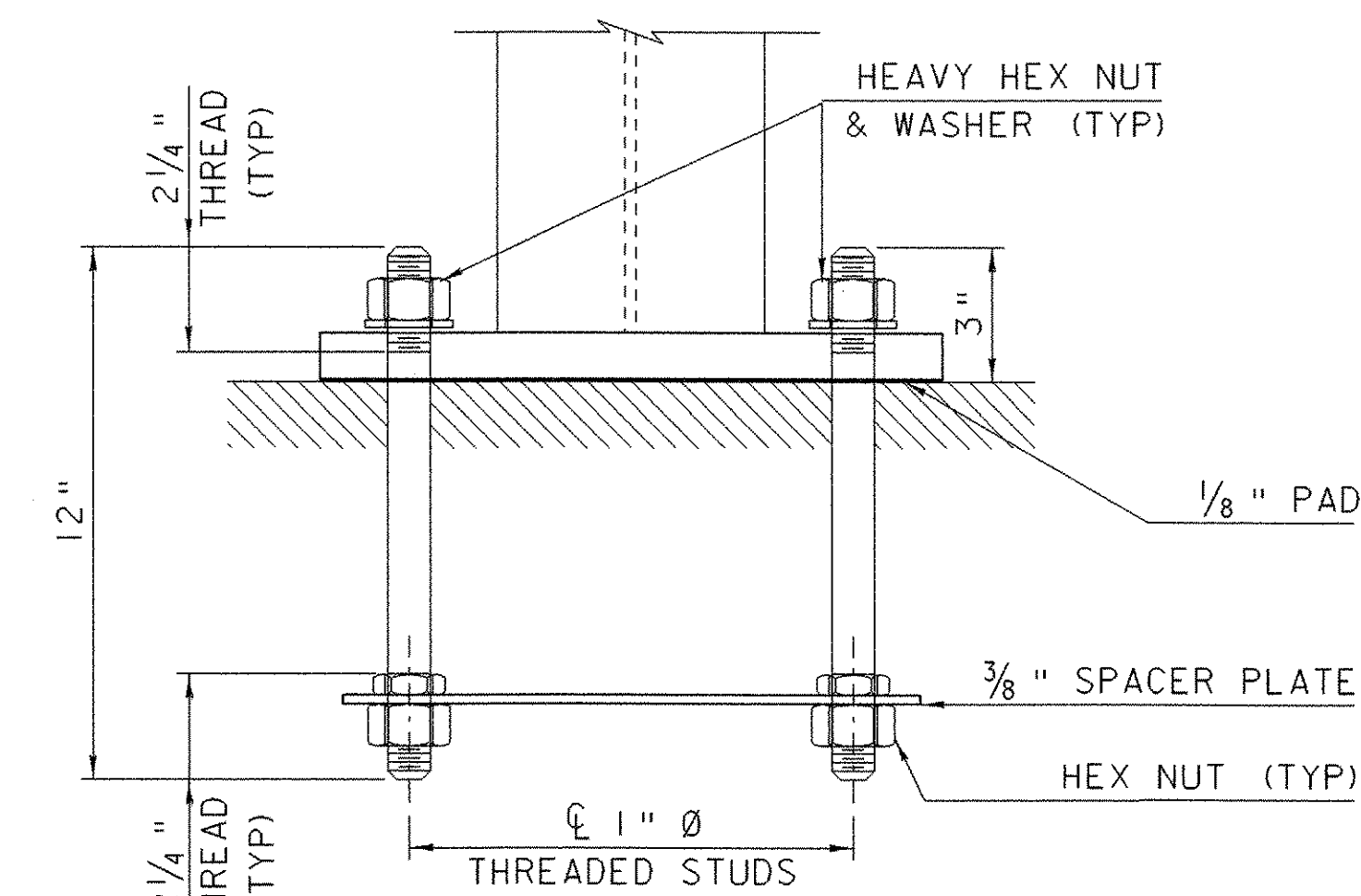
**BASE WELD DETAIL**  
 SCALE: 3" = 1'-0"



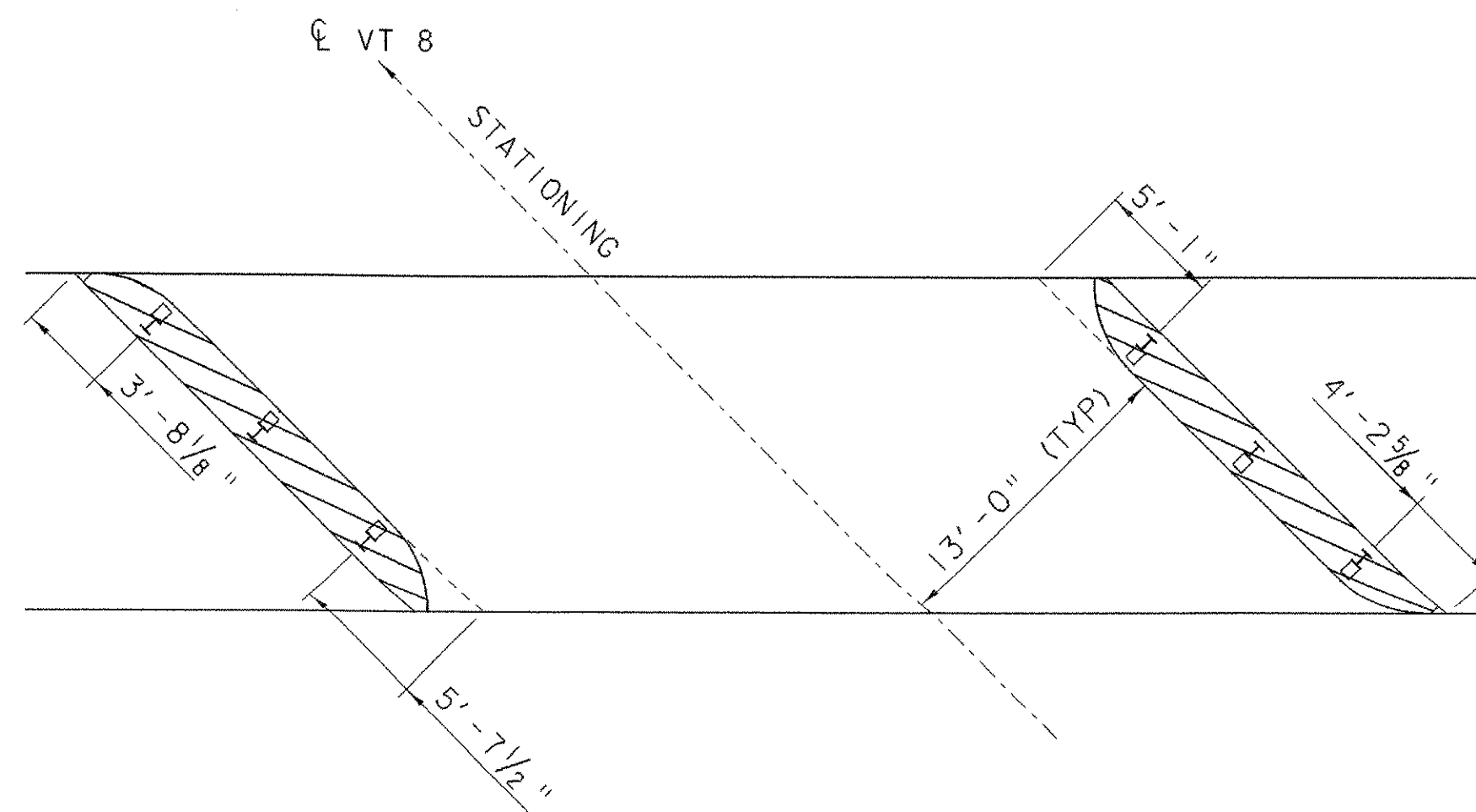
**SPACER PLATE**  
 SCALE: 3" = 1'-0"



**POST AND BASE PLATE**  
 SCALE: 3" = 1'-0"

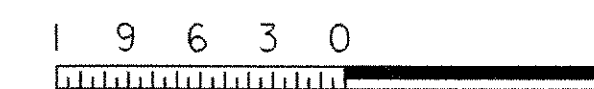


**RAIL POST ANCHORAGE**  
 SCALE: 3" = 1'-0"

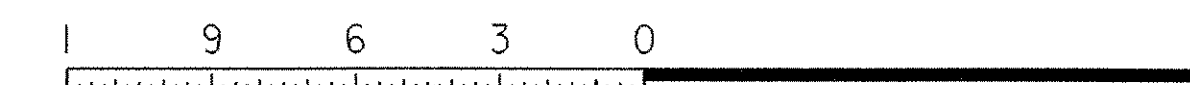


**PLAN VIEW OF CAST IN PLACE PEDESTAL**  
 NOT TO SCALE

SCALE 1 1/2" = 1'-0"



SCALE 3" = 1'-0"



PROJECT: <b>READSBORO</b>	PROJECT NO. : <b>ST CULV (4)</b>
DESIGN FILE NAME: 04c176/structures/s04c176pipepro.dgn	PLOT DATE: 18-JUL-2006
IPARM FILE NAME: s04c176curb2.i	DRAWN BY: E. L. RUSTAY
DESIGNED BY: E. L. RUSTAY	CHECKED BY: M. GAGULIC
SQUAD LEADER: C. P. WILLIAMS	SHEET: 19 OF 39
CAST IN PLACE CURB DETAILS - 2	