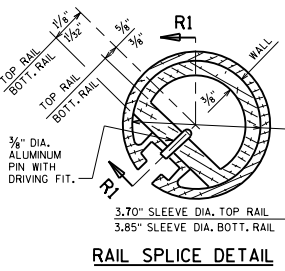
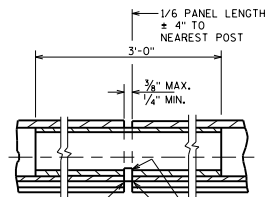


**ALUMINUM POST CASTING**

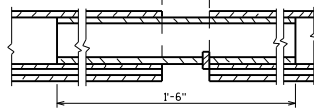
**SECT. A-A**



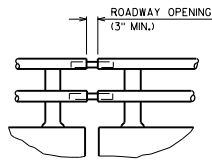
**RAIL SPLICE DETAIL**



**SECTION R1**

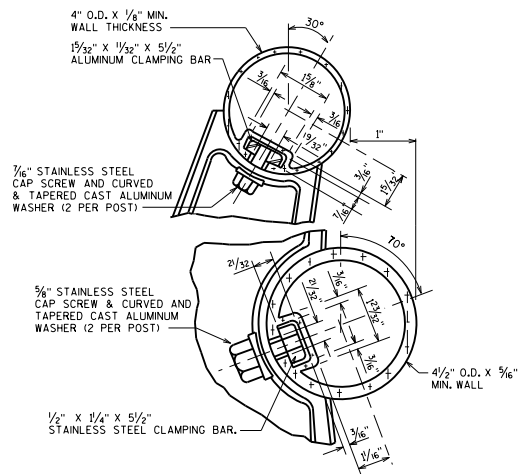


**SLEEVE DETAIL AT ABUTMENT**



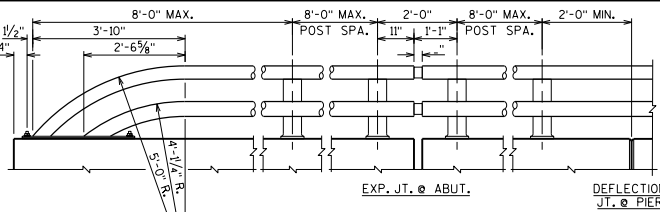
**DETAIL AT RAIL OPENINGS**

ALL SLEEVE DETAILS SAME AS "RAIL SPLICE DETAIL" UNLESS SHOWN OTHERWISE

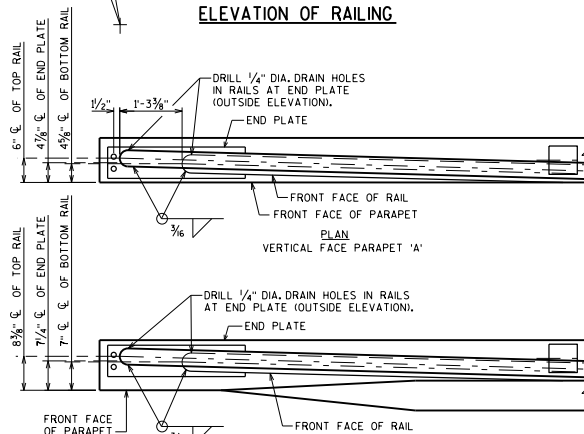


**DETAIL OF ATTACHMENT TO POST**

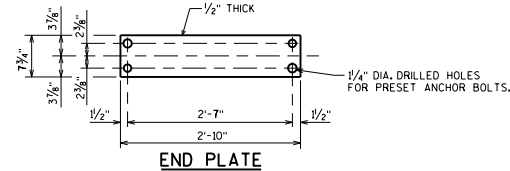
NOTES: MAX. REDUCTION IN DIAMETER OF BENT SECTION SHALL BE 3%. WALL THICKNESS OF TUBING SHOWN ABOVE SHALL BE MIN. NOMINAL AVERAGE WALL THICKNESS. MAX. REDUCTION IN SLOT WIDTH IN BENT TUBING SHALL BE 3/8."



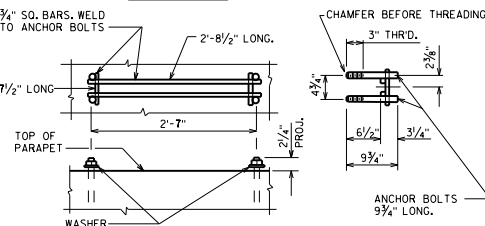
**ELEVATION OF RAILING**



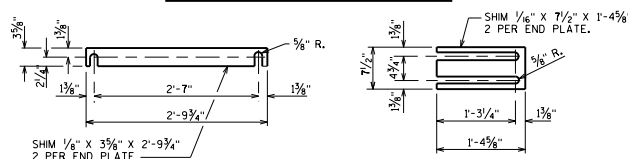
**DETAIL OF RAIL BEND AT ABUTMENTS**



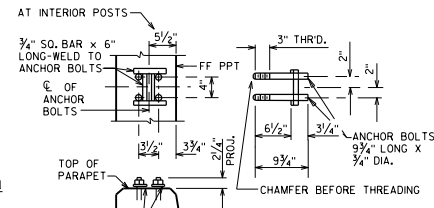
**END PLATE**



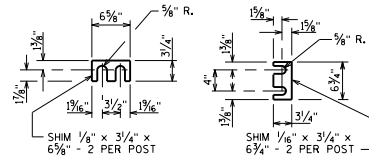
**ANCHOR BOLTS AT END PLATE**



**END PLATE SHIM DETAILS**



**ANCHOR BOLTS AT POSTS**

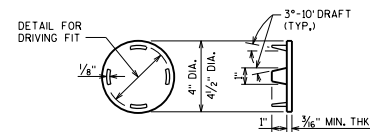


**POST SHIM DETAILS**

**NOTES**

- BID ITEM SHALL BE "RAILING TUBULAR TYPE 'H' WHICH INCLUDES ALL ITEMS SHOWN.
- SHIMS SHALL CONFORM TO SAME MATERIAL AS POSTS.
- ANCHOR BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL.
- RAILINGS SHALL BE FABRICATED IN 2 AND 3 PANEL LENGTHS.
- RAILING POSTS SHALL BE SET NORMAL TO GRADE LINE.
- ALL POST SPACINGS ARE MEASURED HORIZONTALLY ALONG CENTERLINE OF THE POST BASE.
- SHIMS SHALL BE USED UNDER POSTS AND END PLATES WHERE RECD. FOR ALIGNMENT.
- FILL ALL EXPOSED OPENINGS BETWEEN SHIMS AND POST ANCHOR BOLT HOLES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.
- RAILS SHALL BE BUILT STRAIGHT AND SPRUNG INTO PLACE FOR STRUCTURES CURVED UP TO 3" FOR STRUCTURES CURVED GREATER THAN 3", RAILS SHALL BE CURVED TO FIT.

RAILING WEIGHT = 20 LB/FT



**RAIL CLOSURE CAP DETAIL**

<b>TUBULAR RAILING TYPE 'H' (ALUM.)</b>	
	<b>BUREAU OF STRUCTURES</b>
APPROVED: <u>Bill Oliva</u>	DATE: <u>7-19</u>