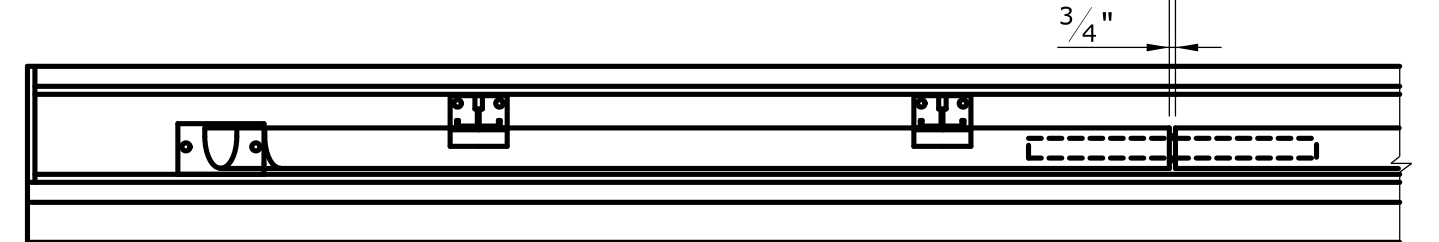


**ELEVATION**

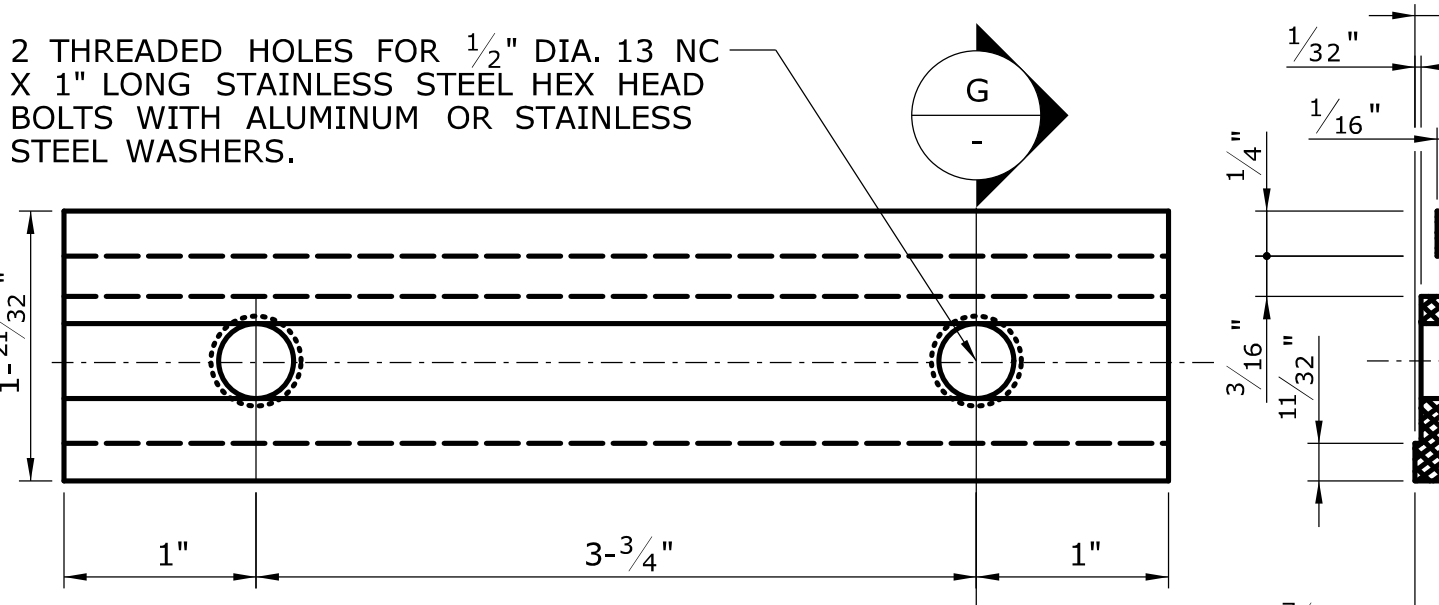
SCALE: 1/2" = 1'-0"

1/2" + OPEN JOINT DIMENSION AT REAL PANELS OVER OPEN JOINTS



**PLAN**

SCALE: 3/4" = 1'-0"

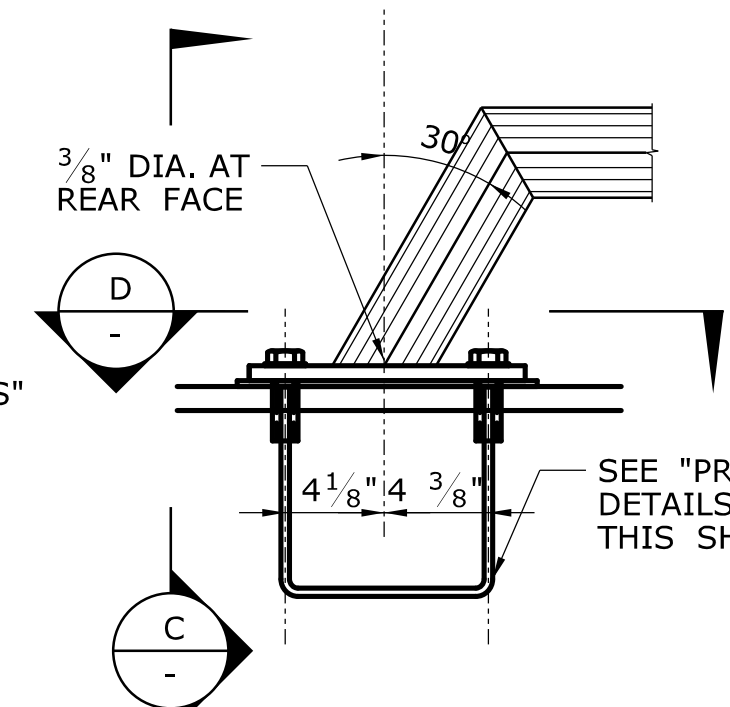


**POST CONNECTION DEVICE DETAILS**

N.T.S.

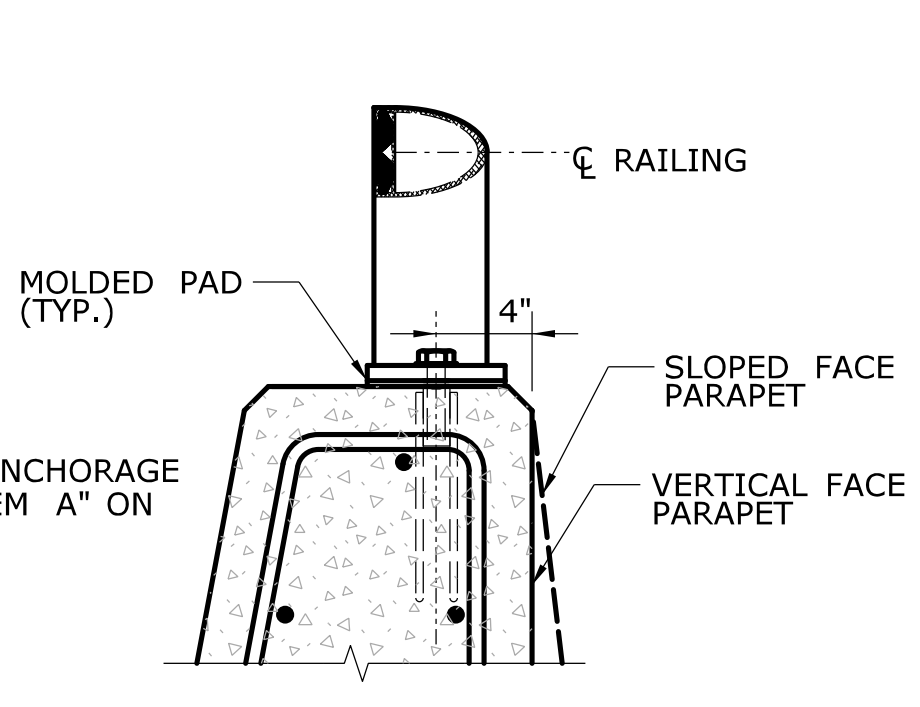
**SECTION G**

N.T.S.



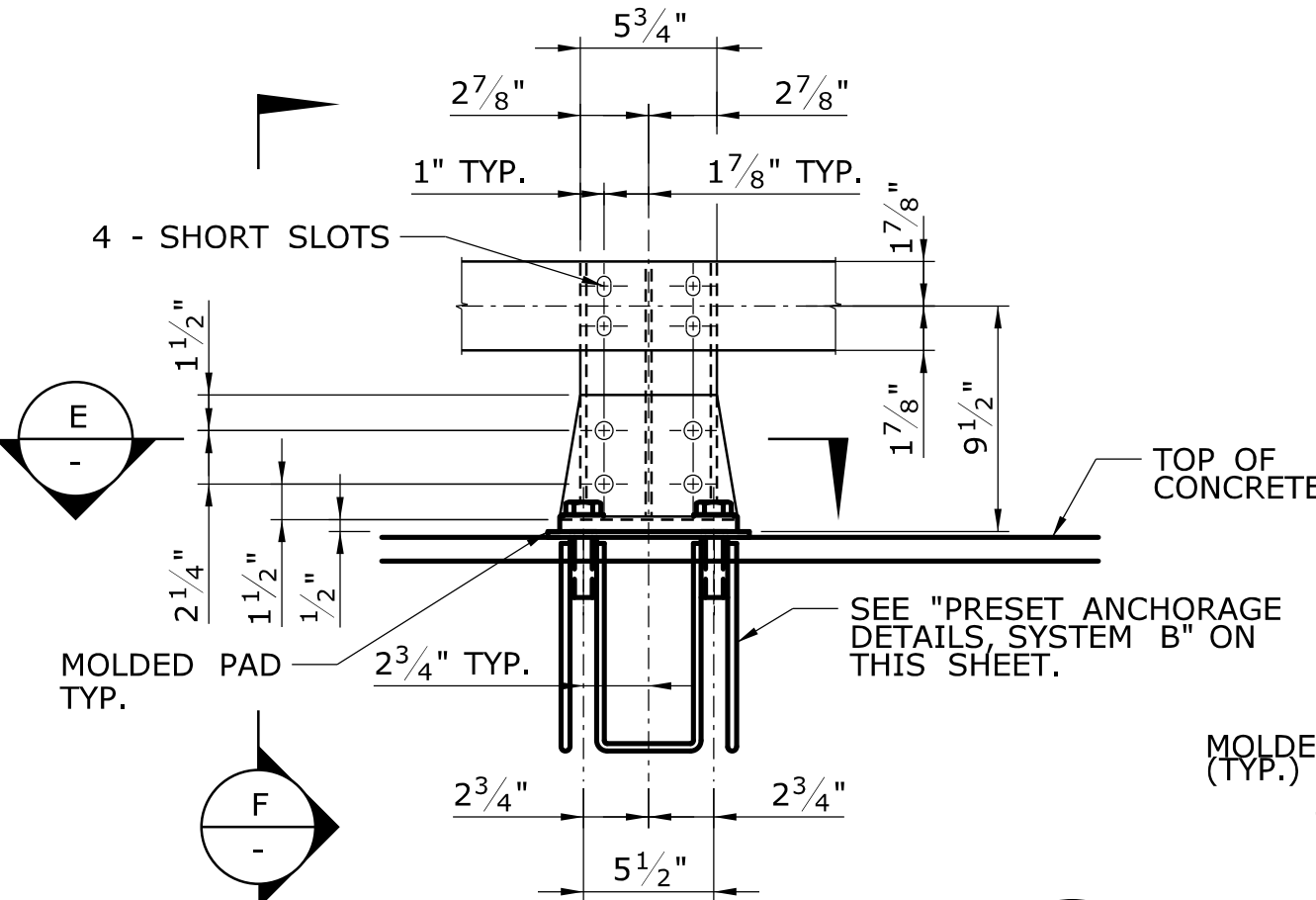
**DETAIL-END RAIL A**

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



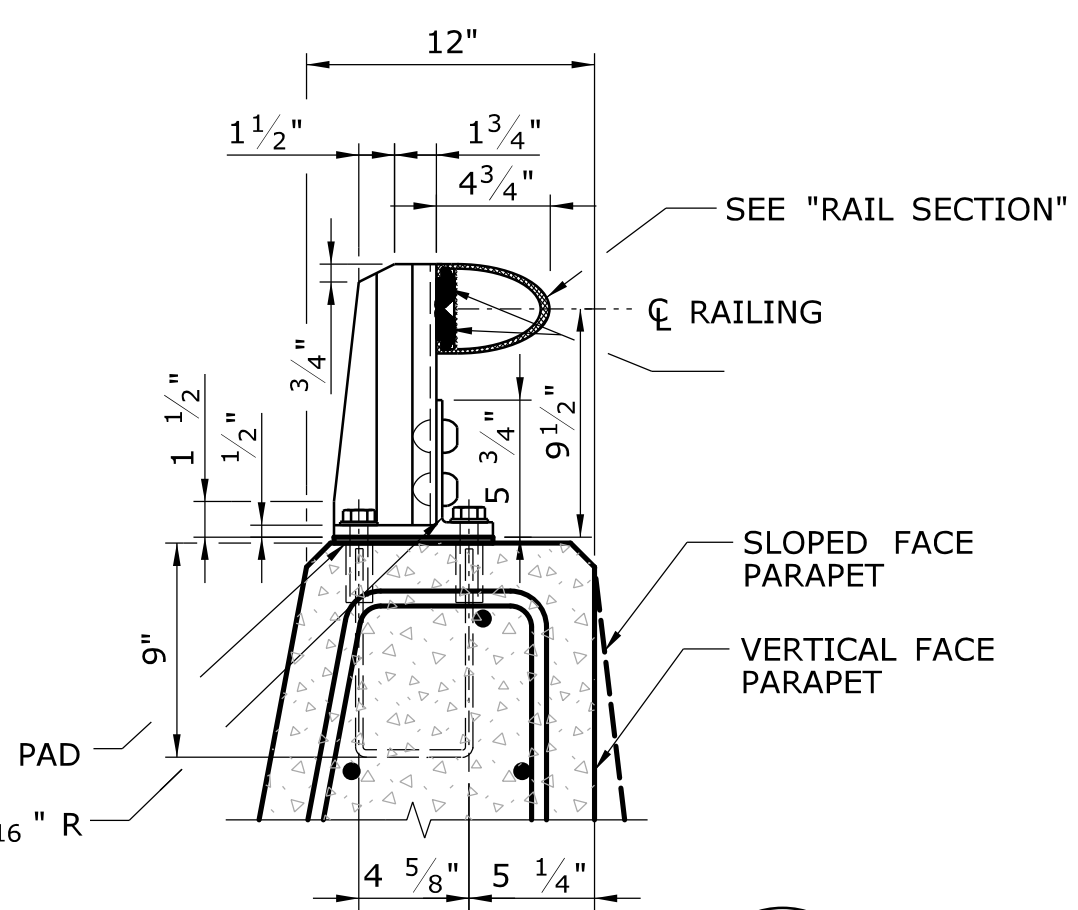
**DETAIL-END RAIL C**

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



**DETAIL-INTERIOR POST B**

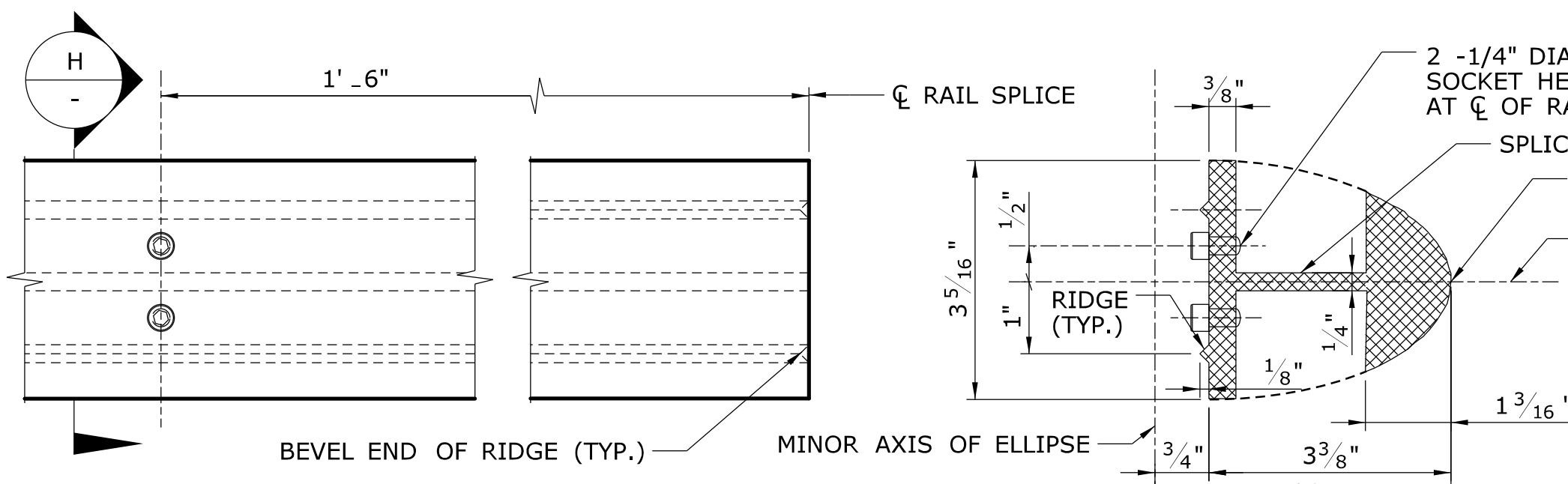
SCALE: 1 1/2" = 1'-0"



**DETAIL-INTERIOR POST F**

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

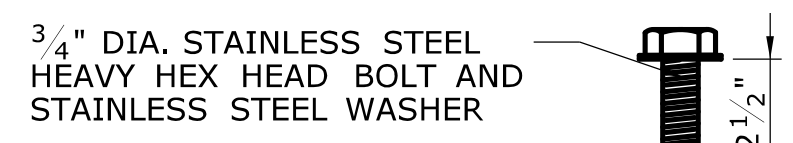
NOTE A:  
ALTERNATIVELY, 2 -1/2" LONG CLOSE END FERRULES PROVIDING A MINIMUM FULL LENGTH OF 2", MAY BE USED.



**ELEVATION OF SPLICE BAR**

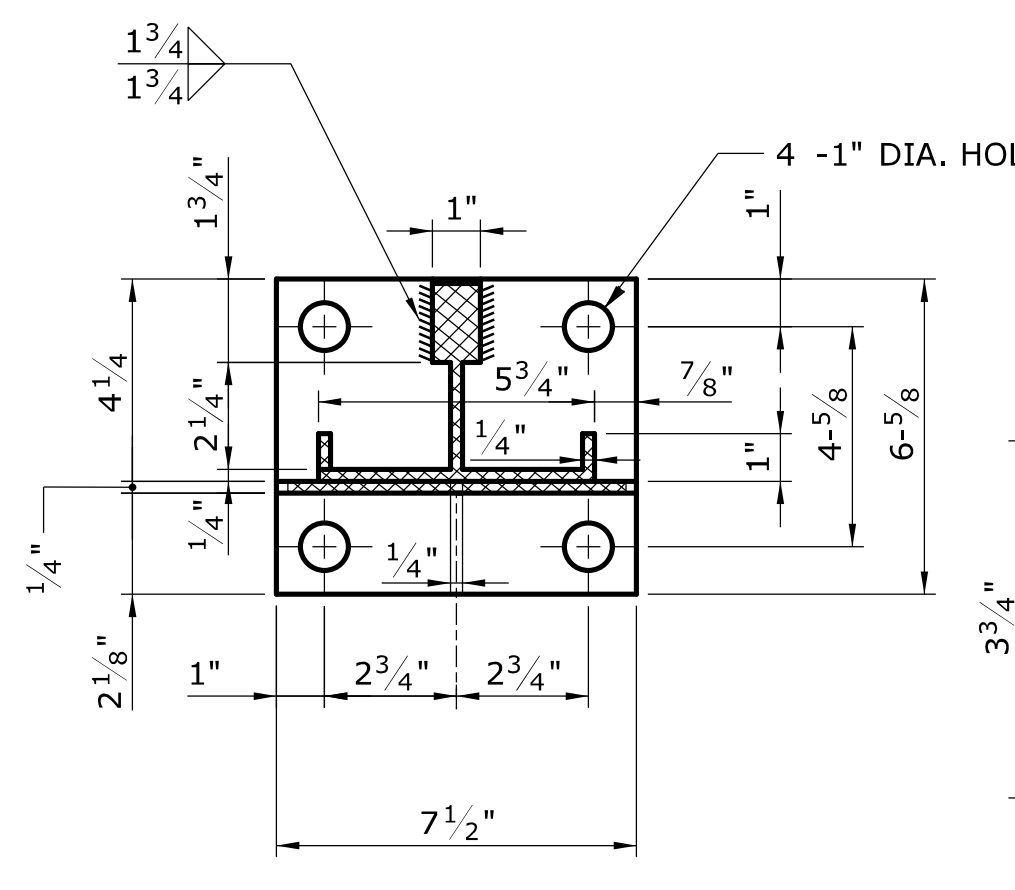
**RAIL SPLICE DETAILS**

SCALE: 6" = 1'-0"



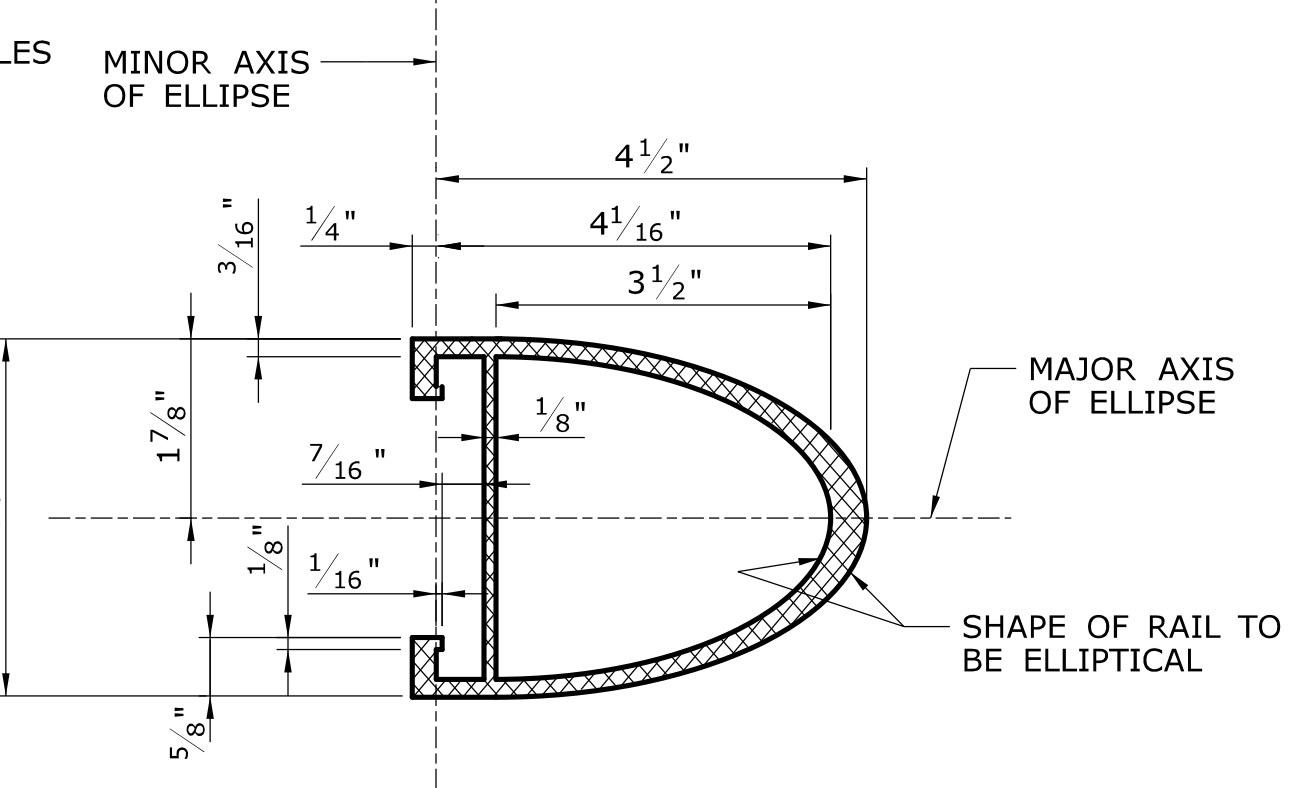
**BOLT FOR PRESET ANCHORAGE**

SCALE: 3" = 1'-0"



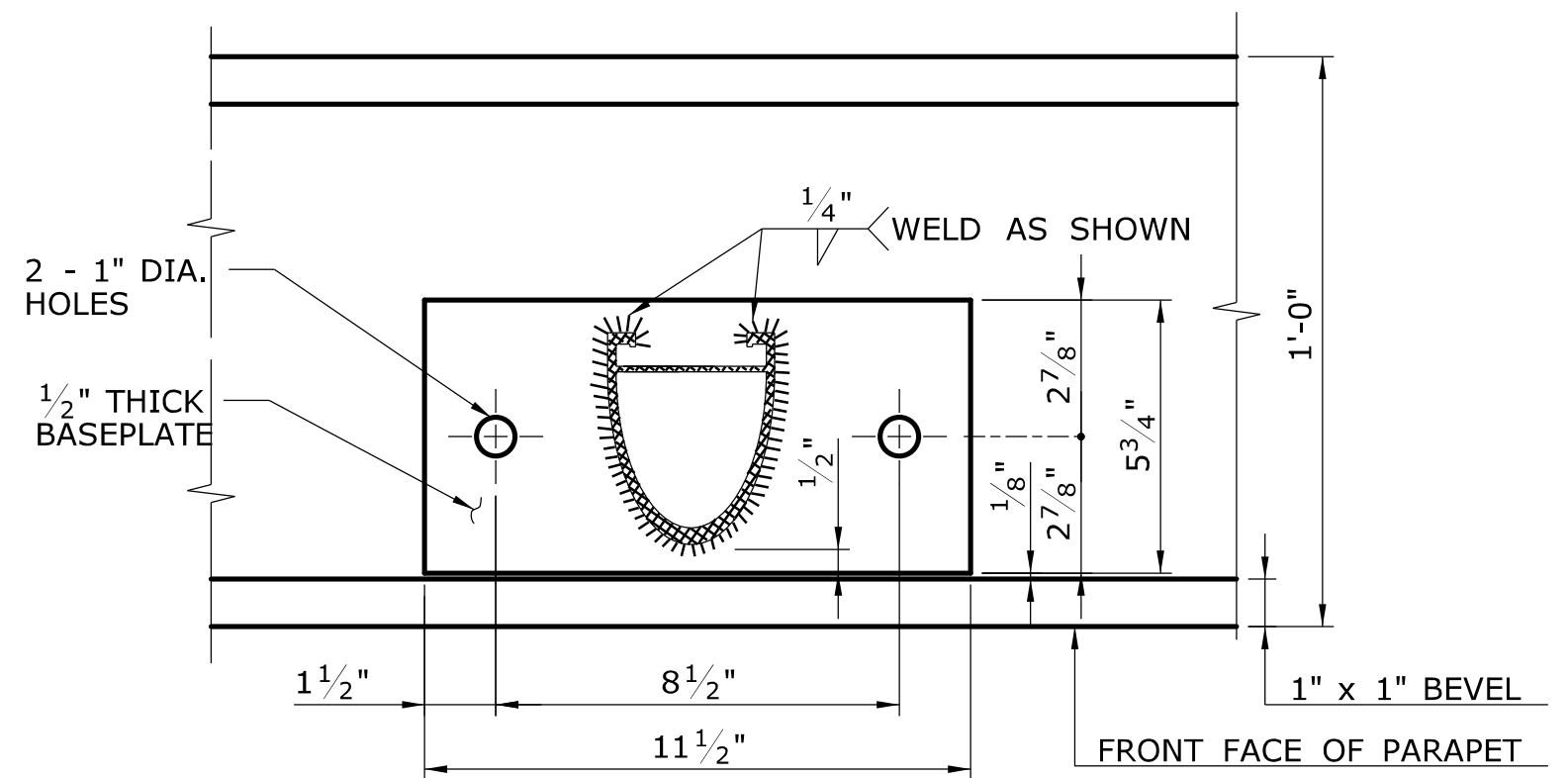
**SECTION E**

SCALE: 3" = 1'-0"



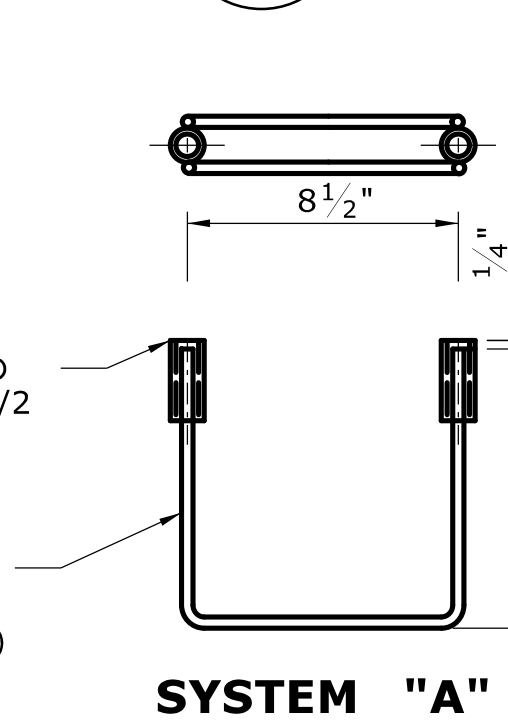
**RAIL SECTION**

SCALE: 6" = 1'-0"

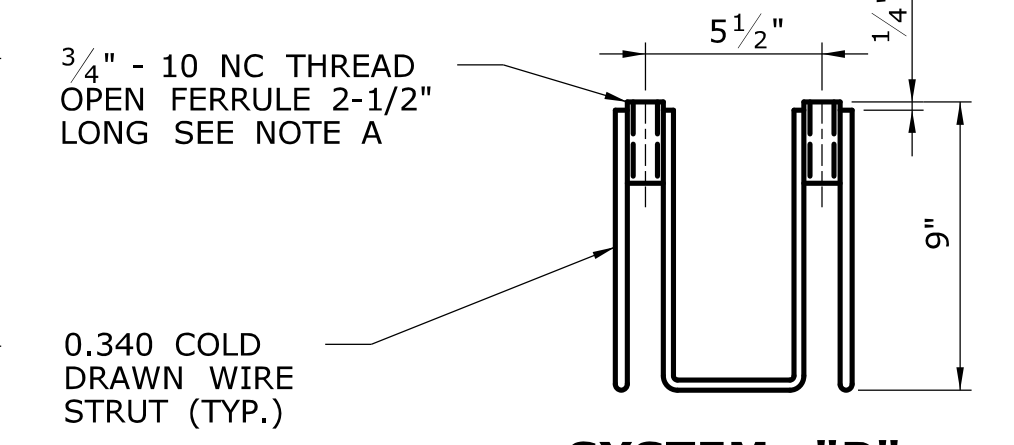


**SECTION-END RAIL D**

SCALE: 3" = 1'-0"



**SYSTEM "A"**



**SYSTEM "B"**

**PRESET ANCHORAGE DETAILS**

NOTES:

N.T.S.

ALUMINUM WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE-ALUMINUM", ANS/AWS D1.2.

RIVETING SHALL BE DONE IN ACCORDANCE WITH ARTICLE 6.5 - RIVETING OF THE AASHTO SPECIFICATIONS FOR ALUMINUM STRUCTURES".

METAL BRIDGE RAIL: THE RAILING POSTS, POST CONNECTION DEVICES, SPLICE BARS AND RAILS SHALL BE EXTRUDED ALUMINUM AND CONFORM TO THE REQUIREMENTS OF ASTM B221, ALUMINUM ALLOY 6061-T6 OR 6005-T5.

SOCKET HEAD CAP SCREWS SHALL BE STAINLESS STEEL AND CONFORM TO THE REQUIREMENTS OF ASTM F837, GROUP 1 (ANSI TYPE 304).

ALL BOLTS SHALL BE STAINLESS STEEL AND CONFORMS TO THE REQUIREMENTS OF ASTM F593, GROUP 1, (ANSI TYPE 304). NUTS SHALL BE STAINLESS STEEL AND CONFORM TO THE REQUIREMENTS OF ASTM F594, GROUP 1. WASHERS SHALL BE STAINLESS AND CONFORM TO THE REQUIREMENTS OF ASTM A167, TYP302 THROUGH 305.

CONE POINT RIVETS SHALL CONFORM TO ASTM B316, ALUMINUM ALLOY 6061-T6 OR ASTM B221, ALUMINUM ALLOY 6061-T6.

LENGTHS OF RAIL ELEMENTS SHALL BE CONTINUOUS OVER FOUR RAIL POSTS WHEREVER POSSIBLE BUT IN NO CASE LESS THAN TWO. WELDING OF TWO OR MORE RAILS TO FORM AN ELEMENT WILL NOT BE ALLOWED. RAIL SPLICES SHALL BE LOCATED IN RAIL PANELS OVER OPEN JOINTS IN PARAPETS. SPLICE BARS SHALL HAVE A SLIDING FIT IN THE RAIL SECTIONS.

ALUMINUM RAILINGS SHALL BE CAREFULLY ADJUSTED PRIOR TO FIXING IN PLACE TO INSURE PROPER MATCHING AT ABUTTING JOINTS AND CORRECT ALIGNMENT AND CURVATURE THROUGHOUT THEIR LENGTH. AFTER INSTALLATION, ALL RAILS AND POSTS SHALL BE FREE OF BURRS, SHARP EDGES AND IRREGULARITIES.

PRESET ANCHORAGES: THE WIRE STRUTS SHALL BE COLD-DRAWN AND CONFORM TO ASTM A510, GRADE 1030. THE FERRULES SHALL CONFORM TO ASTM 108, GRADE 12L14. AFTER FABRICATION, THE PRESET ANCHORAGES SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153. THE BOLTS SHALL BE "FREE RUNNING" IN THE FERRULES AFTER GALVANIZATION.

THE ANCHORAGE ASSEMBLIES SHALL BE INSTALLED PERPENDICULAR TO THE GRADE OF THE BRIDGE DECK. THE ANCHORAGES SHALL BE FIRMLY AND ACCURATELY HELD IN POSITION PRIOR TO AND DURING THE PLACING OF CONCRETE.

MOLDED PADS: MOLDED PADS SHALL BE MANUFACTURED FROM NEW UNVULCANIZED ELASTOMER AND UNUSED SYNTHETIC FIBERS, WITH A WEIGHT PROPORTION OF FIBER CONTENT EQUAL TO APPROXIMATELY ONE-HALF OF THE TOTAL WEIGHT OF THE PAD.

ANODIZING: METAL BRIDGE RAIL SHALL NOT BE ANODIZED.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

DESIGNER/DRAFTER: -	CHECKED BY: -	SCALE AS NOTED
Plotted Date: 1/13/2010		

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

File name: ...METAL BRIDGE RAIL (HANDRAIL).dgn

OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:	TOWN:	PROJECT NO.:
DRAWING TITLE:	DRAWING NO.:	SHEET NO.:
<b>METAL BRIDGE RAIL HANDRAIL</b>		<b>\$\$\$</b>