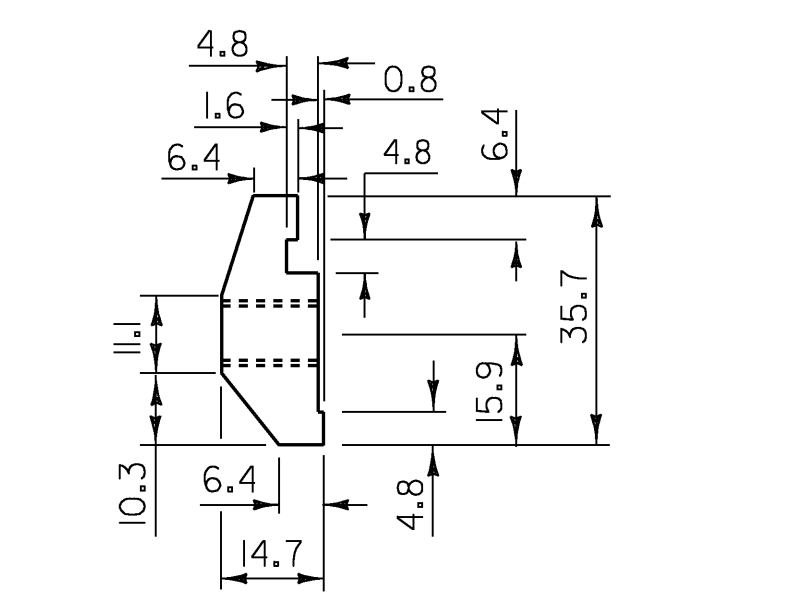
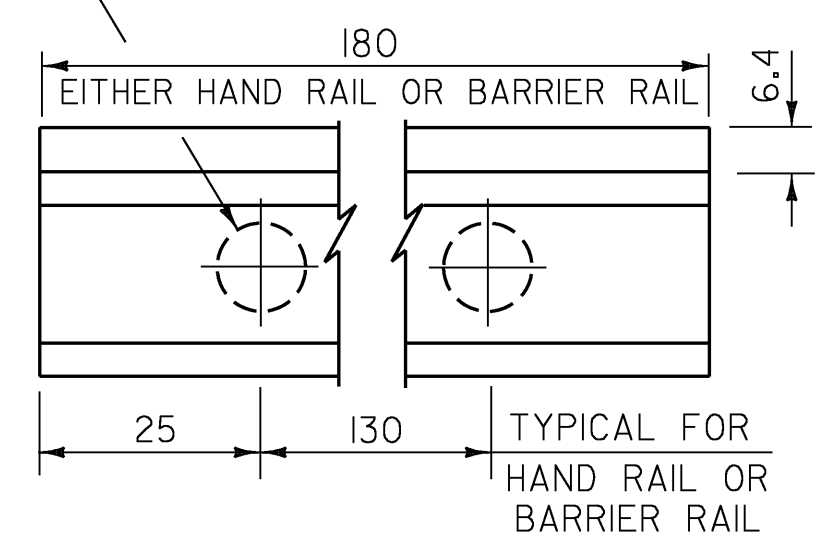


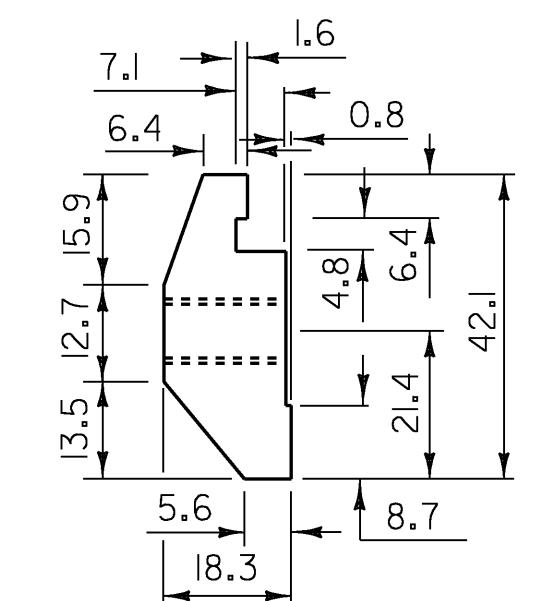
(2) M12 X 1.75 THREADED HOLES FOR (2) M12 X 1.75 X 25 STAINLESS STEEL HEX HEAD BOLTS WITH ANSIM12, REGULAR, ALUMINUM WASHERS. FOR HAND RAIL, USE EXTRA WASHERS OR M12 X 1.75 X 20 STAINLESS STEEL HEX HEAD BOLTS



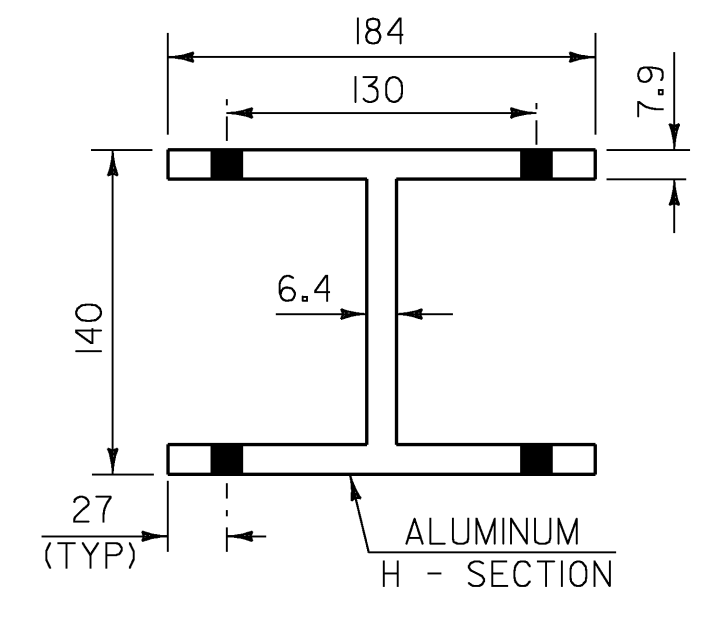
POST CONNECTION HAND RAIL SECTION



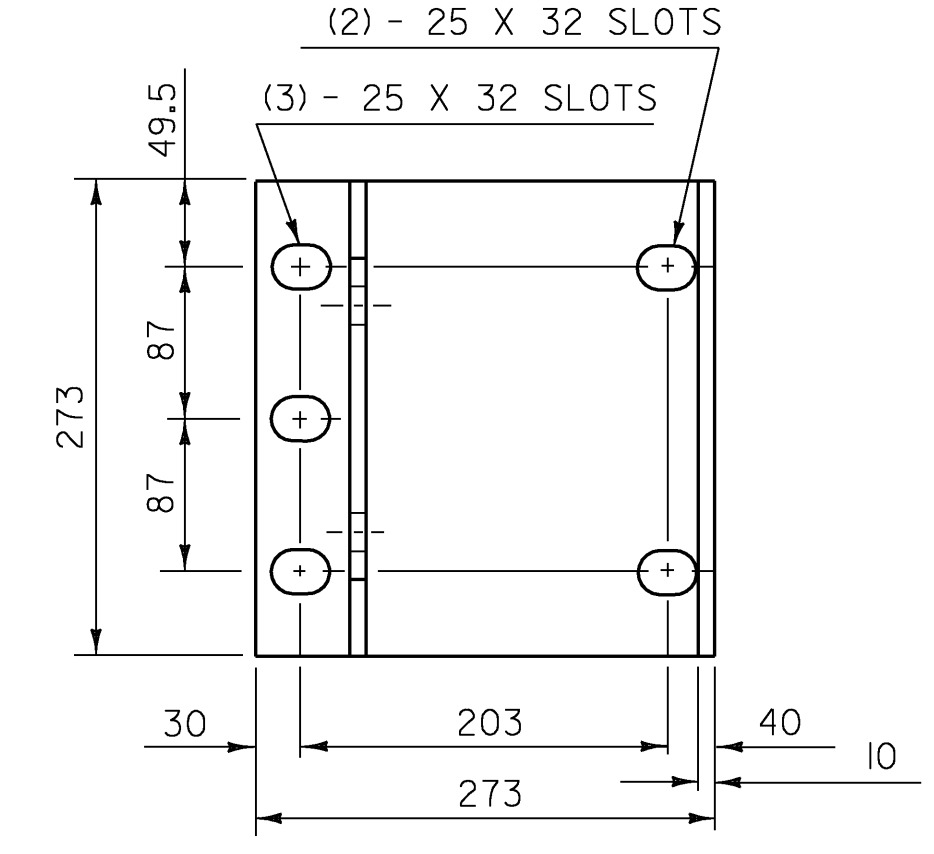
POST CONNECTION ELEVATION



POST CONNECTION BARRIER RAIL SECTION



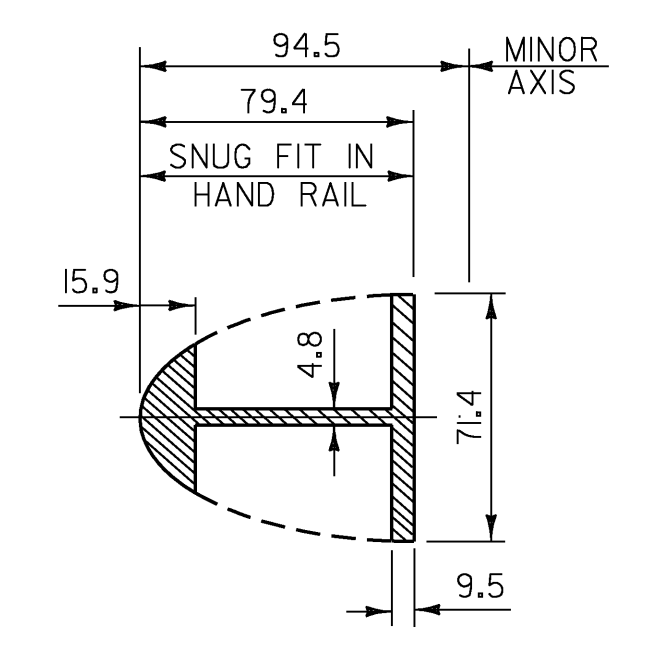
PLAN VIEW OF OFFSET BLOCK
(TO BE USED ON SUPERSTRUCTURE ON CURB SIDE)



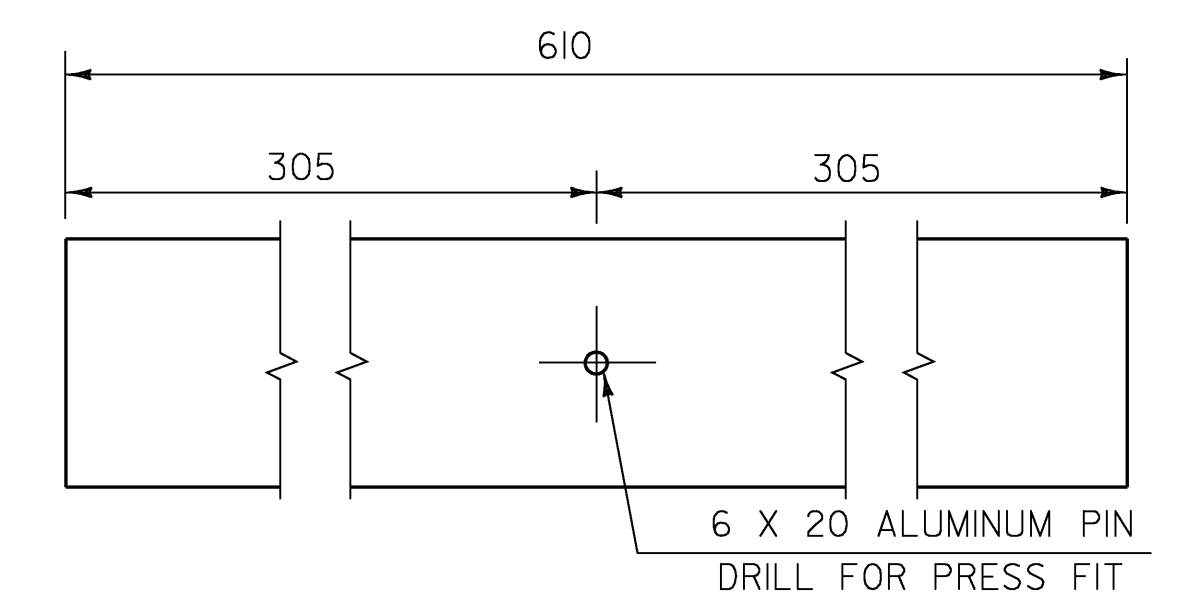
POST BASE PLAN

NOTES

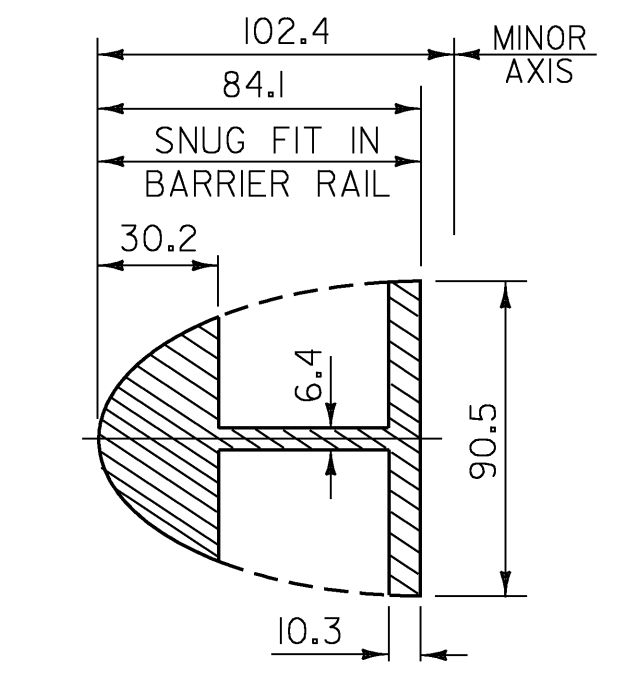
- ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO SUBSECTION 714.07.
- ALUMINUM POSTS, POST BASES, SPLICE BARS, OFFSET BLOCKS, CONNECTION BARS, RAILS, AND BALUSTER FRAMES SHALL CONFORM TO ASTM B 221M ALLOY 6061-T6 OR ALLOY 6351-T5. MINIMUM YIELD STRENGTH $F_y = 240$ MPa.
- ALUMINUM BALUSTER TUBES SHALL CONFORM TO ASTM B 210M ALLOY 6061-T4 OR 6063-T4.
- ALUMINUM RAIL END CAPS SHALL CONFORM TO ASTM B 26/B 26M ALLOY 356-T6.
- THE POST, RAIL, AND OFFSET BLOCK CONNECTION BOLTS AND SET SCREWS SHALL CONFORM TO SUBSECTION 732.02 (b).
- THE ANCHOR PLATE FOR THE POST ANCHOR ASSEMBLY SHALL BE AASHTO M 270M/M 270 GRADE 250 OR HIGHER STRUCTURAL STEEL.
- WELDING SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 506.10.
- UNLESS OTHERWISE SPECIFIED, ANCHOR BOLTS SHALL BE CAST INTO THE CONCRETE AS DETAILED.
- WHENEVER FEASIBLE, BARRIER RAIL AND HAND RAIL SECTIONS SHALL BE FULL LENGTH SECTIONS (12 m +) AND WHEN PRACTICAL SHALL BE ATTACHED TO THREE POSTS. RAILS SHALL BE SPLICED AT EACH DECK JOINT AND INTERMITTENTLY AS REQUIRED. SPLICES SHALL OCCUR WITHIN THE SAME PANEL.
- ENDS OF RAILS SHALL BE CUT SQUARE AND GROUND FREE OF BURRS OR RAGGED EDGES. EXPOSED ENDS SHALL BE CAPPED.
- THE CONCRETE CONTACT SURFACE AT THE POST BASE SHALL BE BUSH HAMMERED AND/OR SHIMMED AS REQUIRED FOR PROPER POST ALIGNMENT. POST HEIGHT ADJUSTMENTS LESS THAN 6 mm SHALL BE WITH 2-mm AND 3-mm SHIMS. CORRECTIONS EXCEEDING 6 mm SHALL BE WITH EPOXY MORTAR. FABRIC BEARING PADS AND ANY REQUIRED SHIMS OR EPOXY MORTAR ARE INCIDENTAL TO THE UNIT PRICE BID FOR THE RAILING.
- SHIMS AND 3-mm FABRIC BEARING PADS SHALL BE 273 mm SQUARE WITH SLOTTED HOLES SIZED AND LOCATED THE SAME AS THE POST BASE DETAIL. FABRIC BEARING PADS SHALL CONFORM TO SUBSECTION 731.01 OR 731.02, SHIM MATERIAL SHALL BE ASTM B 209M ALLOY 1100-0.
- EXTRUDED SECTIONS ARE DETAILED TO COMPLY WITH CURRENT AASHTO-AGC-ARTBA STANDARDS. MINOR VARIATIONS OF THE DETAILS SHOWN MAY BE CONSIDERED PROVIDING THEY DO NOT REDUCE THE STRENGTH CAPACITY OF THE RAIL SYSTEM.
- ALUMINUM WASHERS SHALL BE ASTM B209M ALLOY ACLAD 2024-T4.
- THE RAILING SYSTEM AND ASSOCIATED HARDWARE SHALL BE ANODIZED TO A BLACK SATIN FINISH, SEE SPECIAL PROVISIONS.



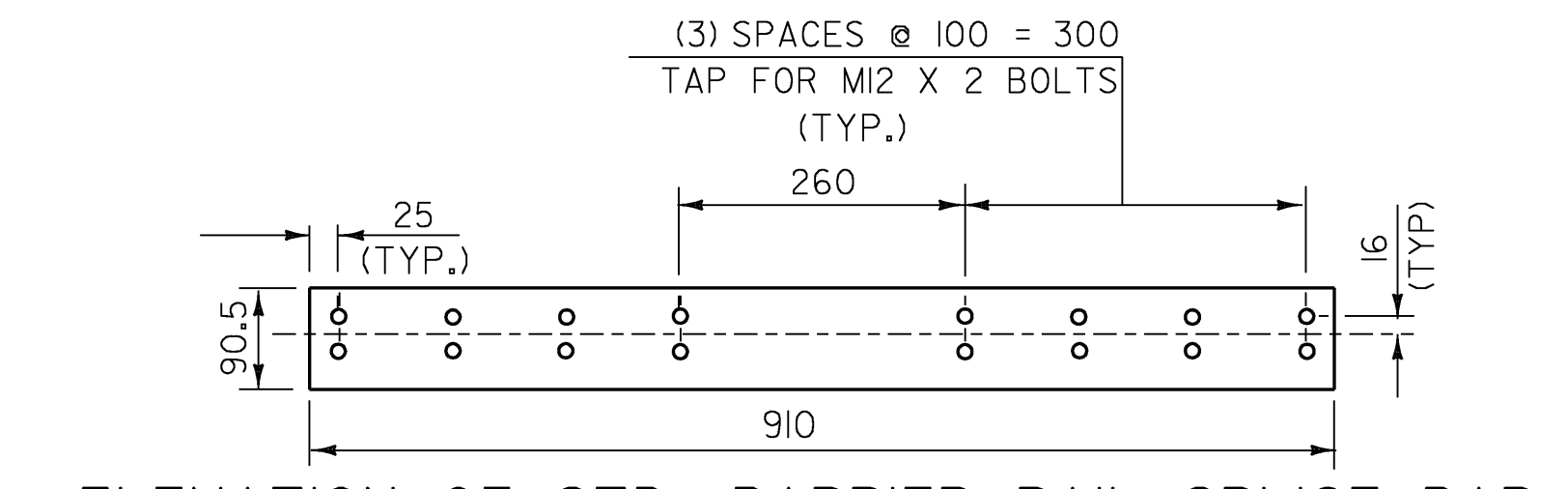
HAND RAIL SPLICE SECTION



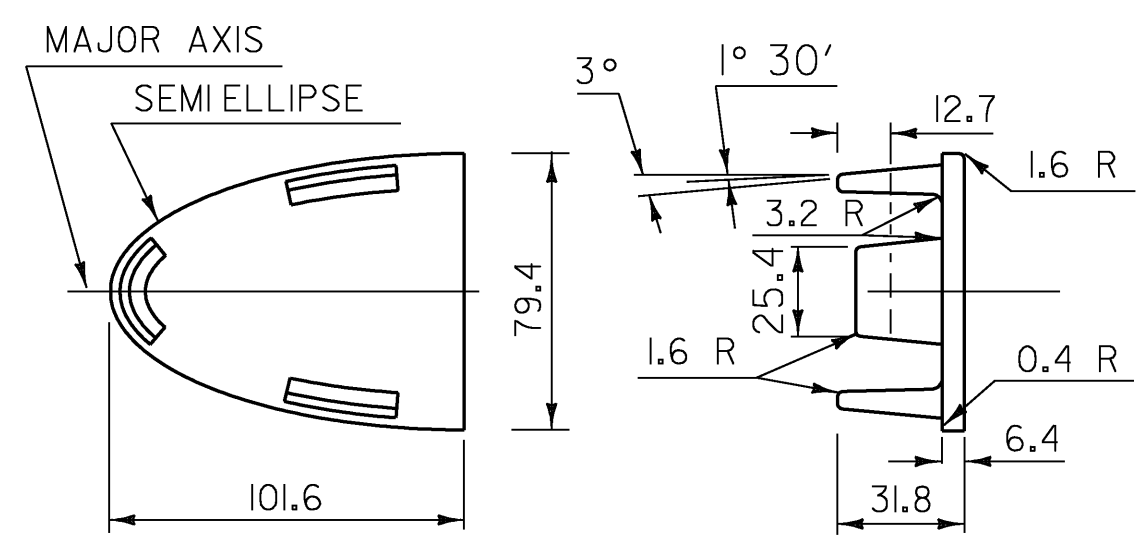
ELEVATION OF HAND RAIL SPLICE BAR



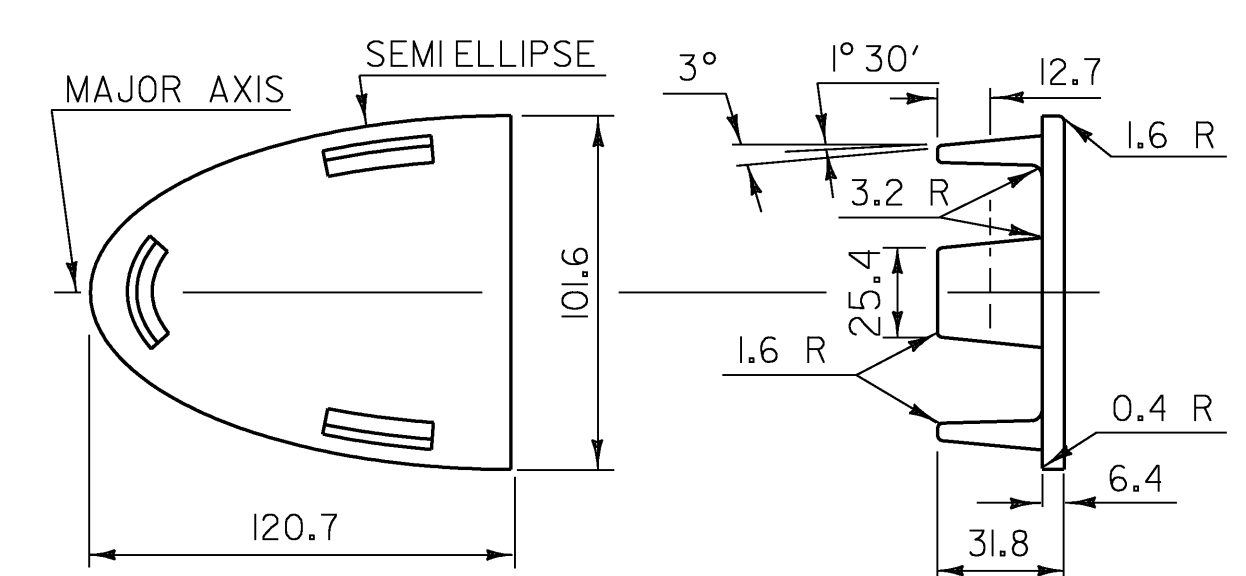
BARRIER RAIL SPLICE SECTION



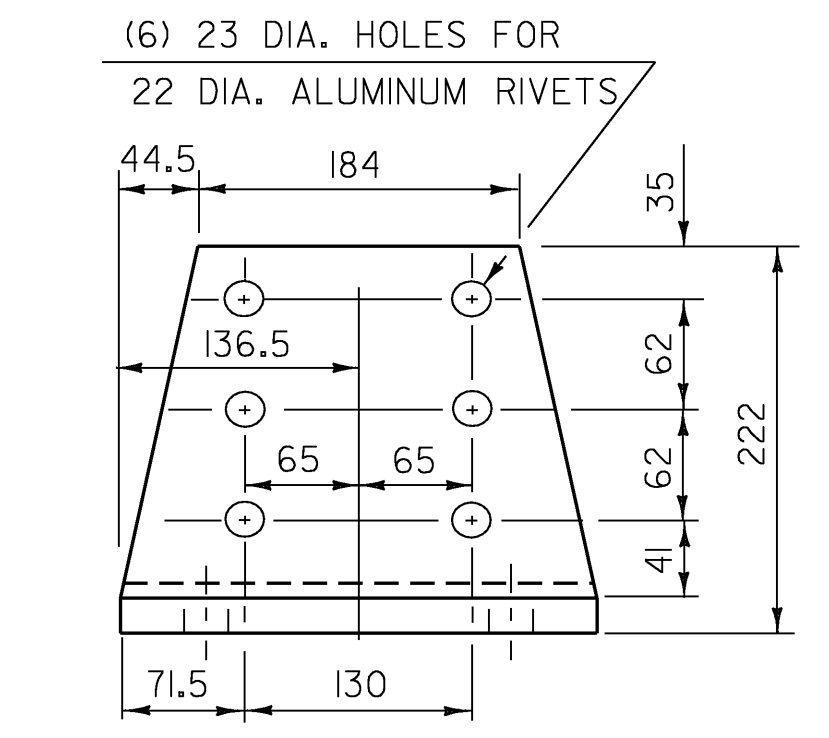
ELEVATION OF STD. BARRIER RAIL SPLICE BAR (FROM BACK)



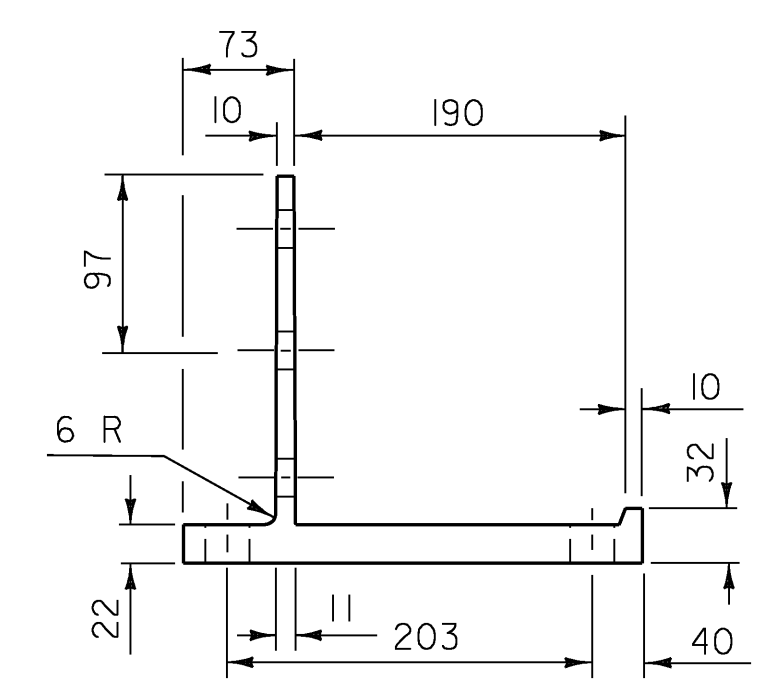
HAND RAIL END CAP



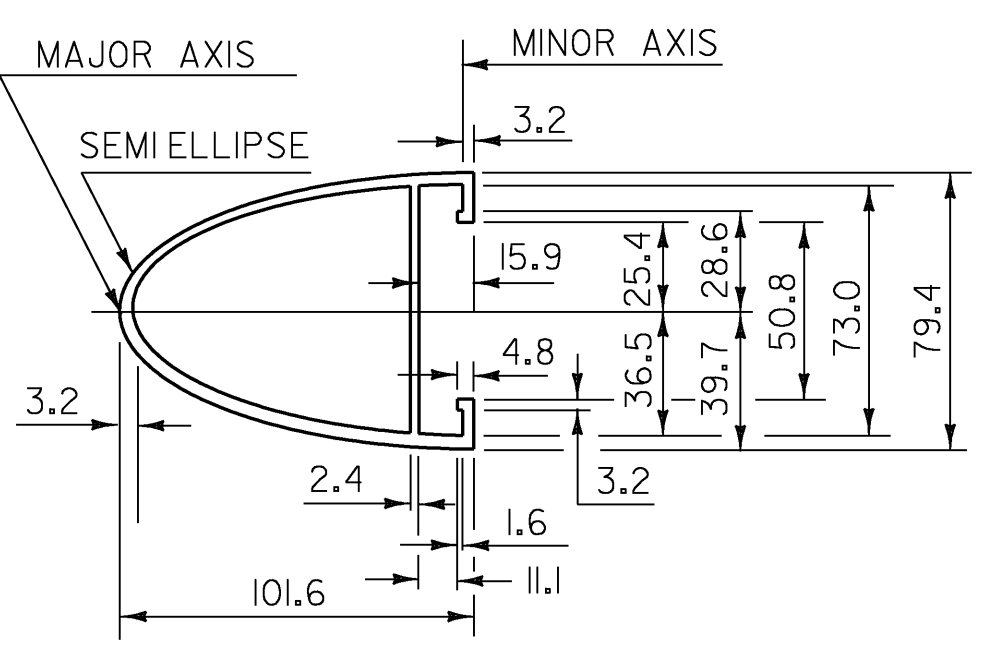
BARRIER RAIL END CAP



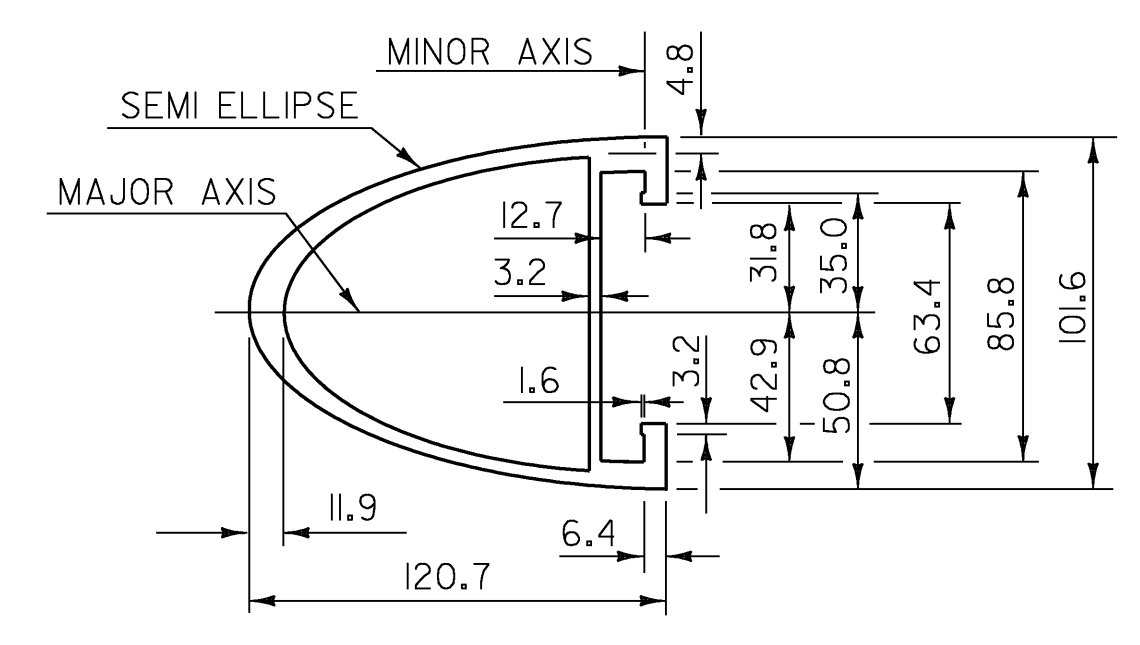
POST BASE FRONT ELEVATION



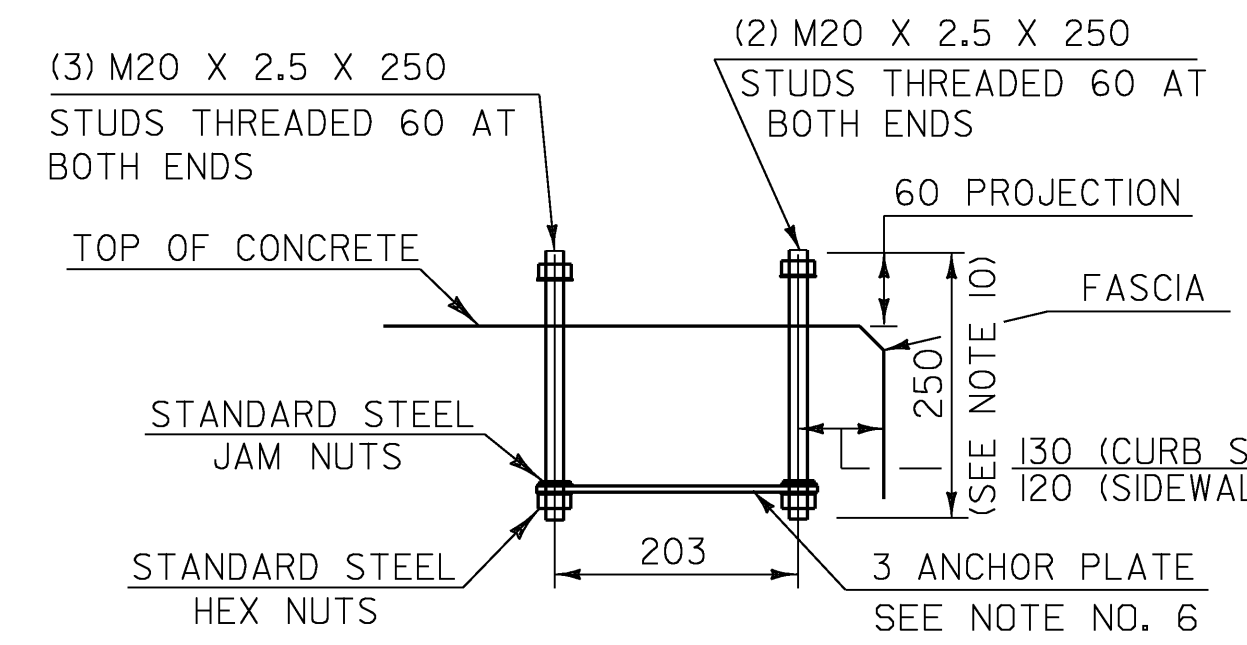
POST BASE SECTION



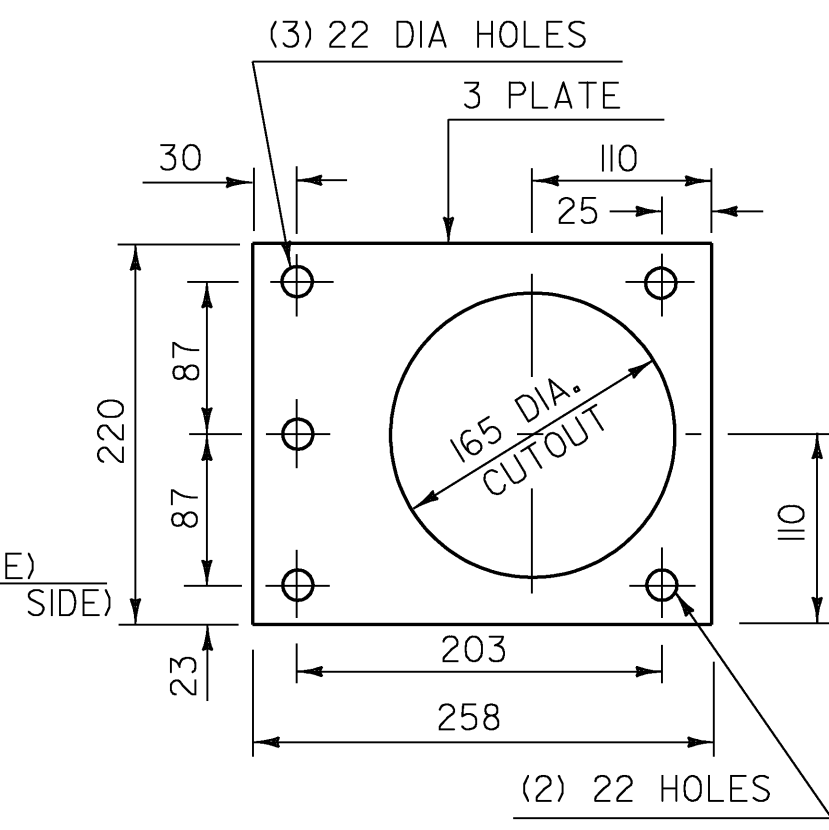
HAND RAIL SECTION



BARRIER RAIL SECTION
(SEE NEXT SHEET FOR ELEVATION OF BARRIER RAIL)



POST ANCHOR ASSEMBLY



ANCHOR PLATE

ALUMINUM BRIDGE RAILING DETAILS 2

PROJECT NAME:	LINCOLN	PLOT DATE:	29-JAN-2009
PROJECT NUMBER:	BRO 1445 (25)	DRAWN BY:	C. MOONEY
FILE NAME:	s96J266r-all.dgn	DESIGNED BY:	T. LACKY
ALUMINUM BRIDGE RAILING DETAILS 2		CHECKED BY:	T. LACKY
		SHEET	45 OF 58