

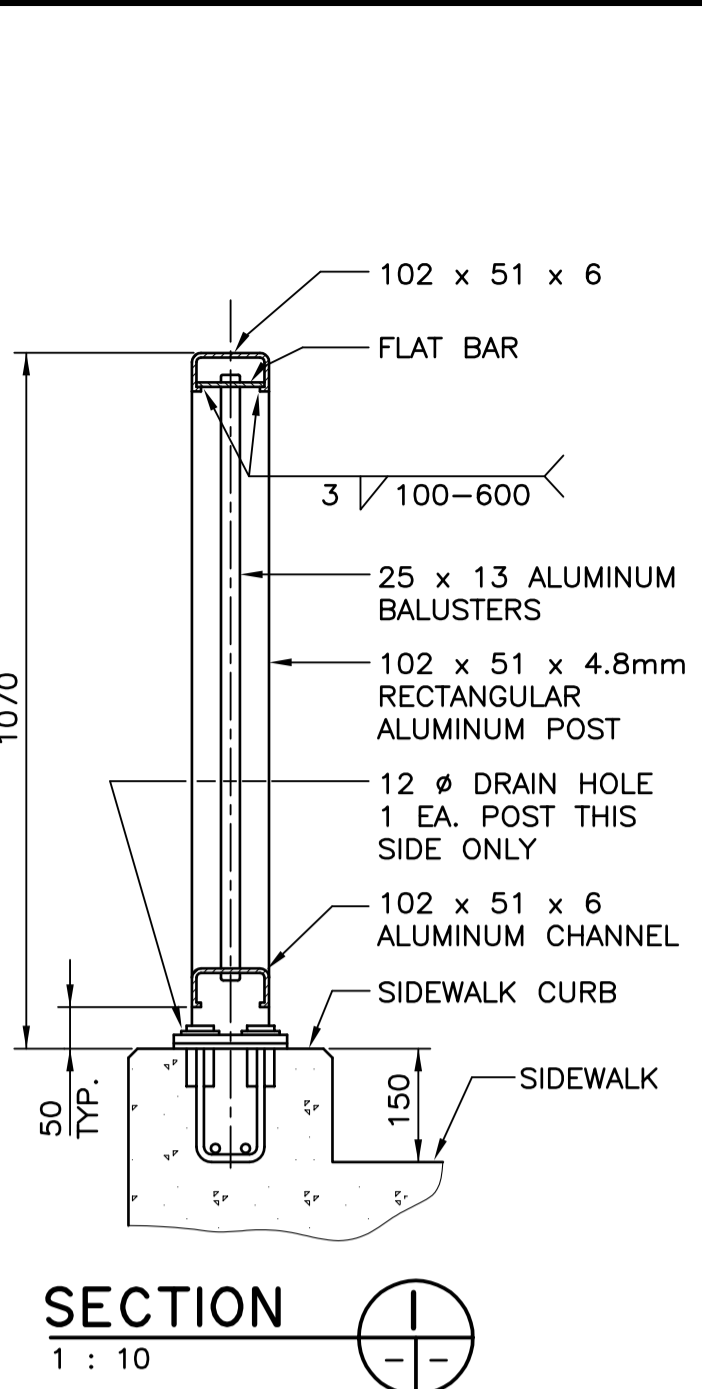
- NOTES:**
- ALUMINUM EXTRUSIONS SHALL CONFORM TO ASTM B221 ALLOY 6351-T6. ALUMINUM PLATES SHALL CONFORM TO ASTM B221 ALLOY 5083.
 - THE M.I.G. PROCESS OF WELDING SHALL BE USED.
 - S/S DENOTES STAINLESS STEEL.
 - RAIL POSTS SHALL BE SET VERTICAL.
 - PLACE MINIMUM OF ONE 3mm ALUMINUM SHIM UNDER EACH POST. ADDITIONAL SHIMS MAY BE REQUIRED FOR VERTICAL ALIGNMENT. THE SURFACE OF SHIMS IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH 2 COATS OF ALKALI RESISTANT BITUMINOUS PAINT MEETING THE REQUIREMENTS OF CGSB 31-GP-3M.
 - HANDRAIL ANCHOR INSERTS SHALL BE ACROW-RICHMOND TYPE DGR-1 s/s.

HANDRAIL POST SCHEDULE

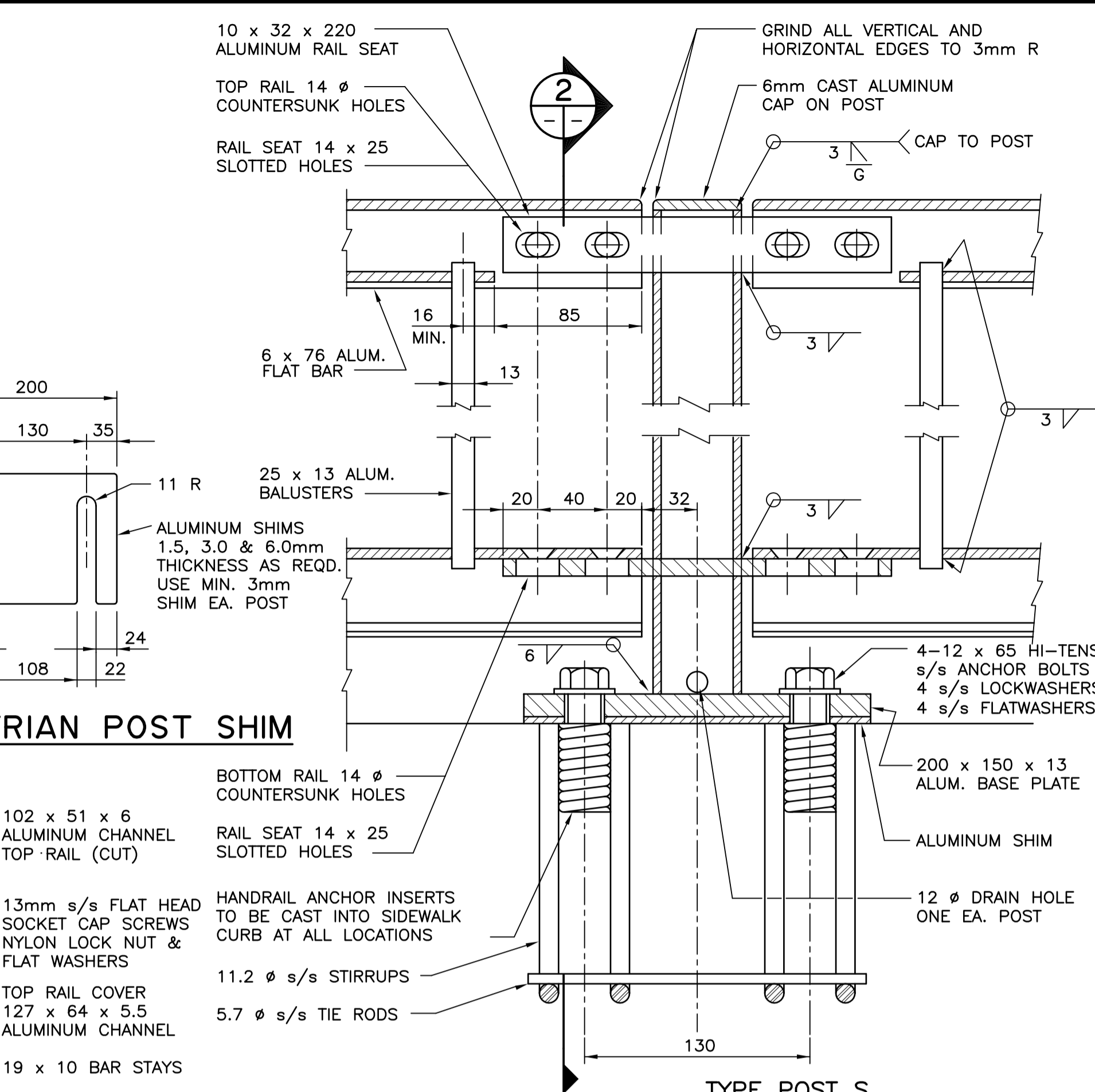
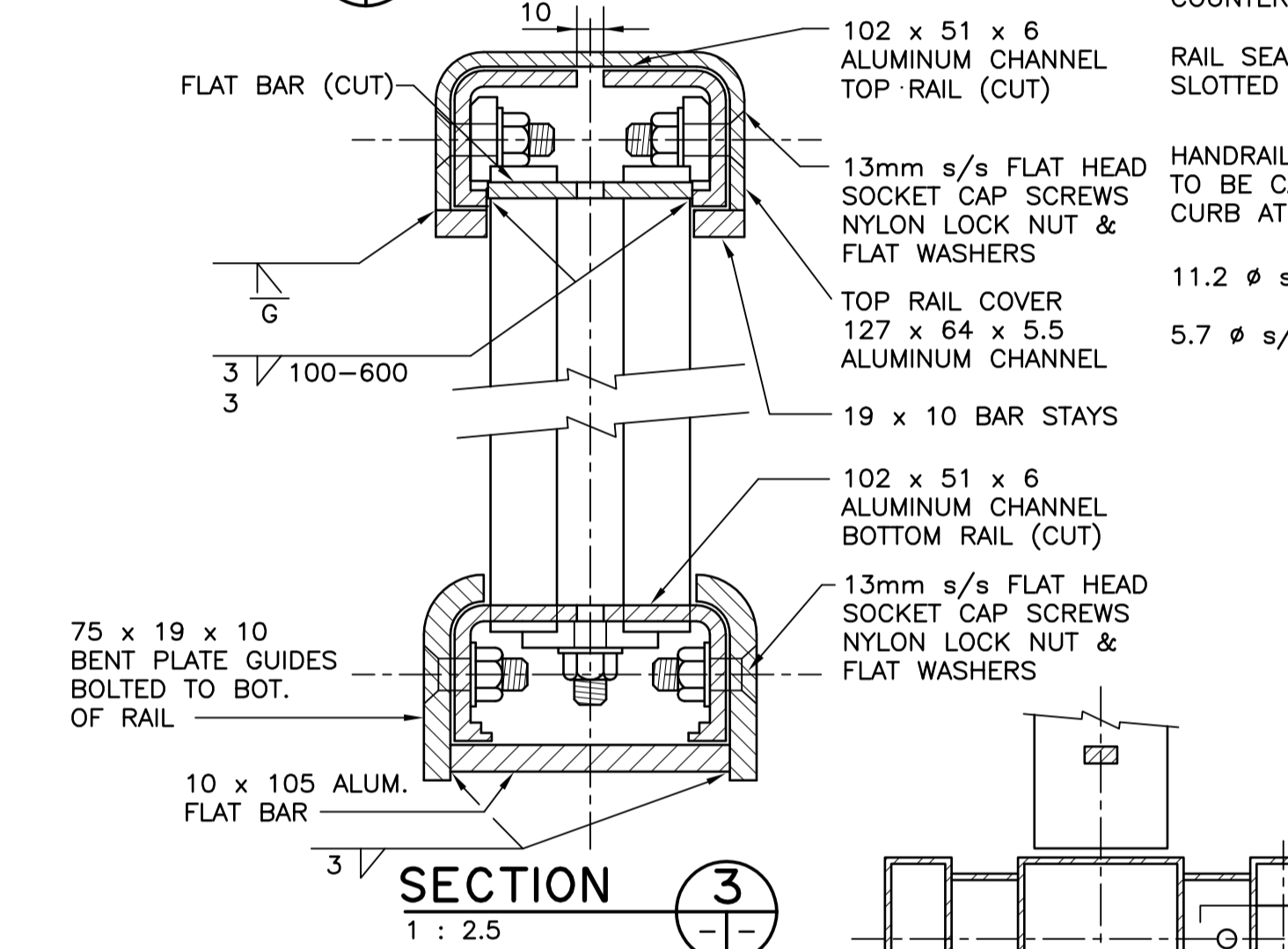
POST TYPE	NO. REQ'D	COMPONENT (PER POST)
S	61	POST TYPE S 1-HSS 102x51x4.8 CENTRAL POST 2-220x32x10 TOP RAIL SEAT 1-200x51x10 BOT. RAIL SEAT 1-6mm CAP ON POST
A	9	POST TYPE A 1-HSS 127x127x6.4 CENTRAL POST AND 2-HSS 127x51x6.4 SIDE POSTS 2-HSS 102x51x6.4x51 LONG TOP BRACE 2-HSS 102x51x6.4x51 LONG BOT. BRACE 4-140x32x10 TOP RAIL SEAT 2-95x32x10 TOP RAIL SEAT 2-140x51x10 BOT. RAIL SEAT 1-95x51x10 BOT. RAIL SEAT 1-6mm THICK CAP EACH POST 1-380x200x13 BASE PLATE (SEE POST TYPE S FOR SIMILAR BASE PLATE COMPONENTS)
B	9	POST TYPE B POST COMPONENTS SIMILAR TO POST TYPE A
C	1	POST TYPE C 1-HSS 127x127x6.4 CENTRAL POST AND 2-HSS 127x51x6.4 SIDE POSTS 2-HSS 127x51x6.4x51 LONG TOP BRACE 2-HSS 127x51x6.4x51 LONG BOT. BRACE 4-140x32x10 TOP RAIL SEAT 2-95x32x10 TOP RAIL SEAT 2-140x51x10 BOT. RAIL SEAT 1-95x51x10 BOT. RAIL SEAT 1-6mm THICK CAP EACH POST 1-380x200x13 BASE PLATE (SEE POST TYPE S FOR SIMILAR BASE PLATE COMPONENTS)
D	1	POST TYPE D 1-HSS 127x127x6.4 CENTRAL POST AND 2-HSS 127x51x6.4 SIDE POSTS 2-HSS 102x51x 6.4x44 MIN. LONG TOP BRACE 2-HSS 102x51x 6.4x44 MIN. LONG BOT. BRACE 4-140x32x10 TOP RAIL SEAT 2-140x51x10 BOT. RAIL SEAT 1-6mm THICK CAP EACH POST 1-380x200x13 BASE PLATE (SEE POST TYPE S FOR SIMILAR BASE PLATE COMPONENTS)
E	2	POST TYPE E POST COMPONENTS SIMILAR TO POST TYPE C
F	2	POST TYPE F 2-HSS 127x127x6.4 CENTRAL POSTS AND 3-HSS 127x51x6.4 SIDE POSTS 4-HSS 102x51x6.4x51 LONG TOP BRACE 4-HSS 102x51x6.4x51 LONG BOT. BRACE 2-140x32x10 BOT. RAIL SEAT 1-6mm THICK CAP EACH POST 1-650x200x13 BASE PLATE (SEE POST TYPE S FOR SIMILAR BASE PLATE COMPONENTS)

HANDRAIL PANEL SCHEDULE

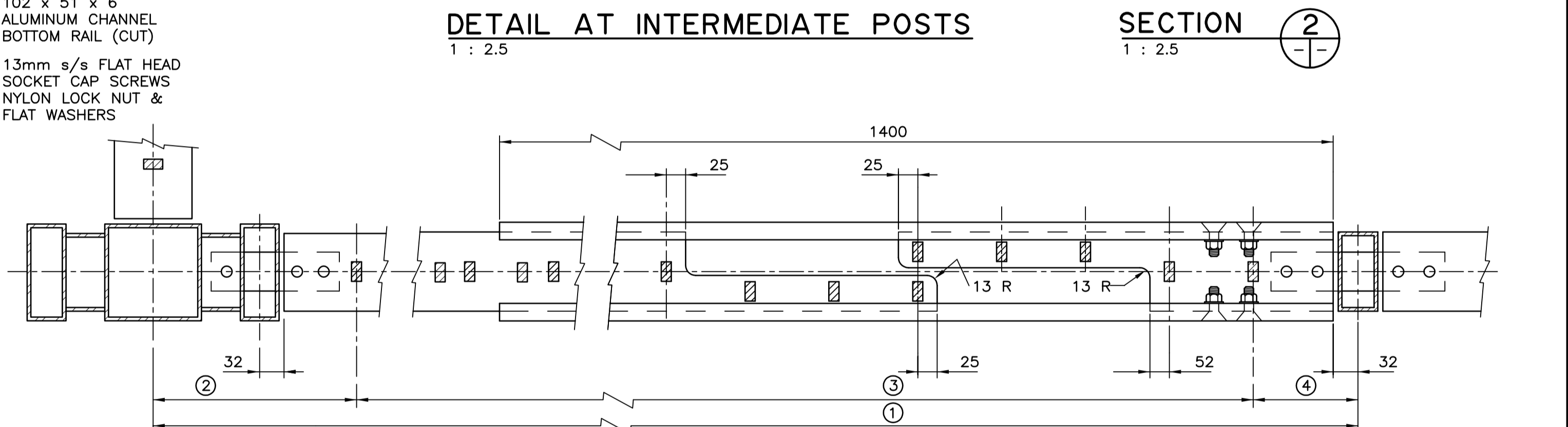
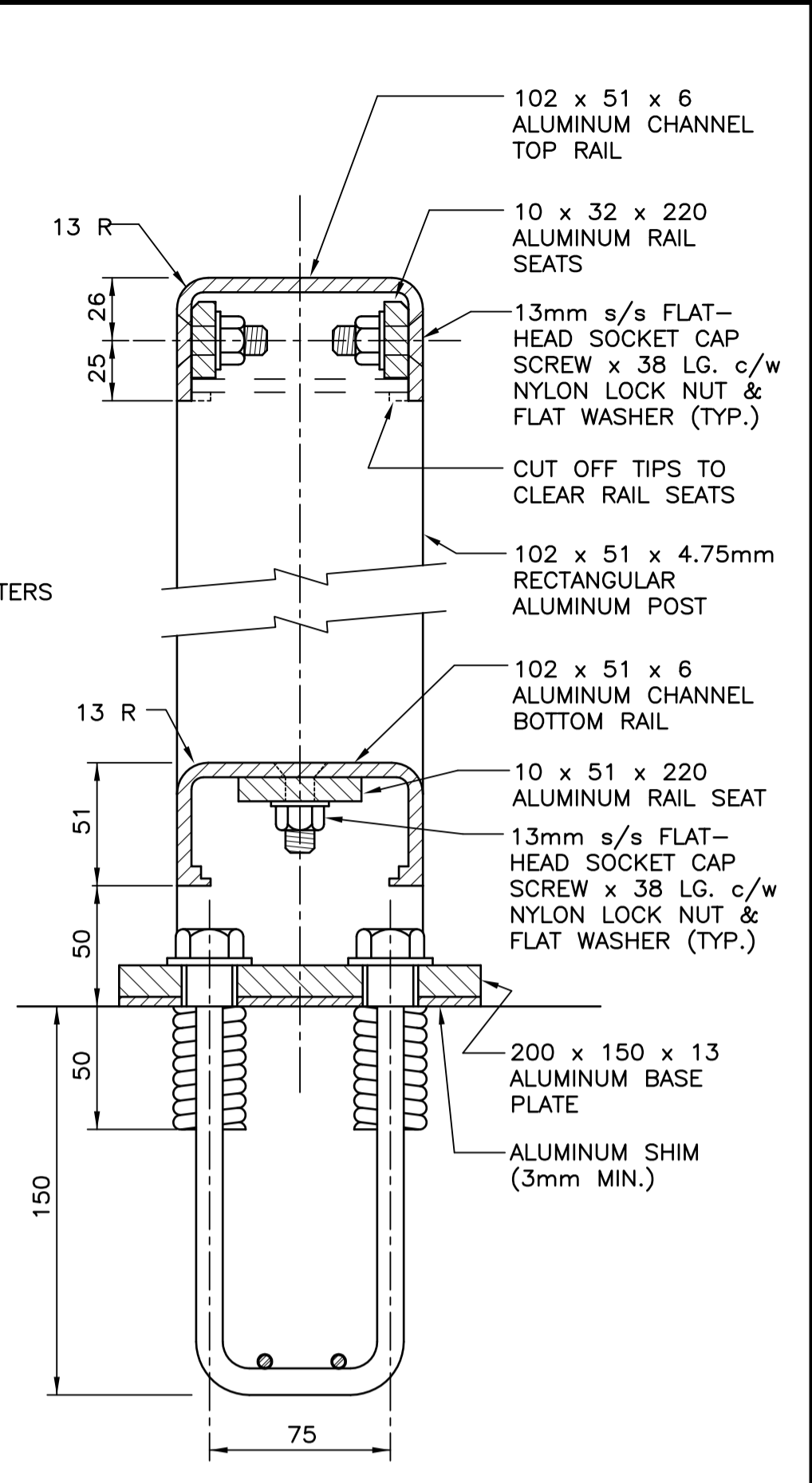
PANEL TYPE	NO. REQ'D	①	②	③	④	REMARKS
H1	47	2440	140	20 SP. @ 108 = 2160	140	
H2	1	2440	140	20 SP. @ 108 = 2160	140	LIFE PRESERVER PANEL
H3L	1	2440	140	20 SP. @ 108 = 2160	140	EXPANSION PANEL
H3R	1	2440	140	20 SP. @ 108 = 2160	140	EXPANSION PANEL
H4	9	500	165	2 SP. @ 85 = 170	165	
H5	4	2440	265	19 SP. @ 107± = 2035	140	
H6	4	2440	140	19 SP. @ 107± = 2035	265	
H7	1	2440	405	17 SP. @ 104± = 1770	265	
H8	2	2440	265	19 SP. @ 107± = 2035	140	
H9	1	2440	140	19 SP. @ 107± = 2035	265	
H10	4	2440	140	19 SP. @ 107± = 2035	265	
H11	1	2210±	140	20 SP. @ 97± = 1930	140	CONFIRM LENGTH PRIOR TO FABRICATION
H12	1	2000±	140	16 SP. @ 100± = 1595	265	CONFIRM LENGTH PRIOR TO FABRICATION
H13	1	2680±	265	24 SP. @ 95± = 2275	140	CONFIRM LENGTH PRIOR TO FABRICATION
H14	1	2710±	265	24 SP. @ 96± = 2305	140	CONFIRM LENGTH PRIOR TO FABRICATION
H15	1	2720±	265	24 SP. @ 97± = 2315	140	CONFIRM LENGTH PRIOR TO FABRICATION
H16	1	2440	265	19 SP. @ 107± = 2035	140	
H17	1	2160±	140	20 SP. @ 94 = 1880	140	CONFIRM LENGTH PRIOR TO FABRICATION
H18	1	2440	265	20 SP. @ 96± = 1910	265	
H19	1	2440	265	17 SP. @ 104± = 1770	405	



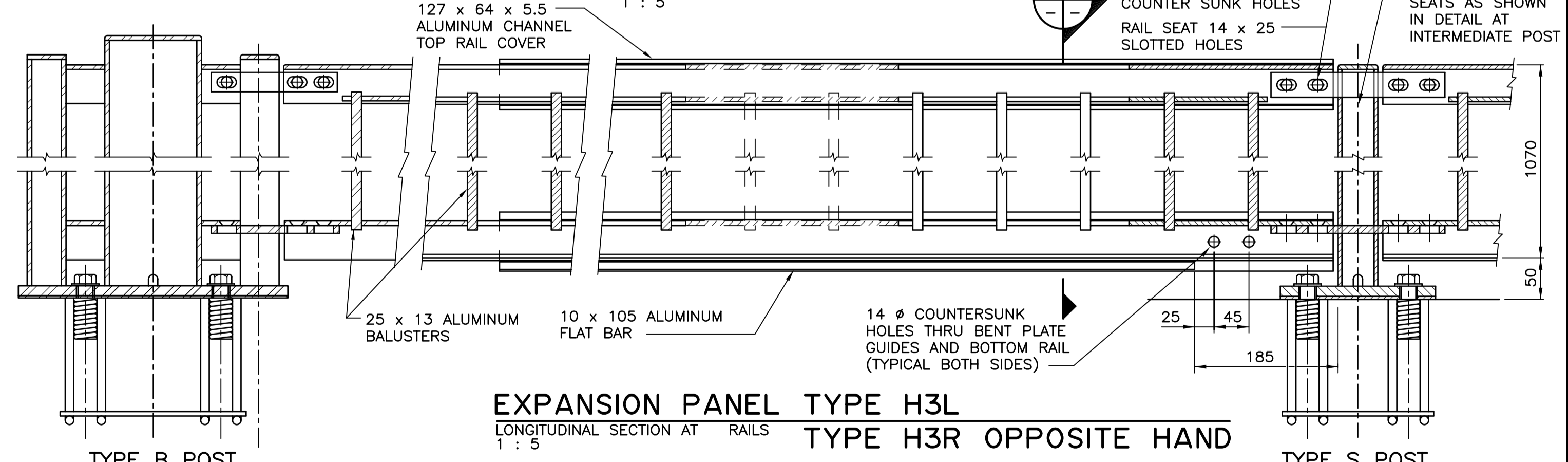
PEDESTRIAN POST SHIM
1 : 5



TYPE POST S
DETAIL AT INTERMEDIATE POSTS
1 : 2.5



EXPANSION PANEL TYPE H3L
LONGITUDINAL SECTION AT RAILS
1 : 5



B.M. ELEV.	DESIGNED BY A.S.D.				MARYLAND TWIN BRIDGES REHABILITATION PROJECT WEST BRIDGE REHABILITATION	CITY DRAWING NUMBER B108-05-28
	DRAWN BY N.B.G.					SHEET 28 OF 33
	CHECKED BY R.A.W.					ALUMINUM PEDESTRIAN HANDRAIL DETAILS
	APPROVED BY					CONSULTANT PROJECT NO. 04-3021-2000
2 ISSUED FOR TENDER 01/31/05 NBG	HOR. SCALE AS NOTED	RELEASED FOR CONSTRUCTION				
1 ISSUED FOR CITY REVIEW 12/17/04 RAW	VERTICAL	DATE DEC. 2004				
NO. REVISIONS	DATE BY	DATE				