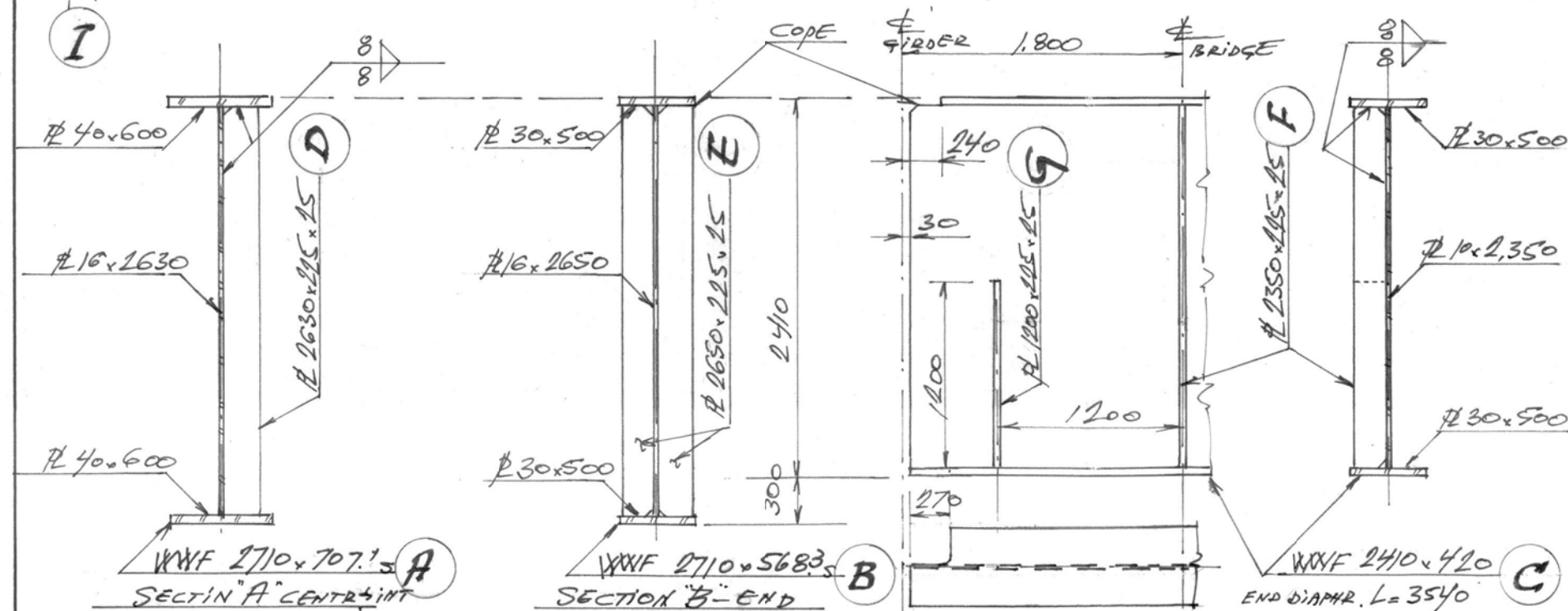
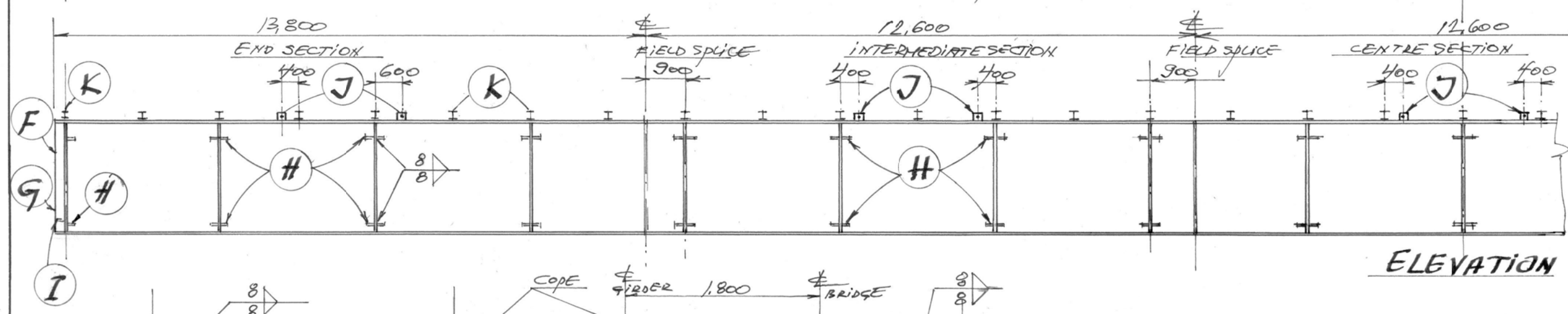
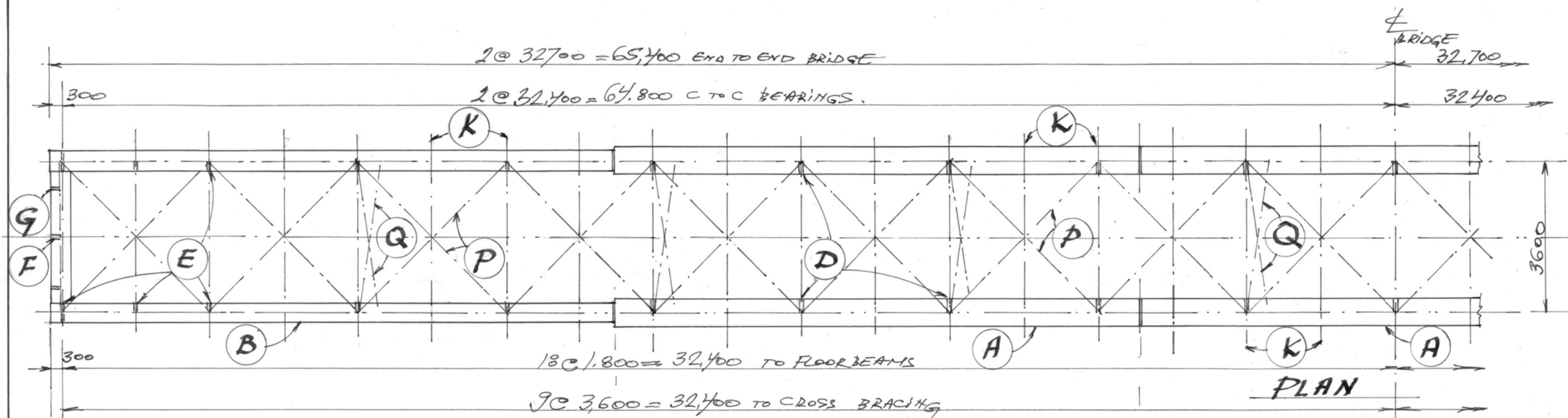




General notes:

- Design CAN/S6-00
- Live Load CL-625
- Dead Load 11.65 kN/m per girder

Material:

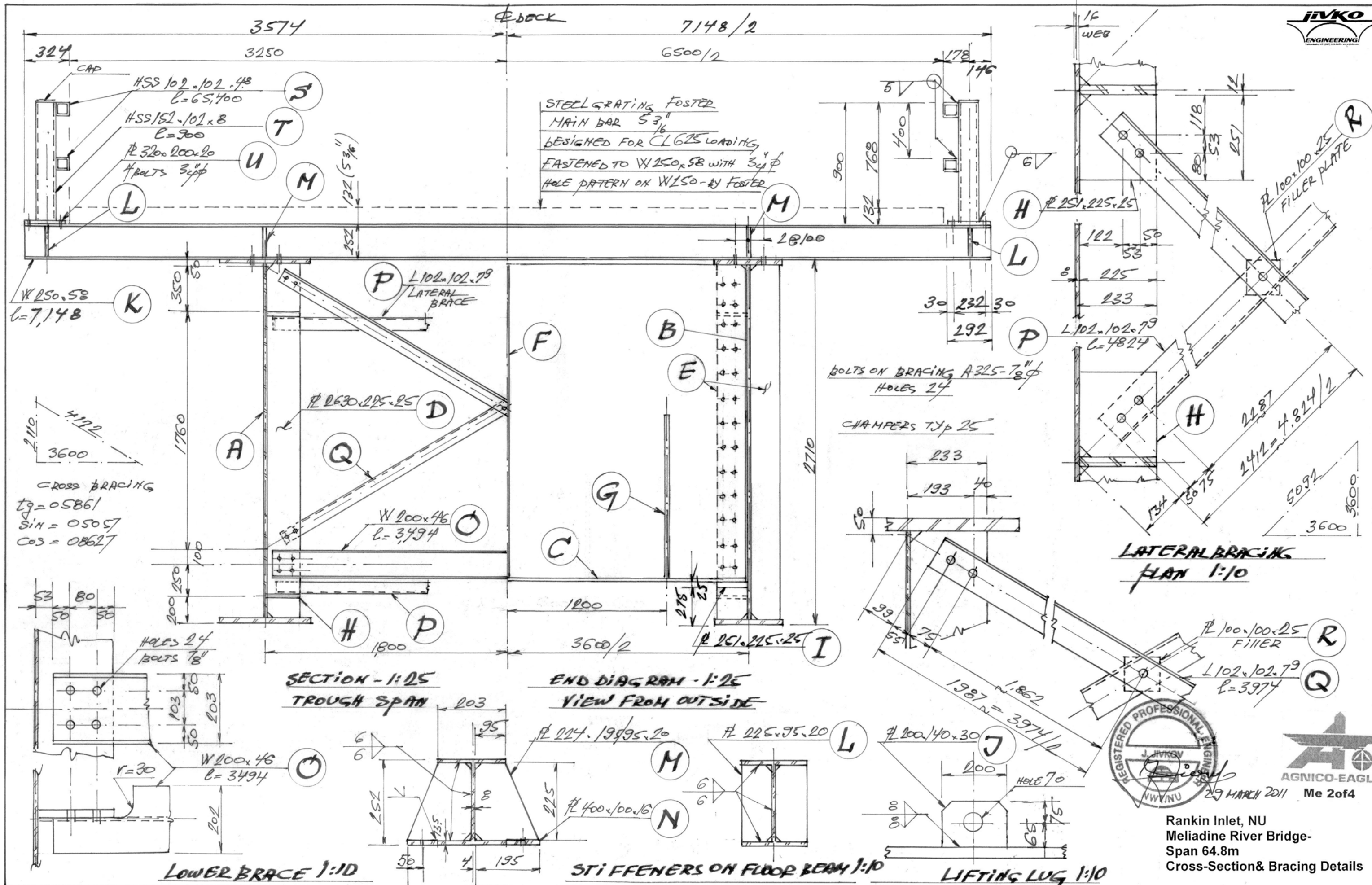
1. Material for bottom flanges and webs of girders and detail material welded to them to be G40.21M 350AT impact category 4 and are to be fabricated in accordance with S6-00, Clause 10.23 as FCM
2. All other steel not included above, (diaphragms, lateral and cross bracing, etc.) to conform to G40.21M 350A.
3. HSS for bridge rail to be G40.21M 350W hot dip galvanised. Bleeding holes are not allowed on base plates of the rail posts.
4. All bolted connections to be made with high strength bolts conforming to ASTM -A325. All bolts to be 7/8" diameter, except that bolts of 3/4" diameter are to be used for floor beams to top flange connections. Bolt holes to be drilled 2mm larger than specified bolts.
5. Girders are to meet the camber diagram shown on drawing 1



29. MARCH 2011



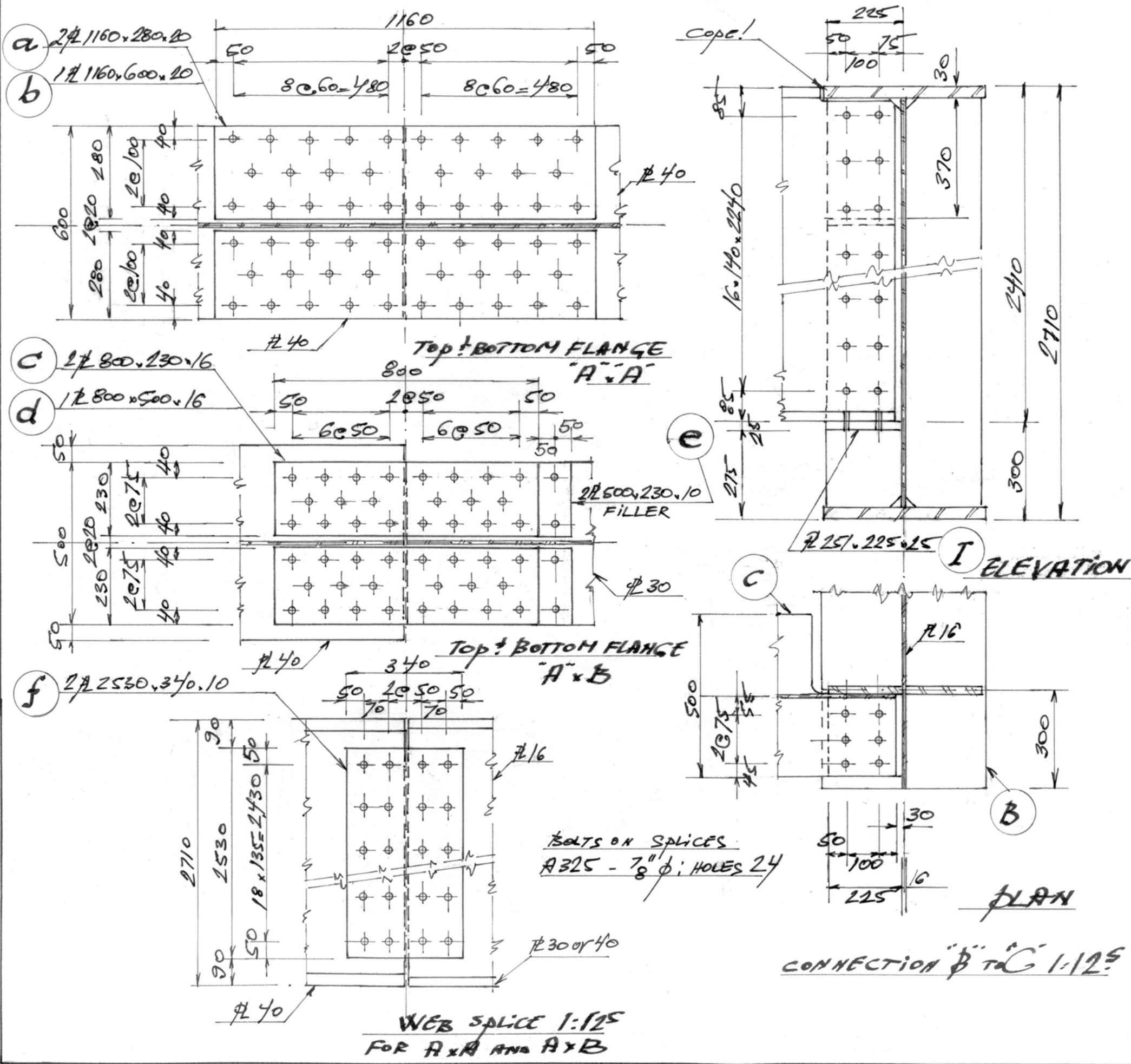
Rankin Inlet, NU
Meliadine River Bridge-
Span 64.8m
Girder Plan, Elevation, Sections
Camber & General Notes



Rankin Inlet, NU
Meliadine River Bridge-
Span 64.8m
Cross-Section & Bracing Details

MATERIAL

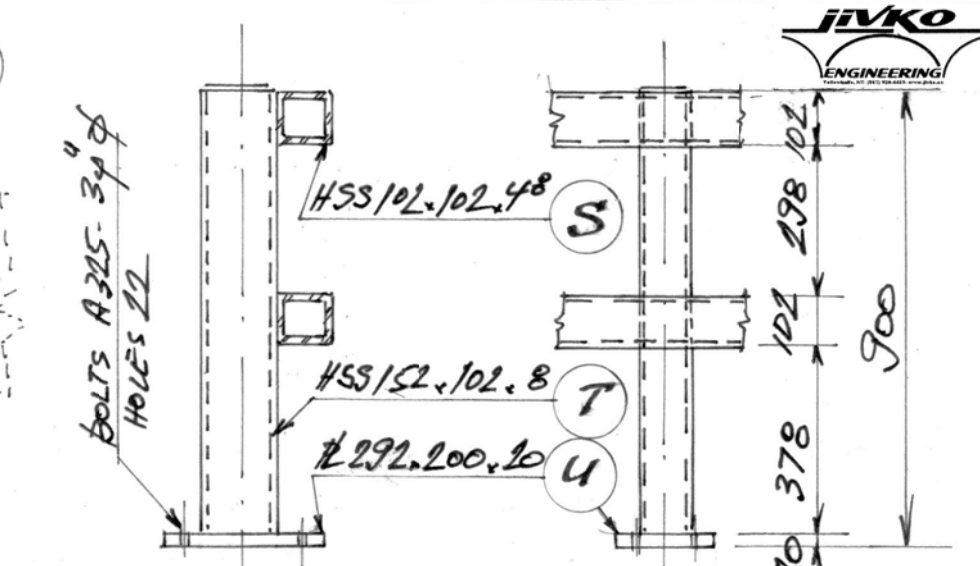
mark	Qty	Designation	Unit	Mass	L/A	Weight	Description
					m/m2	kg	
A	6	WWF 2710 x 707.1	kg/m	707.10	12.600	53,457	Centre Girder
B	4	WWF 2710 x 568.3	kg/m	568.30	13.800	31,370	End Girder
C	2	WWF 2410 x 420	kg/m	420.00	3.540	2,974	End Diaphragm
						87,801	
D	22	PL 2630 x 225 x 25	kg/m ²	196.25	0.592	2,556	Stiffener Girder A
E	24	PL 2650 x 225 x 25	kg/m ²	196.25	0.596	2,807	Stiffener Girder B
F	2	PL 2350 x 225 x 25	kg/m ²	196.25	0.529	208	Long Stiffener on C
G	4	PL 1200 x 225 x 25	kg/m ²	196.25	0.270	212	Short Stiffener on C
						5,783	
H	70	PL 251 x 225 x 25	kg/m ²	196.25	0.056	769	Gusset-Lat & Cr. Br.
I	4	PL 251 x 225 x 25	kg/m ²	196.25	0.056	44	Gusset on Diaph.
J	20	PL 200 x 140 x 30	kg/m ²	235.50	0.028	132	Lifting Lug
						945	
K+K1	41	W 250 x 58	kg/m	58.20	7.176	17,123	Floor Beam
L	156	PL 225 x 95 x 20	kg/m ²	157.00	0.021	514	Small Stiffener Fl. B.
M	156	PL 224 x 195/95 x 20	kg/m ²	157.00	0.033	808	Big Stiffener Fl. B.
N	156	PL 400 x 100 x 16	kg/m ²	125.60	0.040	784	Ext. Bot. Flange Fl. B.
						19,230	
O	8	W 200 x 46	kg/m	46.00	3.494	1,286	Lower W Brace
P	72	L 102 x 102 x 7.9	kg/m	12.20	4.824	4,237	Lateral Brace
Q	16	L 102 x 102 x 7.9	kg/m	12.20	3.974	776	Cross Brace
R	44	PL 100 x 100 x 25	kg/m ²	196.25	0.010	86	Spacer Plate
						6,385	
S	4	HSS 102 x 102 x 48	kg/m	14.10	65.400	3,689	Bridge Rail
T	74	HSS 152 x 102 x 8	kg/m	28.40	0.900	1,891	Rail Post
U	74	PL 320 x 200 x 20	kg/m ²	157.00	0.064	744	Rail Base Plate
						6,324	
V	2	L 102 x 102 x 7.9	kg/m	12.20	6.5	159	Ramp support
W	36	PL 90 x 30 x 25	kg/m ²	196.25	0.003	19	Ramp keeper bar
X	48	W 100 x 19	kg/m	19.00	0.886	808	Ramp main beam
Y	36	PL 2170 x 150 x 10	kg/m ²	78.50	0.326	920	Ramp top plate
Z	12	PL 2170 x 114 x 16	kg/m ²	125.60	0.247	373	Ramp face plate
						2,278	
a	16	PI 1160 x 280 x 20	kg/m ²	157.00	0.325	816	splice
b	8	PI 1160 x 600 x 20	kg/m ²	157.00	0.696	874	splice
c	16	PI 800 x 230 x 16	kg/m ²	125.60	0.184	370	splice
d	8	PI 800 x 500 x 16	kg/m ²	126.60	0.400	405	splice
e	16	PI 500 x 230 x 10	kg/m ²	78.50	0.115	144	splice
f	16	PI 2530 x 340 x 10	kg/m ²	78.50	0.860	1,080	splice
						3,690	
						132,435	



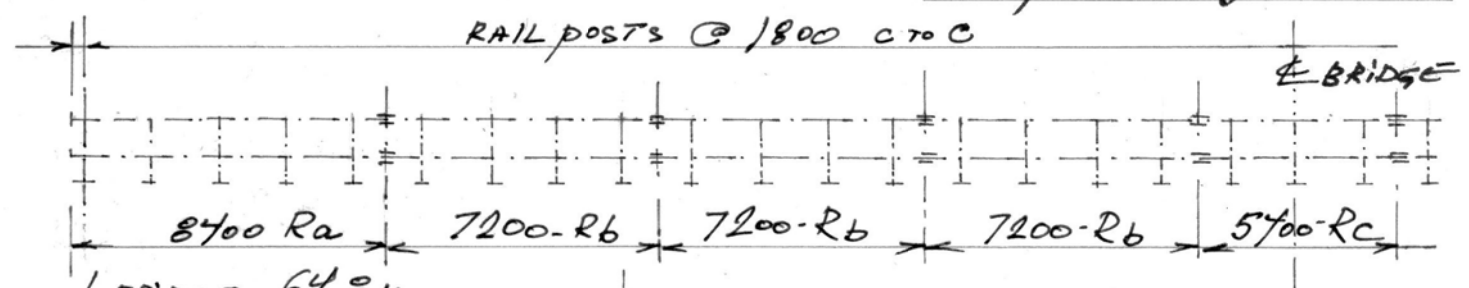
29 MARCH 2011

Rankin Inlet, NU
Meliadine River Bridge-Span
64.8m
Field Splices & Material Table

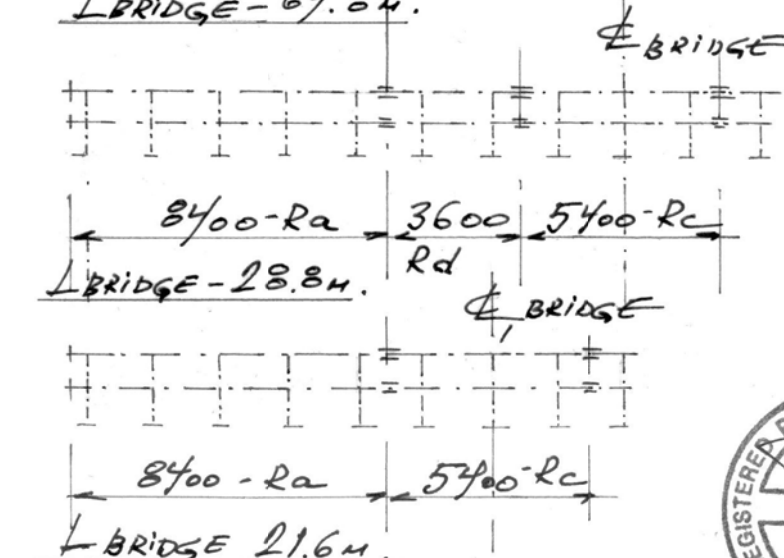




END FLOOR BEAM 1:5



RAILING SECTIONS.



SCHEME OF RAIL SECTIONS

$L(w)$	R_a	R_b	R_c	R_d
64.8	4	12	2	—
28.8	4	—	2	4
21.6	4	—	2	—



29 MARCH 2011

Rankin Inlet, NU 3 bridges on Meliadine Project Details for Railing and Approach Ramps