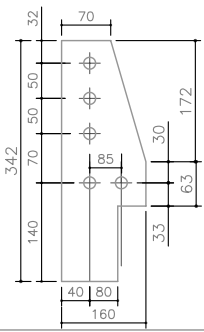
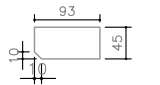
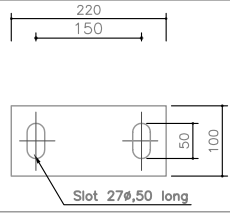
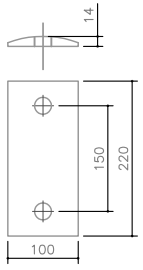
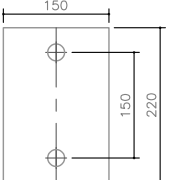
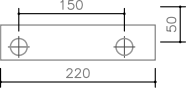
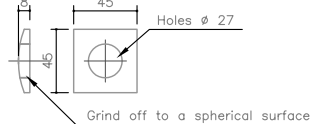
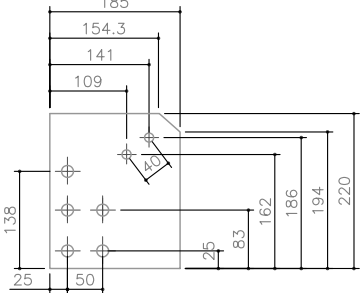


Part No.	Section (mm)	Quantity	Working Drawing (All dimension in mm)	Length		Weight		Surface to be painted		Total Glavanized weight (kg)	Remarks
				Single/pc (mm)	Total (m)	Single/pc (kg)	Total (kg)	m2/pc	Total (m2)		
1	a Plate 342x160x8	4	 Plate 8 thick 5 holes Ø 17	—	—	2.897	11.588	0.064	0.260	11.588	(L0) Part 1 (a,b,c) to be welded as shown in details
	b Plate 93x45x8	16	 Plate 8 thick	—	—	0.256	4.096	0.008	0.128	4.096	
	c Plate 220x100x12	4	 Plate 12 thick	—	—	2.072	8.288	0.039	0.156	8.288	
2	a Plate 220x100x14	4	 Plate 14 thick 2 holes Ø 27	—	—	2.417	9.672	0.044	0.176	9.672	(L0) Part 2 (a,b,c) to be welded as shown in detail
	b Plate 220x150x14	4	 Plate 14 thick 2 holes Ø 27	—	—	3.627	14.508	0.066	0.264	14.508	
	c 25 Ø Rod 600 long	8	 25 600 60 Thread M 24	600	4.800	2.314	18.512	0.047	0.376	18.512	
	d Plate 220x50x8	4	 Plate 8 thick 2 holes Ø 27	—	—	0.691	2.764	0.022	0.088	2.764	
3	Plate 45x45x8	10	 Plate 8 thick	—	—	0.130	1.300	0.004	0.040	1.300	
4	Hexagonal nut M 24	10		—	—	0.0971	0.970	Galvanized	—	—	2 pcs. extra
5	Hexagonal nut 10 thick , M 24	10		—	—	0.044	0.437	Galvanized	—	—	2 pcs. extra
6	a Plate 220 x 185 x 6 (L0/L16)	4	 Plate 6 thick 5 holes Ø 17 2 holes Ø 13	—	—	1.916	7.664	0.081	0.321	7.664	3 pcs. extra Horizontal Plate (L0/ L14)

Note :
Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication

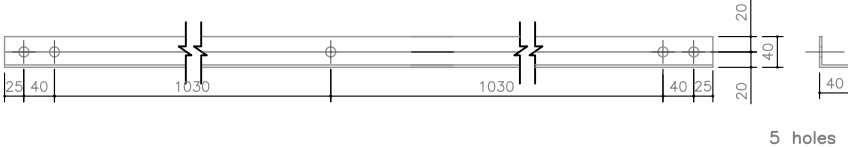
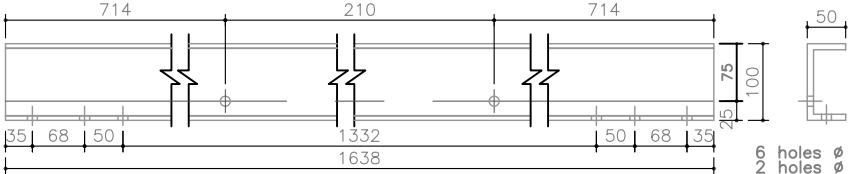
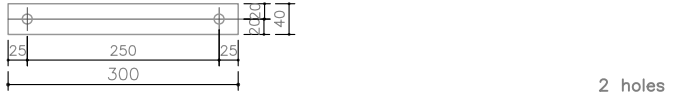
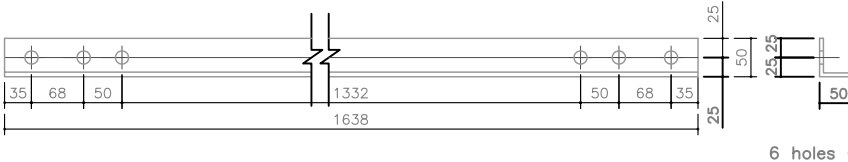
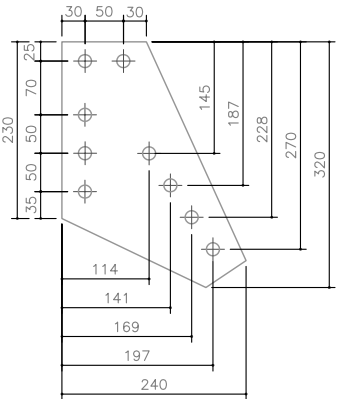
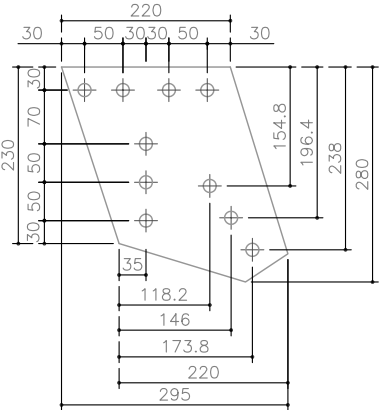
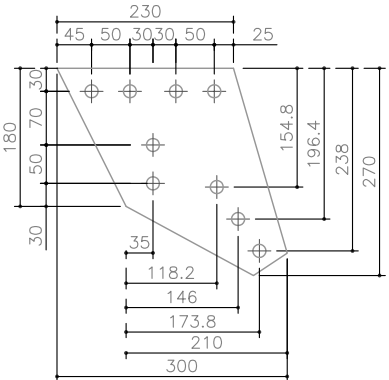
MoFALD / DoLIDAR / Trial Bridge Section
Truss Bridge

Bridge No. :
Span : 32.0 m

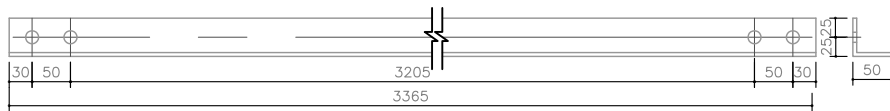
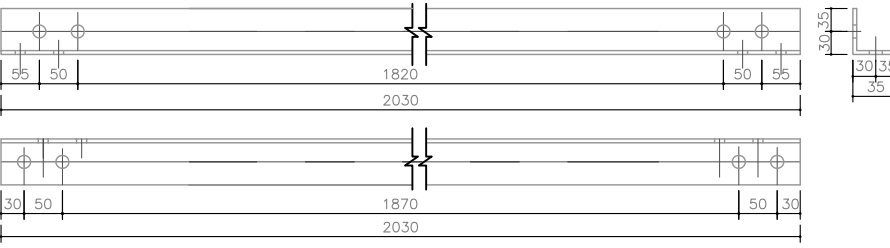
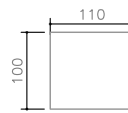
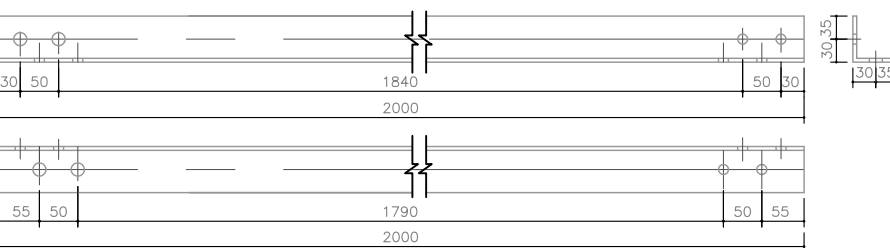
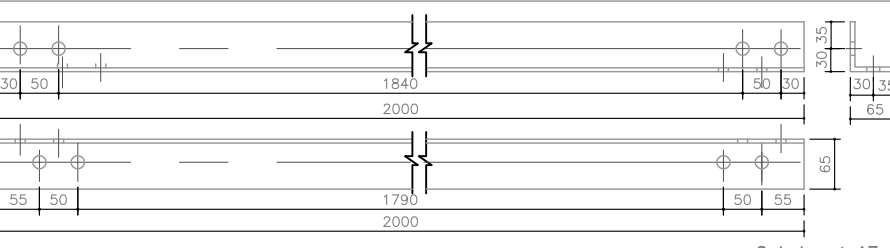
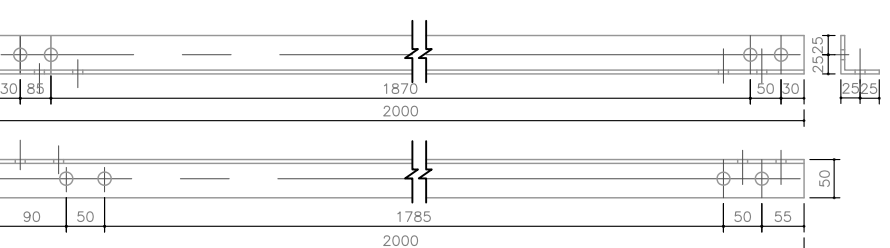
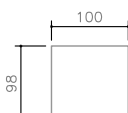
Strutural Drawing :
Working and Assembly Drawing

Date: July 2013
Drawing No: T3 W

Part No.	Section	(mm)	Quantity	Working Drawing (All dimension in mm)	Length		Weight		Surface to be painted		Glavanized weight (kg)	Remarks	Note : Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication
					Single/pc (mm)	Total (m)	Single/pc (kg)	Total (kg)	m2/pc	Total (m2)			
6	b	Plate 250x 240x 6(U0,U16) (U0/ U16)	4	 Plate 6 thick 5 holes Ø 17 2 holes Ø 13	-	-	2.826	11.304	0.120	0.480	11.304	Horizontal Plate	
7	a	Plate 440 x 248 x 6 (U1,U2,U3,U4,U5,U6,U7, U9,U10,U11,U12,U13,U14,U15 L4,L5,L6,L7& L9,L10,L11,L12)	44	 Plate 6 thick 9 holes Ø 17 4 holes Ø 13	-	-	5.139	226.116	0.218	9.592	226.116	Horizontal Plate	
	b	Plate 440 x 248 x 6 (L1, L2, L3 & L13, L14, L15)	12	 Plate 6 thick 9 holes Ø 17 4 holes Ø 13	-	-	5.139	61.668	0.218	2.616	61.668	Horizontal Plate	
	C	Plate 440 x 248 x 6 (U1,U3 & L8,U8) (Use in reverse condition for U1, U3)	4	 Plate 6 thick 9 holes Ø 17 4 holes Ø 13	-	-	5.139	20.556	0.218	0.872	20.556	Horizontal Plate	
8	Plate	250 x 60 x 4	32	 Plate 4 thick 5 holes Ø 13	-	-	0.565	18.080	0.036	1.152	18.080		MoFALD / DoLIDAR / Trial Bridge Section Truss Bridge
9	Angle	40 x 40 x 3 l =1065	64	 4 holes Ø 13	1065	68.16	1.917	122.688	0.17	10.880	122.688	Plate 6a/ 7b	Strutural Drawing : Working and Assembly Drawing
													Date: July 2013 Drawing No: T3 W

Part No.	Section (mm)	Quantity	Working Drawing (All dimension in mm)	Length		Weight		Surface to be painted		Total Glavanized weight (kg)	Remarks	Note : Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication
				Single/pc (mm)	Total (m)	Single/pc (kg)	Total (kg)	m2/pc	Total (m2)			
10	Angle 40 x 40 x 3 l =2190	32	 5 holes Ø 13	2190	70.08	3.942	126.144	0.350	11.20	126.144		
11	a ISMC 100 x 50 l = 1638	2	 6 holes Ø 17 2 holes Ø 13	1638	3.27	15.069	30.138	0.491	0.982	30.138	U0 top channel for name plate Plate 6b	
	b Plate 300 x 40 x 5	4	 2 holes Ø 13	—	—	0.471	1.884	0.024	0.096	1.884		
12	Angle 50 x 50 x 5 l =1638	12	 6 holes Ø 17	1638	24.57	6.224	74.688	0.327	4.905	74.688	Plate 7a	
13	Plate 320 x 240 x 8 (U0,U16)	4	 Plate 8 thick 9 holes Ø 17	—	—	2.979	11.916	0.095	0.380	11.916	Vertical Plate	
14	Plate 295 x 280 x 8 (U1,U15)	4	 Plate 8 thick 10 holes Ø 17	—	—	3.783	15.132	0.120	0.480	15.132	Vertical Plate	
15	Plate 300 x 270 x 8 (U2,U14)	4	 Plate 8 thick 9 holes Ø 17	—	—	3.567	14.268	0.113	0.452	14.268	Vertical Plate	MoFALD / DoLIDAR / Trial Bridge Section Truss Bridge Standard Bridge No : Name : Span : 32.0 m Strutural Drawing : Working and Assembly Drawing Date: July 2013 Drawing No: T4 W

Part No.	Section	(mm)	Quantity	Working Drawing (All dimension in mm)	Length		Weight		Surface to be painted		Total Glavanized weight (kg)	Remarks	Note : Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication MoFALD / DoLIDAR / Trial Bridge Section Truss Bridge Standard Bridge No : Name : Span : 32.0 m Strutural Drawing : Working and Assembly Drawing Date: July 2013 Drawing No: T5 W
					Single/pc (mm)	Total (m)	Single/pc (kg)	Total (kg)	m2/pc	Total (m2)			
16	Plate	265 x 230 x 8	20	Plate 8 thick 8 holes Ø 17	—	—	2.942	58.840	0.093	1.860	58.840	Vertical Plate	
17	Plate	225 x 180 x 8	2	Plate 8 thick 6 holes Ø 17	—	—	1.965	3.930	0.062	0.124	3.930	Vertical Plate	
18	Plate	320x 320 x 8	4	Plate 8 thick 11 holes Ø 17	—	—	4.673	18.692	0.148	0.592	18.692	Vertical Plate	
19	Plate	290x 275 x 8	8	Plate 8 thick 9 holes Ø 17	—	—	3.853	30.824	0.122	0.976	30.824	Vertical Plate	
20	a	(L-5,7 & L9,11)		Plate 8 thick 10 holes Ø 17								Vertical Plate	

Part No.	Section	(mm)	Quantity	Working Drawing (All dimension in mm)	Length		Weight		Surface to be painted		Total Glavanized weight (kg)	Remarks	Note : Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication
					Single/pc (mm)	Total (m)	Single/pc (kg)	Total (kg)	m2/pc	Total(m2)			
29	Angle 50 x 50 x 5 l = 3365 Diagonal mebmer(L3–L13)	20	 As shown 10 nos. Opp. hand 10 nos.	3052	24.416	12.287	255.74	0.673	13.460	255.740	vettical Plate 16/20		
30	a	Angle 65 x 65 x 5 l = 2030	8	 8 holes ø 17	2030	16.24	9.947	79.576	0.527	4.216	79.576	Horizontal Plate 6b/7a	
	b	Plate 110 x 100 x 6	12	 Plate 6 thick	–	–	0.518	6.216	0.022	0.264	6.216	Part no. 30 (a,b,c) to be welded up as shown in detail.	
	C	Plate 100 x 20 x 8	12	 Plate 8 thick	–	–	0.125	1.500	0.004	0.048	1.500		
31	a	Angle 65 x 65 x 5 l = 2000 (U1–U4/U12–U15)	24	 8 holes ø 17	2000	48.00	9.800	235.200	0.527	12.648	235.200	Part no. 31 (a,b,c) to be welded up as shown in detail& reduce 2 mm at both ends	
	b	Plate 100 x 86 x 5	36	Same as part no 30 b Plate 6 thick	–	–	0.518	18.648	0.022	0.792	18.648	Horizontal Plate 7a/7a	
	C	Plate 100 x 20 x 8	36	Same as part no 30 c Plate 8 thick	–	–	0.125	4.500	0.004	0.144	4.500		
32	a	Angle 65 x 65 x 6 l = 2000 (U4–U12)	32	 8 holes ø 17	2000	64.00	11.600	371.20	0.520	16.640	371.200	Part no. 32 (a,b,c) to be welded up as shown in deail & reduce size by 2 mm at both ends	
	b	Plate 100 x 86 x 5	48	Same as part no 30 b Plate 6 thick	–	–	0.518	24.864	0.022	1.056	24.864	Horizontal Plate 7a/7a	
	C	Plate 100 x 20 x 8	48	Same as part no 30 c Plate 8 thick	–	–	0.125	6.000	0.004	0.192	6.000		
33	a	Angle 50 x 50 x 5 l = 2030 (L0–L1/L15–L16)	8	 8 holes ø 17	2030	16.24	7.714	61.712	0.406	3.248	61.712	Part no.33a,4 nos. revease hole	
	b	Plate 98 x 100 x 6	4	 Plate 6 thick	–	–	0.461	1.844	0.019	0.076	1.844	Part no. 33 (a,b,c) to be welded up as shown in detail.	
	C	Plate 100 x 20 x 8	4	Same as part no 30 c Plate 8 thick	–	–	0.125	0.500	0.004	0.016	0.500	Horizontal Plate 6a/7b	
													MoFALD / DoLiDAR / Trial Bridge Section Truss Bridge Standard
													Bridge No: Name : Span : 32.0 m
													Strutural Drawing : Working and Assembly Drawing
													Date: July 2013 Drawing No: T7 W

MoFALD / DoLIDAR / Trial Bridge Section
Truss Bridge Standard

Bridge No: Name :
Span : 32.0 m

Strutural Drawing :

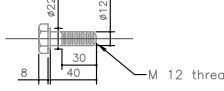
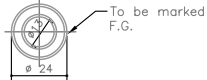
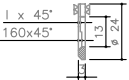
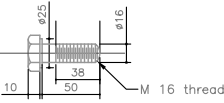
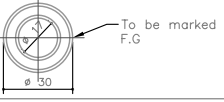
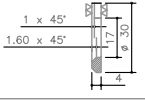
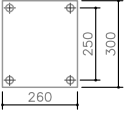
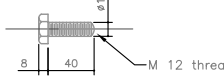
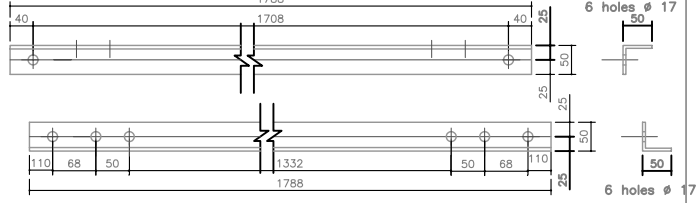
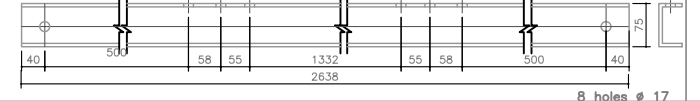
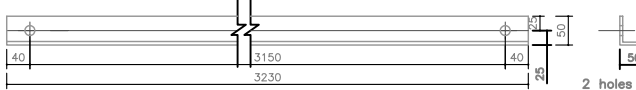
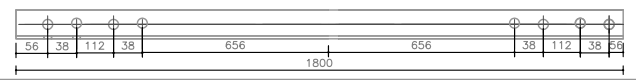
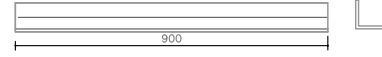
Working and Assembly Drawing

Date: July 2013 Drawing No: T7 W

part No.	Section	(mm)	Quantity	Working Drawing (All dimension in mm)	Length		Weight		Surface to be painted		Total Glavanized weight (kg)	Remarks	
					Single/pc (mm)	Total (m)	Single/pc (kg)	Total (kg)	m2/pc	Total(m2)			
4	a	Angle 50 x 50 x 5 l = 2000 (L1–L4/L12–L15)	24	 8 holes Ø 17	2000	48.00	7.600	182.40	0.400	9.600	182.400	Part no. 34 (a,b,c) to be welded up as shown in detail.& reduce size by 2 mm at both ends	
	b	Plate 98 x 100 x 6	12	 Plate 6 thick	–	–	0.461	5.532	0.019	0.228	5.532		
	c	Plate 100 x 20 x 8	12	 Plate 8 thick	–	–	0.125	1.500	0.004	0.048	1.500		
5	a	Angle 65 x 65 x 5 l = 2000 (L4–L12)	32	 8 holes Ø 17	2000	64.00	9.800	313.600	0.527	16.840	313.600	Part no. 35a,b,c) to be welded up as shown in detail. & reduce size by 2 mm at both ends	
	b	Plate 110 x 100 x 6	16	 Plate 6 thick	–	–	0.518	8.288	0.022	0.352	8.288		
	c	Plate 100 x 20 x 8	16	Same as part no 30 c	–	–	0.125	2.000	0.004	0.064	2.000		
6	a	Flat 130 x 6 – 1120 (U0–U1/U13–U14)	14	 Plate 6 thick 8 holes Ø 14	1120	19.38	6.980	97.72	0.296	5.032	97.720	Part no. 36c is to be welded under the holes of this part.	
	b1	ISMC Channel 75 x 40 l=1638	7	 6 holes Ø 17	1638	14.742	11.138	77.966	0.507	4.563	77.966		Part no. 47 is to be welded with this part no. 36b1 36b2.
	b2	ISMC Channel 75 x 40 l=1638	7	 6 holes Ø 17	1638	13.104	11.138	77.966	0.507	2.535	77.966		
	c	M 12 Nut IS 6623	112	Same as Part no. 41			0.015	1.68	Glavanized	1.680			
37	Glaved M S Pipe nominal bore 40 Ø medium clas, l =3000	40	 British Standard Pipe thread 30 long.	3000	108.00	10.83	433.20	Glavanized	433.200				
38	Glaved M S Pipe nominal bore 40 Ø medium clas, l =2750	4	 2750	2750	21.00	9.93	39.72	Glavanized	39.72				
39	Glaved Pipe socket for above pipes.	42	As per BRITISH STANDARD	–	–	0.300	12.60	Glavanized	12.60	For Part no. 37 & 38 2 pcs. extra.			

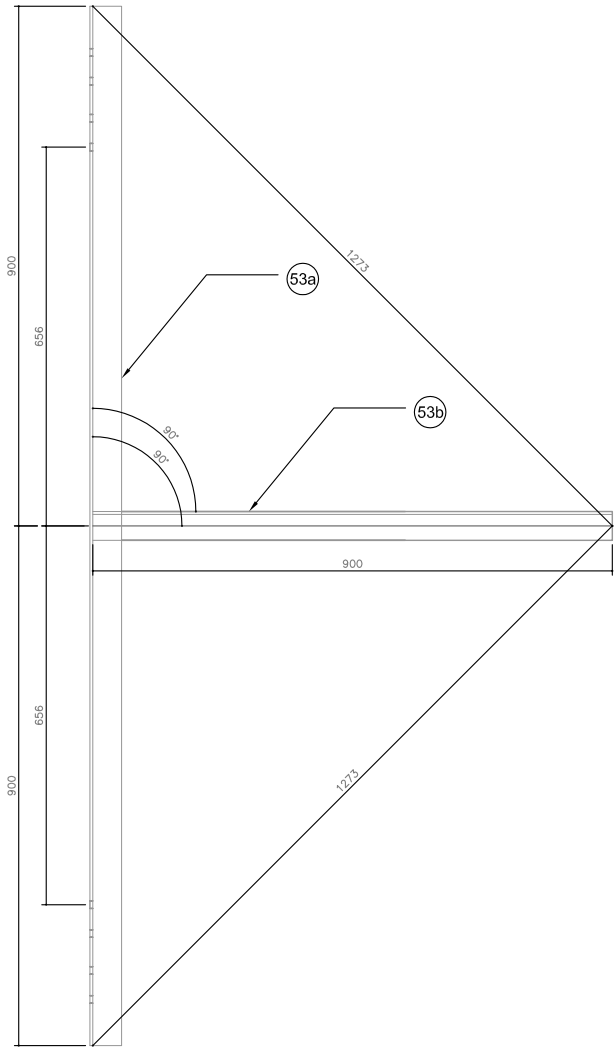
Note :
Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication

MoFALD / DoLIDAR / Trial Bridge Section Truss Bridge Standard	
Bridge No: Span : 32.0 m	Name:
Strutural Drawing : Working and Assembly Drawing	
Date: July 2013	Drawing No: T8 W

Part No.	Section (mm)	Quantity	Working Drawing (All dimension in mm)	Length		Weight		Surface to be painted		Total Glavanized weight (kg)	Remarks
				Single/pc (mm)	Total (m)	Single/pc (kg)	Total (kg)	m2/pc	Total(m2)		
40	Flat 50 x 8 l = 50	18		—	—	0.157	2.826	0.005	0.090	2.826	
41	Friction grip nut M 12 IS 6623, Grade 8.8	720	 	—	—	0.022	15.840	Glavanized		—	Qty is included 5 % extra
42	Friction grip bolt M 12 x 40 IS 3757, Grade 8.8	720	 	—	—	0.070	50.400	Glavanized		—	Qty is included 5 % extra
43	Washer 'A' IS 6649	720	 	—	—	0.020	14.400	Glavanized		—	Qty is included 5 % extra
44	Friction grip nut M 16 IS 6623	1218	 	—	—	0.047	57.246	Glavanized		—	Qty is included 5 % extra
45	Friction grip bolt M 16 x 50 IS 3757	1218	 	—	—	0.120	146.16	Glavanized		—	Qty is included 5 % extra
46	Washer 'A' IS 6649	1218	 	—	—	0.014	17.052	Glavanized		—	Qty is included 5 % extra
47	Taper washer ø 13 for ISMC 75x40, IS 5372	102	Taper washer as per IS 5372 – 1978 to be welded with part no. 36b1, 36b2 & 51a	—	—	0.020	2.040	Glavanized		—	Qty is included 5 % extra
48	Brass plate 300 x 260, 16 gauge	2		—	—	1.050	2.100				See detail for manufacturing instructions
49	Hexagonal bolt M 12 x 40, IS 1363	10	 	—	—	0.070	0.700	Glavanized			
50	Angle 50 x 50 x 5 l = 1788	3		1788	5.364	6.79	20.37	0.357	1.071	21.032	
51	ISMC Channel 75 x 40 l=2638	1		2638	2.638	17.94	17.94	0.816	0.816	18.437	
		2		2638	5.276	17.94	35.88	0.816	2.448	36.874	
b	Flat 130x6–1120	3	Same as Part no. 36a	1120	3.360	6.98	20.94	0.290	0.880	21.480	
c	M 12 Nut	24	Same as Part no. 41	—	—	0.015	0.36	—	—	0.36	Part no. 51c to be welded with Part No. 51b.
52	Angle 50 x 50 x 5 l = 3230	6		3230	19.380	12.270	73.620	0.640	1.92	75.962	
53	a Angle 50x50x5 (L=1800)	2		1800	3.600	6.840	13.680	—	—	13.68	Part no. 53a to be welded with Part No. 53b.
	b Angle 50x50x5	2		900	1.800	3.420	6.840	—	—	6.840	
54	Ubolt 12ø, unbent lenth130mm	5		—	—	0.08	0.400	—	—	0.400	Qty is included 5 % extra
55	Hexagonal nut M 12 IS 6623	5		—	—	0.015	0.075	Glavanized		—	Qty is included 5 % extra
TOTAL (1-55) = 4652.22 Kg											

Total Structural Steel =	Total Steel to be Glavanized =	3861.38 kg.
Total G.I.Pipe & Socket =	Total Nut/Bolt/Washer =	305.32 kg.
Total Transportaion weight =		4769.26 kg.
Hot Dip Galvanization :		IS 2629, IS 2633
Weight of Zinc Coat :		0.61 kg/m2

Note :
Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication

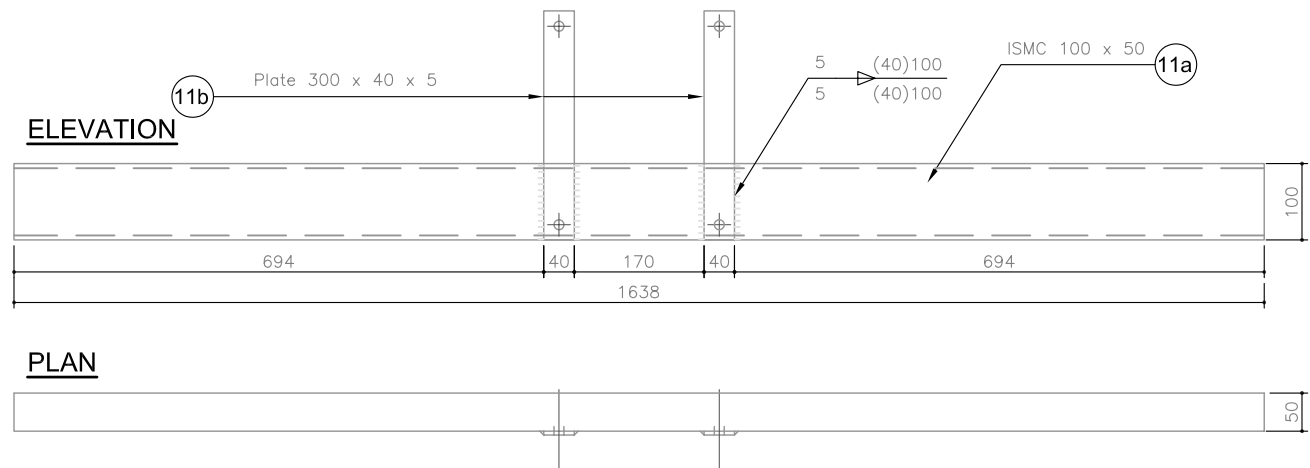


WELDING DETAIL OF PART NO. 53a AND 53b

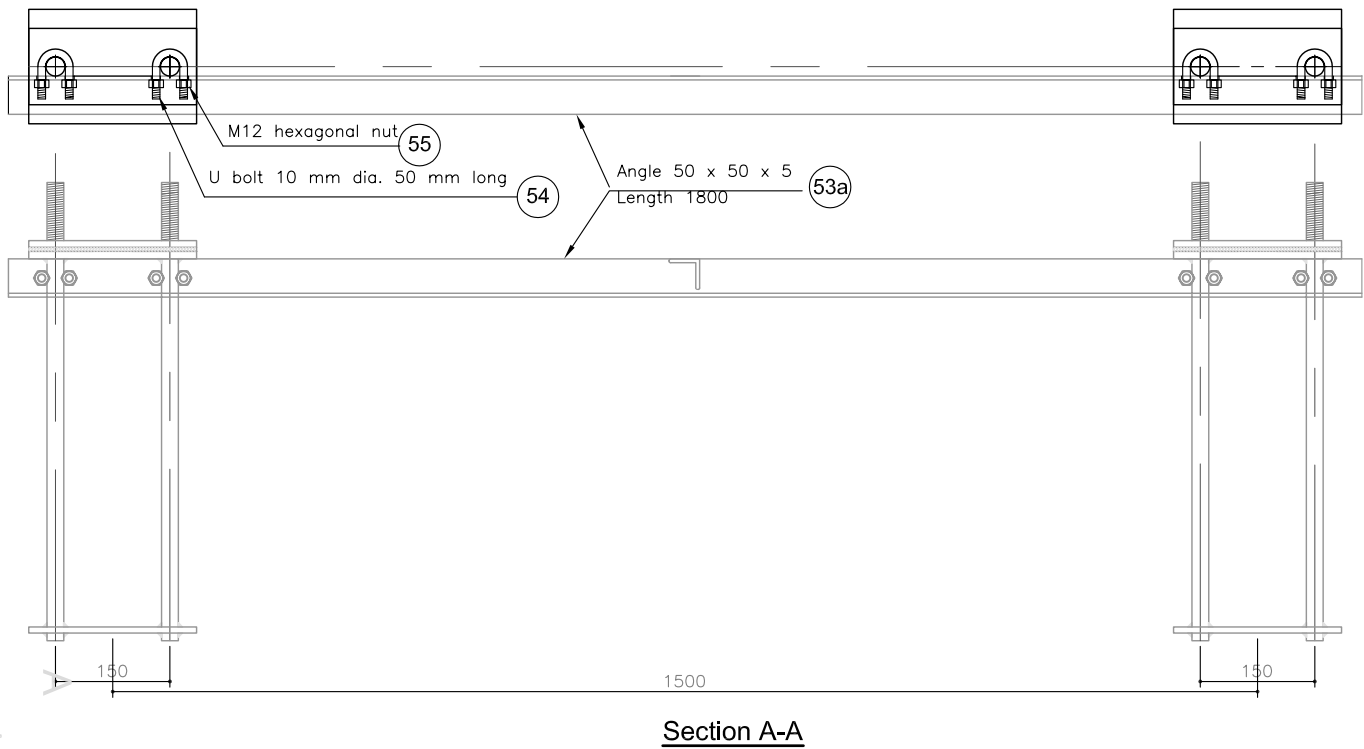
MoFALD / DoLIDAR / Trial Bridge Section Truss Bridge Standard	
Name:	Bridge No :
Span : 32.0 m	
Strutural Drawing : Working and Assembly Drawing	
Date: July 2013	Drawing No: T9 W

WELDING DETAIL OF PART NO. 2

SCALE 1:10



SPACER FOR ADJUSTING PART NO. 2

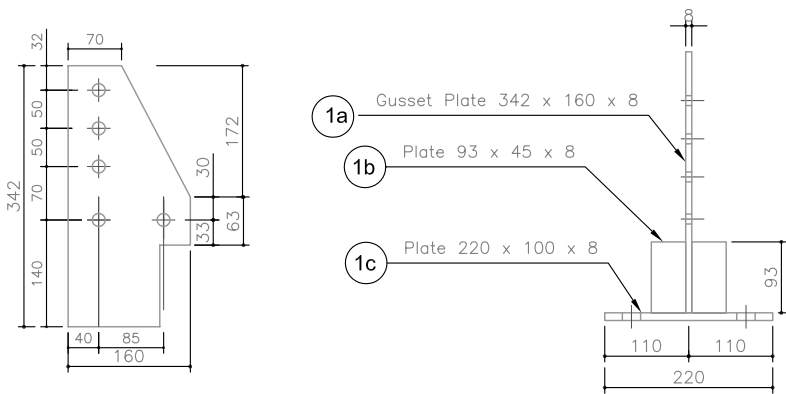


WELDING DETAIL OF PART 1

SCALE 1:10

SIDE ELEVATION

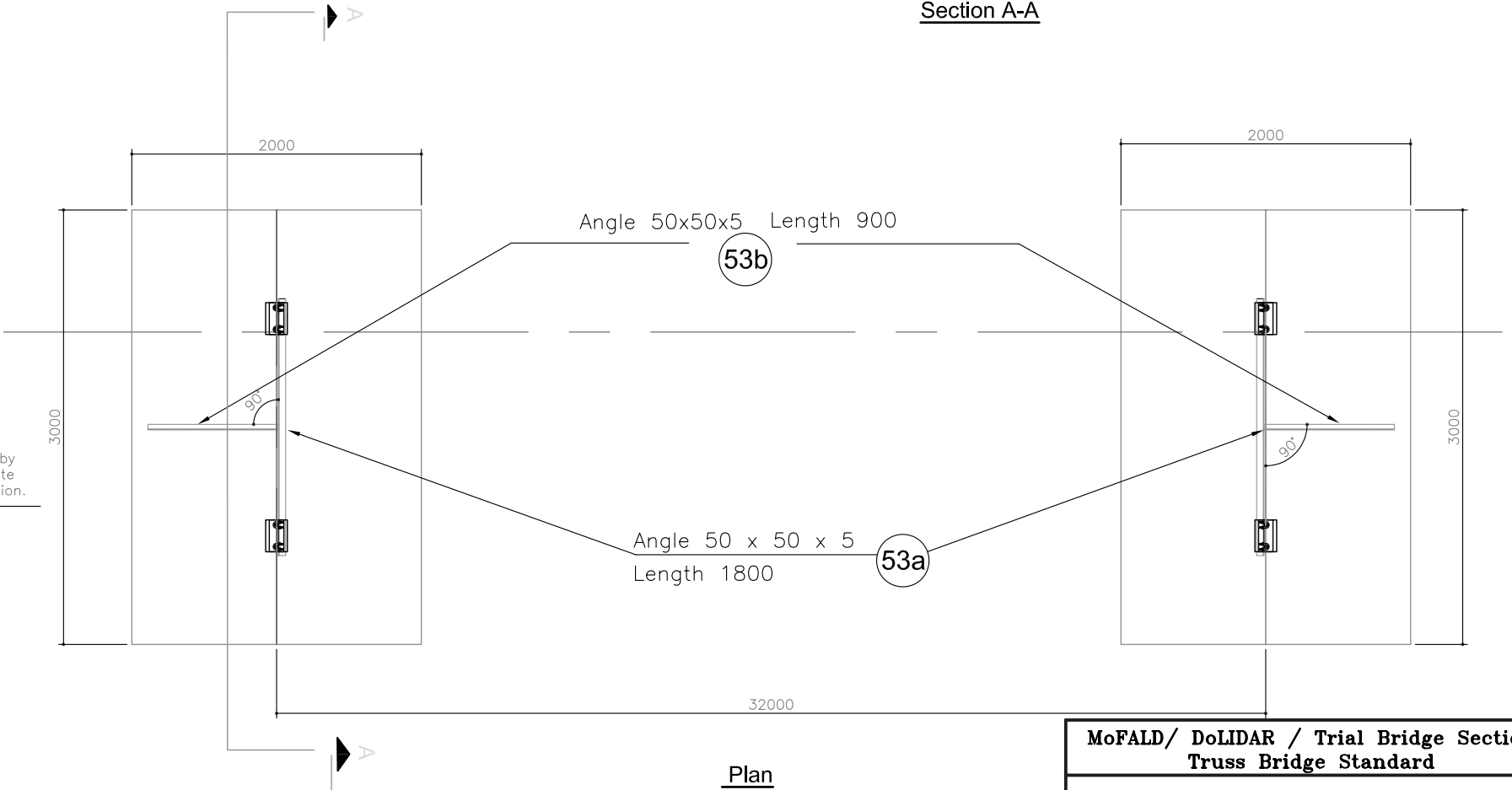
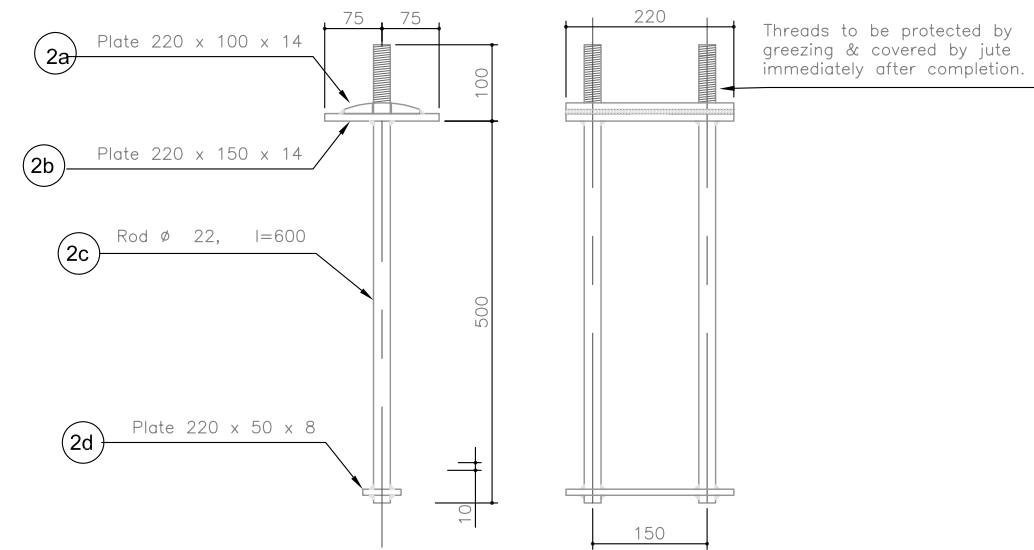
FRONT ELEVATION



WELDING DETAIL OF PART 2

SIDE ELEVATION

SCALE 1:10
FRONT ELEVATION



Note :
Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication

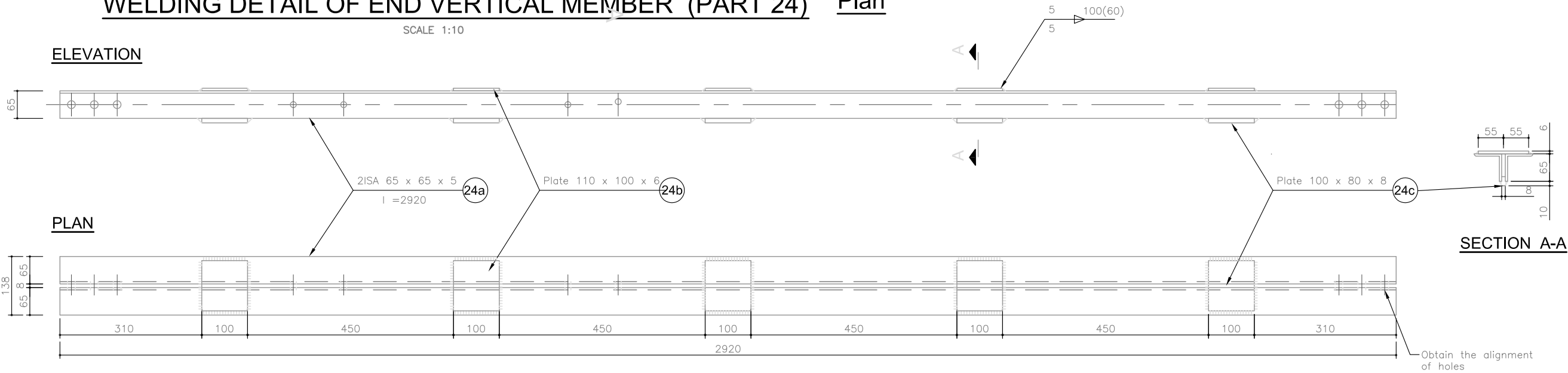
MoFALD/ DoLIDAR / Trial Bridge Section
Truss Bridge Standard

Bridge No: Name:
Span : 32.0 m

Strutural Drawing :
Working and Assembly Drawing

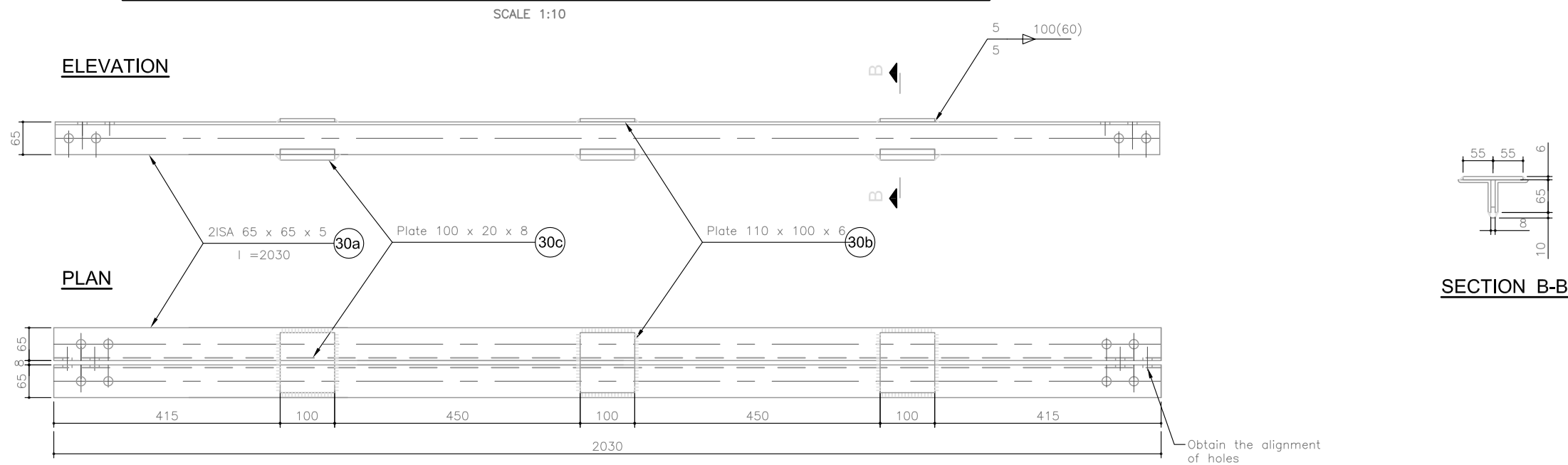
Date: July 2013 Drawing No: T10 W

WELDING DETAIL OF END VERTICAL MEMBER (PART 24) Plan



Note :
Manufacturer should verify the Working and Assembly Drawing for it's accuracy before fabrication

WELDING DETAIL OF TOP CHORD END MEMBER (PART 30)

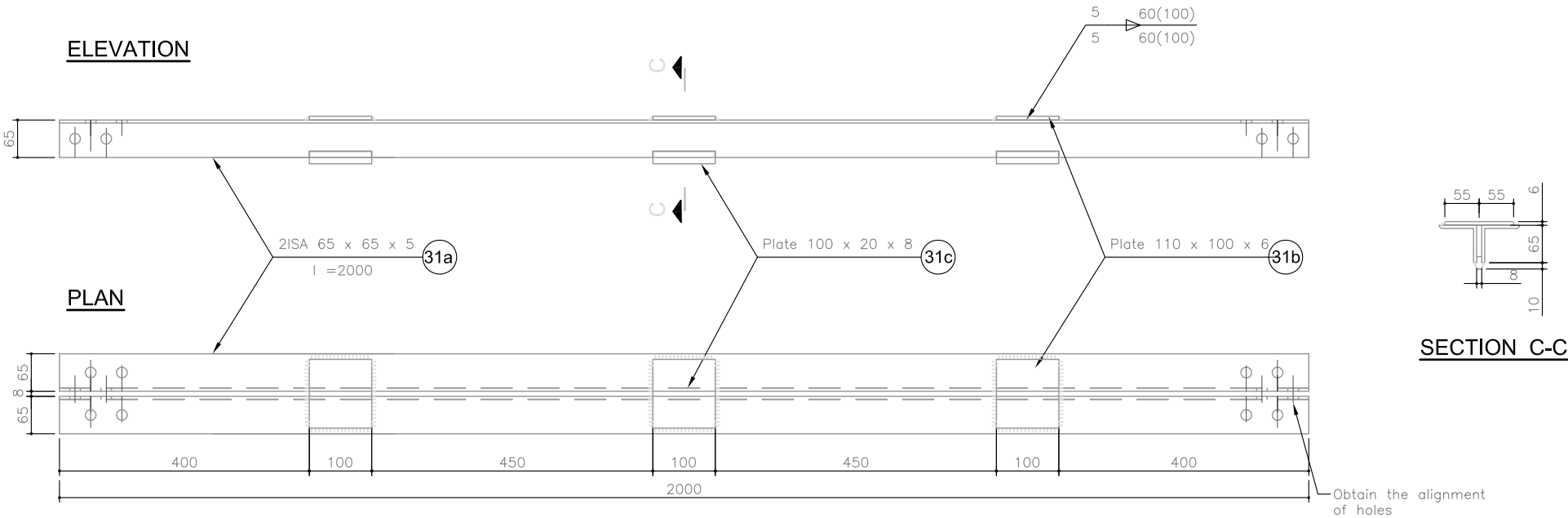


MoFALD / DoLIDAR / Trial Bridge Section Truss Bridge Standard	
Bridge No:	Name :
Span : 32.0 m	
Strutural Drawing :	
Working and Assembly Drawing	
Date: July 2013	Drawing No: T11 W

Note :
Manufacturer should verify the Working and Assembly
Drawing for it's accuracy before fabrication

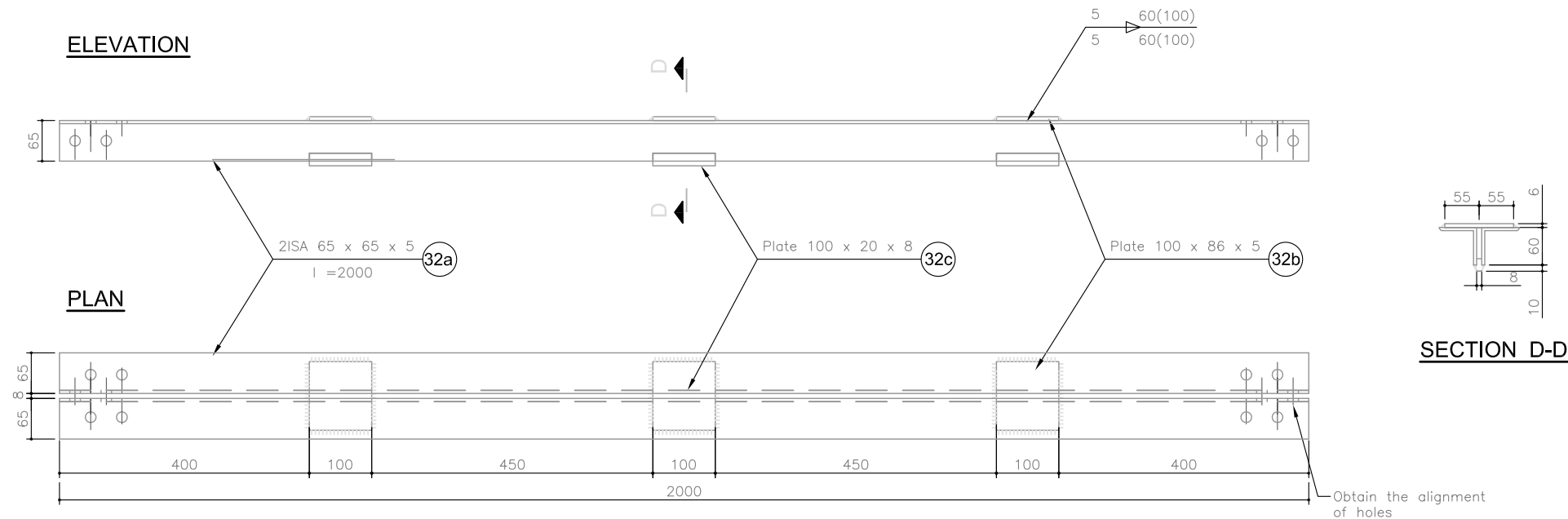
WELDING DETAIL OF TOP CHORD INTERIOR (PART 31)

SCALE 1:10



WELDING DETAIL OF TOP CHORD END MEMBER (PART 32)

SCALE 1:10



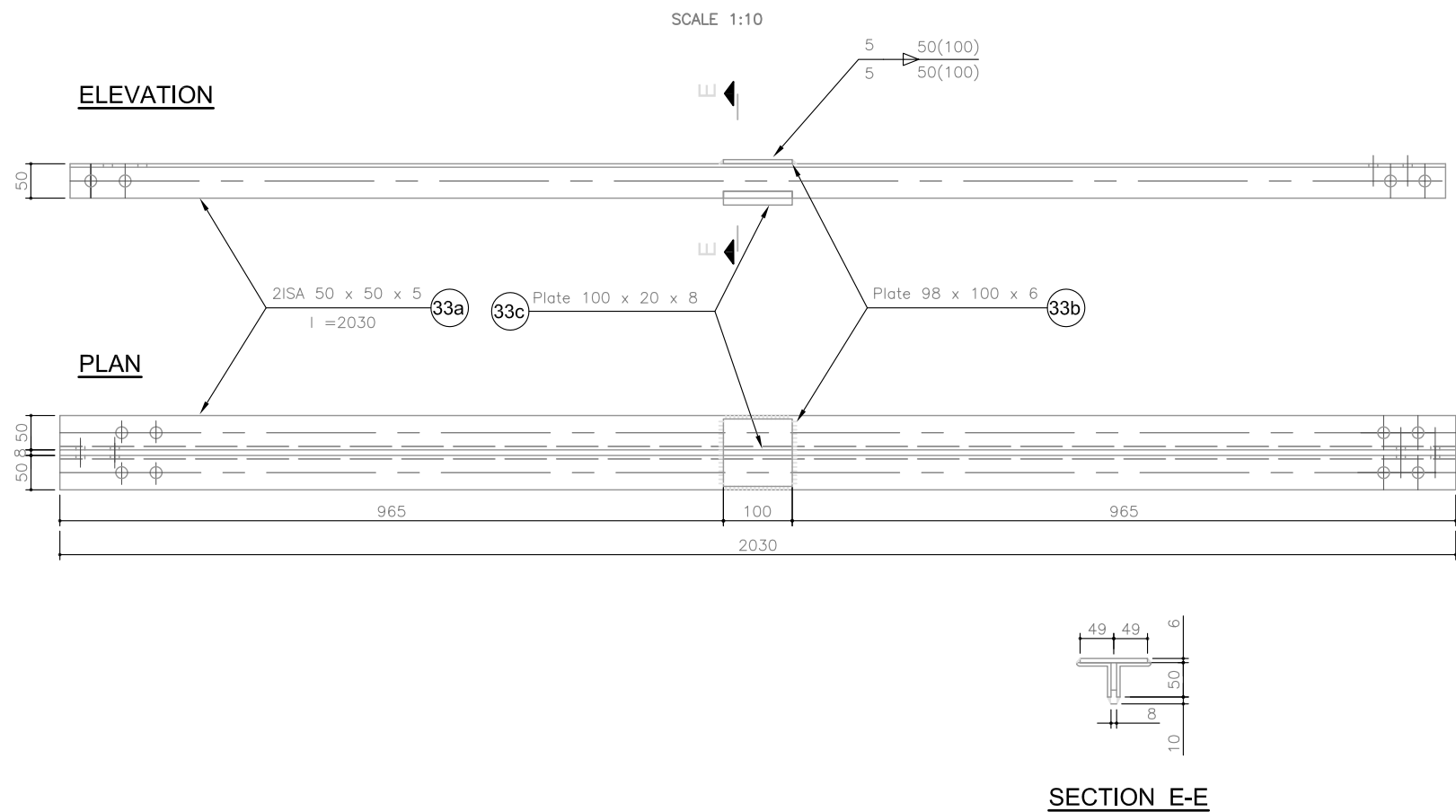
MoFALD / DoLIDAR / Trial Bridge Section
Truss Bridge Standard

Bridge No: Name:
Span : 32.0 m

Strutural Drawing :
Working and Assembly Drawing

Date: July 2013 Drawing No: T12 W

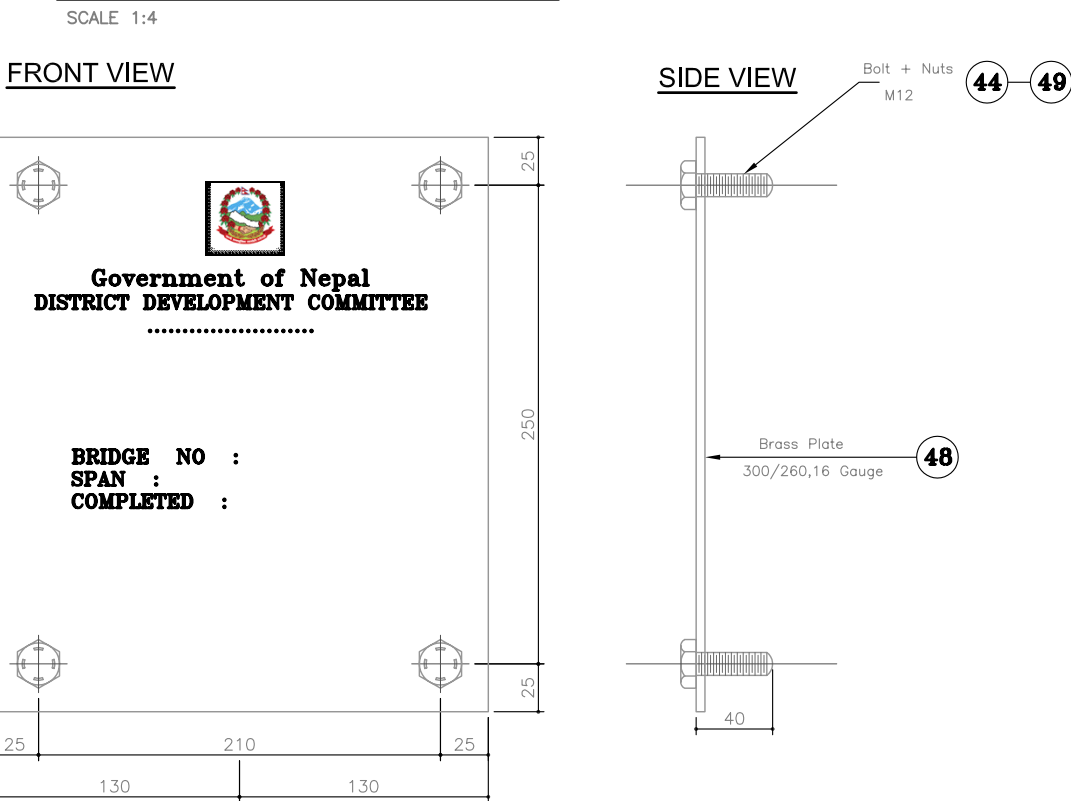
WELDING DETAIL OF BOTTOM CHORD END MEMBER (PART 33)



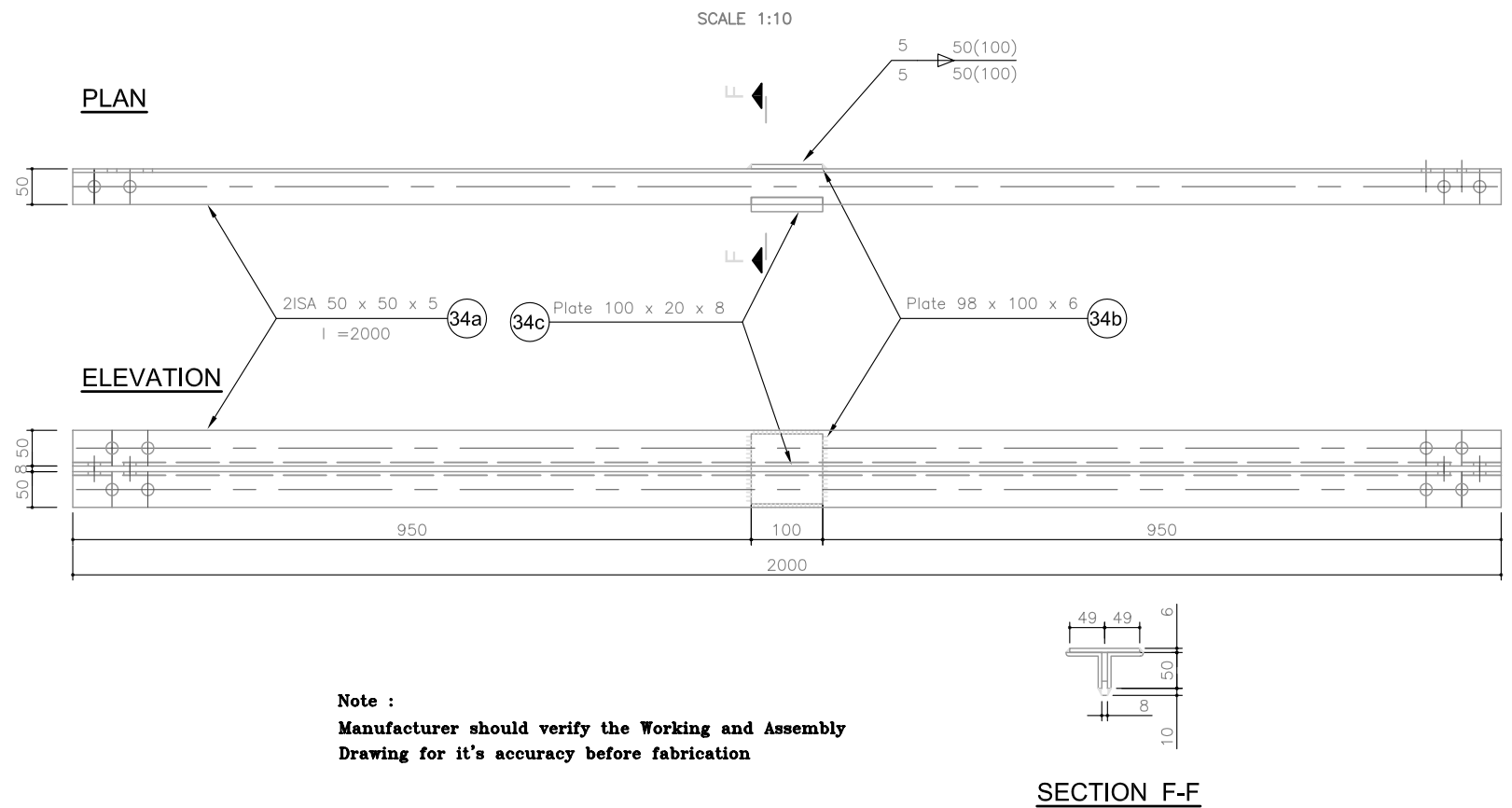
NOTES :-

- 1) All nuts have to be retightened after erection.
- 2) All nongalvanized threads have to be painted in site with coaltar after retightening of the nuts.
- 3) All stellparts have to be painted with final coat after bridge erection, only if not galvanized.
- 4) To obtain uniformity, use of templates and jigs is mandatory for holing, bending and welding of assembly.
- 5) All parts or bundles and packages with identical parts have to be labelled or marked with respective parts number by the workshop.

DETAIL OF SIGN BOARD



WELDING DETAIL OF BOTTOM CHORD INTERIOR MEMBER (PART 34)



SIGN BOARD INSTRUCTION

LEGEND

- 1) Fill in the name of the bridge according. to C B R
- 2) Fill in the full C B R bridge number.
- 3) Fill in the bridge span in meters.
- 4) Fill in the assumed years of completion.

INSTRUCTION FOR MANUFACTURING

- 1) Engrave letters and symbols on brass plates as shown above with templates and engraving machine. Sample is available in S.B.D.
- 2) Do one plate in Nepali and one in English script. Use capital letters only. The height of the bridge name is 20 mm, all others are 10 mm.
- 3) Use polyurethane enamel for painting. The H.M.G symbol is in red, The background remain blank.

MoFALD /DoLIDAR / Trial Bridge Section
Truss Bridge Standard

Bridge No : Name:
Span : 32.0 m

Strutural Drawing :
Working and Assembly Drawing

Date: July 2013 Drawing No: T13 W