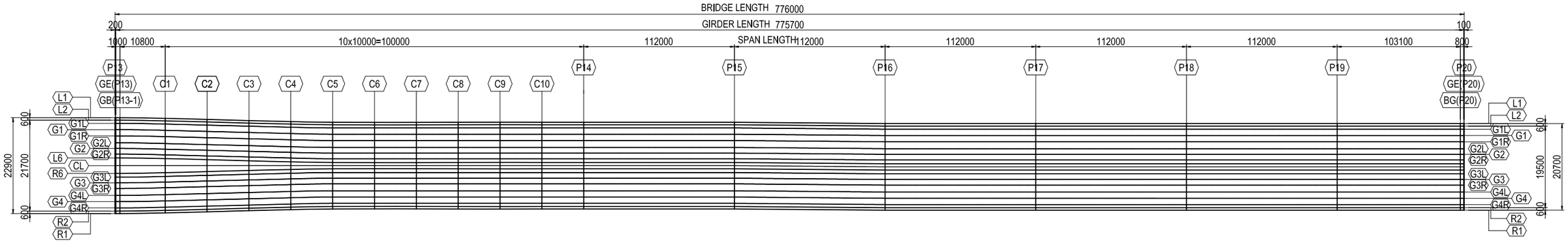
C. STEEL BOX GIRDER BRIDGE

COORDINATES OF SUPERSTRUCTURE (P13-P20) (1)

Not to Scale

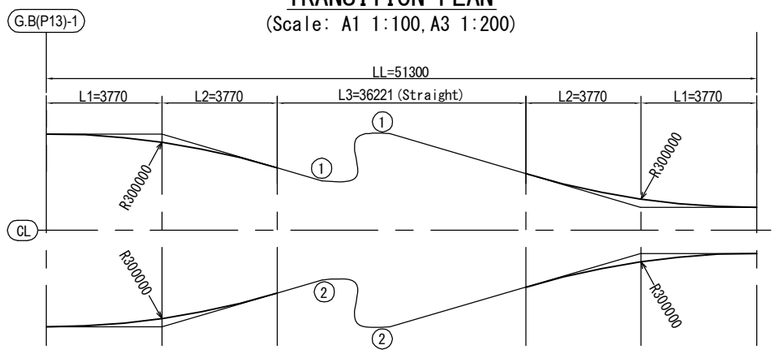


		P13	GE(P13)	GB(P13-1)	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	P14	P15	P16	P17	P18	P19	BG(P20)	GE(P20)	P20
L1	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	11.4500	11.4500	11.4500	11.2764	11.0251	10.7737	10.5224	10.3504	10.3500	10.3500	10.3500	10.3500	10.3500	10.3500	10.3500	10.3500	10.3500	10.3500	10.3500	10.3500	10.3500	10.3500
	Z	17.5654	17.5648	17.5620	17.5309	17.5010	17.4710	17.4410	17.4110	17.3810	17.3510	17.3210	17.2910	17.2610	17.2310	16.8950	16.5590	16.2230	15.8870	15.5510	15.1197	15.1131	15.1123
L2	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	10.8500	10.8500	10.8500	10.6762	10.4249	10.1736	9.9222	9.7504	9.7500	9.7500	9.7500	9.7500	9.7500	9.7500	9.7500	9.7500	9.7500	9.7500	9.7500	9.7500	9.7500	9.7500
	Z	17.5774	17.5768	17.5740	17.5429	17.5130	17.4830	17.4530	17.4230	17.3930	17.3630	17.3330	17.3030	17.2730	17.2430	16.9070	16.5710	16.2350	15.8990	15.5630	15.1317	15.1251	15.1243
G1L	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	10.1000	10.1000	10.1000	9.9260	9.6746	9.4233	9.1720	9.0004	9.0000	9.0000	9.0000	9.0000	9.0000	9.0000	9.0000	9.0000	9.0000	9.0000	9.0000	9.0000	9.0000	9.0000
	Z	17.5924	17.5918	17.5890	17.5579	17.5280	17.4980	17.4680	17.4380	17.4080	17.3780	17.3480	17.3180	17.2880	17.2580	16.9220	16.5860	16.2500	15.9140	15.5780	15.1467	15.1401	15.1393
G1	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	8.6000	8.6000	8.6000	8.4255	8.1742	7.9228	7.6715	7.5004	7.5000	7.5000	7.5000	7.5000	7.5000	7.5000	7.5000	7.5000	7.5000	7.5000	7.5000	7.5000	7.5000	7.5000
	Z	17.6224	17.6218	17.6190	17.5879	17.5580	17.5280	17.4980	17.4680	17.4380	17.4080	17.3780	17.3480	17.3180	17.2880	16.9520	16.6160	16.2800	15.9440	15.6080	15.1767	15.1701	15.1693
G1R	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	7.1000	7.1000	7.1000	6.9250	6.6737	6.4224	6.1711	6.0004	6.0000	6.0000	6.0000	6.0000	6.0000	6.0000	6.0000	6.0000	6.0000	6.0000	6.0000	6.0000	6.0000	6.0000
	Z	17.6524	17.6518	17.6490	17.6179	17.5880	17.5580	17.5280	17.4980	17.4680	17.4380	17.4080	17.3780	17.3480	17.3180	16.9820	16.6460	16.3100	15.9740	15.6380	15.2067	15.2001	15.1993
G2L	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	5.4500	5.4500	5.4500	5.2745	5.0232	4.7719	4.5205	4.3504	4.3500	4.3500	4.3500	4.3500	4.3500	4.3500	4.3500	4.3500	4.3500	4.3500	4.3500	4.3500	4.3500	4.3500
	Z	17.6854	17.6848	17.6820	17.6509	17.6210	17.5910	17.5610	17.5310	17.5010	17.4710	17.4410	17.4110	17.3810	17.3510	17.0150	16.6790	16.3430	16.0070	15.6710	15.2397	15.2331	15.2323
G2	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	4.1000	4.1000	4.1000	3.9241	3.6728	3.4214	3.1701	3.0004	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000
	Z	17.7124	17.7118	17.7090	17.6779	17.6480	17.6180	17.5880	17.5580	17.5280	17.4980	17.4680	17.4380	17.4080	17.3780	17.0420	16.7060	16.3700	16.0340	15.6980	15.2667	15.2601	15.2593
G2R	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	2.7500	2.7500	2.7500	2.5737	2.3223	2.0710	1.8197	1.6504	1.6500	1.6500	1.6500	1.6500	1.6500	1.6500	1.6500	1.6500	1.6500	1.6500	1.6500	1.6500	1.6500	1.6500
	Z	17.7394	17.7388	17.7360	17.7049	17.6750	17.6450	17.6150	17.5850	17.5550	17.5250	17.4950	17.4650	17.4350	17.4050	17.0690	16.7330	16.3970	16.0610	15.7250	15.2937	15.2871	15.2863
L6	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	1.8500	1.8500	1.8500	1.6734	1.4220	1.1707	0.9194	0.7504	0.7500	0.7500	0.7500	0.7500	0.7500	0.7500	0.7500	0.7500	0.7500	0.7500	0.7500	0.7500	0.7500	0.7500
	Z	17.7574	17.7568	17.7540	17.7229	17.6930	17.6630	17.6330	17.6030	17.5730	17.5430	17.5130	17.4830	17.4530	17.4230	17.0870	16.7510	16.4150	16.0790	15.7430	15.3117	15.3051	15.3043
CL	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	Z	17.7574	17.7568	17.7540	17.7229	17.6930	17.6630	17.6330	17.6030	17.5730	17.5430	17.5130	17.4830	17.4530	17.4230	17.0870	16.7510	16.4150	16.0790	15.7430	15.3117	15.3051	15.3043
R6	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	-1.8500	-1.8500	-1.8500	-1.6734	-1.4220	-1.1707	-0.9194	-0.7504	-0.7500	-0.7500	-0.7500	-0.7500	-0.7500	-0.7500	-0.7500	-0.7500	-0.7500	-0.7500	-0.7500	-0.7500	-0.7500	-0.7500
	Z	17.7574	17.7568	17.7540	17.7229	17.6930	17.6630	17.6330	17.6030	17.5730	17.5430	17.5130	17.4830	17.4530	17.4230	17.0870	16.7510	16.4150	16.0790	15.7430	15.3117	15.3051	15.3043
G3L	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	-2.7500	-2.7500	-2.7500	-2.5737	-2.3223	-2.0710	-1.8197	-1.6504	-1.6500	-1.6500	-1.6500	-1.6500	-1.6500	-1.6500	-1.6500	-1.6500	-1.6500	-1.6500	-1.6500	-1.6500	-1.6500	-1.6500
	Z	17.7394	17.7388	17.7360	17.7049	17.6750	17.6450	17.6150	17.5850	17.5550	17.5250	17.4950	17.4650	17.4350	17.4050	17.0690	16.7330	16.3970	16.0610	15.7250	15.2937	15.2871	15.2863
G3	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	-4.1000	-4.1000	-4.1000	-3.9241	-3.6728	-3.4214	-3.1701	-3.0004	-3.0000	-3.0000	-3.0000	-3.0000	-3.0000	-3.0000	-3.0000	-3.0000	-3.0000	-3.0000	-3.0000	-3.0000	-3.0000	-3.0000
	Z	17.7124	17.7118	17.7090	17.6779	17.6480	17.6180	17.5880	17.5580	17.5280	17.4980	17.4680	17.4380	17.4080	17.3780	17.0420	16.7060	16.3700	16.0340	15.6980	15.2667	15.2601	15.2593
G3R	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	-5.4500	-5.4500	-5.4500	-5.2745	-5.0232	-4.7719	-4.5205	-4.3504	-4.3500	-4.3500	-4.3500	-4.3500	-4.3500	-4.3500	-4.3500	-4.3500	-4.3500	-4.3500	-4.3500	-4.3500	-4.3500	-4.3500
	Z	17.6854	17.6848	17.6820	17.6509	17.6210	17.5910	17.5610	17.5310	17.5010	17.4710	17.4410	17.4110	17.3810	17.3510	17.0150	16.6790	16.3430	16.0070	15.6710	15.2397	15.2331	15.2323
G4L	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	-7.1000	-7.1000	-7.1000	-6.9250	-6.6737	-6.4224	-6.1711	-6.0004	-6.0000	-6.0000	-6.0000	-6.0000	-6.0000	-6.0000	-6.0000	-6.0000	-6.0000	-6.0000	-6.0000	-6.0000	-6.0000	-6.0000
	Z	17.6524	17.6518	17.6490	17.6179	17.5880	17.5580	17.5280	17.4980	17.4680	17.4380	17.4080	17.3780	17.3480	17.3180	16.9820	16.6460	16.3100	15.9740	15.6380	15.2067	15.2001	15.1993
G4	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	-8.6000	-8.6000	-8.6000	-8.4255	-8.1742	-7.9228	-7.6715	-7.5004	-7.5000	-7.5000	-7.5000	-7.5000	-7.5000	-7.5000	-7.5000	-7.5000	-7.5000	-7.5000	-7.5000	-7.5000	-7.5000	-7.5000
	Z	17.6224	17.6218	17.6190	17.5879	17.5580	17.5280	17.4980	17.4680	17.4380	17.4080	17.3780	17.3480	17.3180	17.2880	16.9520	16.6160	16.2800	15.9440	15.6080	15.1767	15.1701	15.1693
G4R	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	-10.1000	-10.1000	-10.1000	-9.9260	-9.6746	-9.4233	-9.1720	-9.0004	-9.0000	-9.0000	-9.0000	-9.0000	-9.0000	-9.0000	-9.0000	-9.0000	-9.0000	-9.0000	-9.0000	-9.0000	-9.0000	-9.0000
	Z	17.5924	17.5918	17.5890	17.5579	17.5280	17.4980	17.4680	17.4380	17.4080	17.3780	17.3480	17.3180	17.2880	17.2580	16.9220	16.5860	16.2500	15.9140	15.5780	15.1467	15.1401	15.1393
R2	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	-10.8500	-10.8500	-10.8500	-10.6762	-10.4249	-10.1736	-9.9222	-9.7504	-9.7500	-9.7500	-9.7500	-9.7500	-9.7500	-9.7500	-9.7500	-9.7500	-9.7500	-9.7500	-9.7500	-9.7500	-9.7500	-9.7500
	Z	17.5774	17.5768	17.5740	17.5429	17.5130	17.4830	17.4530	17.4230	17.3930	17.3630	17.3330	17.3030	17.2730	17.2430	16.9070	16.5710	16.2350	15.8990	15.5630	15.1317	15.1251	15.1243
R1	X	0.0000	0.2000	1.2000	12.0000	22.0000	32.0000	42.0000	52.0000	62.0000	72.0000	82.0000	92.0000	102.0000	112.0000	224.0000	336.0000	448.0000	560.0000	672.0000	775.1000	775.9000	776.0000
	Y	-11.4500	-11.4500	-11.4500	-11.2764	-11.0251	-10.7737	-10.5224	-10.3504	-10.3500	-10.3500	-10.3500	-10.3500	-10.3500	-10.3500	-10.3500	-10.3500	-10.3500	-10.3500	-10.3500	-10.3500	-10.3500	-10.3500
	Z	17.5654	17.5648	17.5620	17.5309	17.5010	17.4710	17.4410	17.4110	17.3810	17.3510	17.3210	17.2910	17.2610	17.2310	16.8950	16.5590	16.2230	15.8870	15.5510	15.1197	15.1131	15.1123

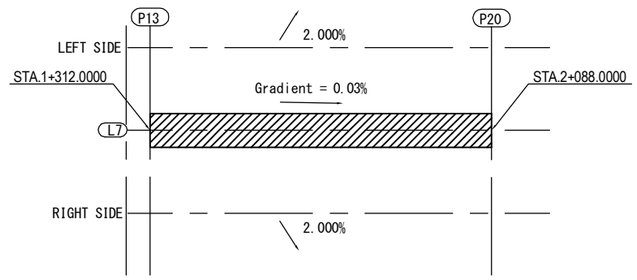
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017
DRAWING TITLE	COORDINATES OF SUPERSTRUCTURE (P13-P20) (1)		
PACKAGE	2		
DWG No.	P2-SB-1001		

COORDINATES OF SUPERSTRUCTURE (P13-P20) (2)

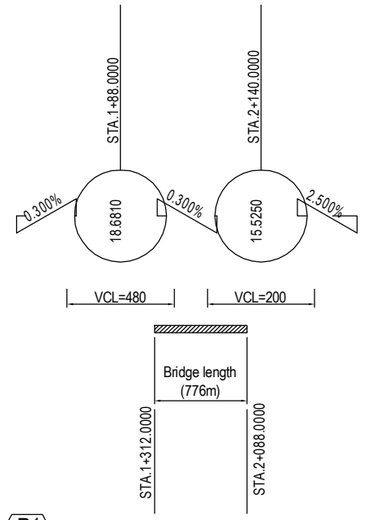
TRANSITION PLAN
(Scale: A1 1:100, A3 1:200)



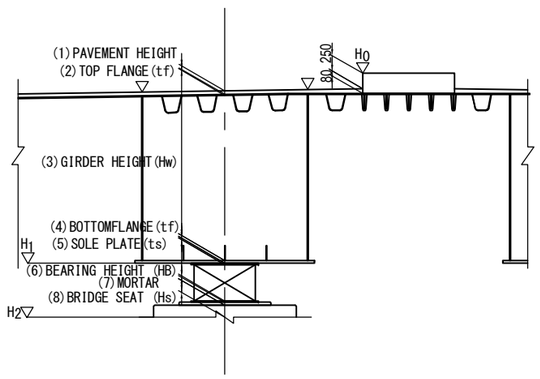
SUPER ELEVATION AND GRADIENT



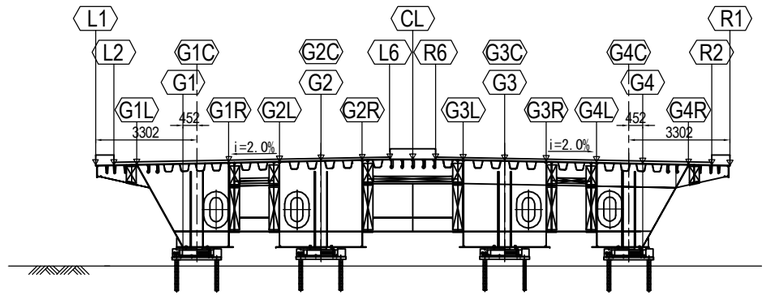
LONGITUDINAL ELEMENTS FIGURE



COMPOSITION OF HEIGHT
(NOT TO SCALE)



TYPICAL SECTION
(NOT TO SCALE)



		P13 PIER						P14 PIER						P15 PIER						P16 PIER					
		G1	G1C	G2,G2C	G3,G3C	G4C	G4	G1	G1C	G2,G2C	G3,G3C	G4C	G4	G1	G1C	G2,G2C	G3,G3C	G4C	G4	G1	G1C	G2,G2C	G3,G3C	G4C	G4
PROPOSED HEIGHT	Z1	17.619	17.628	17.709	17.709	17.628	17.619	17.288	17.297	17.378	17.378	17.297	17.288	16.952	16.961	17.042	17.042	16.961	16.952	16.616	16.625	16.706	16.706	16.625	16.616
PAVEMENT	h1	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080
GIRDER	h2	2.700	2.709	2.790	2.790	2.709	2.700	2.700	2.709	2.790	2.790	2.709	2.700	2.700	2.709	2.790	2.790	2.709	2.700	2.700	2.709	2.790	2.790	2.709	2.700
BOTTOM FLANGE	h3	0.020	0.020	0.014	0.014	0.020	0.020	0.052	0.052	0.040	0.040	0.052	0.052	0.038	0.038	0.027	0.027	0.038	0.038	0.042	0.042	0.030	0.030	0.042	0.042
SOLE PLATE	h4	0.025	0.025	0.025	0.025	0.025	0.025	0.040	0.040	0.040	0.040	0.040	0.040	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
BEARING	h5	0.466	0.466	0.466	0.466	0.466	0.466	0.359	0.359	0.359	0.359	0.359	0.359	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353
SUBTOTAL	H	3.291	3.300	3.375	3.375	3.300	3.291	3.231	3.240	3.309	3.309	3.240	3.231	3.206	3.215	3.285	3.285	3.215	3.206	3.210	3.219	3.288	3.288	3.219	3.210
ELEVATION OF BEARING BOTTOM	Z2	14.328	14.328	14.334	14.334	14.328	14.328	14.057	14.057	14.069	14.069	14.057	14.057	13.746	13.746	13.757	13.757	13.746	13.746	13.406	13.406	13.418	13.418	13.406	13.406
MORTAR	t1	0.012	0.012	0.018	0.018	0.012	0.012	0.020	0.020	0.032	0.032	0.020	0.020	0.026	0.026	0.037	0.037	0.026	0.026	0.016	0.016	0.028	0.028	0.016	0.016
BEARING BASE	t2	0.180	0.180	0.180	0.180	0.180	0.180	0.157	0.157	0.157	0.157	0.157	0.157	0.140	0.140	0.140	0.140	0.140	0.140	0.110	0.110	0.110	0.110	0.110	0.110
DRAINAGE INCLINE	t3	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
ELEVATION OF PIER TOP	Z3	14.096	14.096	14.096	14.096	14.096	14.096	13.840	13.840	13.840	13.840	13.840	13.840	13.540	13.540	13.540	13.540	13.540	13.540	13.240	13.240	13.240	13.240	13.240	13.240

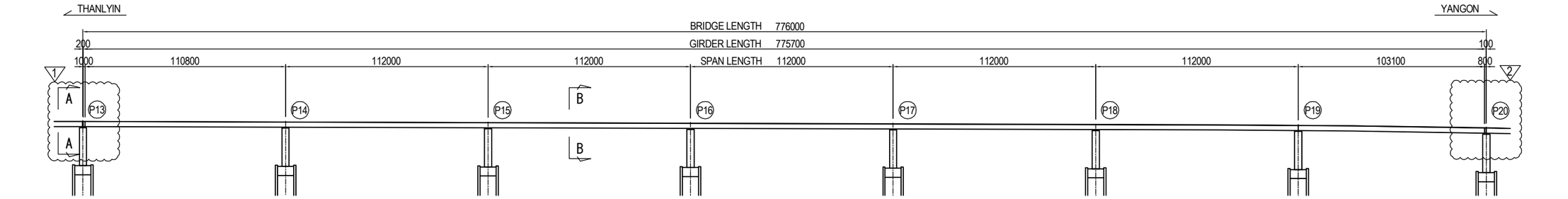
		P17 PIER						P18 PIER						P19 PIER						P20 PIER					
		G1	G1C	G2,G2C	G3,G3C	G4C	G4	G1	G1C	G2,G2C	G3,G3C	G4C	G4	G1	G1C	G2,G2C	G3,G3C	G4C	G4	G1	G1C	G2,G2C	G3,G3C	G4C	G4
PROPOSED HEIGHT	Z1	16.280	16.289	16.370	16.370	16.289	16.280	15.944	15.953	16.034	16.034	15.953	15.944	15.608	15.617	15.698	15.698	15.617	15.608	15.177	15.186	15.267	15.267	15.186	15.177
PAVEMENT	h1	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080
GIRDER	h2	2.700	2.709	2.790	2.790	2.709	2.700	2.700	2.709	2.790	2.790	2.709	2.700	2.700	2.709	2.790	2.790	2.709	2.700	2.700	2.709	2.790	2.790	2.709	2.700
BOTTOM FLANGE	h3	0.042	0.042	0.031	0.031	0.042	0.042	0.039	0.039	0.028	0.028	0.039	0.039	0.050	0.050	0.034	0.034	0.050	0.050	0.014	0.014	0.013	0.013	0.014	0.014
SOLE PLATE	h4	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.040	0.040	0.040	0.040	0.040	0.040	0.025	0.025	0.025	0.025	0.025	0.025
BEARING	h5	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.353	0.359	0.359	0.359	0.359	0.359	0.359	0.466	0.466	0.466	0.466	0.466	0.466
SUBTOTAL	H	3.210	3.219	3.289	3.289	3.219	3.210	3.207	3.216	3.286	3.286	3.216	3.207	3.229	3.238	3.303	3.303	3.238	3.229	3.285	3.294	3.374	3.374	3.294	3.285
ELEVATION OF BEARING BOTTOM	Z2	13.070	13.070	13.081	13.081	13.070	13.070	12.737	12.737	12.748	12.748	12.737	12.737	12.379	12.379	12.395	12.395	12.379	12.379	11.892	11.892	11.893	11.893	11.892	11.892
MORTAR	t1	0.020	0.020	0.031	0.031	0.020	0.020	0.027	0.027	0.038	0.038	0.027	0.027	0.014	0.014	0.030	0.030	0.014	0.014	0.012	0.012	0.013	0.013	0.012	0.012
BEARING BASE	t2	0.170	0.170	0.170	0.170	0.170	0.170	0.130	0.130	0.130	0.130	0.130	0.130	0.085	0.085	0.085	0.085	0.085	0.085	0.180	0.180	0.180	0.180	0.180	0.180
DRAINAGE INCLINE	t3	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
ELEVATION OF PIER TOP	Z3	12.840	12.840	12.840	12.840	12.840	12.840	12.540	12.540	12.540	12.540	12.540	12.540	12.240	12.240	12.240	12.240	12.240	12.240	11.660	11.660	11.660	11.660	11.660	11.660

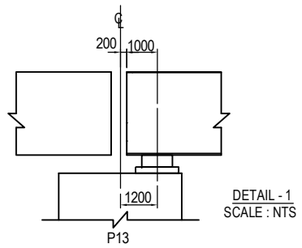
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT			
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY			
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE			
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
	NAME	SIGNATURE	DATE	DRAWING TITLE / PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	COORDINATES OF SUPERSTRUCTURE (P13-P20) (2) / 2
CHECKED BY	T. HAYAKAWA		20 Jun.2017	DWG No.
APPROVED BY	Y. SANO		21 Jun.2017	P2-SB-1002

GENERAL VIEW OF SUPERSTRUCTURE (P13-P20)

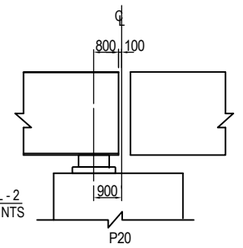
SIDE VIEW

SCALE A1 1:1200,A3 1:2400





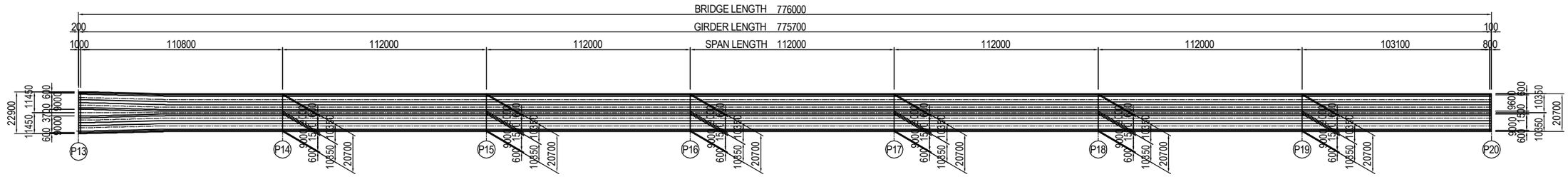
DETAIL - 1
SCALE : NTS



DETAIL - 2
SCALE : NTS

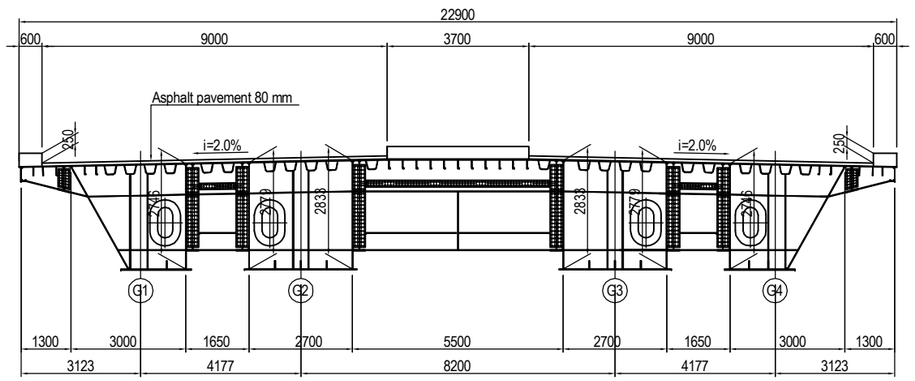
PLAN VIEW

SCALE A1 1:1200,A3 1:2400



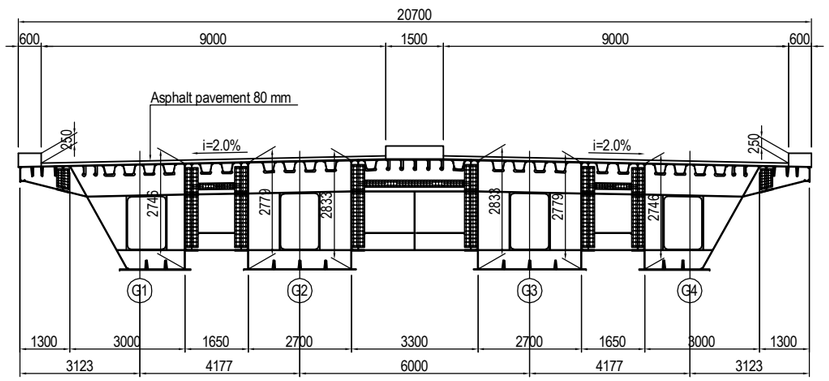
A - A
CROSS SECTION OF STEEL BOX GIRDER AT END SUPPORT

SCALE A1 1:80,A3 1:160



B - B
CROSS SECTION OF STEEL BOX GIRDER At MID SPAN

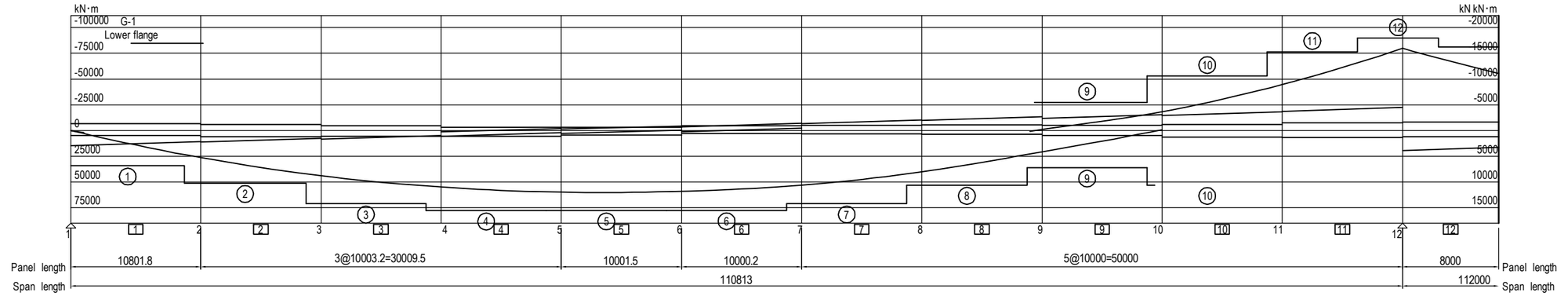
SCALE A1 1:80,A3 1:160

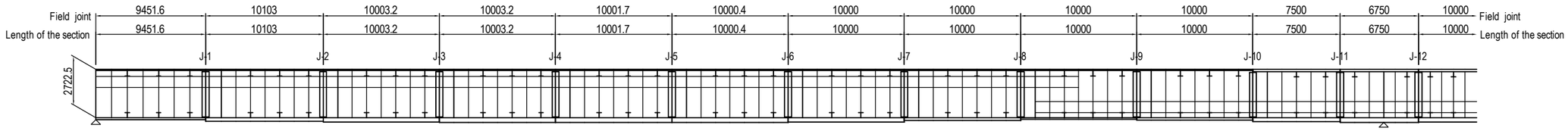


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	GENERAL VIEW OF SUPERSTRUCTURE (P13-P20)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1011

STRESS DIAGRAM OF MAIN GIRDER G1 (P13-P20) (1) S=1:400





Unit : mm N/mm2

		1	2	3	4	5	6	7	8	9	10	11	12	13		
Section		Sec-1	Sec-2	Sec-3	Sec-4	Sec-5	Sec-6	Sec-7	Sec-8	Sec-9	Sec-10	Sec-11	Sec-12	Sec-13	Section	
Deck Plate	Thickness	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	22, 22, 22	27, 27, 27	27, 27, 27	27, 27, 27	Thickness	Deck Plate
	Quality	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	Quality	
Longitu -dinal Rib1	Number	3-Bulb 3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb 3-Bulb 3-Bulb	3-Bulb 3-Bulb 3-Bulb	3-Bulb	3-Bulb 3-Bulb	3-Bulb	Number	Longitu -dinal Rib1
	Section	230*11 230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11 230*11 230*11	230*11 230*11 230*11	230*11	230*11 230*11	230*11	Section	
Longitu -dinal Rib2	Number	6-U-Rib 6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib 6-U-Rib 6-U-Rib	6-U-Rib 6-U-Rib 6-U-Rib	6-U-Rib	6-U-Rib 6-U-Rib	6-U-Rib	Number	Longitu -dinal Rib2
	Section	320*240*8 320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8 320*240*8 320*240*8	320*240*8 320*240*8 320*240*8	320*240*8	320*240*8 320*240*8	320*240*8	Section	
Left Web	Height	3044.3 3044.2	3044.2	3044.2	3044.2	3044.3	3044.3	3044.3	3044.3	3044.3 3044.3 3044.3	3037.5 3037.5 3037.5	3031.9	3031.9 3031.9	3031.9	Height	Left Web
	Thickness	12(3)	12(3)	12(4)	12(4)	12(4)	12(4)	12(4)	12(4)	12(3)	12(4)	12(4)	14(4)	12(4)	Thickness	
Right Web	Height	2714 2714.1	2714.1	2714.1	2714.1	2714.1	2714	2714	2714	2714 2714 2714	2708 2708 2708	2703	2703 2703	2703	Height	Right Web
	Thickness	12(3)	12(3)	12(4)	12(4)	12(4)	12(4)	12(4)	12(4)	12(3)	12(4)	12(4)	14(4)	12(4)	Thickness	
Lower flange Vertical rib	Number	2	2	2	2	2	2	2	2	5	5	5	5	5	Number	Lower flange Vertical rib
	Width	220	220	220	220	220	220	220	220	220	220	220	220	220	Width	
	Thickness	19(3)	19(3)	19(4)	19(4)	19(4)	19(4)	19(4)	19(4)	19(3)	19(4)	19(4)	19(4)	19(4)	Thickness	
Lflg W=1850 T		20(3)	38(3)	46(8)	52(8)	52(8)	52(8)	46(8)	30(4)	16(3)	24(4)	43(8)	52(8)	47(8)	Lflg W=1850 T	
Deck Plate	σ	0 -80	-132	-165	-180	-181	-178	-165	-136	-79 -7 53	-6 42 111	152	180 180	161	σ	Deck Plate
	σa	210 210	210	210	210	210	210	210	210	210 210 210	210 210 210	210	210 210	210	σa	
	σa-σ	210 130	78	45	30	29	32	45	74	131 203 157	204 168 99	58	30 30	49	σa-σ	
Lower flange	σ	0 145	174	195	197	199	197	196	204	136 12 -91	10 -74 -194	-220	-232 -232	-222	σ	Lower flange
	σa	210 210	210	255	255	255	255	255	255	210 210 158	255 255 255	255	255 255	255	σa	
	σa-σ	210 65	36	60	58	56	58	59	51	74 198 67	245 181 61	35	23 23	33	σa-σ	
Web	τ	60 48	36	25	16	14	19	28	41	53 59 59	59 59 70	81	73 65	73	τ	Web
	τa	120 120	120	145	145	145	145	145	145	120 120 120	145 145 145	145	145 145	145	τa	
	Combined	0.25 0.56	0.72	0.57	0.56	0.57	0.56	0.58	0.67	0.52 0.25 0.32	0.16 0.19 0.71	0.94	0.97 0.93	0.91	Combined	
Calculated points		Left J-1	J-2	J-3	J-4		J-5	J-6	J-7	J-8 J-9 J-9	Left Left J-10	J-11	Max Left Max Right	J-12	Calculated points	
Stress of Net Area σ															Stress of Net Area σ	
Lflg σspl															Lflg σspl	

Grade (1):SM400
(2):SM490
(3):SM490Y
(4):SM570
(5):SM400-H
(6):SM490-H
(7):SM520-H
(8):SM570-H

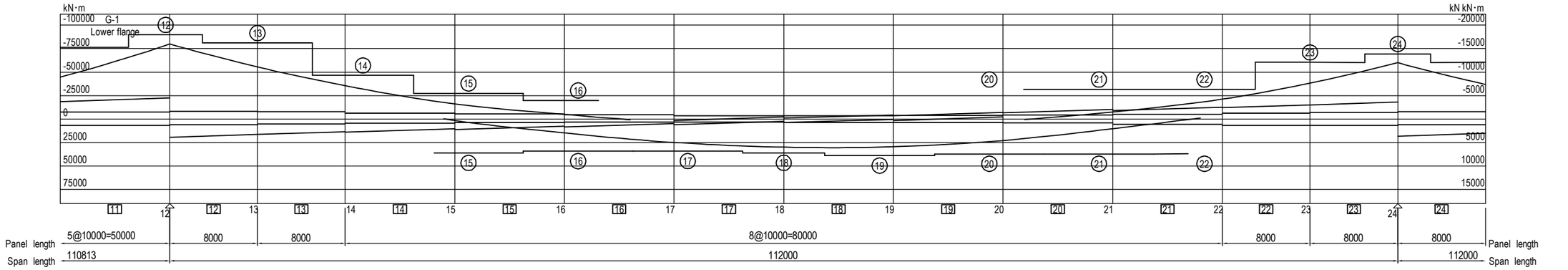
BAGO RIBER BRIDGE G-1

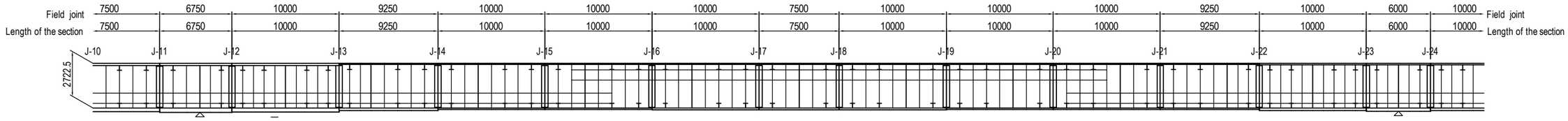
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
STRESS DIAGRAM OF MAIN GIRDER G1 (P13-P20) (1)	2
	DWG No.
	P2-SB-1021

STRESS DIAGRAM OF MAIN GIRDER G1 (P13-P20) (2) S=1:400





Unit : mm N/mm2

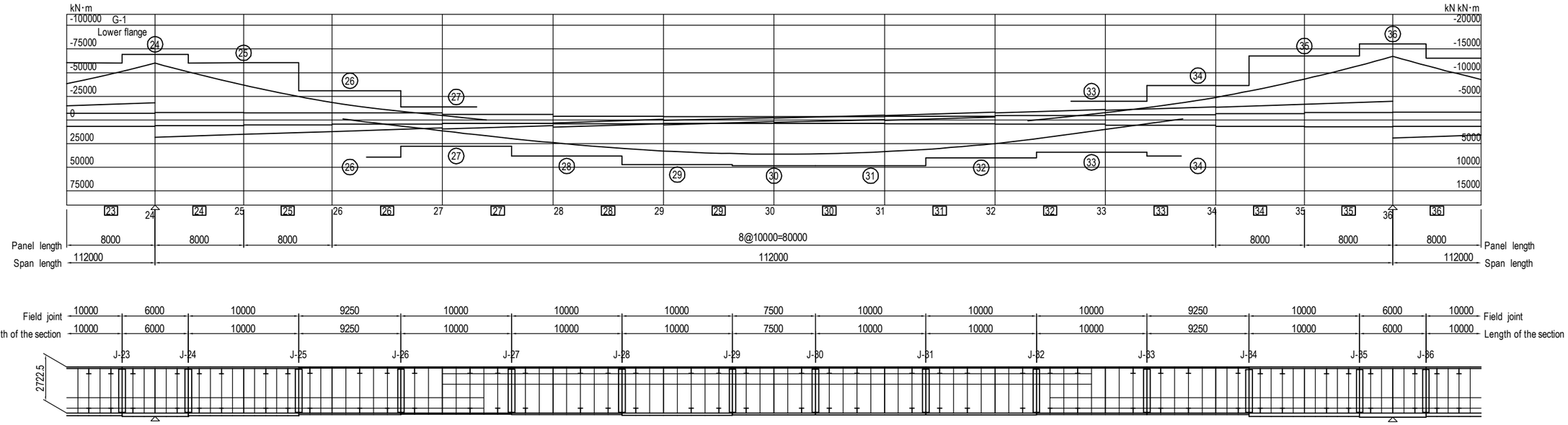
		11	12		13	14	15			16			17	18	19		20			21				22			23	24		25
Section		Sec-11	Sec-12		Sec-13	Sec-14	Sec-15			Sec-16			Sec-17	Sec-18	Sec-19		Sec-20			Sec-21				Sec-22			Sec-23	Sec-24		Sec-25
Deck Plate	Thickness	27, 27, 27	27, 27, 27		27, 27, 27	22, 22, 22	16, 16, 16			16, 16, 16			16, 16, 16	16, 16, 16	16, 16, 16		16, 16, 16			16, 16, 16				16, 16, 16			19, 19, 19	19, 19, 19		19, 19, 19
	Quality	(3),(3),(3)	(3),(3),(3)		(3),(3),(3)	(3),(3),(3)	(3),(3),(3)			(3),(3),(3)			(3),(3),(3)	(3),(3),(3)	(3),(3),(3)		(3),(3),(3)			(3),(3),(3)				(3),(3),(3)			(3),(3),(3)	(3),(3),(3)		(3),(3),(3)
Longitu -dinal Rib1	Number	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb
	Section	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11
Longitu -dinal Rib2	Number	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib
	Section	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8
Left Web	Height	3031.9	3031.9	3031.9	3031.9	3037.5	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3040.9	3040.9	3040.9	3040.9
	Thickness	12(4)	14(4)		12(4)	12(3)	12(3)			12(3)			12(3)	12(3)	12(3)		12(3)			12(3)				12(3)			12(4)	12(4)		12(4)
Right Web	Height	2703	2703	2703	2703	2708	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2711	2711	2711	2711
	Thickness	12(4)	14(4)		12(4)	12(3)	12(3)			12(3)			12(3)	12(3)	12(3)		12(3)			12(3)				12(3)			12(4)	12(4)		12(4)
Lower flange Vertical rib	Number	5	5		5	5	5			5			2	2	5		5			5				5			5	5		5
	Width	220	220		220	220	220			220			220	220	220		220			220				220			220	220		220
	Thickness	19(4)	19(4)		19(4)	19(3)	19(3)			19(3)			19(3)	19(3)	19(3)		19(3)			19(3)				19(3)			19(4)	19(4)		19(4)
Lflg W=1850 T		43(8)	52(8)		47(8)	27(3)	16(3)			14(3)			20(3)	22(3)	19(3)		17(3)			17(3)				17(3)			30(4)	38(4)		30(4)
Deck Plate	σ	152	180	180	161	114	76	-35	29	-36	29	-74	-97	-102	-101	-101	-93	-63	4	-63	4	-17	40	-17	40	91	154	177	177	153
	σa	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
	σa-σ	58	30	30	49	96	134	175	181	174	181	136	113	108	109	109	117	147	206	147	206	193	170	193	170	119	56	33	33	57
Lower flange	σ	-220	-232	-232	-222	-190	-131	61	-50	64	-53	133	177	178	165	165	158	107	-6	107	-6	29	-68	29	-68	-154	-218	-222	-222	-216
	σa	255	255	255	255	210	158	210	158	210	121	210	210	210	210	210	210	210	178	210	178	210	178	210	178	178	255	255	255	255
	σa-σ	35	23	23	33	20	27	149	108	146	68	77	33	32	45	45	52	103	172	103	172	181	110	181	110	25	37	33	33	39
Web	τ	81	73	65	73	60	50	39	39	39	39	28	18	14	14	14	22	33	33	33	33	44	44	44	44	55	67	71	72	69
	τa	145	145	145	145	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	145	145	145	145
	Combined	0.94	0.97	0.93	0.91	0.96	0.48	0.14	0.12	0.15	0.12	0.43	0.71	0.71	0.61	0.61	0.58	0.30	0.08	0.30	0.08	0.13	0.18	0.13	0.18	0.65	0.86	0.90	0.91	0.85
Calculated points		J-11	Max Left	Max Right	J-12	J-13	J-14	Right	Right	J-15	J-15	J-16	J-17	Right	J-18		J-19	J-20	J-20	Left	Left	J-21	J-21	Left	Left	J-22	J-23	Max Left	Max Right	J-24
Stress of Net Area σ																														
Lflg σspl																														

BAGO RIBER BRIDGE G-1

Grade (1):SM400 (5):SM400-H
(2):SM490 (6):SM490-H
(3):SM490Y (7):SM520-H
(4):SM570 (8):SM570-H

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA		15 Jun.2017	STRESS DIAGRAM OF MAIN GIRDER G1 (P13-P20) (2)	2
				CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1022

STRESS DIAGRAM OF MAIN GIRDER G1 (P13-P20) (3) S=1:400



Unit : mm N/mm2

		23	24		25	26			27			28	29	30		31	32	33			34			35	36		37
Section		Sec-23	Sec-24		Sec-25	Sec-26			Sec-27			Sec-28	Sec-29	Sec-30		Sec-31	Sec-32	Sec-33			Sec-34			Sec-35	Sec-36		Sec-37
Deck Plate	Thickness	19, 19, 19	19, 19, 19		19, 19, 19	16, 16, 16			16, 16, 16			16, 16, 16	16, 16, 16	16, 16, 16		16, 16, 16	16, 16, 16	16, 16, 16			16, 16, 16			22, 22, 22	22, 22, 22		22, 22, 22
	Quality	(3),(3),(3)	(3),(3),(3)		(3),(3),(3)	(3),(3),(3)			(3),(3),(3)			(3),(3),(3)	(3),(3),(3)	(3),(3),(3)		(3),(3),(3)	(3),(3),(3)	(3),(3),(3)			(3),(3),(3)			(3),(3),(3)	(3),(3),(3)		(3),(3),(3)
Longitu -dinal Rib1	Number	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb
	Section	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11
Longitu -dinal Rib2	Number	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib
	Section	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8
Left Web	Height	3040.9	3040.9	3040.9	3040.9	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3037.5	3037.5	3037.5	3037.5
	Thickness	12(4)	12(4)		12(4)	12(4)			12(3)			12(4)	12(4)	12(4)		12(4)	12(3)	12(3)			12(3)			12(4)	12(4)		12(4)
Right Web	Height	2711	2711	2711	2711	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2708	2708	2708	2708
	Thickness	12(4)	12(4)		12(4)	12(4)			12(3)			12(4)	12(4)	12(4)		12(4)	12(3)	12(3)			12(3)			12(4)	12(4)		12(4)
Lower flange Vertical rib	Number	5	5		5	2			2			2	2	5		5	5	5			5			5	5		2
	Width	220	220		220	220			220			220	220	220		220	220	220			220			220	220		220
	Thickness	19(4)	19(4)		19(4)	19(4)			19(3)			19(4)	19(4)	19(4)		19(4)	19(3)	19(3)			19(3)			19(4)	19(4)		19(4)
Lflg W=1850 T		30(4)	38(4)		30(4)	18(4)			13(3)			17(4)	25(4)	20(4)		20(4)	20(3)	14(3)			18(3)			36(4)	42(8)		40(4)
Deck Plate	σ	154	177	177	153	86	-23	31	-23	32	-70	-104	-117	-118	-120	-119	-103	-68	-14	44	-14	43	102	155	179	179	155
	σa	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
	σa-σ	56	33	33	57	124	187	179	187	178	140	106	93	92	90	91	107	142	196	166	196	167	108	55	31	31	55
Lower flange	σ	-218	-222	-222	-216	-162	43	-59	50	-69	151	203	193	188	191	190	164	123	26	-80	23	-72	-169	-219	-231	-231	-226
	σa	255	255	255	255	200	255	200	210	104	210	255	255	255	255	255	210	210	210	121	210	200	200	255	255	255	255
	σa-σ	37	33	33	39	38	212	141	160	35	59	52	62	67	64	65	46	87	184	41	187	128	31	36	24	24	29
Web	τ	67	71	72	69	57	45	45	46	46	34	25	16	16	14	16	26	37	49	49	48	48	60	73	76	75	72
	τa	145	145	145	145	145	145	145	120	120	120	145	145	145	145	145	120	120	120	120	120	120	120	145	145	145	145
	Combined	0.86	0.90	0.91	0.85	0.48	0.10	0.11	0.14	0.17	0.55	0.64	0.57	0.54	0.56	0.55	0.63	0.39	0.16	0.23	0.16	0.21	0.78	0.88	0.99	0.98	0.92
Calculated points		J-23	Max Left	Max Right	J-24	J-25	Right	Right	J-26	J-26	J-27	J-28	Right	J-29		J-30	J-31	J-32	J-33	J-33	Left	Left	J-34	J-35	Max Left	Max Right	J-36
Stress of Net Area σ																											
Lflg σspl																											

BAGO RIBER BRIDGE G-1

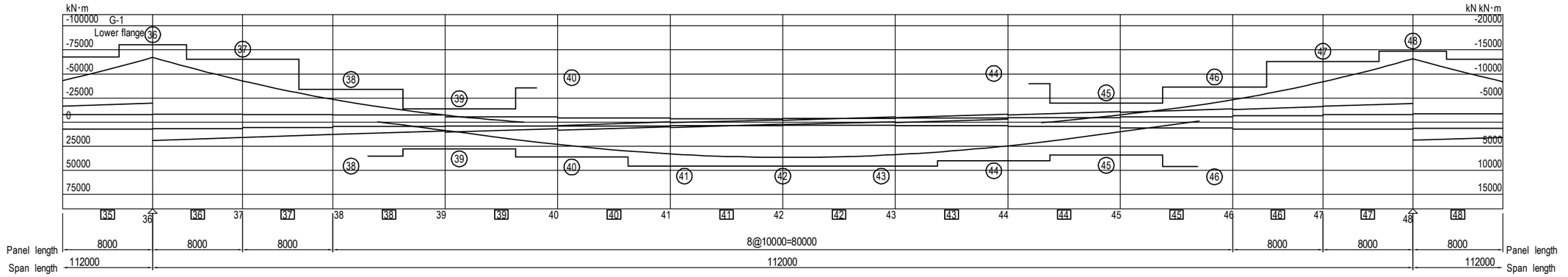
Grade (1):SM400 (5):SM400-H
(2):SM490 (6):SM490-H
(3):SM490Y (7):SM520-H
(4):SM570 (8):SM570-H

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
STRESS DIAGRAM OF MAIN GIRDER G1 (P13-P20) (3)	2
	DWG No.
	P2-SB-1023

STRESS DIAGRAM OF MAIN GIRDER G1 (P13-P20) (4) S=1:400



Unit : mm N/mm2

		35	36		37	38			39				40			41	42	43	44			45				46			47	48		49
Section		Sec-35	Sec-36			Sec-37	Sec-38			Sec-39				Sec-40			Sec-41	Sec-42	Sec-43	Sec-44			Sec-45				Sec-46			Sec-47	Sec-48		Sec-49
Deck Plate	Thickness	22, 22, 22	22, 22, 22			22, 22, 22	16, 16, 16			16, 16, 16				16, 16, 16			16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16			16, 16, 16				16, 16, 16			21, 21, 21	21, 21, 21		21, 21, 21
	Quality	(3),(3),(3)	(3),(3),(3)			(3),(3),(3)	(3),(3),(3)			(3),(3),(3)				(3),(3),(3)			(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)			(3),(3),(3)				(3),(3),(3)			(3),(3),(3)	(3),(3),(3)		(3),(3),(3)
Longitu -dinal Rib1	Number	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb
	Section	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11
Longitu -dinal Rib2	Number	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib
	Section	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8
Left Web	Height	3037.5	3037.5	3037.5	3037.5	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3038.7	3038.7	3038.7	3038.7
	Thickness	12(4)	12(4)		12(4)	12(3)			12(3)				12(3)			12(3)	12(3)	12(3)	12(3)			12(3)				12(4)			12(4)	12(4)		12(4)
Right Web	Height	2708	2708	2708	2708	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2709	2709	2709	2709
	Thickness	12(4)	12(4)		12(4)	12(3)			12(3)				12(3)			12(3)	12(3)	12(3)	12(3)			12(3)				12(4)			12(4)	12(4)		12(4)
Lower flange Vertical rib	Number	5	5		2	2			2				2			5	5	5	5			5				5			5	5		5
	Width	220	220		220	220			220				220			220	220	220	220			220				220			220	220		220
	Thickness	19(4)	19(4)		19(4)	19(3)			19(3)				19(3)			19(3)	19(3)	19(3)	19(3)			19(3)				19(4)			19(4)	19(4)		19(4)
Lflg W=1850 T		36(4)	42(8)		40(4)	21(3)			13(3)				22(3)			26(3)	26(3)	26(3)	20(3)			14(3)				18(4)			32(4)	42(8)		40(4)
Deck Plate	σ	155	179	179	155	102	-10	42	-11	45	-65	2	-61	2	-101	-116	-118	-117	-103	-65	1	-67	1	-15	43	-14	42	99	158	180	180	154
	σa	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
	σa-σ	55	31	31	55	108	200	168	199	165	145	208	149	208	109	94	92	93	107	145	209	143	209	195	167	196	168	111	52	30	30	56
Lower flange	σ	-219	-231	-231	-226	-181	18	-75	23	-96	139	-4	106	-3	176	167	170	168	164	104	-1	121	-1	26	-78	24	-70	-164	-229	-227	-227	-200
	σa	255	255	255	255	202	210	202	210	104	210	104	210	207	210	210	210	210	210	210	210	210	121	210	121	255	200	200	255	255	255	255
	σa-σ	36	24	24	29	20	192	126	187	9	71	100	104	204	34	43	40	42	46	106	209	89	120	184	43	231	130	36	26	28	28	55
Web	τ	73	76	75	72	59	47	47	48	48	37	37	36	36	27	16	14	16	27	37	37	37	37	48	48	48	48	59	73	76	75	72
	τa	145	145	145	145	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	145	145	145	145	145	145	145
	Combined	0.88	0.99	0.98	0.92	0.87	0.16	0.22	0.16	0.28	0.48	0.10	0.30	0.09	0.71	0.63	0.64	0.64	0.63	0.30	0.09	0.38	0.10	0.16	0.23	0.11	0.14	0.51	0.95	0.96	0.95	0.77
Calculated points		J-35	Max Left	Max Right	J-36	J-37	Right	Right	J-38	J-38	J-39	J-39	Left	Left	J-40	J-41		J-42	J-43	Right	Right	J-44	J-44	J-45	J-45	Left	Left	J-46	J-47	Max Left	Max Right		J-48
Stress of Net Area σ																																
Lflg σspl																																

BAGO RIBER BRIDGE G-1

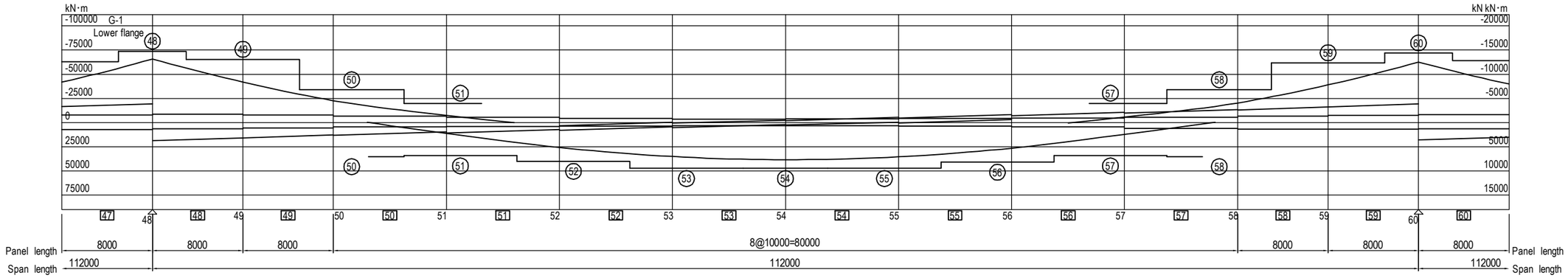
Grade (1):SM400 (5):SM400-H
(2):SM490 (6):SM490-H
(3):SM490Y (7):SM520-H
(4):SM570 (8):SM570-H

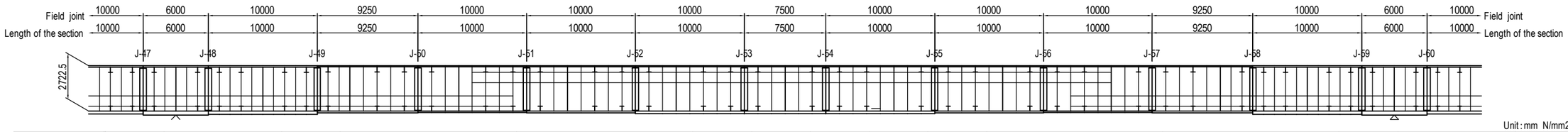
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
STRESS DIAGRAM OF MAIN GIRDER G1 (P13-P20) (4)	2
	DWG No.
	P2-SB-1024

STRESS DIAGRAM OF MAIN GIRDER G1 (P13-P20) (5) S=1:400





Unit : mm N/mm2

		47	48		49	50			51			52	53	54	55	56	57			58			59	60		61
Section		Sec-47	Sec-48		Sec-49	Sec-50			Sec-51			Sec-52	Sec-53	Sec-54	Sec-55	Sec-56	Sec-57			Sec-58			Sec-59	Sec-60		Sec-61
Deck Plate	Thickness	21, 21, 21	21, 21, 21		21, 21, 21	16, 16, 16			16, 16, 16			16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16			16, 16, 16			20, 20, 20	20, 20, 20		20, 20, 20
	Quality	(3),(3),(3)	(3),(3),(3)		(3),(3),(3)	(3),(3),(3)			(3),(3),(3)			(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)			(3),(3),(3)			(3),(3),(3)	(3),(3),(3)		(3),(3),(3)
Longitu -dinal Rib1	Number	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb
	Section	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11
Longitu -dinal Rib2	Number	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib
	Section	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8
Left Web	Height	3038.7	3038.7	3038.7	3038.7	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3039.8	3039.8	3039.8	3039.8
	Thickness	12(4)	12(4)		12(4)	12(3)			12(3)			12(3)	12(3)	12(3)	12(3)	12(3)	12(3)			12(3)			12(4)	12(4)		12(4)
Right Web	Height	2709	2709	2709	2709	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2710	2710	2710	2710
	Thickness	12(4)	12(4)		12(4)	12(3)			12(3)			12(3)	12(3)	12(3)	12(3)	12(3)	12(3)			12(3)			12(4)	12(4)		12(4)
Lower flange Vertical rib	Number	5	5		5	2			5			5	5	5	5	5	5			2			5	5		5
	Width	220	220		220	220			220			220	220	220	220	220	220			220			220	220		220
	Thickness	19(4)	19(4)		19(4)	19(3)			19(3)			19(3)	19(3)	19(3)	19(3)	19(3)	19(3)			19(3)			19(4)	19(4)		19(4)
Lflg W=1850 T		32(4)	42(8)		40(4)	21(3)			14(3)			20(3)	28(3)	28(3)	28(3)	21(3)	14(3)			21(3)			37(4)	39(4)		33(4)
Deck Plate	σ	158	180	180	154	99	-17	42	-18	43	-71	-107	-121	-123	-122	-108	-74	-22	36	-22	35	90	151	178	178	154
	σa	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
	σa-σ	52	30	30	56	111	193	168	192	167	139	103	89	87	88	102	136	188	174	188	175	120	59	32	32	56
Lower flange	σ	-229	-227	-227	-200	-176	31	-75	32	-77	128	171	169	171	170	170	133	40	-65	39	-63	-160	-199	-227	-227	-215
	σa	255	255	255	255	202	210	202	210	121	210	210	210	210	210	210	210	210	121	210	202	202	255	255	255	255
	σa-σ	26	28	28	55	26	179	127	178	44	82	39	41	39	40	40	77	170	56	171	139	42	56	28	28	40
Web	τ	73	76	75	72	60	48	48	48	48	37	26	16	14	16	26	36	47	47	47	47	59	72	75	72	69
	τa	145	145	145	145	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	145	145	145	145
	Combined	0.95	0.96	0.95	0.77	0.82	0.16	0.22	0.16	0.22	0.42	0.68	0.64	0.65	0.64	0.67	0.45	0.16	0.18	0.15	0.18	0.70	0.76	0.95	0.94	0.84
Calculated points		J-47	Max Left	Max Right	J-48	J-49	Right	Right	J-50	J-50	J-51	J-52	J-53		J-54	J-55	J-56	J-57	J-57	Left	Left	J-58	J-59	Max Left	Max Right	J-60
Stress of Net Area σ																										
Lflg σspl																										

BAGO RIBER BRIDGE G-1

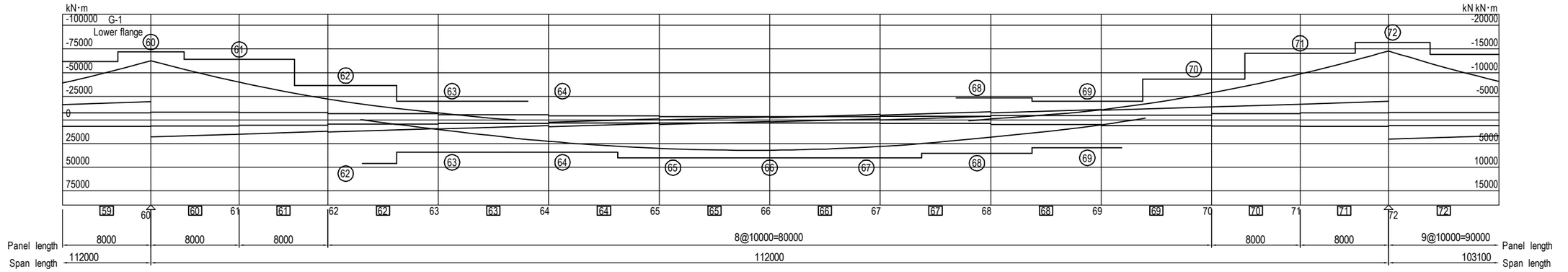
Grade (1):SM400 (5):SM400-H
(2):SM490 (6):SM490-H
(3):SM490Y (7):SM520-H
(4):SM570 (8):SM570-H

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
STRESS DIAGRAM OF MAIN GIRDER G1 (P13-P20) (5)	2
	DWG No.
	P2-SB-1025

STRESS DIAGRAM OF MAIN GIRDER G1 (P13-P20) (6) S=1:400



Unit : mm N/mm2

		59	60		61	62			63				64			65	66	67	68			69			70	71	72		73
Section		Sec-59	Sec-60		Sec-61	Sec-62			Sec-63				Sec-64			Sec-65	Sec-66	Sec-67	Sec-68			Sec-69			Sec-70	Sec-71	Sec-72		Sec-73
Deck Plate	Thickness	20, 20, 20	20, 20, 20		20, 20, 20	16, 16, 16			16, 16, 16				16, 16, 16			16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16			16, 16, 16			16, 16, 16	25, 25, 25	25, 25, 25		25, 25, 25
	Quality	(3),(3),(3)	(3),(3),(3)		(3),(3),(3)	(3),(3),(3)			(3),(3),(3)				(3),(3),(3)			(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)			(3),(3),(3)			(3),(3),(3)	(3),(3),(3)	(3),(3),(3)		(3),(3),(3)
Longitu -dinal Rib1	Number	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb
	Section	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11
Longitu -dinal Rib2	Number	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib
	Section	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8
Left Web	Height	3039.8	3039.8	3039.8	3039.8	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3034.1	3034.1	3034.1	3034.1
	Thickness	12(4)	12(4)		12(4)	12(4)			12(3)				12(3)			12(3)	12(3)	12(3)	12(3)			12(3)			12(4)	12(4)	12(4)		12(4)
Right Web	Height	2710	2710	2710	2710	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2705	2705	2705	2705
	Thickness	12(4)	12(4)		12(4)	12(4)			12(3)				12(3)			12(3)	12(3)	12(3)	12(3)			12(3)			12(4)	12(4)	12(4)		12(4)
Lower flange Vertical rib	Number	5	5		5	5			5				5			5	5	5	5			2			2	5	5		5
	Width	220	220		220	220			220				220			220	220	220	220			220			220	220	220		220
	Thickness	19(4)	19(4)		19(4)	19(4)			19(3)				19(3)			19(3)	19(3)	19(3)	19(3)			19(3)			19(4)	19(4)	19(4)		19(4)
Lflg W=1850 T		37(4)	39(4)		33(4)	18(4)			14(3)				14(3)			20(3)	20(3)	20(3)	15(3)			15(3)			22(4)	44(8)	50(8)		42(8)
Deck Plate	σ	151	178	178	154	94	-16	40	-16	41	-63	1	-63	1	-95	-106	-106	-103	-85	-47	14	-49	15	58	120	154	176	176	146
	σa	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
	σa-σ	59	32	32	56	116	194	170	194	169	147	209	147	209	115	104	104	107	125	163	196	161	195	152	90	56	34	34	64
Lower flange	σ	-199	-227	-227	-215	-156	26	-67	29	-74	114	-3	114	-3	172	169	170	165	150	83	-25	99	-30	-118	-208	-210	-223	-223	-205
	σa	255	255	255	255	200	255	200	210	121	210	121	210	121	210	210	210	210	210	210	139	210	139	139	250	255	255	255	255
	σa-σ	56	28	28	40	44	229	133	181	47	96	118	96	118	38	41	40	45	60	127	114	111	109	21	42	45	32	32	50
Web	τ	72	75	72	69	57	45	45	45	45	34	34	34	34	23	14	13	17	28	37	37	38	38	49	60	73	76	79	75
	τa	145	145	145	145	145	145	145	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	145	145	145	145	145
	Combined	0.76	0.95	0.94	0.84	0.46	0.10	0.13	0.14	0.20	0.33	0.08	0.33	0.08	0.68	0.64	0.65	0.62	0.53	0.21	0.10	0.27	0.10	0.39	0.75	0.83	0.93	0.95	0.81
Calculated points		J-59	Max Left	Max Right	J-60	J-61	Right	Right	J-62	J-62	J-63	J-63	Left	Left	J-64	J-65		J-66	J-67	J-68	J-68	Left	Left	J-69	J-70	J-71	Max Left	Max Right	J-72
Stress of Net Area σ																													
Lflg σspl																													

BAGO RIBER BRIDGE G-1

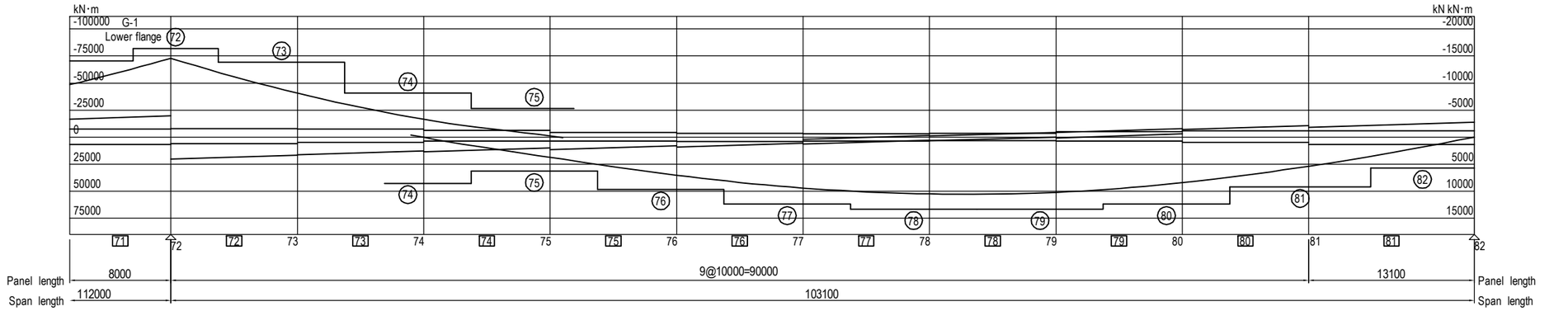
Grade (1):SM400 (5):SM400-H
(2):SM490 (6):SM490-H
(3):SM490Y (7):SM520-H
(4):SM570 (8):SM570-H

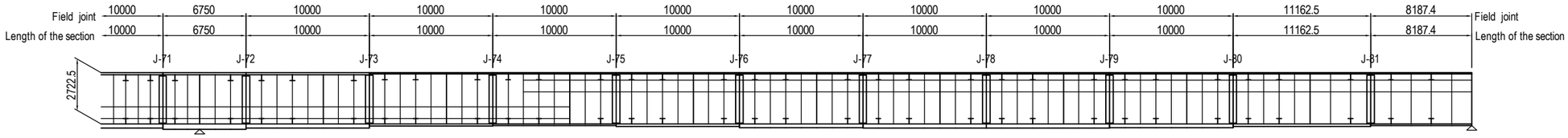
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
STRESS DIAGRAM OF MAIN GIRDER G1 (P13-P20) (6)	2
	DWG No.
	P2-SB-1026

STRESS DIAGRAM OF MAIN GIRDER G1 (P13-P20) (7) S=1:400





Unit : mm N/mm2

		71	72		73	74			75			76	77	78	79	80	81	82			
Section		Sec-71	Sec-72		Sec-73	Sec-74			Sec-75			Sec-76	Sec-77	Sec-78	Sec-79	Sec-80	Sec-81	Sec-82		Section	
Deck Plate	Thickness	25, 25, 25	25, 25, 25		25, 25, 25	16, 16, 16			16, 16, 16			16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16		Thickness	Deck Plate
	Quality	(3),(3),(3)	(3),(3),(3)		(3),(3),(3)	(3),(3),(3)			(3),(3),(3)			(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)		Quality	
Longitu -dinal Rib1	Number	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	3-Bulb	Number	Longitu -dinal Rib1
	Section	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	Section	
Longitu -dinal Rib2	Number	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	Number	Longitu -dinal Rib2
	Section	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	Section	
Left Web	Height	3034.1	3034.1	3034.1	3034.1	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	3044.3	Height	Left Web
	Thickness	12(4)	12(4)		12(4)	12(4)			12(3)			12(4)	12(4)	12(4)	12(4)	12(4)	12(4)	12(3)		Thickness	
Right Web	Height	2705	2705	2705	2705	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	2714	Height	Right Web
	Thickness	12(4)	12(4)		12(4)	12(4)			12(3)			12(4)	12(4)	12(4)	12(4)	12(4)	12(4)	12(3)		Thickness	
Lower flange Vertical rib	Number	5	5		5	2			2			2	2	2	2	2	2	2		Number	Lower flange Vertical rib
	Width	220	220		220	220			220			220	220	220	220	220	220	220		Width	
	Thickness	19(4)	19(4)		19(4)	19(4)			19(3)			19(4)	19(4)	19(4)	19(4)	19(4)	19(4)	19(3)		Thickness	
Lflg W=1850 T		44(8)	50(8)		42(8)	21(4)			17(3)			26(4)	38(4)	42(8)	42(8)	38(4)	24(4)	14(3)		Lflg W=1850 T	
Deck Plate	σ	154	176	176	146	104	-26	34	-27	34	-88	-133	-156	-163	-163	-152	-123	-63	0	σ	Deck Plate
	σa	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	σa	
	σa-σ	56	34	34	64	106	184	176	183	176	122	77	54	47	47	58	87	147	210	σa-σ	
Lower flange	σ	-210	-223	-223	-205	-184	47	-60	52	-67	170	214	206	204	204	201	206	132	0	σ	Lower flange
	σa	255	255	255	255	243	255	243	210	176	210	255	255	255	255	255	255	210	210	σa	
	σa-σ	45	32	32	50	58	208	183	158	109	40	41	49	51	51	54	49	78	210	σa-σ	
Web	τ	73	76	79	75	63	51	51	51	51	41	33	22	13	12	25	37	47	58	τ	Web
	τa	145	145	145	145	145	145	145	120	120	120	145	145	145	145	145	145	120	120	τa	
	Combined	0.83	0.93	0.95	0.81	0.62	0.12	0.12	0.18	0.19	0.71	0.72	0.64	0.61	0.61	0.61	0.68	0.46	0.24	Combined	
Calculated points		J-71	Max Left	Max Right	J-72	J-73	Right	Right	J-74	J-74	J-75	J-76	J-77		J-78	J-79	J-80	J-81	Right	Calculated points	
Stress of Net Area σ																				Stress of Net Area σ	
Lflg σspl																				Lflg σspl	

Grade (1):SM400
(2):SM490
(3):SM490Y
(4):SM570
(5):SM400-H
(6):SM490-H
(7):SM520-H
(8):SM570-H

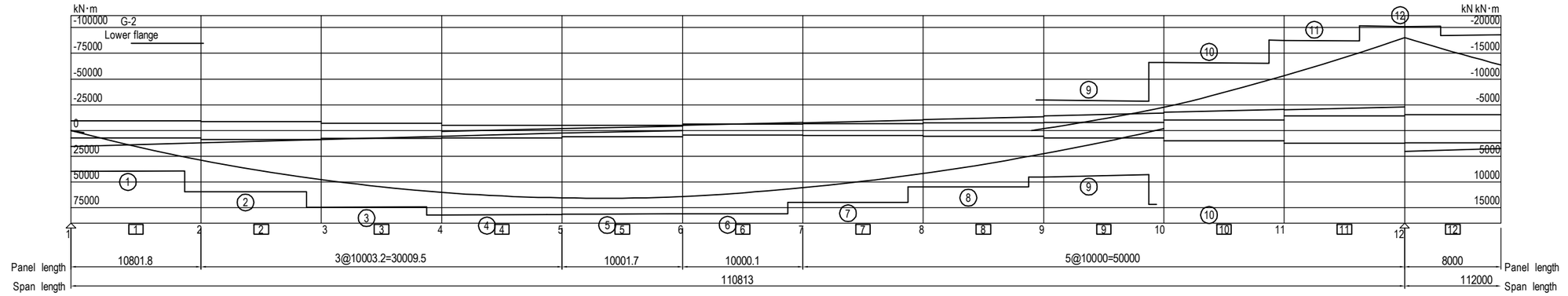
BAGO RIBER BRIDGE G-1

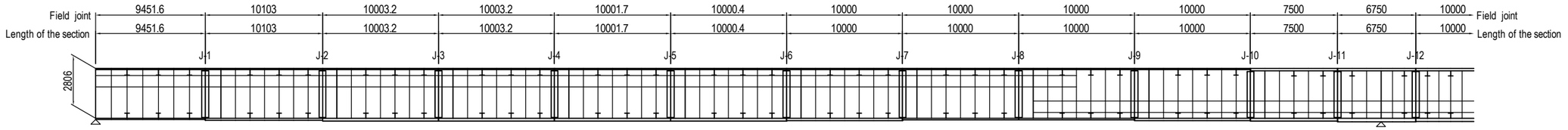
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
STRESS DIAGRAM OF MAIN GIRDER G1 (P13-P20) (7)	2
	DWG No.
	P2-SB-1027

STRESS DIAGRAM OF MAIN GIRDER G2 (P13-P20) (1) S=1:400





Unit : mm N/mm2

		1	2	3	4	5	6	7	8	9	10	11	12	13		
Section		Sec-1	Sec-2	Sec-3	Sec-4	Sec-5	Sec-6	Sec-7	Sec-8	Sec-9	Sec-10	Sec-11	Sec-12	Sec-13	Section	
Deck Plate	Thickness	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	22, 22, 22	27, 27, 27	27, 27, 27	27, 27, 27	Thickness	Deck Plate
	Quality	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	Quality	
Longitu -dinal Rib1	Number	6-U-Rib / 6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib / 6-U-Rib / 6-U-Rib	6-U-Rib / 6-U-Rib / 6-U-Rib	6-U-Rib	6-U-Rib	Number	Longitu -dinal Rib1
	Section	320*240*8 / 320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8 / 320*240*8 / 320*240*8	320*240*8 / 320*240*8 / 320*240*8	320*240*8 / 320*240*8 / 320*240*8	320*240*8	320*240*8	Section	
Longitu -dinal Rib2	Number	5-Bulb / 5-Bulb	5-Bulb	4-Bulb	4-Bulb	4-Bulb	4-Bulb	4-Bulb	2-Bulb	2-Bulb / 2-Bulb / 2-Bulb	2-Bulb / 2-Bulb / 2-Bulb	2-Bulb / 2-Bulb / 2-Bulb	2-Bulb	2-Bulb	Number	Longitu -dinal Rib2
	Section	230*11 / 230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11 / 230*11 / 230*11	230*11 / 230*11 / 230*11	230*11 / 230*11 / 230*11	230*11	230*11	Section	
Left Web	Height	2747 / 2746.9	2746.9	2746.9	2746.9	2746.9	2747	2747	2747	2747 / 2747 / 2747	2741 / 2741 / 2741	2736	2736	2736	Height	Left Web
	Thickness	11(3)	11(4)	11(4)	11(4)	11(4)	11(4)	11(4)	11(4)	11(3)	13(4)	13(4)	13(4)	11(4)	Thickness	
Right Web	Height	2801 / 2801.1	2801.1	2801.1	2801.1	2801.1	2801	2801	2801	2801 / 2801 / 2801	2795 / 2795 / 2795	2790	2790	2790	Height	Right Web
	Thickness	11(3)	11(4)	11(4)	11(4)	11(4)	11(4)	11(4)	11(4)	11(3)	13(4)	13(4)	13(4)	11(4)	Thickness	
Lower flange Vertical rib	Number	3	3	3	3	3	3	3	3	3	7	7	7	7	Number	Lower flange Vertical rib
	Width	220	220	220	220	220	220	220	220	220	220	220	240	220	Width	
	Thickness	19(3)	19(4)	19(4)	19(4)	19(4)	19(4)	19(4)	19(4)	19(3)	19(4)	19(4)	19(4)	19(4)	Thickness	
Lflg W=2940 T		14(3)	20(4)	28(4)	32(4)	32(4)	32(4)	26(4)	18(4)	18(3)	27(4)	32(4)	40(4)	35(4)	Lflg W=1850 T	
Deck Plate	σ	0 / -73	-128	-165	-185	-186	-185	-167	-140	-81 / -5 / 63	-4 / 48 / 123	164	193	174	σ	Deck Plate
	σa	210 / 210	210	210	210	210	210	210	210	210 / 210 / 210	210 / 210 / 210	210	210	210	σa	
	σa-σ	210 / 137	82	45	25	24	25	43	70	129 / 205 / 147	206 / 162 / 87	46	17	36	σa-σ	
Lower flange	σ	0 / 138	198	203	205	208	205	210	206	118 / 8 / -96	5 / -61 / -156	-214	-218	-216	σ	Lower flange
	σa	210 / 210	255	255	255	255	255	255	255	210 / 210 / 139	255 / 255 / 255	255	255	255	σa	
	σa-σ	210 / 72	57	52	50	47	50	45	49	92 / 202 / 43	250 / 194 / 99	41	37	39	σa-σ	
Web	τ	70 / 58	44	31	20	17	22	34	44	56 / 70 / 70	58 / 58 / 71	79	82	75	85	τ	Web
	τa	120 / 120	145	145	145	145	145	145	145	120 / 120 / 120	145 / 145 / 145	145	145	145	τa	
	Combined	0.34 / 0.57	0.66	0.65	0.63	0.64	0.63	0.68	0.70	0.45 / 0.34 / 0.43	0.16 / 0.18 / 0.54	0.91	0.96	0.92	0.98	Combined	
Calculated points		Left / J-1	J-2	J-3	J-4		J-5	J-6	J-7	J-8 / J-9 / J-9	Left / Left / J-10	J-11	Max Left	Max Right	J-12	Calculated points	
Stress of Net Area σ																Stress of Net Area σ	
Lflg σspl																Lflg σspl	

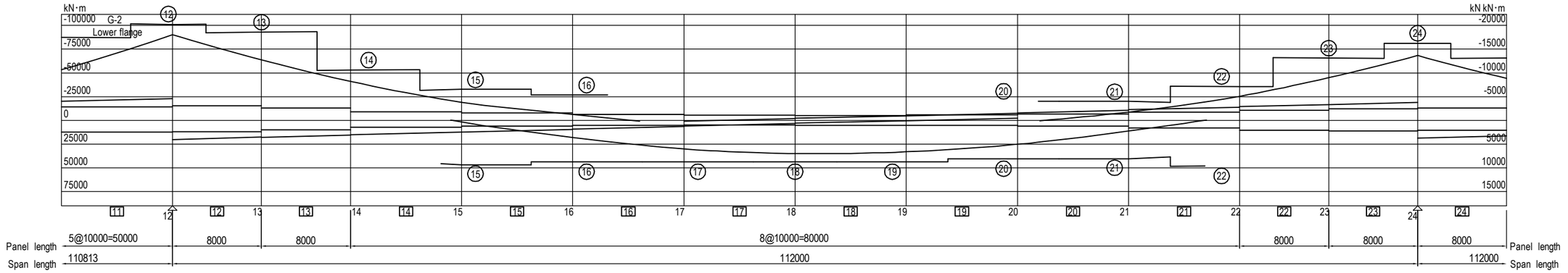
BAGO RIBER BRIDGE G-2

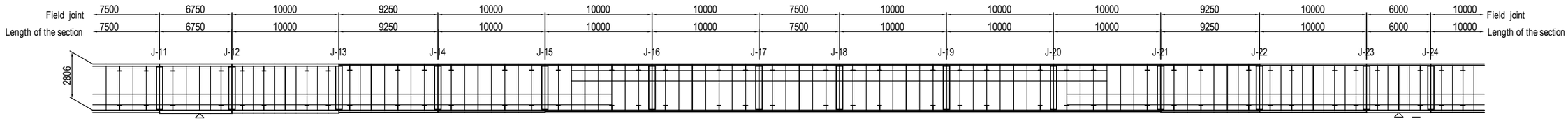
Grade (1):SM400
(2):SM490
(3):SM490Y
(4):SM570

		NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	PREPARED BY	S. IMADA		15 Jun.2017	STRESS DIAGRAM OF MAIN GIRDER G2 (P13-P20) (1)	2
FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1028

JICA STUDY TEAM: NIPPON KOEI CO., LTD. / ORIENTAL CONSULTANTS GLOBAL CO., LTD. / METROPOLITAN EXPRESSWAY COMPANY LIMITED / CHODAI CO.,LTD. / NIPPON ENGINEERING CONSULTANTS CO.,LTD.

STRESS DIAGRAM OF MAIN GIRDER G2 (P13-P20) (2) S=1:400





Unit : mm N/mm2

		11	12		13	14	15			16			17	18	19	20			21				22			23	24		25
Section		Sec-11	Sec-12		Sec-13	Sec-14	Sec-15			Sec-16			Sec-17	Sec-18	Sec-19	Sec-20			Sec-21				Sec-22			Sec-23	Sec-24		Sec-25
Deck Plate	Thickness	27, 27, 27	27, 27, 27		27, 27, 27	22, 22, 22	16, 16, 16			16, 16, 16			16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16			16, 16, 16				16, 16, 16			19, 19, 19	19, 19, 19		19, 19, 19
	Quality	(3),(3),(3)	(3),(3),(3)		(3),(3),(3)	(3),(3),(3)	(3),(3),(3)			(3),(3),(3)			(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)			(3),(3),(3)				(3),(3),(3)			(3),(3),(3)	(3),(3),(3)		(3),(3),(3)
Longitu -dinal Rib1	Number	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib
	Section	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8
Longitu -dinal Rib2	Number	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb
	Section	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11
Left Web	Height	2736	2736	2736	2736	2741	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2744	2744	2744	2744
	Thickness	13(4)	13(4)		11(4)	11(4)	11(3)			11(3)			11(3)	11(3)	11(3)	11(3)			11(3)				11(3)			11(4)	11(4)		11(4)
Right Web	Height	2790	2790	2790	2790	2795	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2798	2798	2798	2798
	Thickness	13(4)	13(4)		11(4)	11(4)	11(3)			11(3)			11(3)	11(3)	11(3)	11(3)			11(3)				11(3)			11(4)	11(4)		11(4)
Lower flange Vertical rib	Number	7	7		7	3	3			3			3	3	3	3			3				3			7	7		7
	Width	220	240		220	220	220			220			220	220	220	220			220				220			220	220		220
	Thickness	19(4)	19(4)		19(4)	19(4)	19(3)			19(3)			19(3)	19(3)	19(3)	19(3)			19(3)				19(3)			19(4)	19(4)		19(4)
Lflg W=2940 T		32(4)	40(4)		35(4)	24(4)	19(3)			17(3)			17(3)	17(3)	17(3)	15(3)			15(3)				20(3)			27(4)	27(4)		27(4)
Deck Plate	σ	164	193	193	174	127	84	-40	33	-40	34	-84	-109	-113	-113	-101	-67	4	-67	4	-17	46	-17	45	103	165	191	191	164
	σa	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
	σa-σ	46	17	17	36	83	126	170	177	170	176	126	101	97	97	109	143	206	143	206	193	164	193	165	107	45	19	19	46
Lower flange	σ	-214	-218	-218	-216	-196	-125	57	-48	61	-51	127	165	171	170	162	108	-7	108	-7	29	-78	24	-65	-148	-194	-225	-225	-193
	σa	255	255	255	255	213	148	210	148	210	129	210	210	210	210	210	210	104	210	104	210	104	210	156	156	255	255	255	255
	σa-σ	41	37	37	39	17	23	153	100	149	77	83	45	39	40	48	102	98	102	98	181	26	186	91	8	61	30	30	62
Web	τ	79	82	75	85	74	60	48	48	48	48	35	22	16	18	28	40	40	40	40	55	55	54	54	68	78	82	82	79
	τa	145	145	145	145	145	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	145	145	145	145
	Combined	0.91	0.96	0.92	0.98	0.77	0.52	0.18	0.16	0.19	0.17	0.42	0.63	0.66	0.66	0.62	0.33	0.11	0.33	0.11	0.21	0.27	0.21	0.24	0.71	0.79	1.00	1.00	0.79
Calculated points		J-11	Max Left	Max Right	J-12	J-13	J-14	Right	Right	J-15	J-15	J-16	J-17		J-18	J-19	J-20	J-20	Left	Left	J-21	J-21	Left	Left	J-22	J-23	Max Left	Max Right	J-24
Stress of Net Area σ																													
Lflg σspl																													

Grade (1):SM400
(2):SM490
(3):SM490Y
(4):SM570

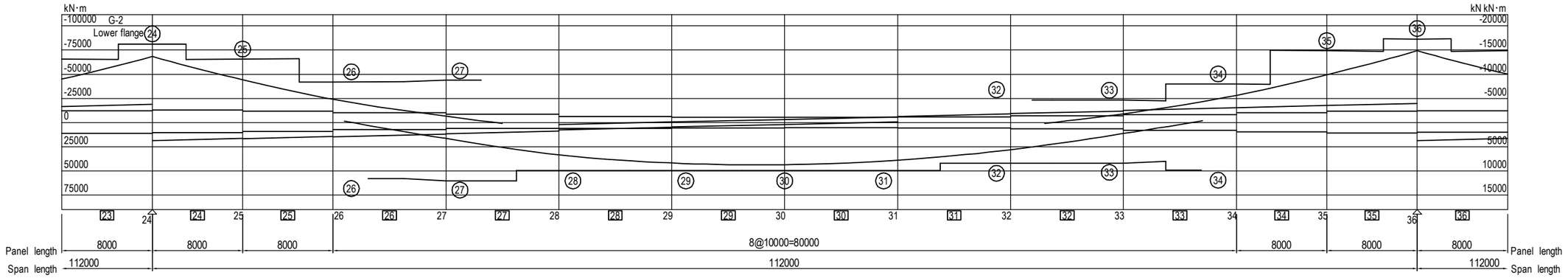
BAGO RIBER BRIDGE G-2

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
STRESS DIAGRAM OF MAIN GIRDER G2 (P13-P20) (2)	2
	DWG No.
	P2-SB-1029

STRESS DIAGRAM OF MAIN GIRDER G2 (P13-P20) (3) S=1:400



Unit : mm N/mm2

		23	24		25	26			27			28		29	30	31	32			33				34			35	36		37
Section		Sec-23	Sec-24		Sec-25	Sec-26			Sec-27			Sec-28		Sec-29	Sec-30	Sec-31	Sec-32			Sec-33				Sec-34			Sec-35	Sec-36		Sec-37
Deck Plate	Thickness	19, 19, 19	19, 19, 19		19, 19, 19	16, 16, 16			16, 16, 16			16, 16, 16		16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16			16, 16, 16				16, 16, 16			22, 22, 22	22, 22, 22		22, 22, 22
	Quality	(3),(3),(3)	(3),(3),(3)		(3),(3),(3)	(3),(3),(3)			(3),(3),(3)			(3),(3),(3)		(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)			(3),(3),(3)				(3),(3),(3)			(3),(3),(3)	(3),(3),(3)		(3),(3),(3)
Longitu -dinal Rib1	Number	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib
	Section	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8
Longitu -dinal Rib2	Number	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb
	Section	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11
Left Web	Height	2744	2744	2744	2744	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2741	2741	2741	2741
	Thickness	11(4)	11(4)		11(4)	11(4)			11(4)			11(3)		11(3)	11(3)	11(3)	11(3)			11(3)				11(3)			11(4)	11(4)		11(4)
Right Web	Height	2798	2798	2798	2798	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2795	2795	2795	2795
	Thickness	11(4)	11(4)		11(4)	11(4)			11(4)			11(3)		11(3)	11(3)	11(3)	11(3)			11(3)				11(3)			11(4)	11(4)		11(4)
Lower flange Vertical rib	Number	7	7		7	3			3			3		3	3	3	3			3				3			7	7		7
	Width	220	220		220	220			220			220		220	220	220	220			220				220			220	220		220
	Thickness	19(4)	19(4)		19(4)	19(4)			19(4)			19(3)		19(3)	19(3)	19(3)	19(3)			19(3)				19(3)			19(4)	19(4)		19(4)
Lflg W=2940 T		27(4)	27(4)		27(4)	21(4)			21(4)			21(3)		21(3)	21(3)	21(3)	16(3)			16(3)				22(3)			30(4)	30(4)		30(4)
Deck Plate	σ	165	191	191	164	99	-30	40	-30	40	-87	-87	-124	-137	-137	-134	-115	-73	0	-73	0	-14	50	-14	49	113	163	188	188	163
	σa	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
	σa-σ	45	19	19	46	111	180	170	180	170	123	123	86	73	73	76	95	137	210	137	210	196	160	196	161	97	47	22	22	47
Lower flange	σ	-194	-225	-225	-193	-139	41	-56	41	-56	118	118	168	185	186	181	179	113	-1	113	-1	23	-82	19	-66	-154	-196	-227	-227	-197
	σa	255	255	255	255	185	255	185	255	185	255	210	210	210	210	210	210	210	117	210	117	210	117	210	170	170	255	255	255	255
	σa-σ	61	30	30	62	46	214	129	214	129	137	92	42	25	24	29	31	97	116	97	116	187	35	191	104	16	59	28	28	58
Web	τ	78	82	82	79	69	59	59	59	59	46	46	29	17	16	22	33	46	46	46	46	59	59	58	58	70	81	84	81	77
	τa	145	145	145	145	145	145	145	145	145	145	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	145	145	145	145
	Combined	0.79	1.00	1.00	0.79	0.45	0.17	0.17	0.17	0.17	0.28	0.42	0.67	0.78	0.78	0.75	0.77	0.38	0.14	0.38	0.14	0.24	0.31	0.24	0.27	0.77	0.82	1.03	1.01	0.80
Calculated points		J-23	Max Left	Max Right	J-24	J-25	J-26	J-26	Left	Left	Right	J-27	J-28	J-29		J-30	J-31	J-32	J-32	Left	Left	J-33	J-33	Left	Left	J-34	J-35	Max Left	Max Right	J-36
Stress of Net Area σ																														
Lflg σspl																														

Grade (1):SM400
(2):SM490
(3):SM490Y
(4):SM570

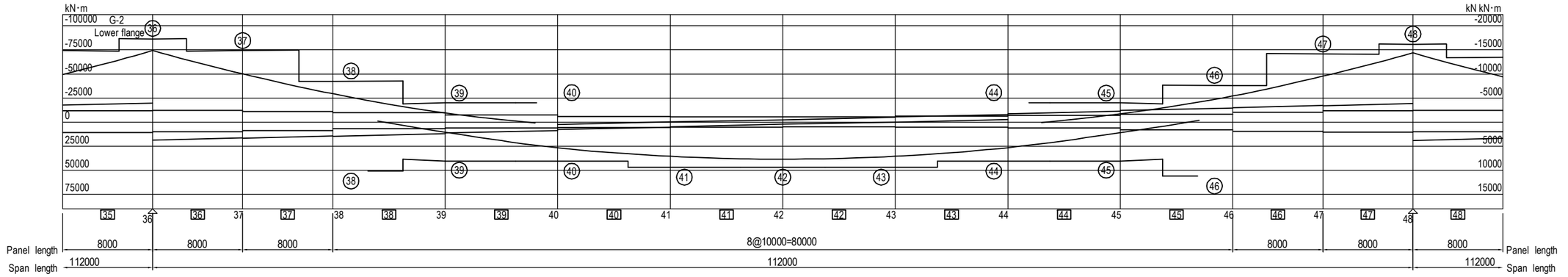
BAGO RIBER BRIDGE G-2

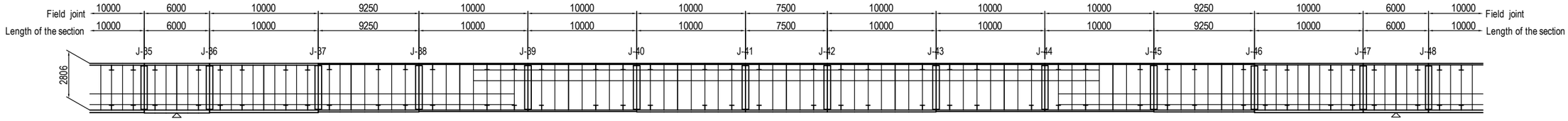
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
STRESS DIAGRAM OF MAIN GIRDER G2 (P13-P20) (3)	2
	DWG No.
	P2-SB-1030

STRESS DIAGRAM OF MAIN GIRDER G2 (P13-P20) (4) S=1:400





Unit : mm N/mm2

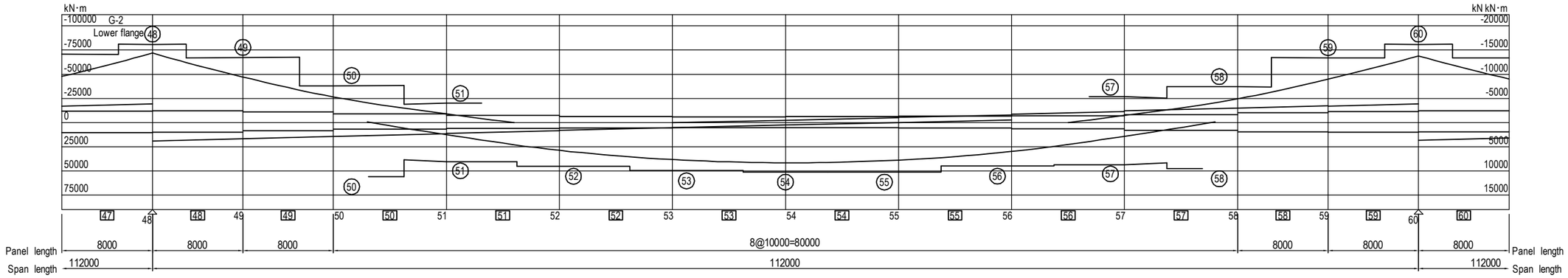
		35	36		37	38			39				40			41	42	43	44			45				46			47	48		49
Section		Sec-35	Sec-36		Sec-37	Sec-38			Sec-39				Sec-40			Sec-41	Sec-42	Sec-43	Sec-44			Sec-45				Sec-46			Sec-47	Sec-48		Sec-49
Deck Plate	Thickness	22, 22, 22	22, 22, 22		22, 22, 22	16, 16, 16			16, 16, 16				16, 16, 16			16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16			16, 16, 16				16, 16, 16			21, 21, 21	21, 21, 21		21, 21, 21
	Quality	(3),(3),(3)	(3),(3),(3)		(3),(3),(3)	(3),(3),(3)			(3),(3),(3)				(3),(3),(3)			(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)			(3),(3),(3)				(3),(3),(3)			(3),(3),(3)	(3),(3),(3)		(3),(3),(3)
Longitu -dinal Rib1	Number	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib
	Section	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8
Longitu -dinal Rib2	Number	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb
	Section	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11
Left Web	Height	2741	2741	2741	2741	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2742	2742	2742	2742
	Thickness	11(4)	11(4)		11(4)	11(3)			11(3)				11(3)			11(3)	11(3)	11(3)	11(3)			11(3)				11(4)			11(4)	11(4)		11(4)
Right Web	Height	2795	2795	2795	2795	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2796	2796	2796	2796
	Thickness	11(4)	11(4)		11(4)	11(3)			11(3)				11(3)			11(3)	11(3)	11(3)	11(3)			11(3)				11(4)			11(4)	11(4)		11(4)
Lower flange Vertical rib	Number	7	7		7	3			3				3			3	3	3	3			3				3			7	7		7
	Width	220	220		220	220			220				220			220	220	220	220			220				220			220	220		220
	Thickness	19(4)	19(4)		19(4)	19(3)			19(3)				19(3)			19(3)	19(3)	19(3)	19(3)			19(3)				19(4)			19(4)	19(4)		19(4)
Lflg W=2940 T		30(4)	30(4)		30(4)	23(3)			15(3)				15(3)			19(3)	19(3)	19(3)	15(3)			15(3)				20(4)			29(4)	31(4)		28(4)
Deck Plate	σ	163	188	188	163	116	-11	50	-12	53	-70	4	-70	4	-108	-121	-122	-121	-107	-69	1	-69	1	-14	49	-14	47	110	163	187	187	162
	σa	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
	σa-σ	47	22	22	47	94	199	160	198	157	140	206	140	206	102	89	88	89	103	141	209	141	209	196	161	196	163	100	47	23	23	48
Lower flange	σ	-196	-227	-227	-197	-154	15	-67	19	-89	112	-6	112	-6	173	172	174	172	172	112	-2	112	-2	24	-81	20	-68	-158	-194	-215	-215	-198
	σa	255	255	255	255	176	210	176	210	104	210	104	210	104	210	210	210	210	210	210	104	210	104	210	104	255	174	174	255	255	255	255
	σa-σ	59	28	28	58	22	195	109	191	15	98	98	98	98	37	38	36	38	38	98	102	98	102	186	23	235	106	16	61	40	40	57
Web	τ	81	84	81	77	68	59	59	60	60	44	44	44	44	29	18	15	19	30	43	43	43	43	58	58	57	57	69	79	82	82	79
	τa	145	145	145	145	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	145	145	145	145	145	145	145
	Combined	0.82	1.03	1.01	0.80	0.76	0.24	0.28	0.25	0.33	0.37	0.14	0.37	0.14	0.70	0.68	0.69	0.68	0.70	0.36	0.13	0.36	0.13	0.23	0.29	0.15	0.18	0.54	0.80	0.94	0.94	0.82
Calculated points		J-35	Max Left	Max Right	J-36	J-37	Right	Right	J-38	J-38	J-39	J-39	Left	Left	J-40	J-41		J-42	J-43	J-44	J-44	Left	Left	J-45	J-45	Left	Left	J-46	J-47	Max Left	Max Right		J-48
Stress of Net Area σ																																
Lflg σspl																																

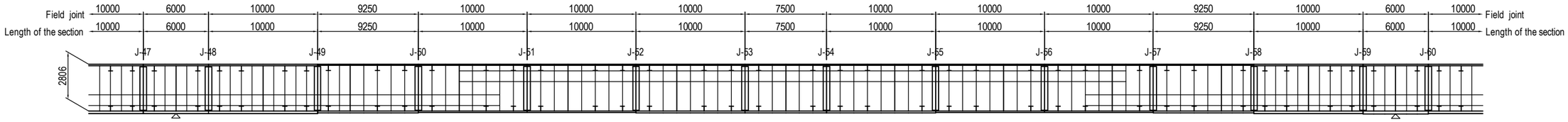
BAGO RIBER BRIDGE G-2

Grade (1):SM400
(2):SM490
(3):SM490Y
(4):SM570

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA		15 Jun.2017	STRESS DIAGRAM OF MAIN GIRDER G2 (P13-P20) (4)	2
				CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1031

STRESS DIAGRAM OF MAIN GIRDER G2 (P13-P20) (5) S=1:400





Unit : mm N/mm2

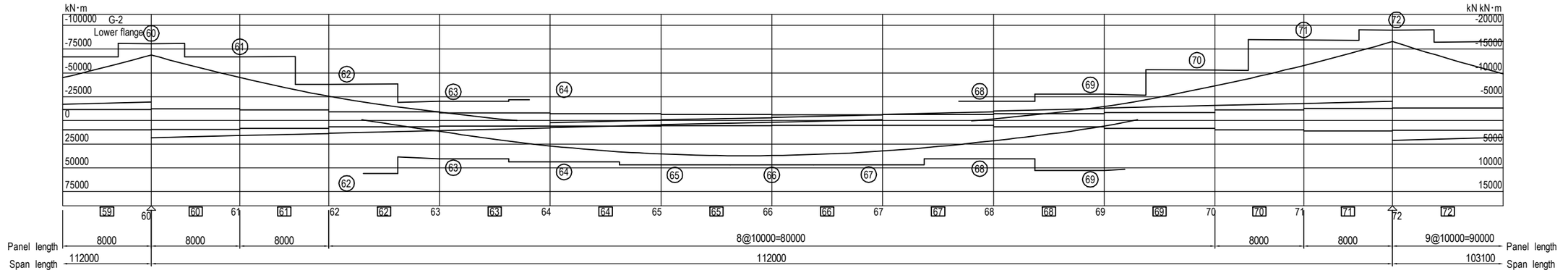
		47	48		49	50			51			52	53	54	55	56	57			58			59	60		61
Section		Sec-47	Sec-48		Sec-49	Sec-50			Sec-51			Sec-52	Sec-53	Sec-54	Sec-55	Sec-56	Sec-57			Sec-58			Sec-59	Sec-60		Sec-61
Deck Plate	Thickness	21, 21, 21	21, 21, 21		21, 21, 21	16, 16, 16			16, 16, 16			16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16			16, 16, 16			20, 20, 20	20, 20, 20		20, 20, 20
	Quality	(3),(3),(3)	(3),(3),(3)		(3),(3),(3)	(3),(3),(3)			(3),(3),(3)			(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)			(3),(3),(3)			(3),(3),(3)	(3),(3),(3)		(3),(3),(3)
Longitu -dinal Rib1	Number	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib
	Section	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8
Longitu -dinal Rib2	Number	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb
	Section	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11
Left Web	Height	2742	2742	2742	2742	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2743	2743	2743	2743
	Thickness	11(4)	11(4)		11(4)	11(4)			11(3)			11(3)	11(3)	11(3)	11(3)	11(3)	11(3)			11(3)			11(4)	11(4)		11(4)
Right Web	Height	2796	2796	2796	2796	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2797	2797	2797	2797
	Thickness	11(4)	11(4)		11(4)	11(4)			11(3)			11(3)	11(3)	11(3)	11(3)	11(3)	11(3)			11(3)			11(4)	11(4)		11(4)
Lower flange Vertical rib	Number	7	7		7	3			3			3	3	3	3	3	3			3			7	7		7
	Width	220	220		220	220			220			220	220	220	220	220	220			220			220	220		220
	Thickness	19(4)	19(4)		19(4)	19(4)			19(3)			19(3)	19(3)	19(3)	19(3)	19(3)	19(3)			19(3)			19(4)	19(4)		19(4)
Lflg W=2940 T		29(4)	31(4)		28(4)	20(4)			15(3)			18(3)	22(3)	22(3)	22(3)	18(3)	18(3)			21(3)			28(4)	28(4)		28(4)
Deck Plate	σ	163	187	187	162	108	-18	47	-19	49	-76	-113	-128	-130	-129	-116	-79	-24	42	-24	41	101	160	186	186	160
	σa	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
	σa-σ	47	23	23	48	102	192	163	191	161	134	97	82	80	81	94	131	186	168	186	169	109	50	24	24	50
Lower flange	σ	-194	-215	-215	-198	-155	26	-68	31	-82	122	166	169	171	170	170	116	37	-64	33	-58	-141	-190	-221	-221	-190
	σa	255	255	255	255	174	255	174	210	104	210	210	210	210	210	210	210	210	139	210	163	163	255	255	255	255
	σa-σ	61	40	40	57	19	229	106	179	23	88	44	41	39	40	40	94	173	74	177	105	22	65	34	34	65
Web	τ	79	82	82	79	68	57	57	58	58	44	30	19	16	19	31	44	58	58	57	57	69	79	82	79	76
	τa	145	145	145	145	145	145	145	120	120	120	120	120	120	120	120	120	120	120	120	120	120	145	145	145	145
	Combined	0.80	0.94	0.94	0.82	0.52	0.15	0.18	0.23	0.30	0.42	0.66	0.65	0.66	0.66	0.69	0.39	0.23	0.25	0.23	0.24	0.68	0.77	0.98	0.96	0.76
Calculated points		J-47	Max Left	Max Right	J-48	J-49	Right	Right	J-50	J-50	J-51	J-52	J-53		J-54	J-55	J-56	J-57	J-57	Left	Left	J-58	J-59	Max Left	Max Right	J-60
Stress of Net Area σ																										
Lflg σspl																										

BAGO RIBER BRIDGE G-2

Grade (1):SM400
(2):SM490
(3):SM490Y
(4):SM570

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA		15 Jun.2017	STRESS DIAGRAM OF MAIN GIRDER G2 (P13-P20) (5)	2
				CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1032

STRESS DIAGRAM OF MAIN GIRDER G2 (P13-P20) (6) S=1:400



Unit : mm N/mm2

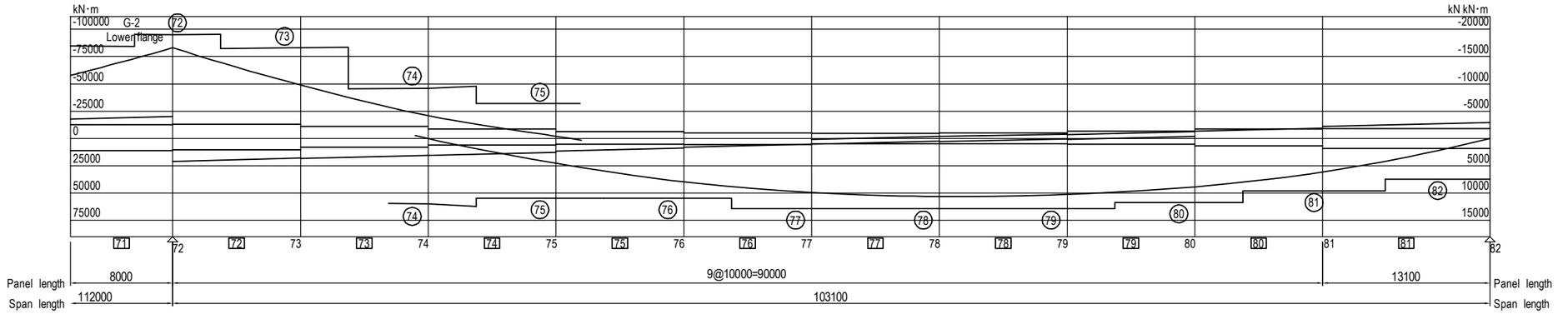
		59	60		61	62			63				64			65	66	67	68			69			70	71	72	
Section		Sec-59	Sec-60		Sec-61	Sec-62			Sec-63				Sec-64			Sec-65	Sec-66	Sec-67	Sec-68			Sec-69			Sec-70	Sec-71	Sec-72	
Deck Plate	Thickness	20, 20, 20	20, 20, 20		20, 20, 20	16, 16, 16			16, 16, 16				16, 16, 16			16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16			16, 16, 16			16, 16, 16	25, 25, 25	25, 25, 25	
	Quality	(3),(3),(3)	(3),(3),(3)		(3),(3),(3)	(3),(3),(3)			(3),(3),(3)				(3),(3),(3)			(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)			(3),(3),(3)			(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	
Longitu -dinal Rib1	Number	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib
	Section	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8
Longitu -dinal Rib2	Number	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb
	Section	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11
Left Web	Height	2743	2743	2743	2743	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2738	2738	2738
	Thickness	11(4)	11(4)		11(4)	11(4)			11(3)				11(3)			11(3)	11(3)	11(3)	11(3)			11(4)			11(4)	11(4)	13(4)	
Right Web	Height	2797	2797	2797	2797	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2792	2792	2792
	Thickness	11(4)	11(4)		11(4)	11(4)			11(3)				11(3)			11(3)	11(3)	11(3)	11(3)			11(4)			11(4)	11(4)	13(4)	
Lower flange Vertical rib	Number	7	7		7	3			3				3			3	3	3	3			3			3	7	7	
	Width	220	220		220	220			220				220			220	220	220	220			220			220	220	240	
	Thickness	19(4)	19(4)		19(4)	19(4)			19(3)				19(3)			19(3)	19(3)	19(3)	19(3)			19(4)			19(4)	19(4)	19(4)	
Lflg W=2940 T		28(4)	28(4)		28(4)	20(4)			15(3)				15(3)			19(3)	19(3)	19(3)	15(3)			17(4)			24(4)	34(4)	34(4)	
Deck Plate	σ	160	186	186	160	103	-17	45	-17	47	-71	2	-71	2	-108	-118	-118	-115	-94	-53	19	-53	19	70	138	168	190	190
	σa	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
	σa-σ	50	24	24	50	107	193	165	193	163	139	208	139	208	102	92	92	95	116	157	191	157	191	140	72	42	20	20
Lower flange	σ	-190	-221	-221	-190	-148	24	-65	29	-78	114	-3	114	-3	173	169	169	163	152	86	-30	80	-28	-111	-179	-204	-226	-226
	σa	255	255	255	255	174	255	174	210	104	210	104	210	104	210	210	210	210	210	210	104	255	133	133	213	255	255	255
	σa-σ	65	34	34	65	25	231	109	181	26	96	101	96	101	37	41	41	47	58	124	74	175	105	22	34	51	29	29
Web	τ	79	82	79	76	66	54	54	55	55	43	43	43	43	30	18	17	22	34	48	48	48	48	61	72	82	73	76
	τa	145	145	145	145	145	145	145	120	120	120	120	120	120	120	120	120	120	120	120	120	145	145	145	145	145	145	145
	Combined	0.77	0.98	0.96	0.76	0.48	0.14	0.16	0.21	0.27	0.37	0.13	0.37	0.13	0.71	0.65	0.65	0.62	0.56	0.26	0.16	0.17	0.11	0.30	0.66	0.88	0.95	0.97
Calculated points		J-59	Max Left	Max Right	J-60	J-61	Right	Right	J-62	J-62	J-63	J-63	Left	Left	J-64	J-65		J-66	J-67	J-68	J-68	Left	Left	J-69	J-70	J-71	Max Left	Max Right
Stress of Net Area σ																												
Lflg σspl																												

BAGO RIBER BRIDGE G-2

Grade (1):SM400
(2):SM490
(3):SM490Y
(4):SM570

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA		15 Jun.2017	STRESS DIAGRAM OF MAIN GIRDER G2 (P13-P20) (6)	2
				CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1033

STRESS DIAGRAM OF MAIN GIRDER G2 (P13-P20) (7) S=1:400



Unit : mm N/mm2

		71	72		73	74			75			76	77	78	79	80	81	82		
Section		Sec-71	Sec-72		Sec-73	Sec-74			Sec-75			Sec-76	Sec-77	Sec-78	Sec-79	Sec-80	Sec-81	Sec-82		Section
Deck Plate	Thickness	25, 25, 25	25, 25, 25		25, 25, 25	16, 16, 16			16, 16, 16			16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16	16, 16, 16		Thickness	Deck Plate
	Quality	(3),(3),(3)	(3),(3),(3)		(3),(3),(3)	(3),(3),(3)			(3),(3),(3)			(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)	(3),(3),(3)		Quality	
Longitu -dinal Rib1	Number	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	6-U-Rib	Number	Longitu -dinal Rib1
	Section	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	320*240*8	Section	
Longitu -dinal Rib2	Number	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	2-Bulb	Number	Longitu -dinal Rib2
	Section	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	230*11	Section	
Left Web	Height	2738	2738	2738	2738	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	2747	Height	Left Web
	Thickness	11(4)	13(4)		13(4)	11(4)			11(4)			11(4)	11(4)	11(4)	11(4)	11(4)	11(3)	11(3)		Thickness	
Right Web	Height	2792	2792	2792	2792	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	2801	Height	Right Web
	Thickness	11(4)	13(4)		13(4)	11(4)			11(4)			11(4)	11(4)	11(4)	11(4)	11(4)	11(3)	11(3)		Thickness	
Lower flange Vertical rib	Number	7	7		7	3			3			3	3	3	3	3	3	3		Number	Lower flange Vertical rib
	Width	220	240		220	220			220			220	220	220	220	220	220	220		Width	
	Thickness	19(4)	19(4)		19(4)	19(4)			19(4)			19(4)	19(4)	19(4)	19(4)	19(4)	19(3)	19(3)		Thickness	
Lflg W=2940 T		34(4)	34(4)		32(4)	22(4)			18(4)			18(4)	23(4)	23(4)	23(4)	20(4)	20(3)	13(3)		Lflg W=1850 T	
Deck Plate	σ	168	190	190	159	119	-30	41	-30	42	-95	-141	-160	-166	-165	-156	-127	-69	0	σ	Deck Plate
	σa	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	σa	
	σa-σ	42	20	20	51	91	180	169	180	168	115	69	50	44	45	54	83	141	210	σa-σ	
Lower flange	σ	-204	-226	-226	-198	-162	39	-54	44	-61	140	207	206	213	212	216	176	119	0	σ	Lower flange
	σa	255	255	255	255	195	255	195	255	148	255	255	255	255	255	255	210	210	210	σa	
	σa-σ	51	29	29	57	33	216	141	211	87	115	48	49	42	43	39	34	91	210	σa-σ	
Web	τ	82	73	76	73	76	62	62	63	63	46	32	21	15	15	25	38	57	65	τ	Web
	τa	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	120	120	120	τa	
	Combined	0.88	0.95	0.97	0.78	0.59	0.18	0.18	0.19	0.19	0.36	0.68	0.65	0.68	0.68	0.72	0.76	0.45	0.30	Combined	
Calculated points		J-71	Max Left	Max Right	J-72	J-73	Right	Right	J-74	J-74	J-75	J-76	J-77		J-78	J-79	J-80	J-81	Right	Calculated points	
Stress of Net Area σ																				Stress of Net Area σ	
Lflg σspl																					

BAGO RIBER BRIDGE G-2

Grade (1):SM400
(2):SM490
(3):SM490Y
(4):SM570

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
STRESS DIAGRAM OF MAIN GIRDER G2 (P13-P20) (7)	2
	DWG No.
	P2-SB-1034

COMMON DETAIL (PF2-PF5) (1) S=1:20

A DETAIL S=1:10

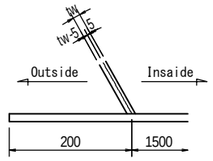
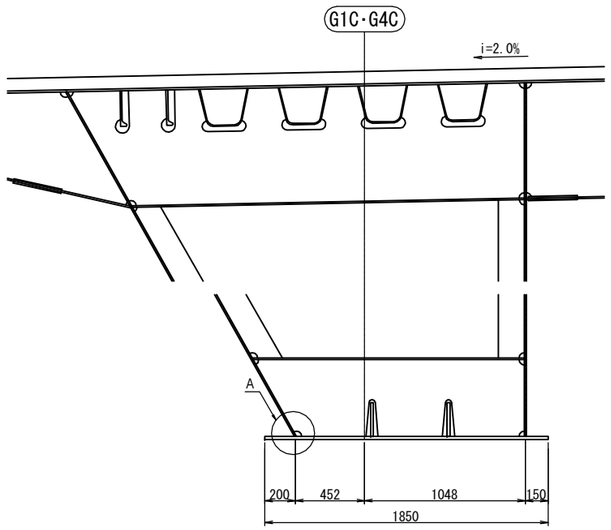
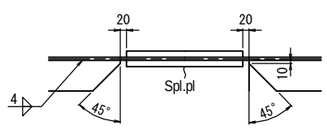


PLATE THICKNESS CHANGE DETAIL S=1:40

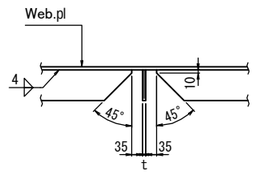


HORIZONTAL STIFFENER DETAIL

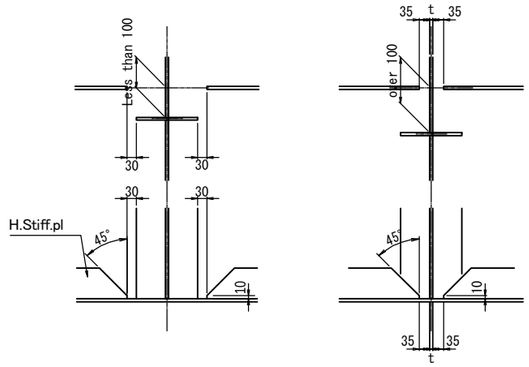
ATTACHMENT PART



MIDDLE PART



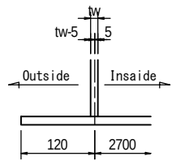
LATERAL RIB DIAPHRAGM PART

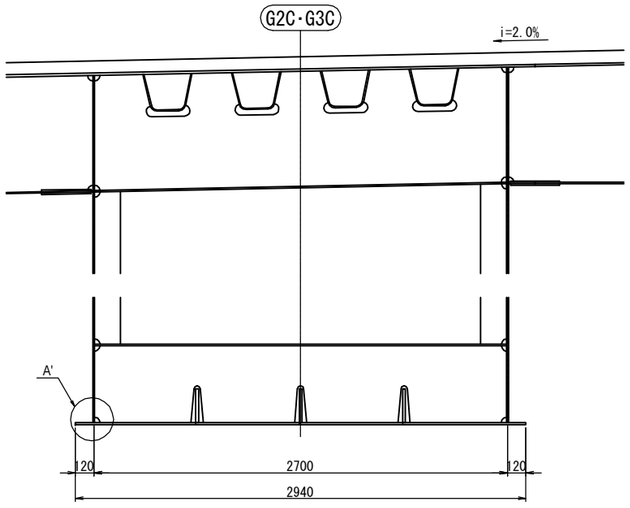


STIFFENER WELDING DETAILS

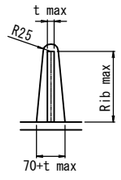
MIDDLE PART

A' DETAIL S=1:10





SCALLOP DETAIL



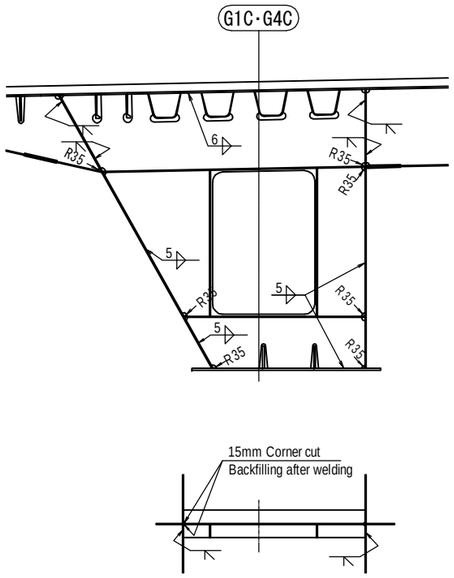
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	COMMON DETAIL (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1031

COMMON DETAIL (2)

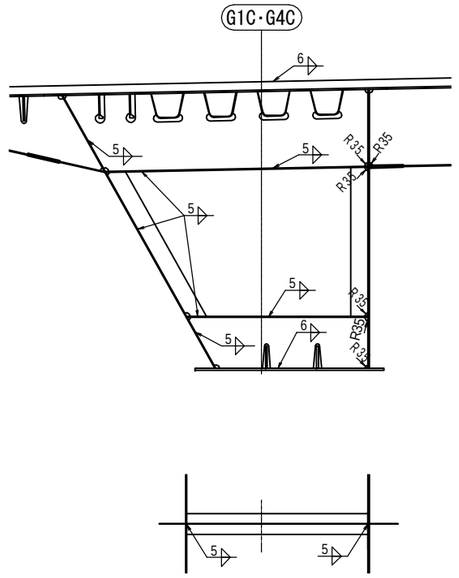
S=1:60

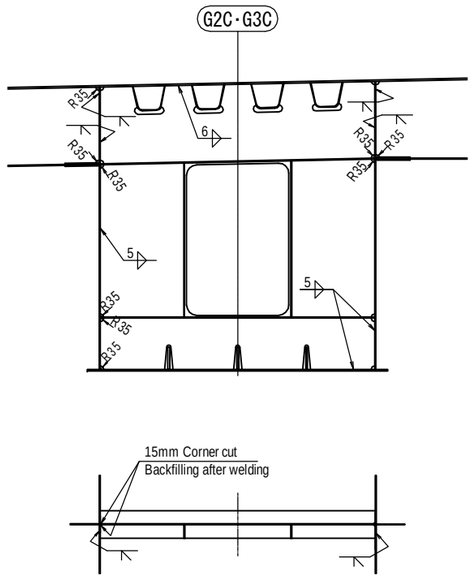
WEB AND DIAPHRAGM MOUNTING DETAIL

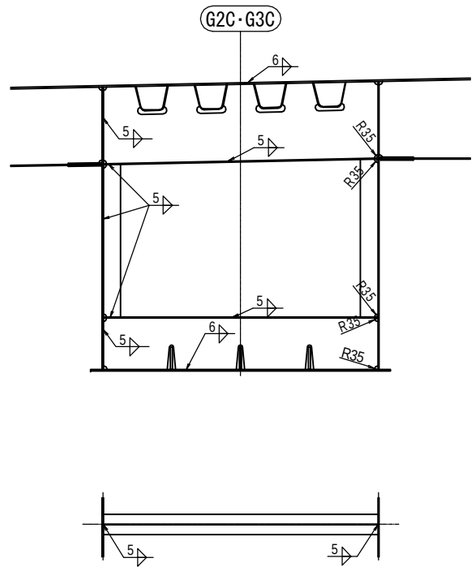
GRANTED PART



CROSS RIB





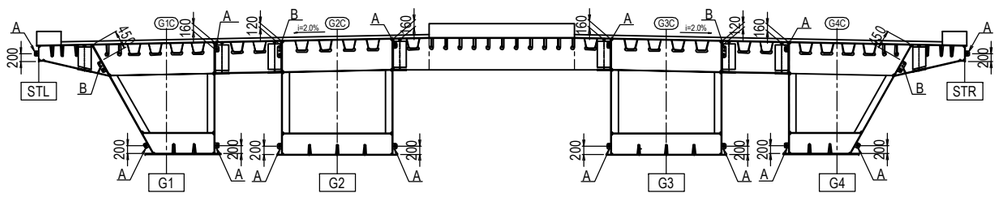


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	COMMON DETAIL (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1032

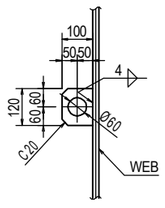
COMMON DETAIL (3) S=1:20

HANGING BRACKET INSTALLATION POSITION FOR SCAFFOLD S=1:150



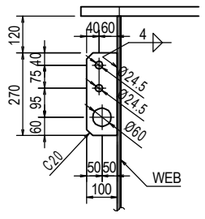
HANGING BRACKET DETAIL

A TYPE



n-PL 100 x 9 x 120

B TYPE

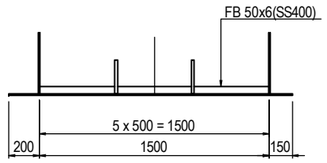


n-PL 100 x 9 x 270

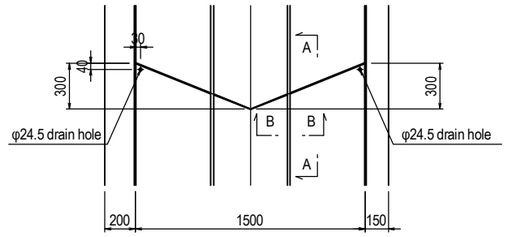
Mounting position	n	
	A TYPE	B TYPE
STL	657	-
G1	990	330
G2	990	330
G3	990	330
G4	990	330
STR	657	-

DRAIN DETAIL S=1:40

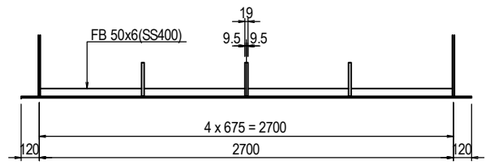
G1・G4



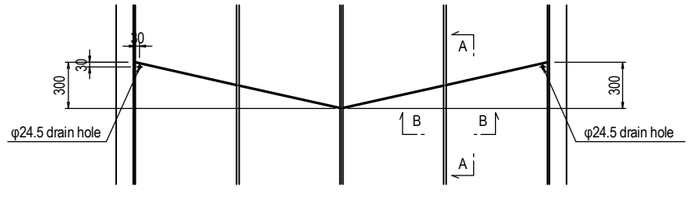
2-PL 50 x 6 x 523(SM400A)
1-PL 50 x 6 x 516(SM400A)
2-PL φ75 x 22(SM400A)



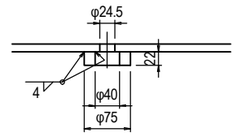
G2・G3



2-PL 50 x 6 x 677(SM400A)
2-PL 50 x 6 x 672(SM400A)
2-PL φ75 x 22(SM400A)

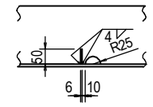


DRAIN HOLE DETAIL S=1:10

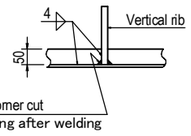


1-PL φ75 x 22

A - A S=1:20



B - B S=1:20



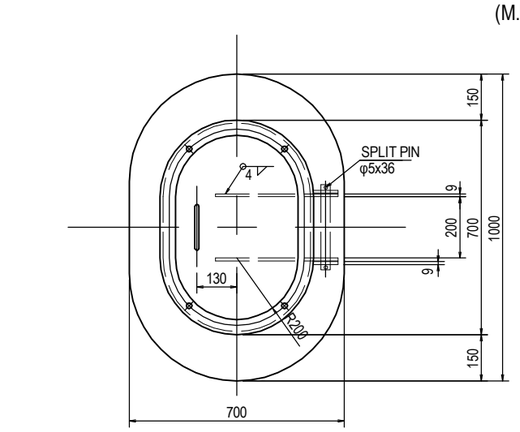
Note
1. All material without the reports is made SM400A
2. ⊕ : High-tension bolt M22 (S10T)
3. All scar laps without the reports are made R35

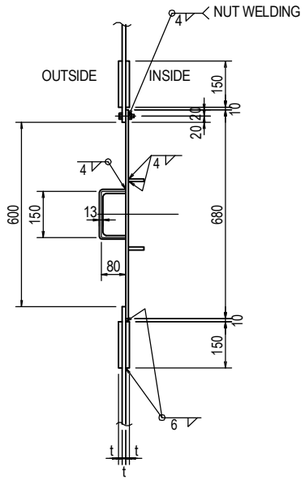
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	COMMON DETAIL (3)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1033

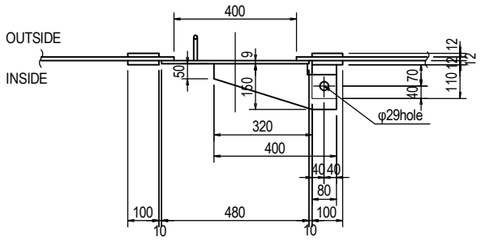
COMMON DETAIL (4) S=1:20

P13～P20 DIAPHRAGM MANHOLE DETAIL

(M.H)



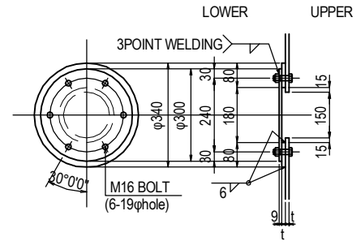




(4 PLACES)
2-PL 700 x t x 1000(SM400A)(NET=43%)
1-PL 480 x 9 x 680(SM400A)(NET=83%)
2-PL 150 x 9 x 400(SM400A)
2-PL 80 x 9 x 110(SM400A)
1-RB φ13 x 310(SS400)
4-BN M16 x 40(SUS304)
1-Pipe 20A x 280(SUS304)
2-SPLIT PIN φ5 x 36(SUS304)

	t
P13,P20	11
P14～P19	19

HAND HOLE DETAIL



1-PL φ300 x 9 (SS400)
1-PL φ340 x t (The Same thickness as the base metal same material)
※ 6-BN M16 x L (SS400)<Plating>

G1・G4

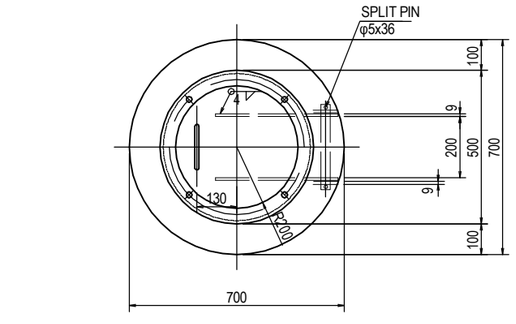
TYPE	Mounting position	t	L	Material
A	J1~J10,J14~J23 J25~J35,J37~J47 J49~J59,J61~J71 J73~J82	16	60	SM490Y
B	J11,J13,J36	22	70	SM570
C	J12	27	80	SM570
D	J24	19	65	SM570
E	J48	21	70	SM570
F	J60	20	65	SM570
G	J72	25	75	SM570

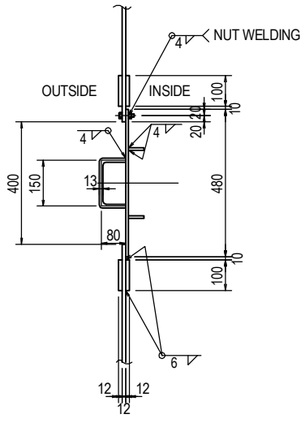
G2・G3

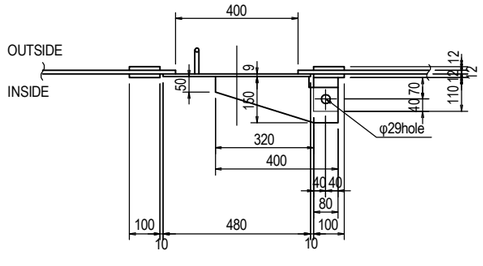
TYPE	Mounting position	t	L	Material
A	J1~J10,J14~J23 J25~J35,J37~J47 J49~J59,J61~J71 J73~J82	16	60	SM490Y
B	J11,J13,J36	22	70	SM570
C	J12	27	80	SM570
D	J24	19	65	SM570
E	J48	21	70	SM570
F	J60	20	65	SM570
G	J72	25	75	SM570

P13～P20 INSPECTION MANHOLE DETAIL

(M.H)







(164 PLACES)
2-PL 700 x 12 x 700(SM400A)(NET=55%)
1-PL 480 x 9 x 480(SM400A)(NET=80%)
2-PL 150 x 9 x 400(SM400A)
2-PL 80 x 9 x 110(SM400A)
1-RB φ13 x 310(SS400)
4-BN M16 x 40(SUS304)
1-Pipe 20A x 280(SUS304)
2-SPLIT PIN φ5 x 36(SUS304)

Note
1. All material without the reports is made SM400A
2. ⊕ : High-tension bolt M22 (S10T)
3. All scar laps without the reports are made R35

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

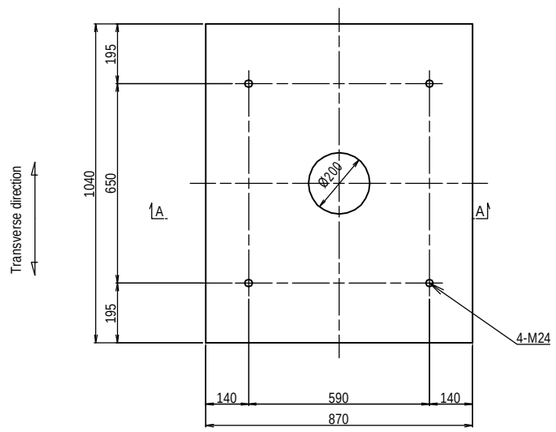
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	COMMON DETAIL (4)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1034

COMMON DETAIL (5) S=1:20

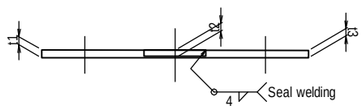
SOLE PLATE DETAIL

P13

Longitudinal direction



A - A

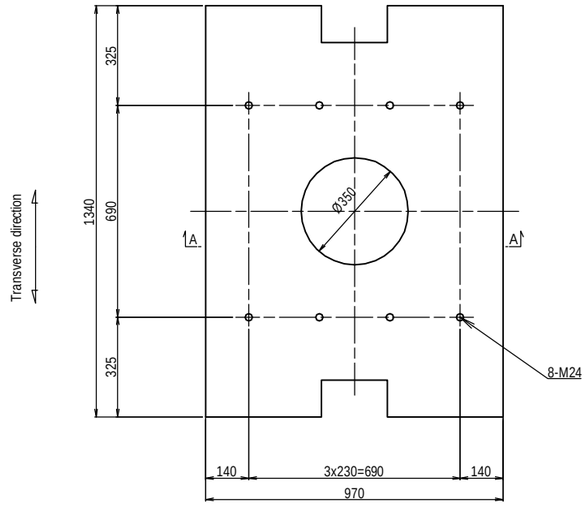


4-Sole PL 1040 x T x 870（Material）

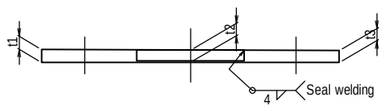
	t1	t2	t3	T	Material
G1~G4	26.2	25	23.8	30	SM490A

P14・P19

Longitudinal direction



A - A

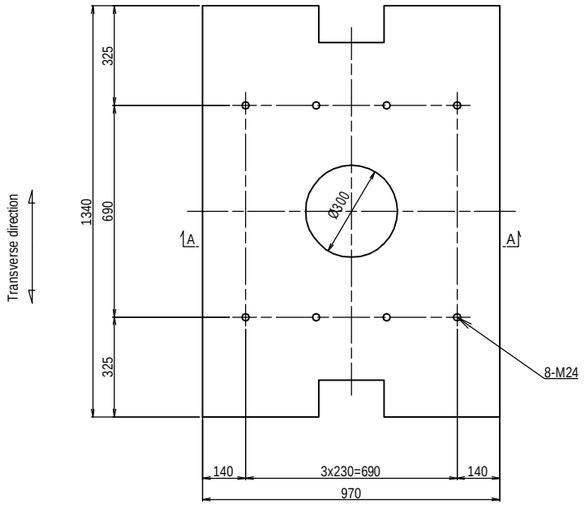


4-Sole PL 1340 x T x 970（Material）

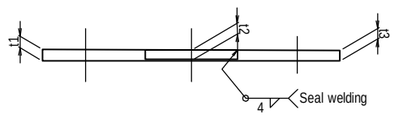
	t1	t2	t3	T	Material
G1~G4	41.5	40	38.7	45	SM490C

P15~P18

Longitudinal direction



A - A

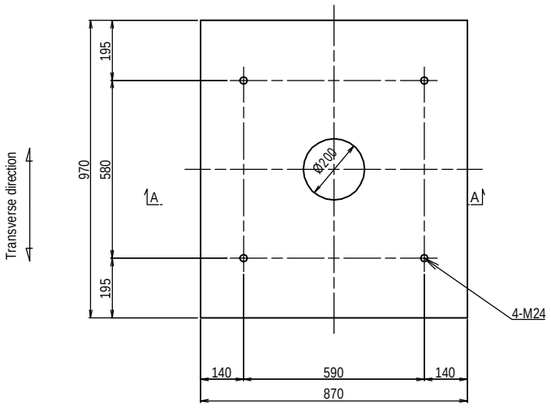


4-Sole PL 1340 x T x970（Material）

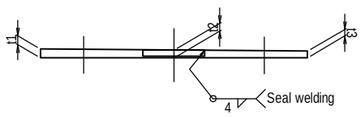
	t1	t2	t3	T	Material
G1~G4	36.5	35	33.5	40	SM490C

P20

Longitudinal direction



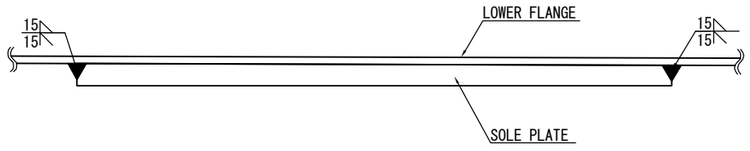
A - A



4-Sole PL 970 x T x 870（Material）

	t1	t2	t3	T	Material
G1~G4	28.5	25	21.5	32	SM490A

Welding of the sole plate S=1:10

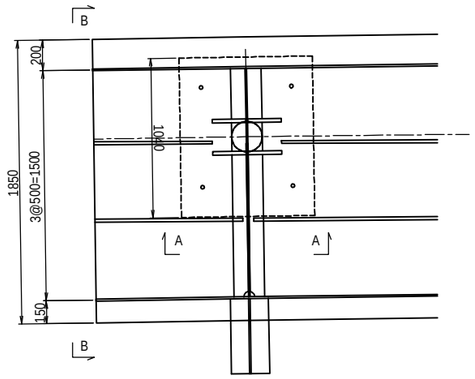


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

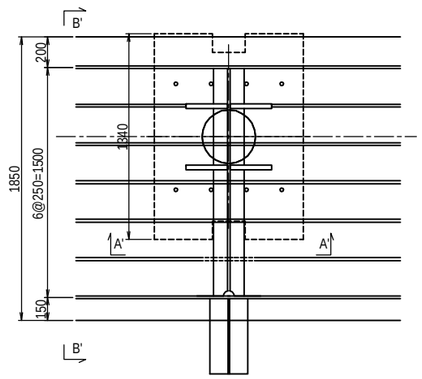
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	COMMON DETAIL (5)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1035

COMMON DETAIL (G1,G4) (6) S=1:40

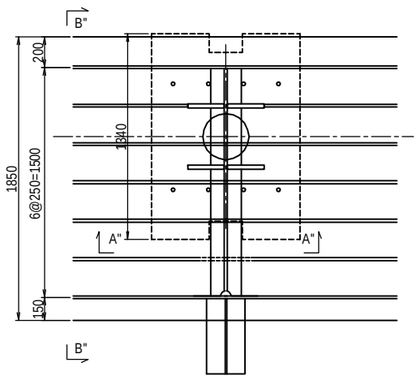
P13



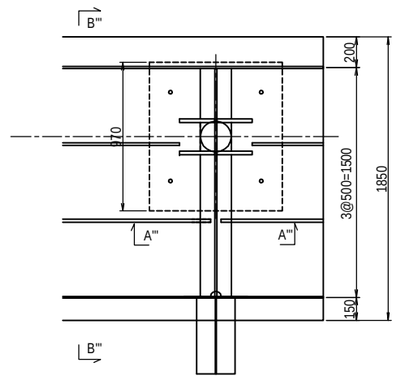
P14・P19



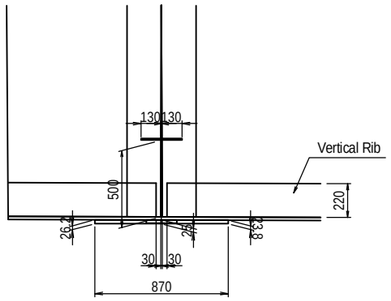
P15~P18



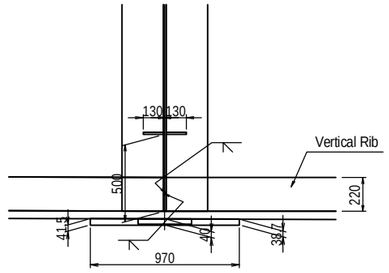
P20



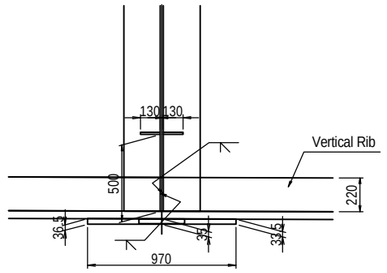
A - A



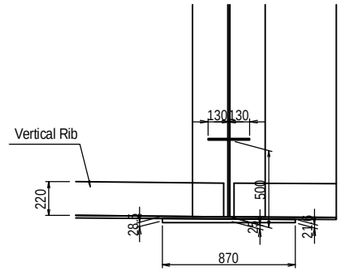
A' - A'



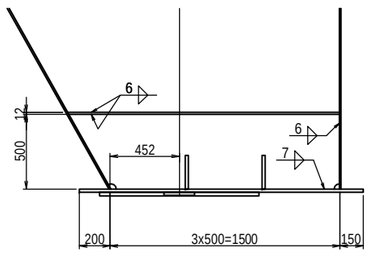
A" - A"



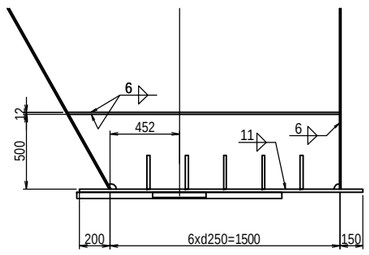
A''' - A'''



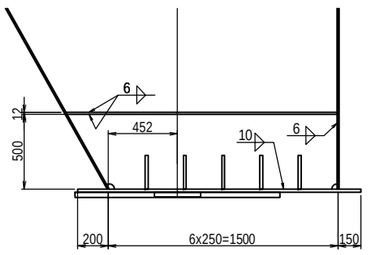
B - B



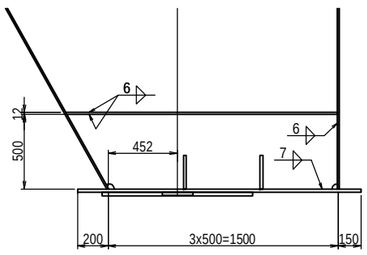
B' - B'



B" - B"



B''' - B'''



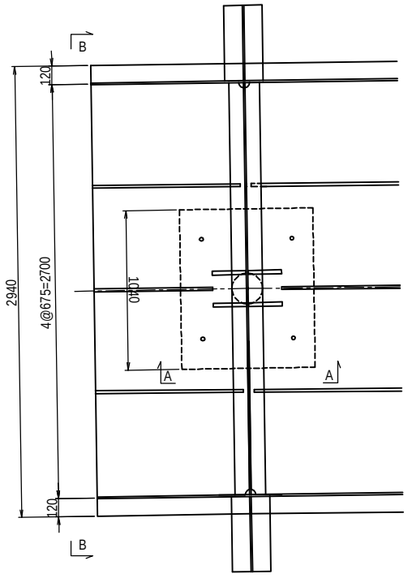
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

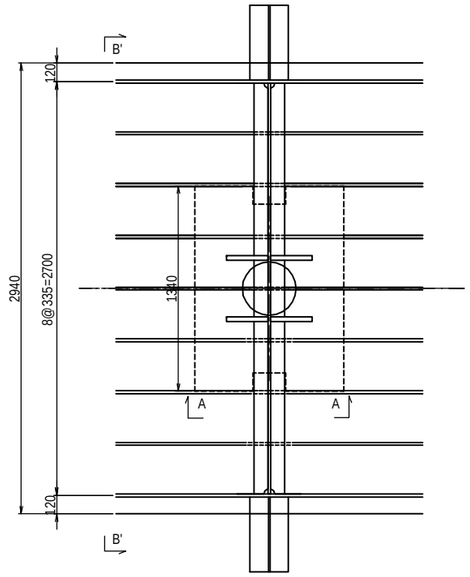
DRAWING TITLE	PACKAGE
COMMON DETAIL (G1,G4) (6)	2
	DWG No.
	P2-SB-1036

COMMON DETAIL (G2,G3) (7) S=1:40

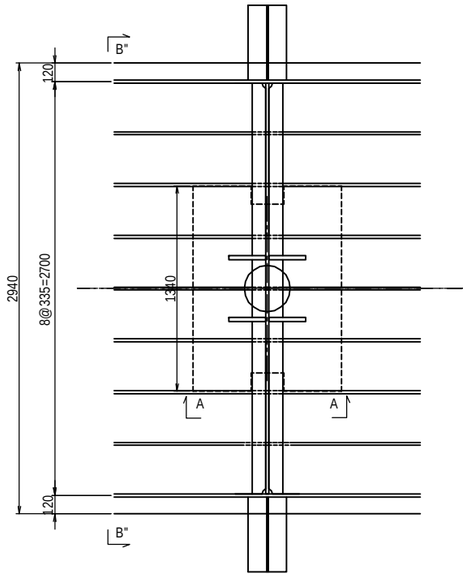
P13



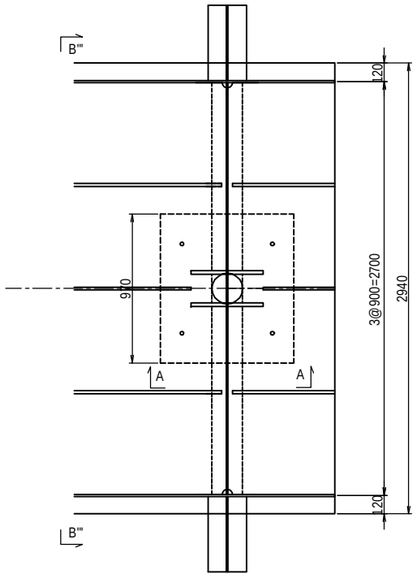
P14・P19



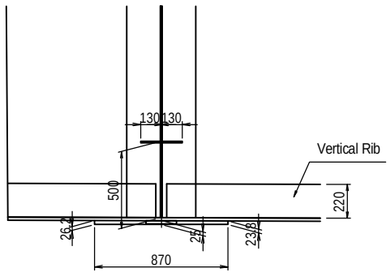
P15~P18



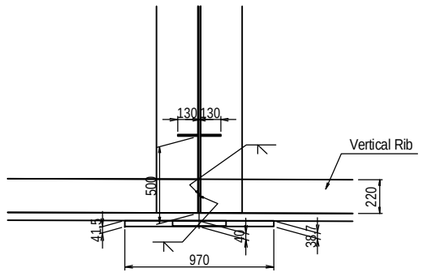
P20



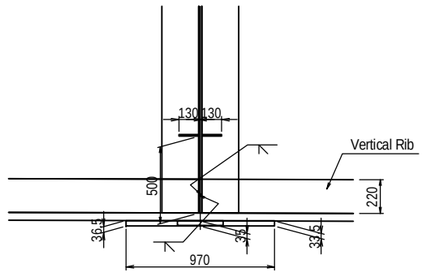
A - A



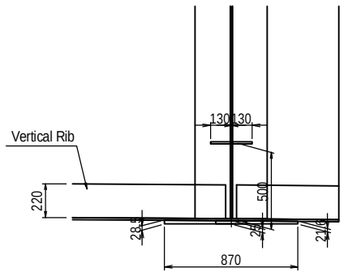
A' - A'



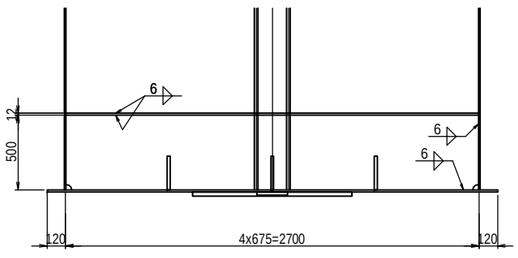
A" - A"



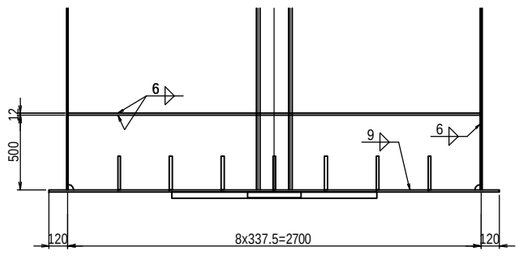
A''' - A'''



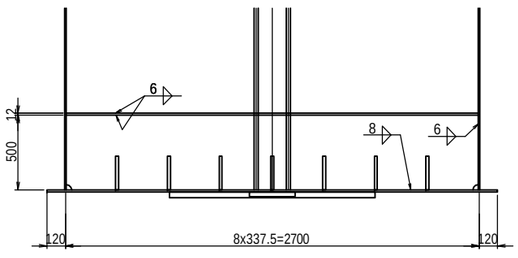
B - B



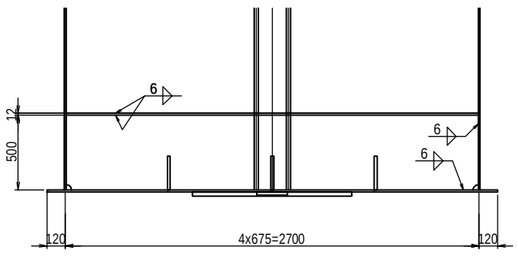
B' - B'



B" - B"



B''' - B'''



PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
COMMON DETAIL (G2,G3) (7)	2
	DWG No.
	P2-SB-1037

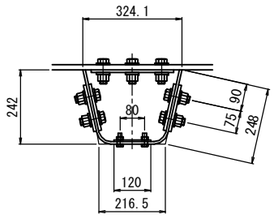
COMMON DETAIL(8) S=1:20

DETAIL OF JOINT

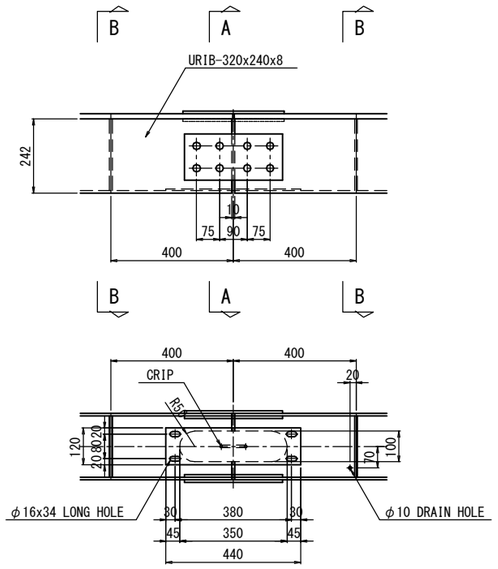
J1～J8,J11,J12,J15～J21,J23,J24,J26～J33,J35,J36,J38～J45,J47,J48,J50～J57,J59,J60,J62～J69,J71,J72,J74～J81

URIB(OUT GIRDER)

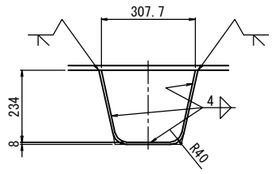
A - A



4-SPL PL 155 x 9 x 320(SM490YA)
16-HTB M22 x 70 (F10T)
1-COV PL 120 x 6 x 440(SS400)
4-BN M12 x 30 (SUS304)
1-RB φ16 x 150 (SS400)
2-DIA PL 234 x 6 x 308 (SM400A)

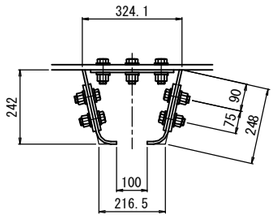


B - B

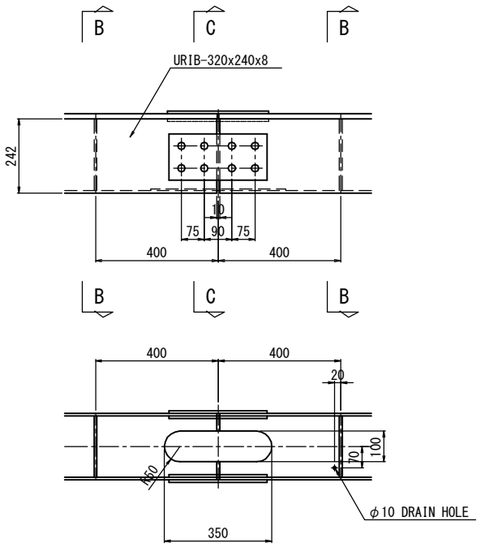


URIB(INNER GIRDER)

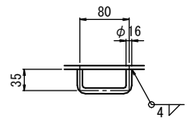
C - C



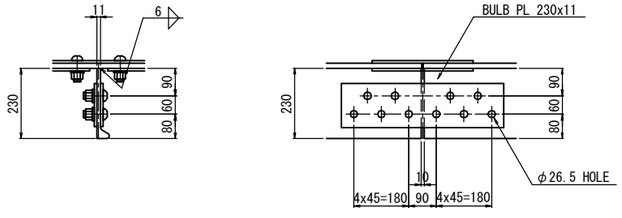
4-SPL PL 155 x 9 x 320(SM490YA)
16-HTB M22 x 70 (F10T)
2-DIA PL 234 x 6 x 308 (SM400A)



DETAIL OF CRIP S=1:10



BULB PL



2-SPL PL 140 x 9 x 530(SM490YA)
10-TCB M22 x 65 (S10T)

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
				NAME / SIGNATURE / DATE	DRAWING TITLE / PACKAGE
				PREPARED BY: S. IMADA — 15 Jun.2017	COMMON DETAIL(8) — 2
				CHECKED BY: T. HAYAKAWA — 20 Jun.2017	DWG No.
				APPROVED BY: Y. SANO — 21 Jun.2017	P2-SB-1038

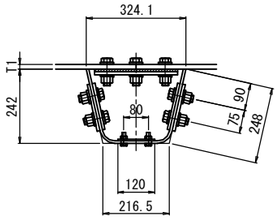
COMMON DETAIL(9) S=1:20

DETAIL OF JOINT

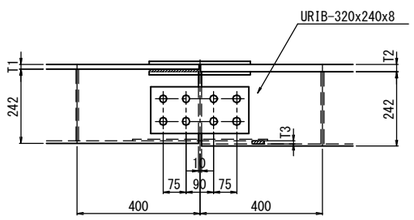
J9,J10,J13,J14,J22,J25,J34,J37,J46,J49,J58,J61,J70,J73

URIB(OUT GIRDER)

D - D

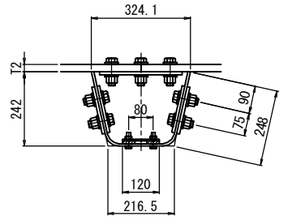


F D E F

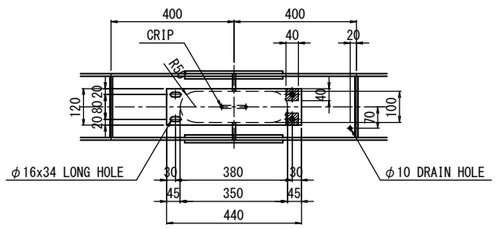


F D E F

E - E

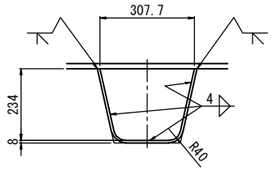


4-SPL PL 155 x 9 x 320(SM490YA)
16-HTB M22 x 70 (F10T)
1-COV PL 120 x 6 x 440(SS400)
2-FILL PL 40 x T3 x 40(SS400)
2-BN M12 x 30 (SUS304)
2-BN M12 x L1 (SUS304)
1-RB φ16 x 150 (SS400)
2-DIA PL 234 x 6 x 308 (SM400A)

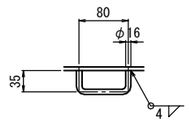


	L1	T1	T2	T3
J9,J14,J34,J37	40	16	22	6
J10,J13	35	22	27	5
J22,J25	35	16	19	3.2
J46,J49	35	16	21	5
J58,J61	35	16	20	4
J70,J73	40	16	25	9

F - F

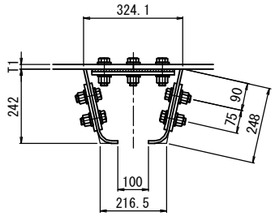


DETAIL OF CRIP S=1:10



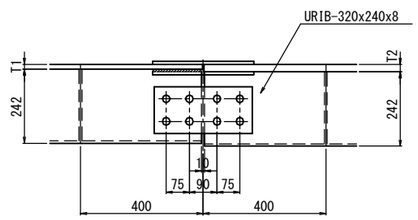
URIB(INNER GIRDER)

G - G

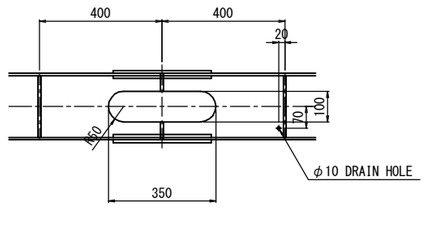


4-SPL PL 155 x 9 x 320(SM490YA)
16-HTB M22 x 70 (F10T)
2-DIA PL 234 x 6 x 308 (SM400A)

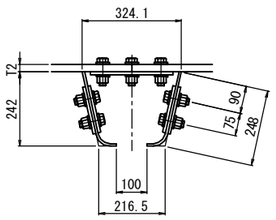
F G H F



F G H F

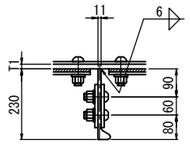


H - H

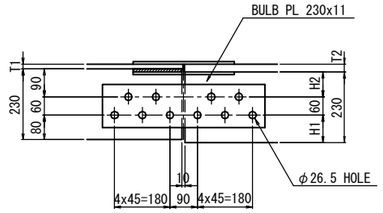


BULB PL

I - I

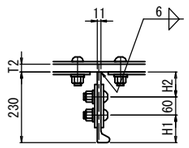


I J



I J

J - J



2-SPL PL 140 x 9 x 530(SM490YA)
10-TCB M22 x 65 (S10T)

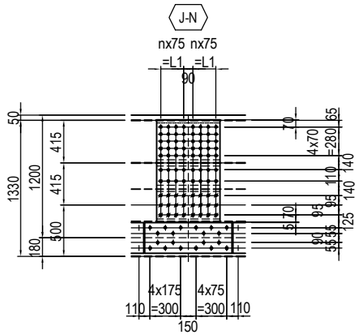
	T1	T2	H1	H2
J9,J14,J34,J37	16	22	86	84
J10,J13	22	27	85	85
J22,J25	16	19	83	87
J46,J49	16	21	85	85
J58,J61	16	20	84	86
J70,J73	16	25	89	81

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
				PREPARED BY	S. IMADA		15 Jun.2017	COMMON DETAIL(9)	2
				CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1039

COMMON DETAIL(10) S=1:60

D-1,D-5

DECK T=16



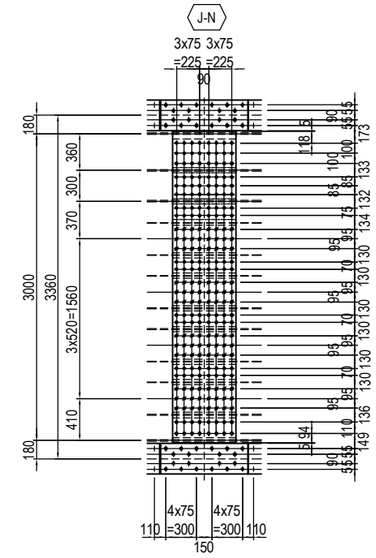
1-SPL PL L2 xT1x1000(SM490YA)
1-SPL PL L2 xT2x 360(SM490YA)
1-SPL PL L2 xT2x 190(SM490YA)
1-SPL PL L2 xT2x 270(SM490YA)
N1-TCB M22xL3 (S10T)
N2-HTB M22xL4 (F10T)

2-SPL PL 300 x9x 850(SM490YA)
20-TCB M22xL3 (S10T)

	n	L1	L2	L3	L4	T1	T2	N1	N2	J-N
TYPE-A1	2	150	470	70	75	9	9	42	18	J1～3,J6～8,J15～21,J26～33,J38～45,J50～57,J62～69,J74～81
TYPE-A2	3	225	620	75	80	9	11	56	24	J4,J5

G1,G4

DECK T=16



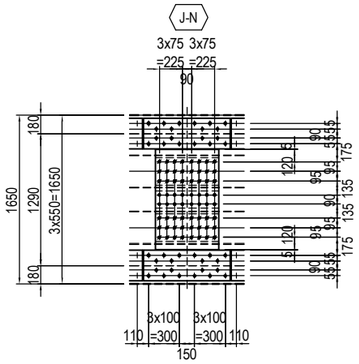
1-SPL PL 620 x 9x3050(SM490YA)
1-SPL PL 620 x10x 280(SM490YA)
1-SPL PL 620 x10x 250(SM490YA)
1-SPL PL 620 x10x 155(SM490YA)
4-SPL PL 620 x10x 270(SM490YA)
3-SPL PL 620 x10x 150(SM490YA)
1-SPL PL 620 x10x 190(SM490YA)
128-TCB M22x70 (S10T)
96-HTB M22x75 (F10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22x70 (S10T)

	J-N
TYPE-B1	J1～8,J15～21,J26～33,J38～45,J50～57,J62～69,J74～81

D-2,D-4

DECK T=16



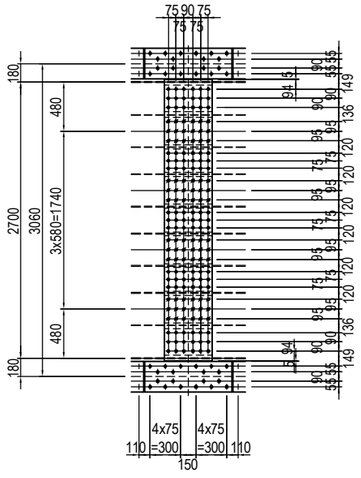
1-SPL PL 620 x9x 980(SM490YA)
2-SPL PL 620 x9x 270(SM490YA)
1-SPL PL 620 x9x 170(SM490YA)
16-TCB M22x70 (S10T)
48-HTB M22x75 (F10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22x70 (S10T)

	J-N
TYPE-C1	J1～8,J15～21,J26～33,J38～45,J50～57,J62～69,J74～81

G2,G3

DECK T=16



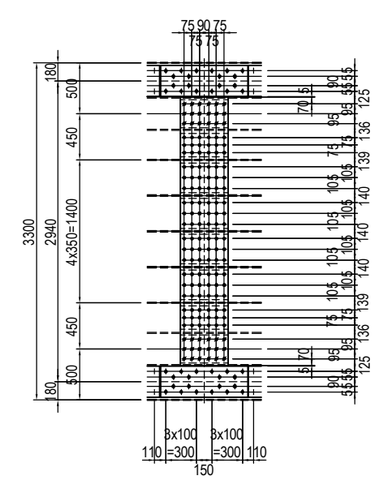
1-SPL PL 470 x9x2750(SM490YA)
2-SPL PL 470 x9x 320(SM490YA)
4-SPL PL 470 x9x 270(SM490YA)
3-SPL PL 470 x9x 160(SM490YA)
90-TCB M22x70 (S10T)
72-HTB M22x75 (F10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22x70 (S10T)

	J-N
TYPE-D1	J1～8,J15～21,J26～33,J38～45,J50～57,J62～69,J74～81

D-3

DECK T=16



1-SPL PL 470 x9x2630(SM490YA)
2-SPL PL 470 x9x 270(SM490YA)
2-SPL PL 470 x9x 230(SM490YA)
4-SPL PL 470 x9x 290(SM490YA)
108-TCB M22x70 (S10T)
36-HTB M22x75 (F10T)

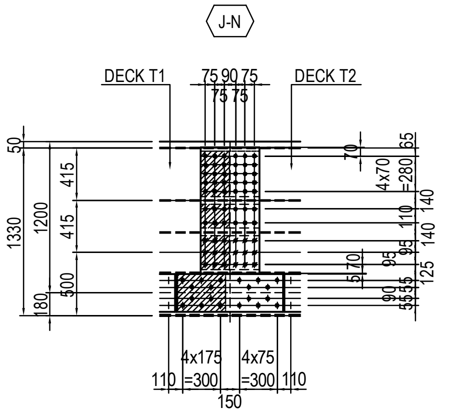
4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22x70 (S10T)

	J-N
TYPE-E1	J7～8,J15～21,J26～33,J38～45,J50～57,J62～69,J74～81

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT			DRAWING TITLE	COMMON DETAIL(10)
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY			PACKAGE	2
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE			DWG No.	P2-SB-1040
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA	15 Jun.2017	
		CHECKED BY	T. HAYAKAWA	20 Jun.2017	
		APPROVED BY	Y. SANO	21 Jun.2017	

COMMON DETAIL(11) S=1:60

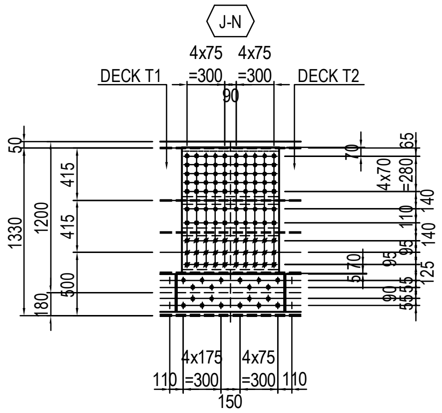
D-1,D-5



1-SPL PL 470 x9x1000(SM490YA)
1-SPL PL 470 x9x 360(SM490YA)
1-SPL PL 470 x9x 190(SM490YA)
1-SPL PL 470 x9x 270(SM490YA)
1-FILL PL 230 xT3x 360(SS400)
1-FILL PL 230 xT3x 190(SS400)
1-FILL PL 230 xT3x 270(SS400)
42-TCB M22xL1 (S10T)
18-HTB M22xL2 (F10T)

2-SPL PL 300 x9x 850(SM490YA)
1-FILL PL 300 xT3x 380(SS400)
20-TCB M22xL1 (S10T)

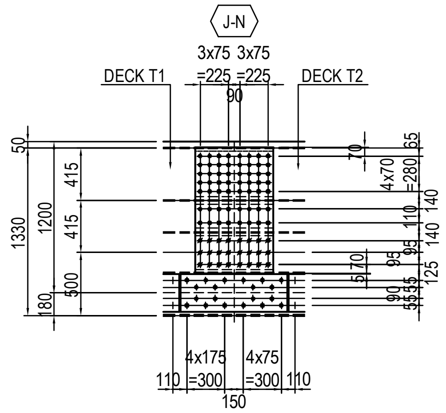
	L1	L2	T1	T2	T3	J-N
TYPE-A3	75	80	16	22	6	J9,J14,J34,J37
TYPE-A4	80	85	22	27	5	J10,J13
TYPE-A5	75	80	16	19	3.2	J22,J25
TYPE-A6	75	80	16	21	5	J46,J49
TYPE-A7	75	80	16	20	4	J58,J61
TYPE-A8	80	85	16	25	9	J70,J73



1-SPL PL 770 x12x1000(SM490YA)
1-SPL PL 770 x16x 360(SM490YA)
1-SPL PL 770 x16x 190(SM490YA)
1-SPL PL 770 x16x 270(SM490YA)
70-TCB M22xL1 (S10T)
30-HTB M22xL2 (F10T)

2-SPL PL 300 x9x 850(SM490YA)
20-TCB M22xL1 (S10T)

	L1	L2	T1	T2	J-N
TYPE-A9	90	95	27	27	J11,J12
TYPE-A10	90	95	25	25	J71,J72

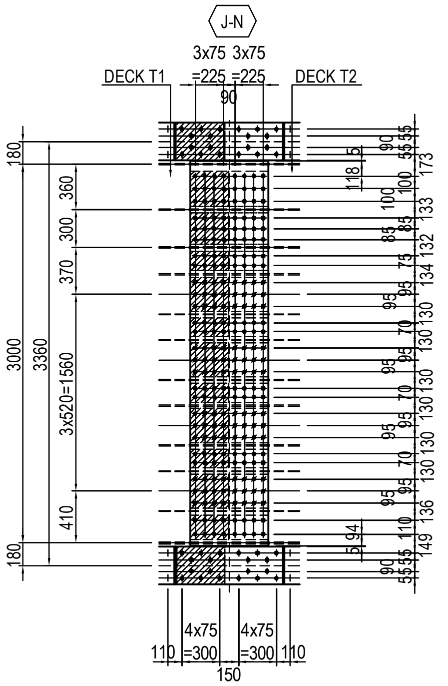


1-SPL PL 620 xT3x1000(SM490YA)
1-SPL PL 620 xT4x 360(SM490YA)
1-SPL PL 620 xT4x 190(SM490YA)
1-SPL PL 620 xT4x 270(SM490YA)
56-TCB M22xL1 (S10T)
24-HTB M22xL2 (F10T)

2-SPL PL 300 x9x 850(SM490YA)
20-TCB M22xL1 (S10T)

	L1	L2	T1	T2	T3	T4	J-N
TYPE-A11	75	80	19	19	9	11	J23,J24
TYPE-A12	80	85	22	22	10	13	J35,J36
TYPE-A13	80	85	21	21	10	13	J47,J48
TYPE-A14	80	85	20	20	10	13	J59,J60

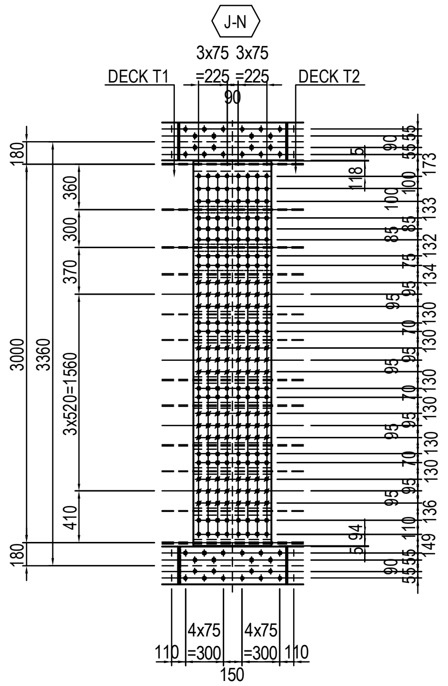
G1,G4



1-SPL PL 620 x 9x3050(SM490YA)
1-SPL PL 620 x10x 280(SM490YA)
1-SPL PL 620 x10x 250(SM490YA)
1-SPL PL 620 x10x 155(SM490YA)
4-SPL PL 620 x10x 270(SM490YA)
3-SPL PL 620 x10x 150(SM490YA)
1-SPL PL 620 x10x 190(SM490YA)
1-FILL PL 305 xT3x 280(SS400)
1-FILL PL 305 xT3x 250(SS400)
1-FILL PL 305 xT3x 155(SS400)
4-FILL PL 305 xT3x 270(SS400)
3-FILL PL 305 xT3x 150(SS400)
1-FILL PL 305 xT3x 190(SS400)
128-TCB M22xL1 (S10T)
96-HTB M22xL2 (F10T)

4-SPL PL 300 x9x 850(SM490YA)
2-FILL PL 300 xT3x 380(SS400)
40-TCB M22xL1 (S10T)

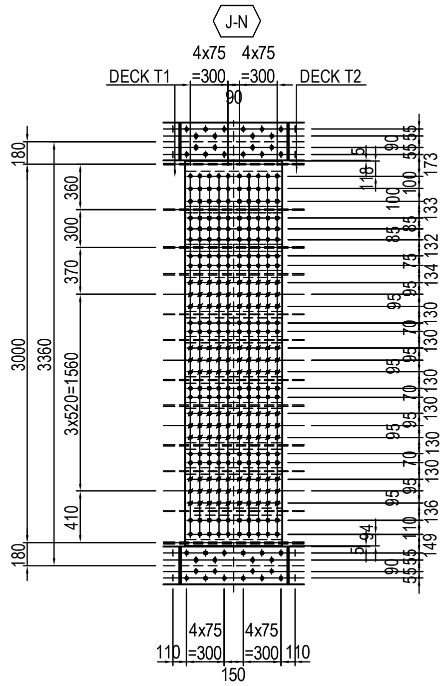
	L1	L2	T1	T2	T3	J-N
TYPE-B2	80	85	16	22	6	J9,J14,J34,J37
TYPE-B3	85	90	22	27	5	J10,J13
TYPE-B4	75	80	16	19	3.2	J22,J25
TYPE-B5	75	80	16	21	5	J46,J49
TYPE-B6	75	80	16	20	4	J58,J61
TYPE-B7	80	85	16	25	9	J70,J73



1-SPL PL 620 xT3x3050(SM490YA)
1-SPL PL 620 xT4x 280(Grade)
1-SPL PL 620 xT4x 250(Grade)
1-SPL PL 620 xT4x 155(Grade)
4-SPL PL 620 xT4x 270(Grade)
3-SPL PL 620 xT4x 150(Grade)
1-SPL PL 620 xT4x 190(Grade)
128-TCB M22xL1 (S10T)
96-HTB M22xL2 (F10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22xL1 (S10T)

	L1	L2	T1	T2	T3	T4	J-N	Grade
TYPE-B8	95	100	27	27	12	19	J11,J12	SM490YB
TYPE-B9	80	85	19	19	9	14	J23,J24	SM490YA
TYPE-B10	80	85	20	20	9	14	J59,J60	SM490YA



1-SPL PL 770 xT3x3050(SM490YA)
1-SPL PL 770 xT4x 280(Grade)
1-SPL PL 770 xT4x 250(Grade)
1-SPL PL 770 xT4x 155(Grade)
4-SPL PL 770 xT4x 270(Grade)
3-SPL PL 770 xT4x 150(Grade)
1-SPL PL 770 xT4x 190(Grade)
160-TCB M22xL1 (S10T)
120-HTB M22xL2 (F10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22xL1 (S10T)

	L1	L2	T1	T2	T3	T4	J-N	Grade
TYPE-B11	85	90	22	22	10	15	J35,J36	SM490YA
TYPE-B12	85	90	21	21	10	15	J47,J48	SM490YA
TYPE-B13	90	95	25	25	11	18	J71,J72	SM490YB

PROJECT NAME
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT

FINANCED BY
JAPAN INTERNATIONAL COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	今田 直平	15 Jun.2017
CHECKED BY	T. HAYAKAWA	早川 知邦	20 Jun.2017
APPROVED BY	Y. SANO	佐野 祐一	21 Jun.2017

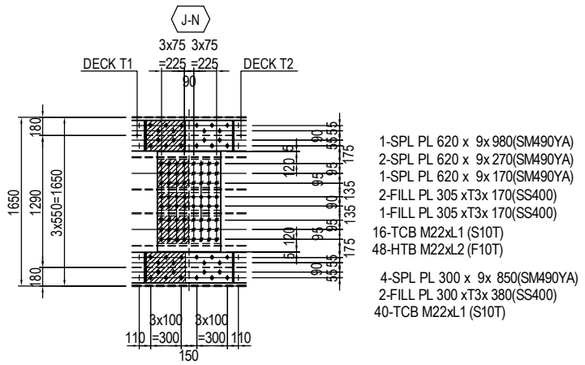
DRAWING TITLE: COMMON DETAIL(11)

PACKAGE: 2

DWG No.: P2-SB-1041

COMMON DETAIL(12) S=1:60

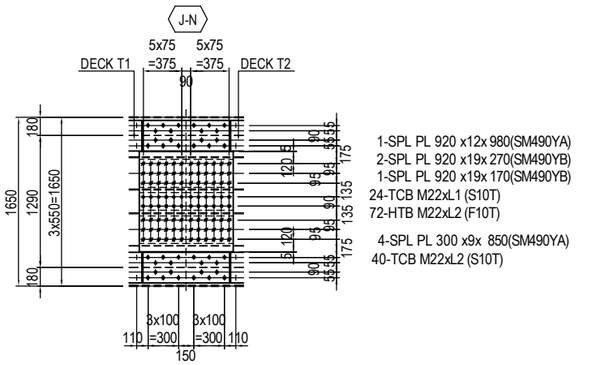
D-2,D-4



1-SPL PL 620 x 9x 980(SM490YA)
2-SPL PL 620 x 9x 270(SM490YA)
1-SPL PL 620 x 9x 170(SM490YA)
2-FILL PL 305 xT3x 170(SS400)
1-FILL PL 305 xT3x 170(SS400)
16-TCB M22xL1 (S10T)
48-HTB M22xL2 (F10T)

4-SPL PL 300 x 9x 850(SM490YA)
2-FILL PL 300 xT3x 380(SS400)
40-TCB M22xL1 (S10T)

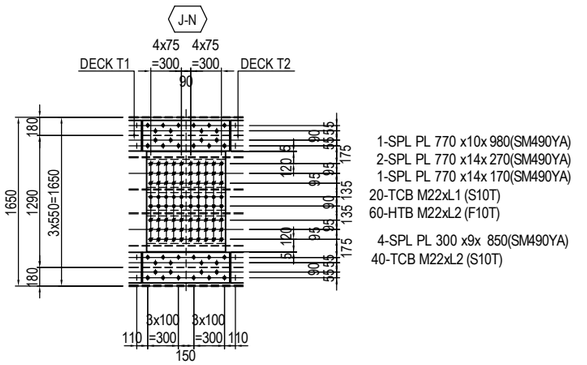
	L1	L2	T1	T2	T3	J-N
TYPE-C2	75	80	16	22	6	J9,J14,J34,J37
TYPE-C3	80	85	22	27	5	J10,J13
TYPE-C4	75	80	16	19	3.2	J22,J25
TYPE-C5	75	80	16	21	5	J46,J49
TYPE-C6	75	80	16	20	4	J58,J61
TYPE-C7	80	85	16	25	9	J70,J73



1-SPL PL 920 x12x 980(SM490YA)
2-SPL PL 920 x19x 270(SM490YB)
1-SPL PL 920 x19x 170(SM490YB)
24-TCB M22xL1 (S10T)
72-HTB M22xL2 (F10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22xL2 (S10T)

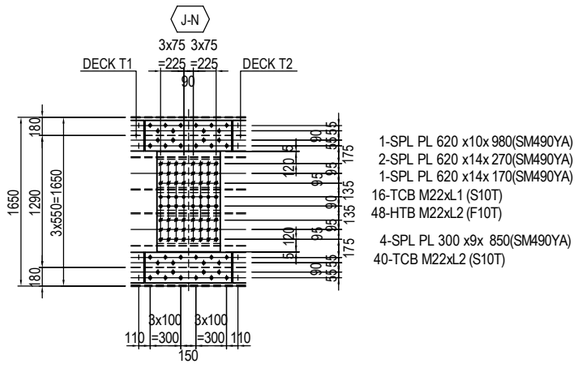
	L1	L2	T1	T2	J-N
TYPE-C8	95	100	27	27	J11,J12
TYPE-C9	95	100	25	25	J71,J72



1-SPL PL 770 x10x 980(SM490YA)
2-SPL PL 770 x14x 270(SM490YA)
1-SPL PL 770 x14x 170(SM490YA)
20-TCB M22xL1 (S10T)
60-HTB M22xL2 (F10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22xL2 (S10T)

	L1	L2	T1	T2	J-N
TYPE-C10	80	85	19	19	J23,J24
TYPE-C11	80	85	21	21	J47,J48

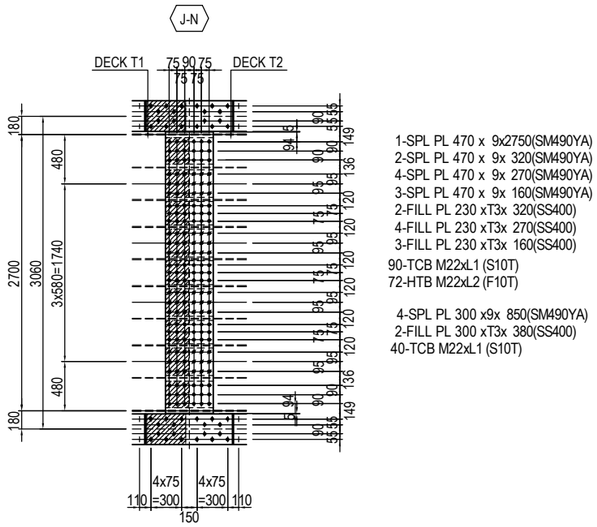


1-SPL PL 620 x10x 980(SM490YA)
2-SPL PL 620 x14x 270(SM490YA)
1-SPL PL 620 x14x 170(SM490YA)
16-TCB M22xL1 (S10T)
48-HTB M22xL2 (F10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22xL2 (S10T)

	L1	L2	T1	T2	J-N
TYPE-C12	85	90	22	22	J35,J36
TYPE-C13	80	85	20	20	J59,J60

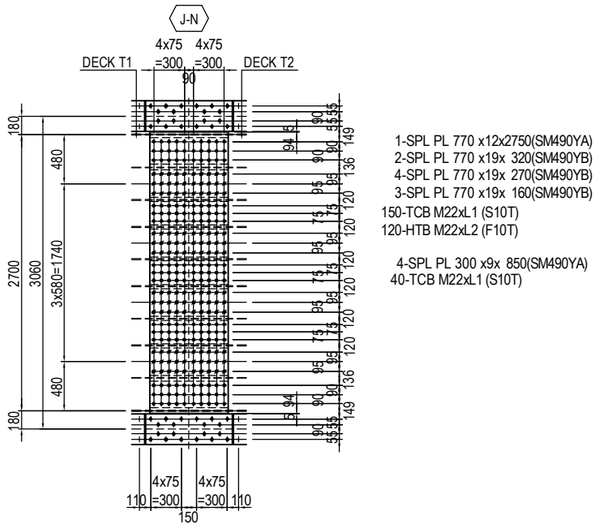
G2,G3



1-SPL PL 470 x 9x2750(SM490YA)
2-SPL PL 470 x 9x 320(SM490YA)
4-SPL PL 470 x 9x 270(SM490YA)
3-SPL PL 470 x 9x 160(SM490YA)
2-FILL PL 230 xT3x 320(SS400)
4-FILL PL 230 xT3x 270(SS400)
3-FILL PL 230 xT3x 160(SS400)
90-TCB M22xL1 (S10T)
72-HTB M22xL2 (F10T)

4-SPL PL 300 x9x 850(SM490YA)
2-FILL PL 300 xT3x 380(SS400)
40-TCB M22xL1 (S10T)

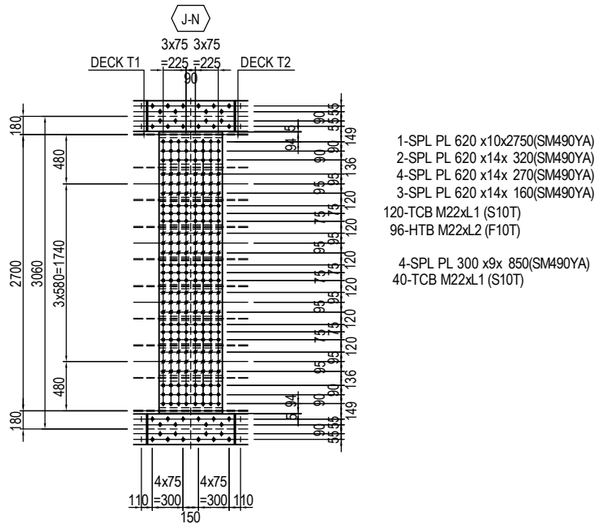
	L1	L2	T1	T2	T3	J-N
TYPE-D2	75	80	16	22	6	J9,J14,J34,J37
TYPE-D3	80	85	22	27	5	J10,J13
TYPE-D4	75	80	16	19	3.2	J22,J25
TYPE-D5	75	80	16	21	5	J46,J49
TYPE-D6	75	80	16	20	4	J58,J61
TYPE-D7	80	85	16	25	9	J70,J73



1-SPL PL 770 x12x2750(SM490YA)
2-SPL PL 770 x19x 320(SM490YB)
4-SPL PL 770 x19x 270(SM490YB)
3-SPL PL 770 x19x 160(SM490YB)
150-TCB M22xL1 (S10T)
120-HTB M22xL2 (F10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22xL1 (S10T)

	L1	L2	T1	T2	J-N
TYPE-D8	95	100	27	27	J11,J12
TYPE-D9	95	100	25	25	J71,J72



1-SPL PL 620 x10x2750(SM490YA)
2-SPL PL 620 x14x 320(SM490YA)
4-SPL PL 620 x14x 270(SM490YA)
3-SPL PL 620 x14x 160(SM490YA)
120-TCB M22xL1 (S10T)
96-HTB M22xL2 (F10T)

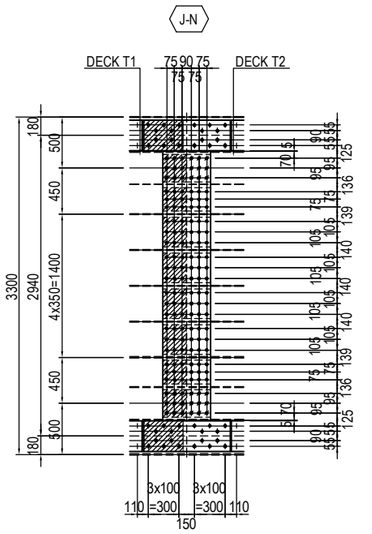
4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22xL1 (S10T)

	L1	L2	T1	T2	J-N
TYPE-D10	80	85	19	19	J23,J24
TYPE-D11	85	90	22	22	J35,J36
TYPE-D12	80	85	21	21	J47,J48
TYPE-D13	80	85	20	20	J59,J60

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA		15 Jun.2017	COMMON DETAIL(12)	2
				CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1042

COMMON DETAIL(13) S=1:60

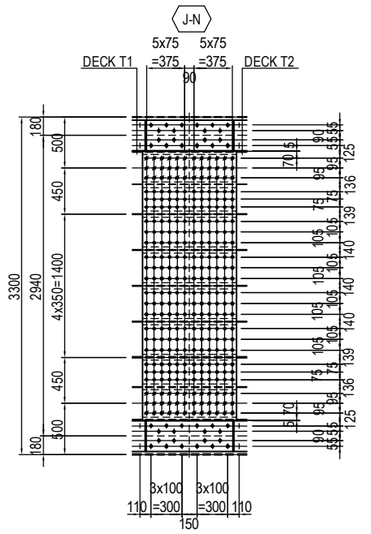
D-3



1-SPL PL 470 x9x2630(SM490YA)
2-SPL PL 470 x9x 270(SM490YA)
2-SPL PL 470 x9x 230(SM490YA)
4-SPL PL 470 x9x 290(SM490YA)
2-FILL PL 230 xT3x 270(SS400)
2-FILL PL 230 xT3x 230(SS400)
4-FILL PL 230 xT3x 290(SS400)
108-TCB M22xL1 (S10T)
36-HTB M22xL2 (F10T)

4-SPL PL 300 x9x 850(SM490YA)
2-FILL PL 300 xT3x 380(SS400)
40-TCB M22xL1 (S10T)

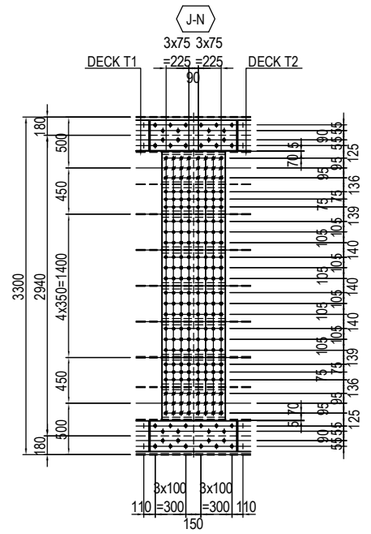
	L1	L2	T1	T2	T3	J-N
TYPE-E2	75	80	16	22	6	J9,J14,J34,J37
TYPE-E3	80	85	22	27	5	J10,J13
TYPE-E4	75	80	16	19	3.2	J22,J25
TYPE-E5	75	80	16	21	5	J46,J49
TYPE-E6	75	80	16	20	4	J58,J61
TYPE-E7	80	85	16	25	9	J70,J73



1-SPL PL 920 x13x2630(SM490YA)
2-SPL PL 920 x19x 270(SM490YB)
2-SPL PL 920 x19x 230(SM490YB)
4-SPL PL 920 x19x 290(SM490YB)
216-TCB M22xL1 (S10T)
72-HTB M22xL2 (F10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22xL1 (S10T)

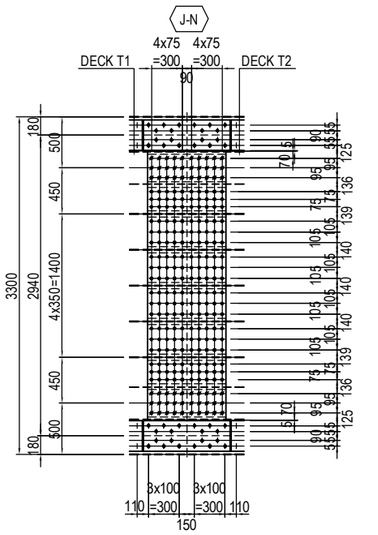
	L1	L2	T1	T2	J-N
TYPE-E8	95	100	27	27	J11,J12



1-SPL PL 620 x 9x2630(SM490YA)
2-SPL PL 620 x13x 270(SM490YA)
2-SPL PL 620 x13x 230(SM490YA)
4-SPL PL 620 x13x 290(SM490YA)
144-TCB M22xL1 (S10T)
48-HTB M22xL2 (F10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22xL1 (S10T)

	L1	L2	T1	T2	J-N
TYPE-E9	80	85	19	19	J23,J24
TYPE-E10	80	85	20	20	J59,J60



1-SPL PL 770 xT3x2630(SM490YA)
2-SPL PL 770 xT4x 270(Grade)
2-SPL PL 770 xT4x 230(Grade)
4-SPL PL 770 xT4x 290(Grade)
180-TCB M22xL1 (S10T)
60-HTB M22xL2 (F10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22xL1 (S10T)

	L1	L2	T1	T2	T3	T4	J-N	Grade
TYPE-E11	85	90	22	22	10	15	J35,J36	SM490YA
TYPE-E12	85	90	21	21	10	15	J47,J48	SM490YA
TYPE-E13	90	95	25	25	12	17	J71,J72	SM490YB

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

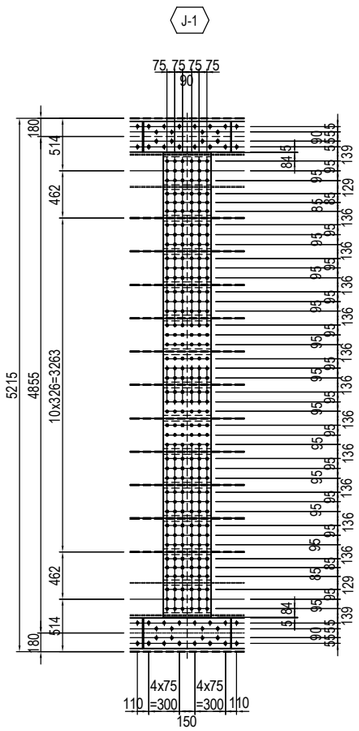
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE: COMMON DETAIL(13)

PACKAGE	
	2
DWG No.	
	P2-SB-1043

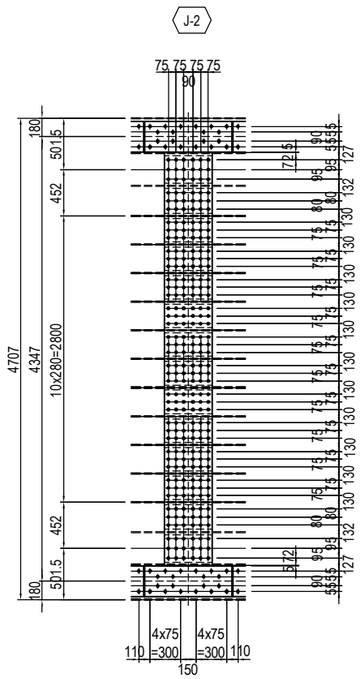
COMMON DETAIL(14) S=1:60

D-3



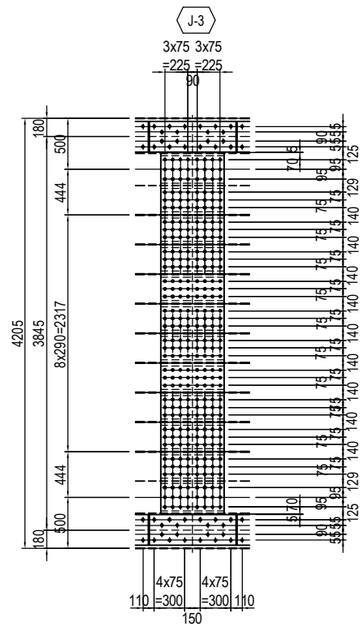
1-SPL PL 470 x 9x4545(SM490YA)
2-SPL PL 470 x 9x 270(SM490YA)
2-SPL PL 470 x 9x 250(SM490YA)
10-SPL PL 470 x 9x 270(SM490YA)
252-TCB M22x70 (S10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22x70 (S10T)



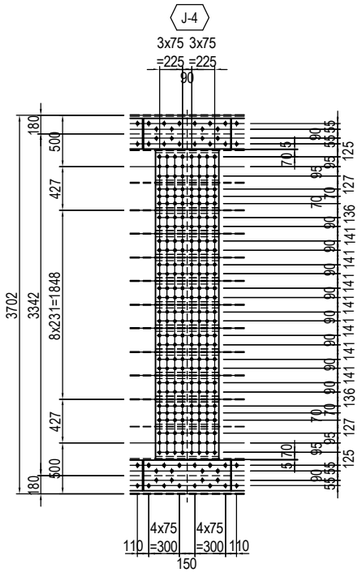
1-SPL PL 470 x 9x4037(SM490YA)
2-SPL PL 470 x 9x 270(SM490YA)
2-SPL PL 470 x 9x 240(SM490YA)
10-SPL PL 470 x 9x 230(SM490YA)
252-TCB M22x70 (S10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22x70 (S10T)



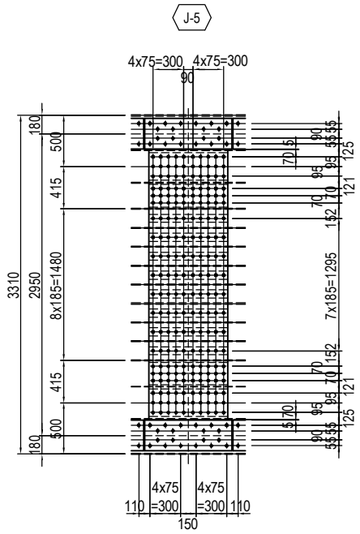
1-SPL PL 620 x 9x3535(SM490YA)
2-SPL PL 620 x 9x 270(SM490YA)
2-SPL PL 620 x 9x 230(SM490YA)
8-SPL PL 620 x 9x 230(SM490YA)
288-TCB M22x70 (S10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22x70 (S10T)



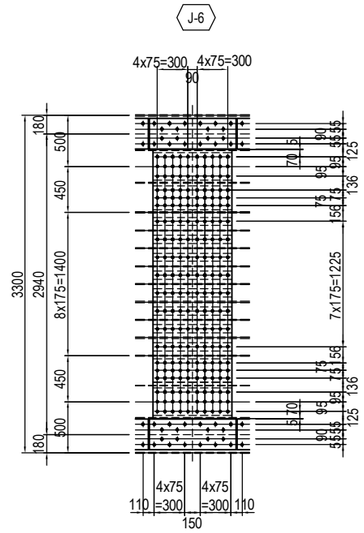
1-SPL PL 620 x 9x3032(SM490YA)
2-SPL PL 620 x 9x 270(SM490YA)
2-SPL PL 620 x 9x 220(SM490YA)
8-SPL PL 620 x 9x 170(SM490YA)
224-TCB M22x70 (S10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22x70 (S10T)



1-SPL PL 770 x 9x2640(SM490YA)
2-SPL PL 770 x13x 270(SM490YA)
2-SPL PL 770 x13x 220(SM490YA)
8-SPL PL 770 x13x 80(SM490YA)
200-TCB M22x75 (S10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22x70 (S10T)



1-SPL PL 770 x 9x2630(SM490YA)
2-SPL PL 770 x13x 270(SM490YA)
2-SPL PL 770 x13x 230(SM490YA)
8-SPL PL 770 x13x 80(SM490YA)
200-TCB M22x75 (S10T)

4-SPL PL 300 x9x 850(SM490YA)
40-TCB M22x70 (S10T)

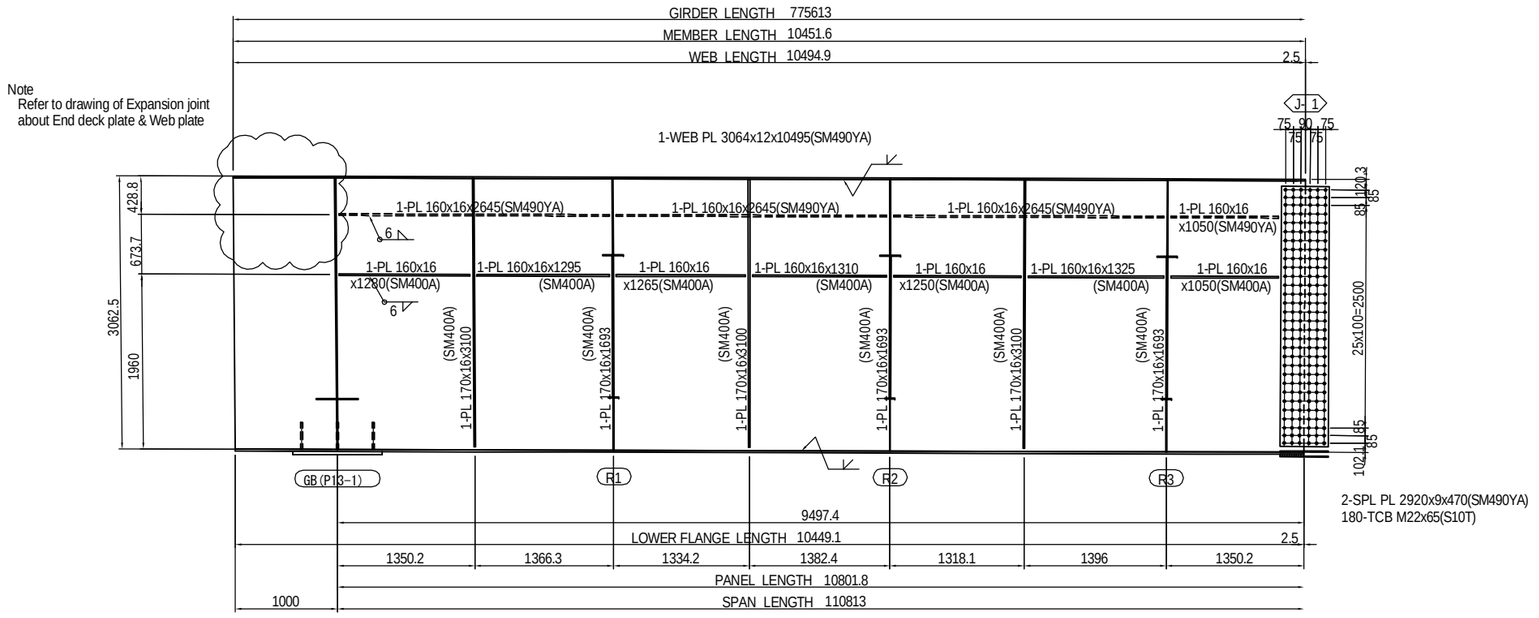
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

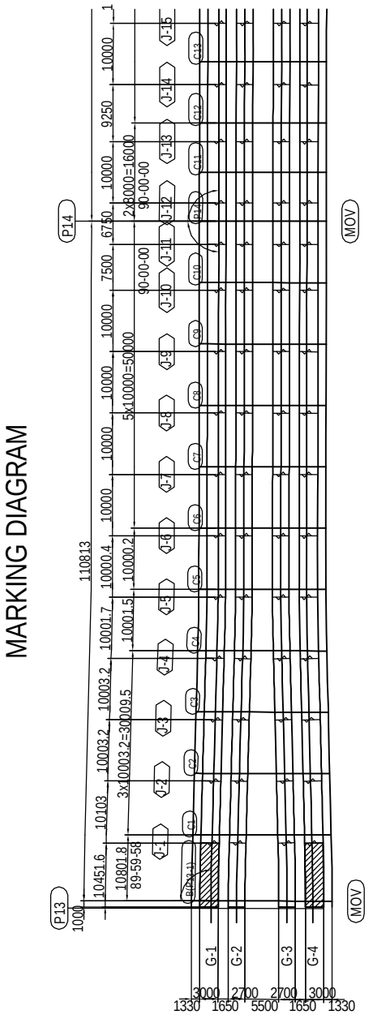
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
COMMON DETAIL(14)	2
	DWG No.
	P2-SB-1044

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (1)

S=1:60



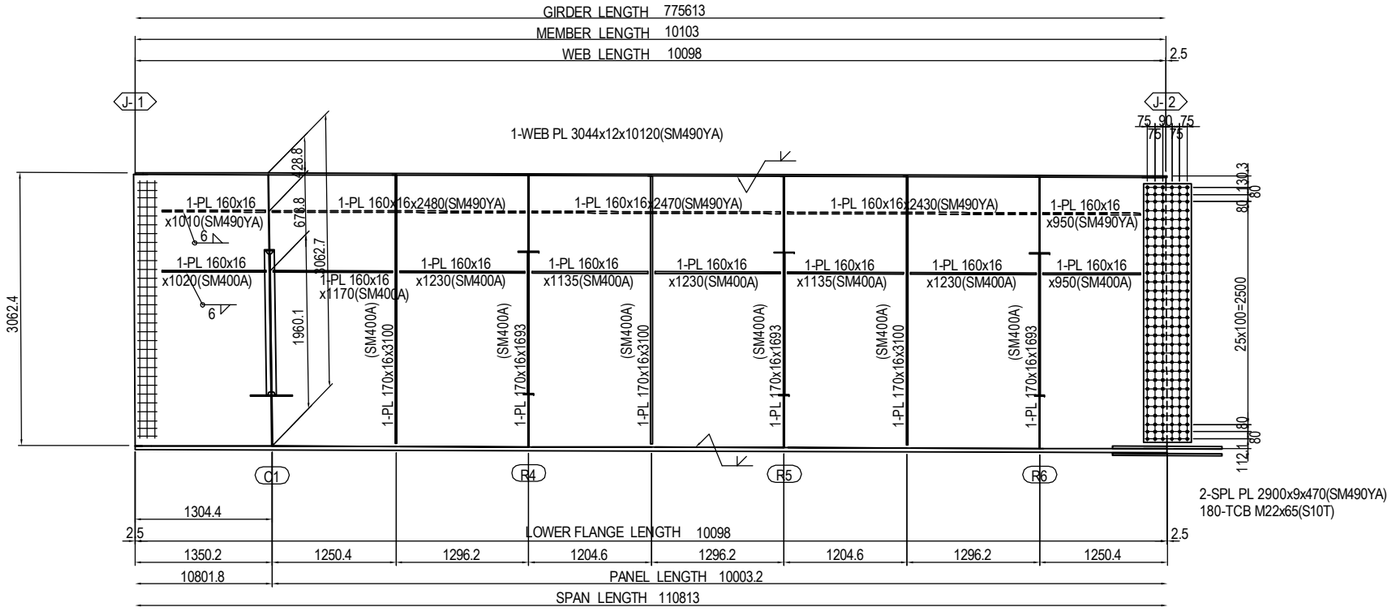


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

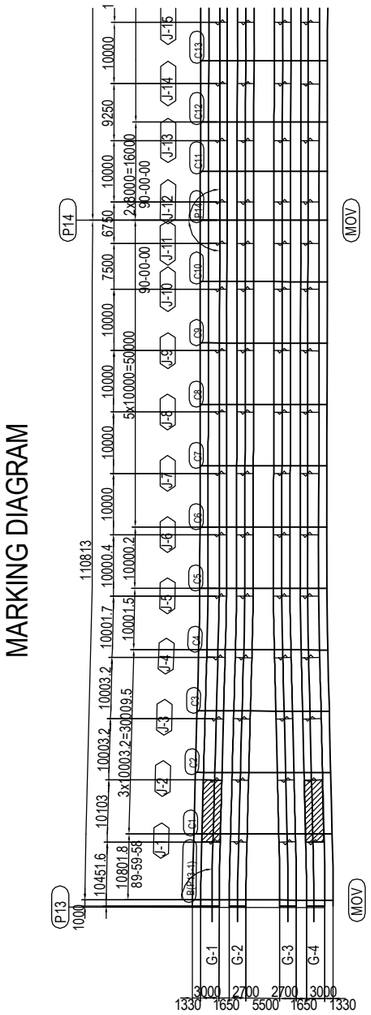
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1101

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (2)

S=1:60



MARKING DIAGRAM



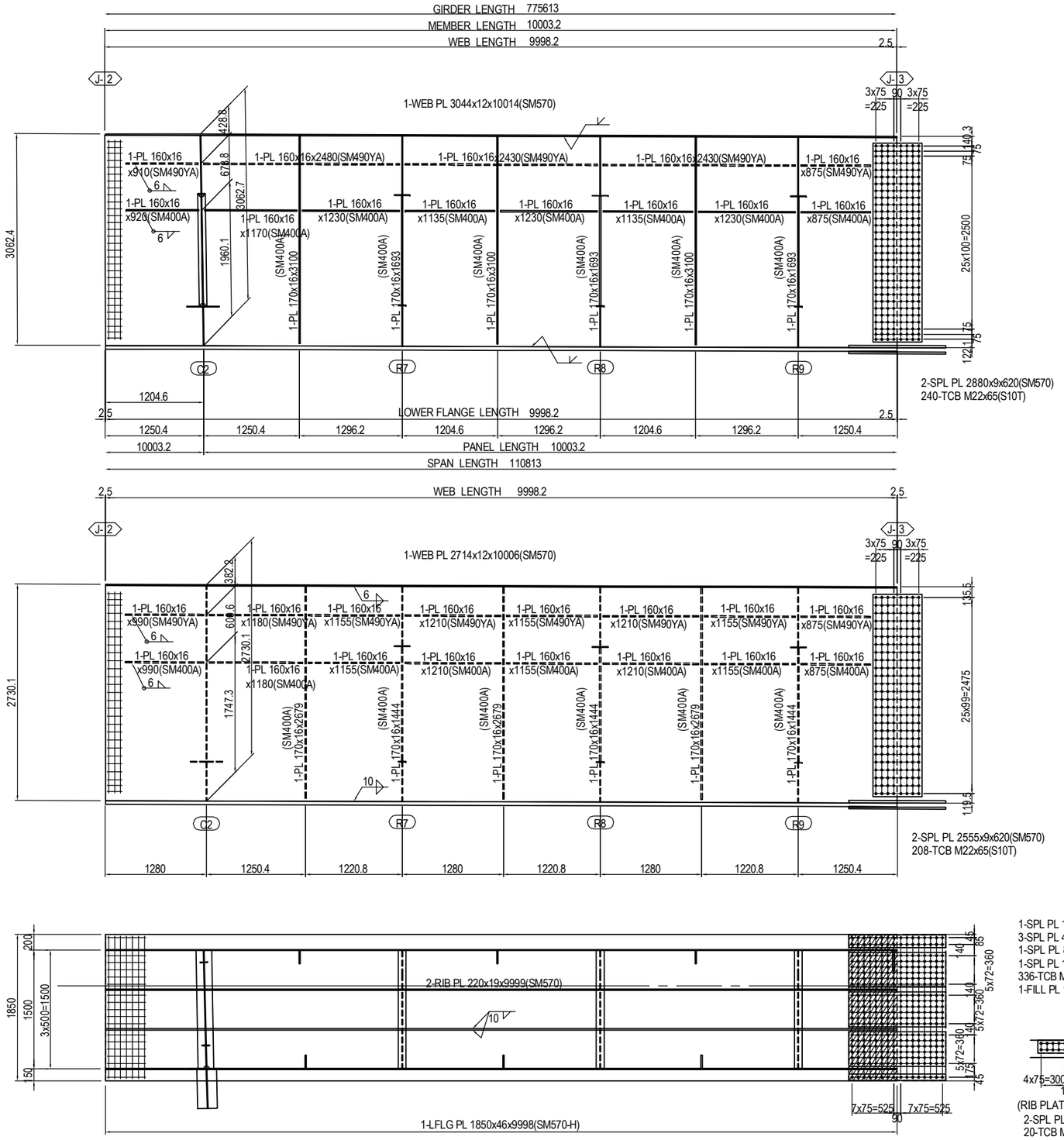
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (2)	2
	DWG No.
	P2-SB-1102

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (3)

S=1:60



PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (3)	2
	DWG No.
	P2-SB-1103

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (4)

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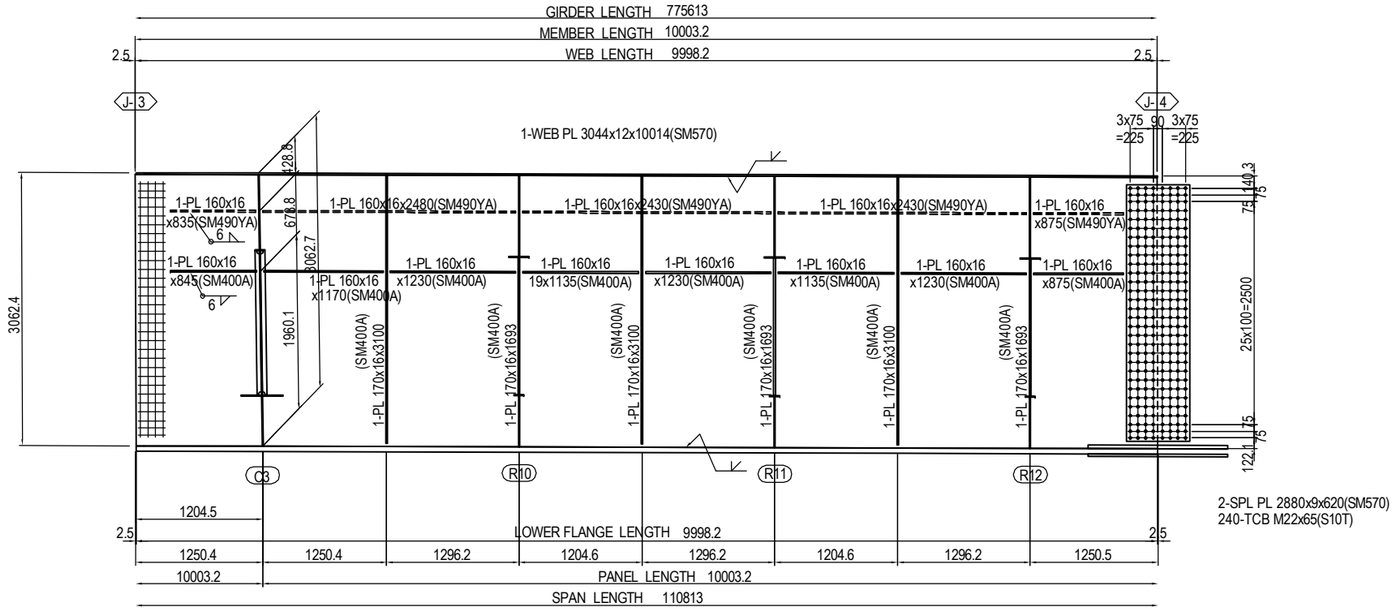
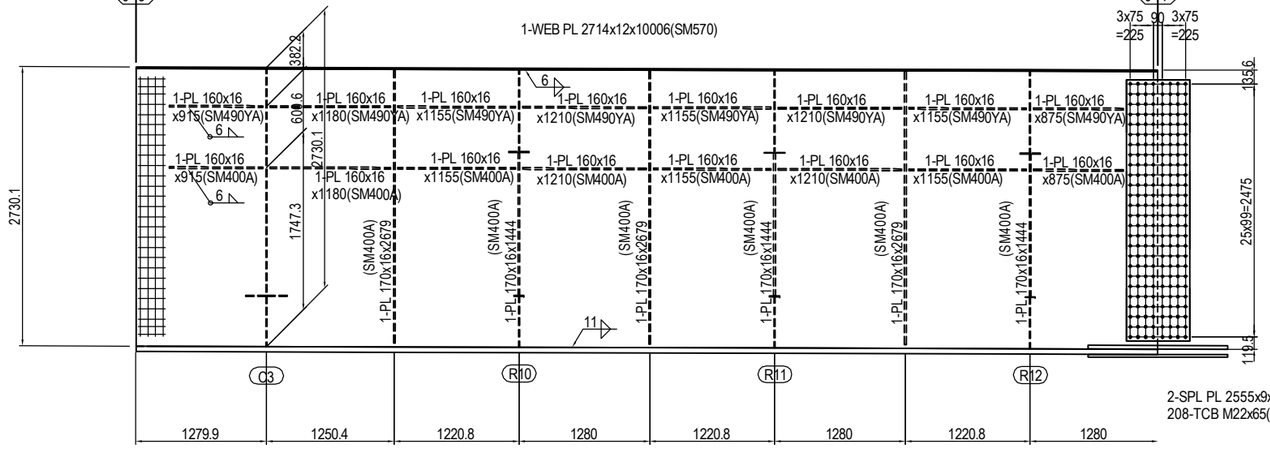
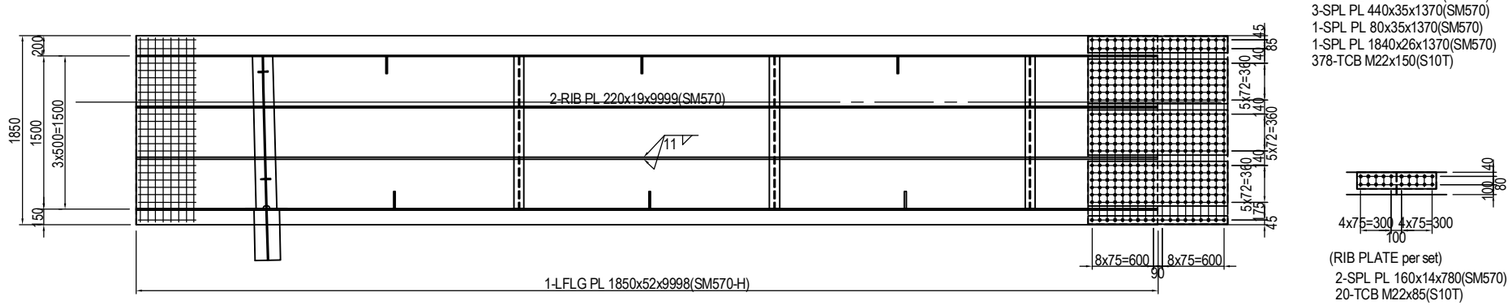
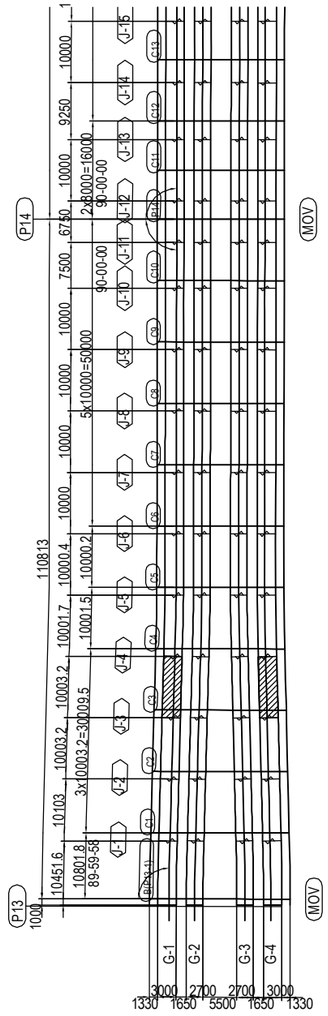






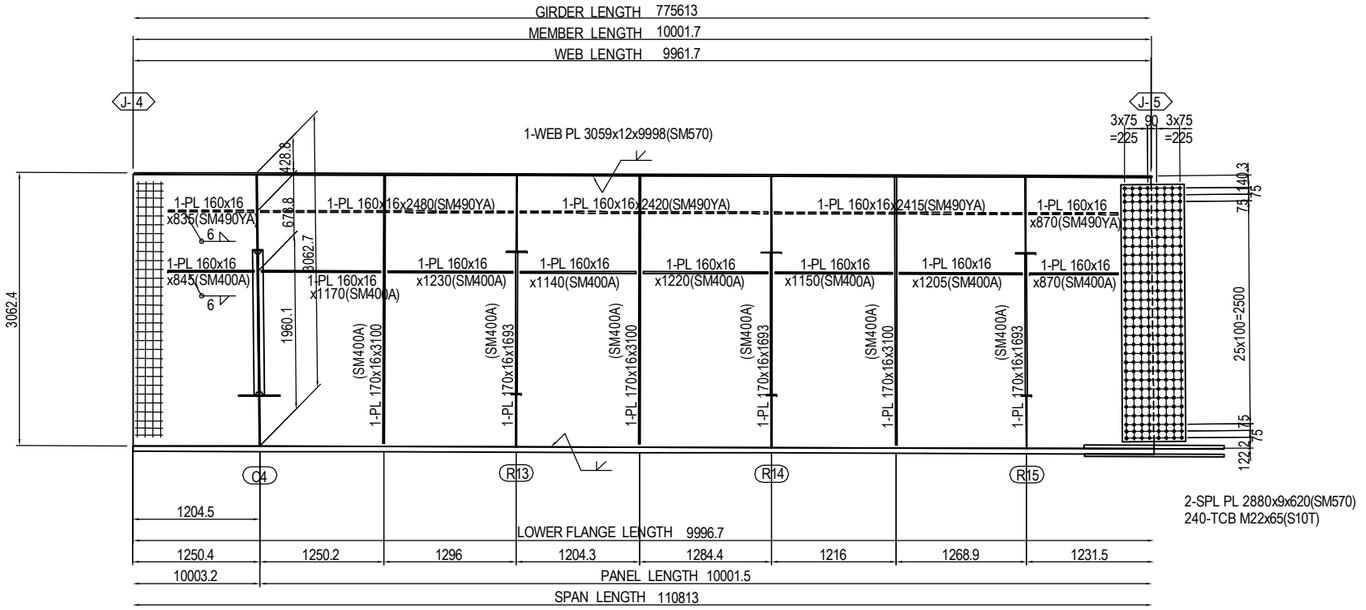
MARKING DIAGRAM

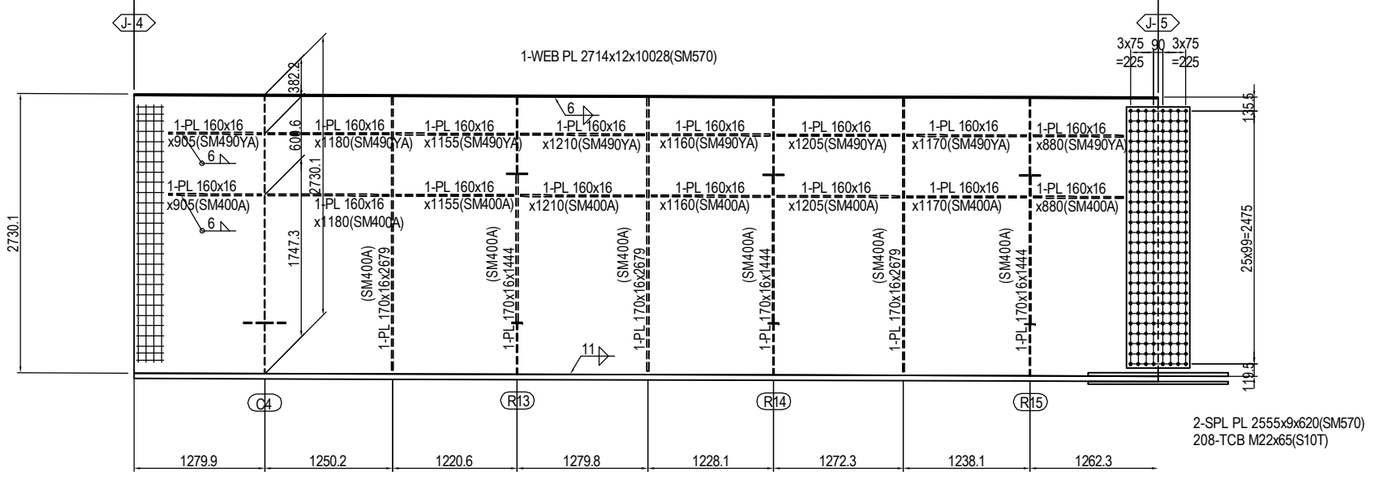


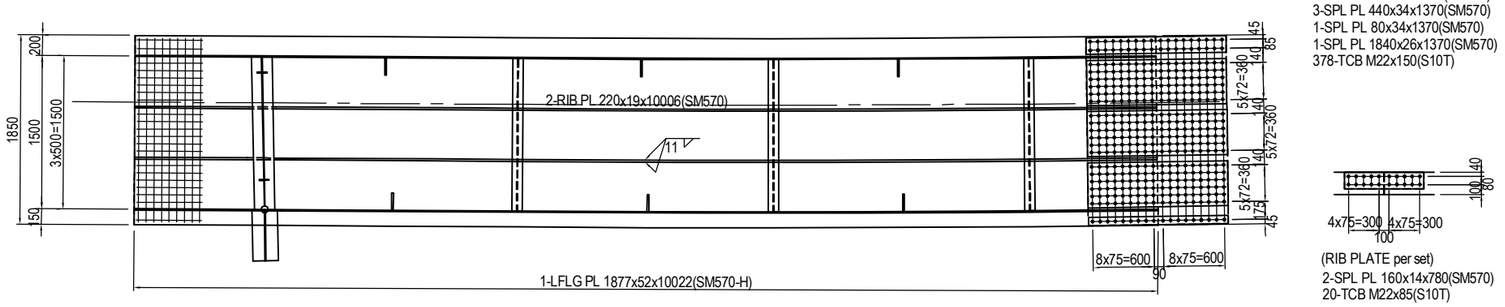
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (4)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1104

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (5)

S=1:60



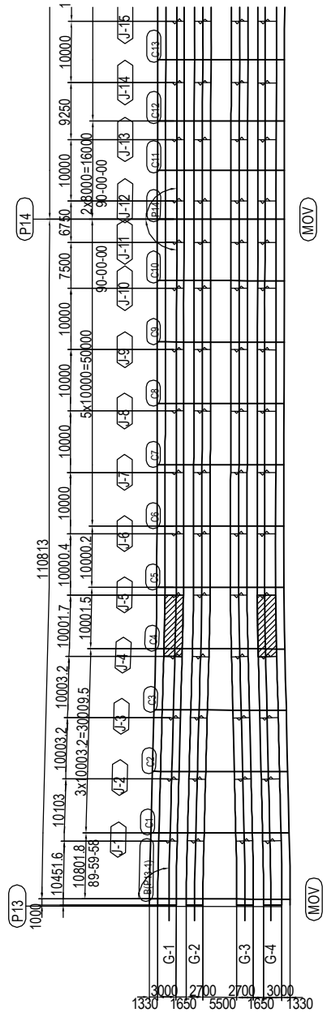




1-SPL PL 165x34x1370(SM570)
3-SPL PL 440x34x1370(SM570)
1-SPL PL 80x34x1370(SM570)
1-SPL PL 1840x26x1370(SM570)
378-TCB M22x150(S10T)

(RIB PLATE per set)
2-SPL PL 160x14x780(SM570)
20-TCB M22x85(S10T)

MARKING DIAGRAM



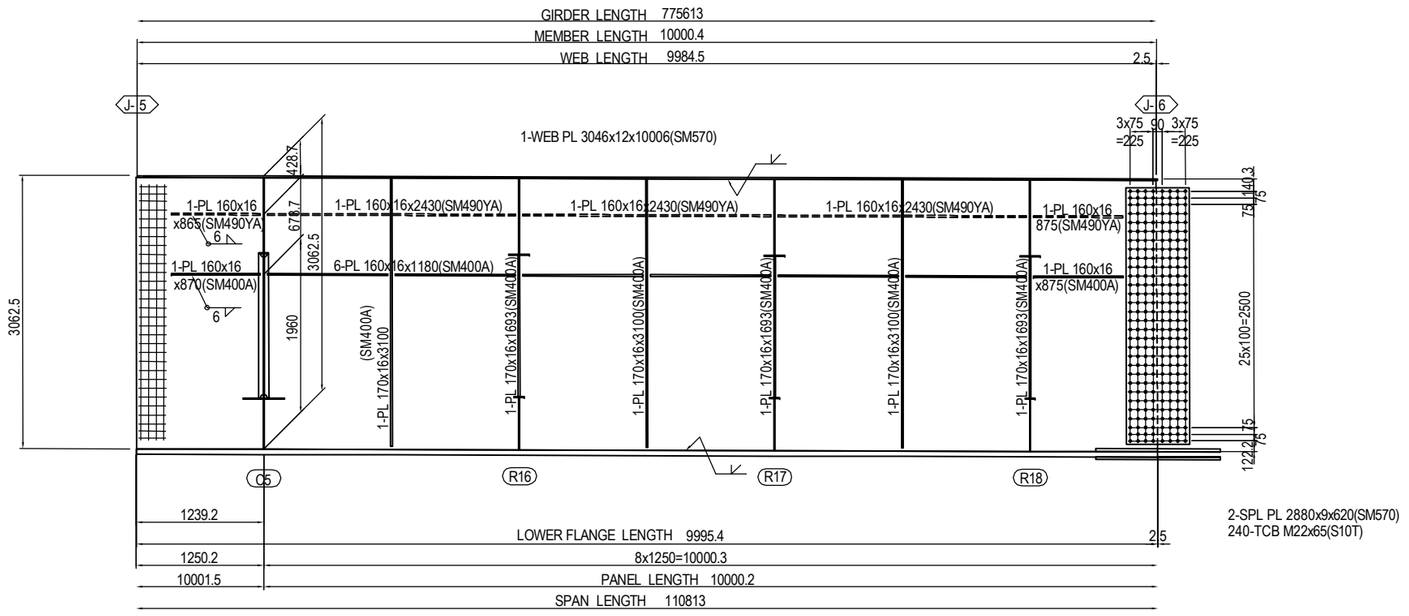
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

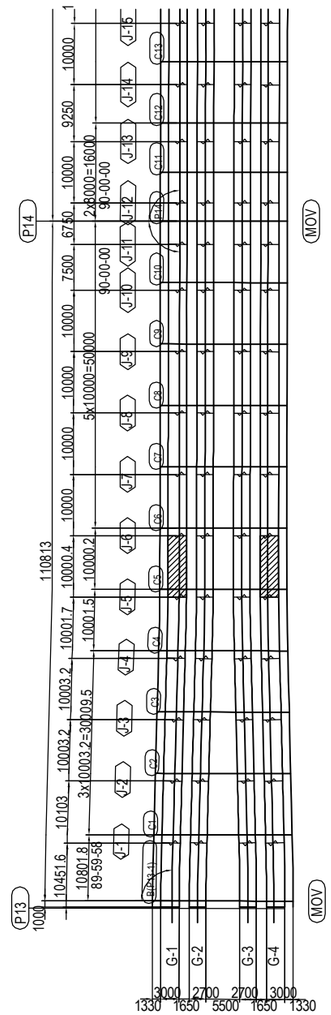
DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (5)	2
	DWG No.
	P2-SB-1105

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (6)

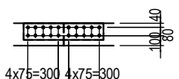
S=1:60



MARKING DIAGRAM



1-SPL PL 165x29x1220(SM570)
3-SPL PL 440x29x1220(SM570)
1-SPL PL 80x29x1220(SM570)
1-SPL PL 1840x25x1220(SM570)
336-TCB M22x145(S10T)
1-FILL PL 1840x6x608



(RIB PLATE per set)
2-SPL PL 160x14x780(SM570)
20-TCB M22x85(S10T)

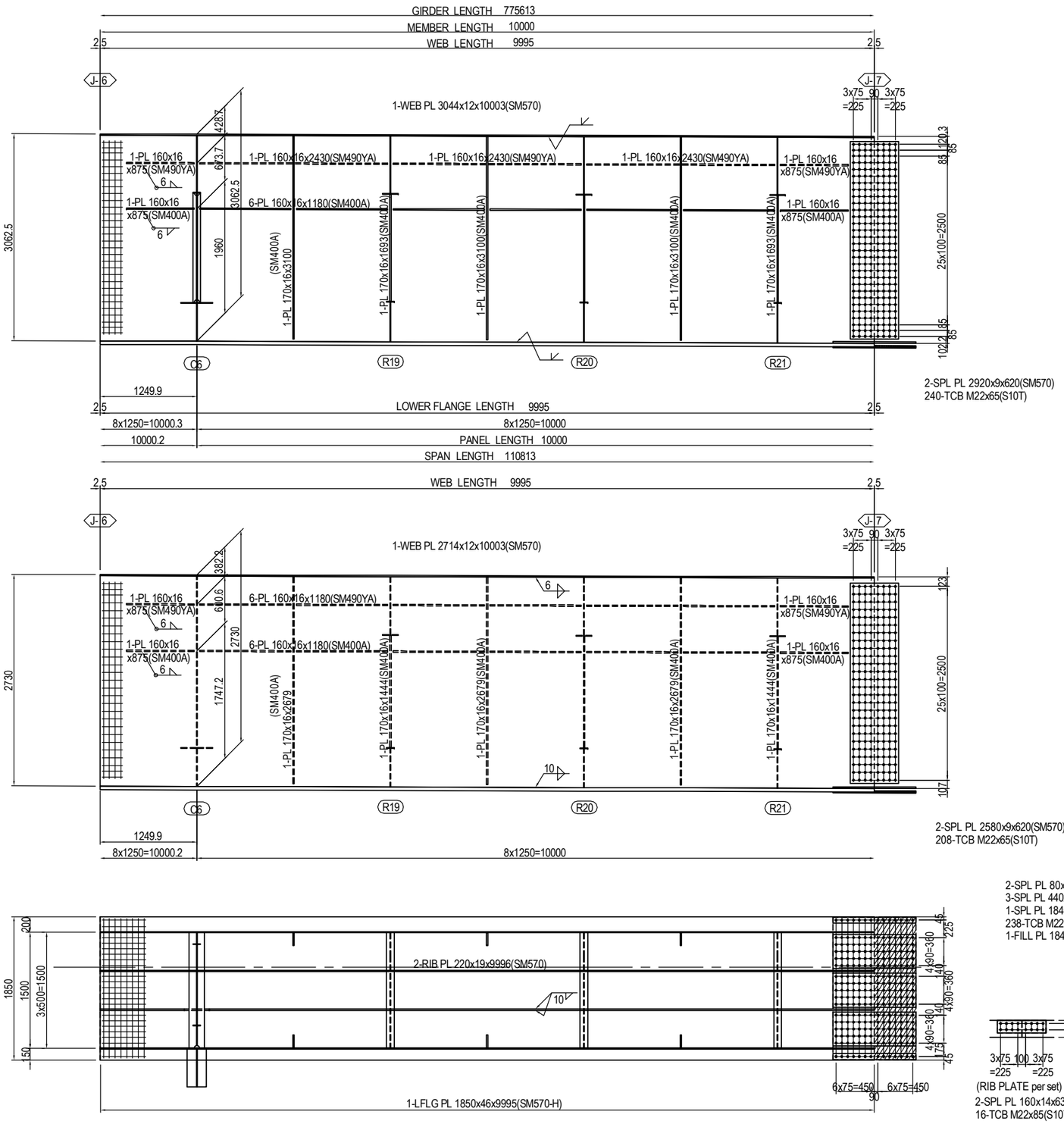
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

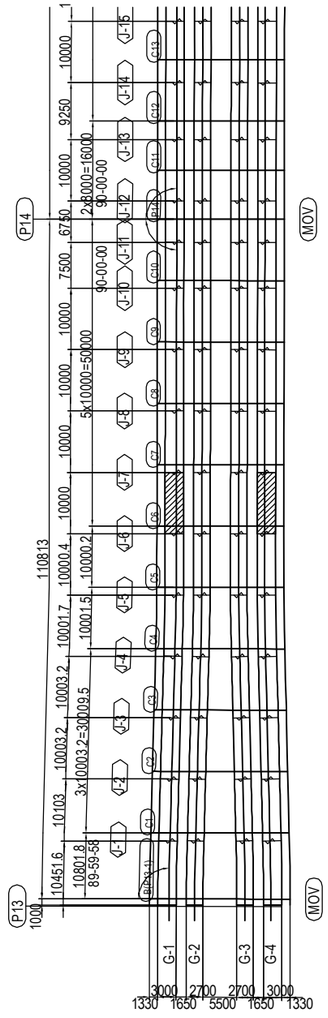
DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (6)	2
	DWG No.
	P2-SB-1106

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (7)

S=1:60



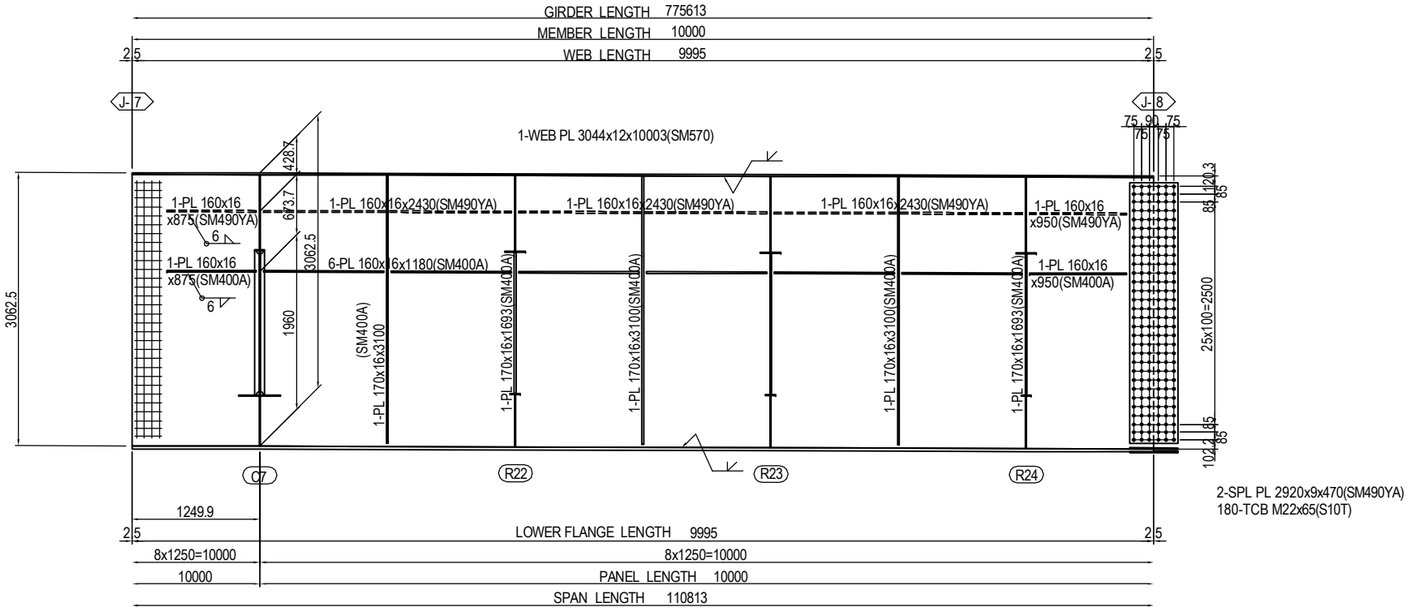
MARKING DIAGRAM



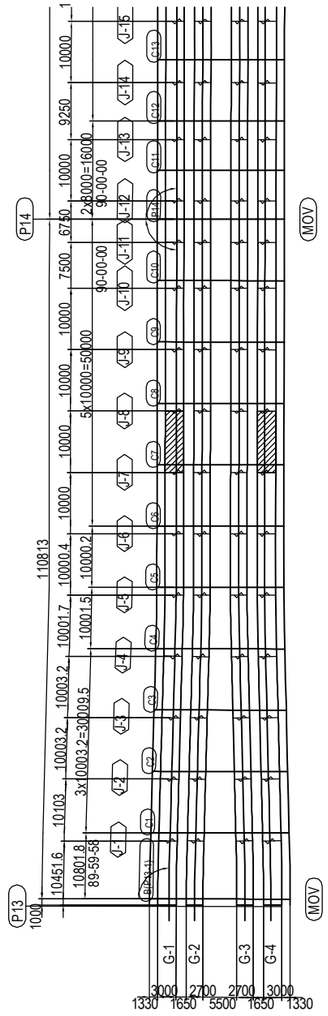
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (7)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1107

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (8) S=1:60

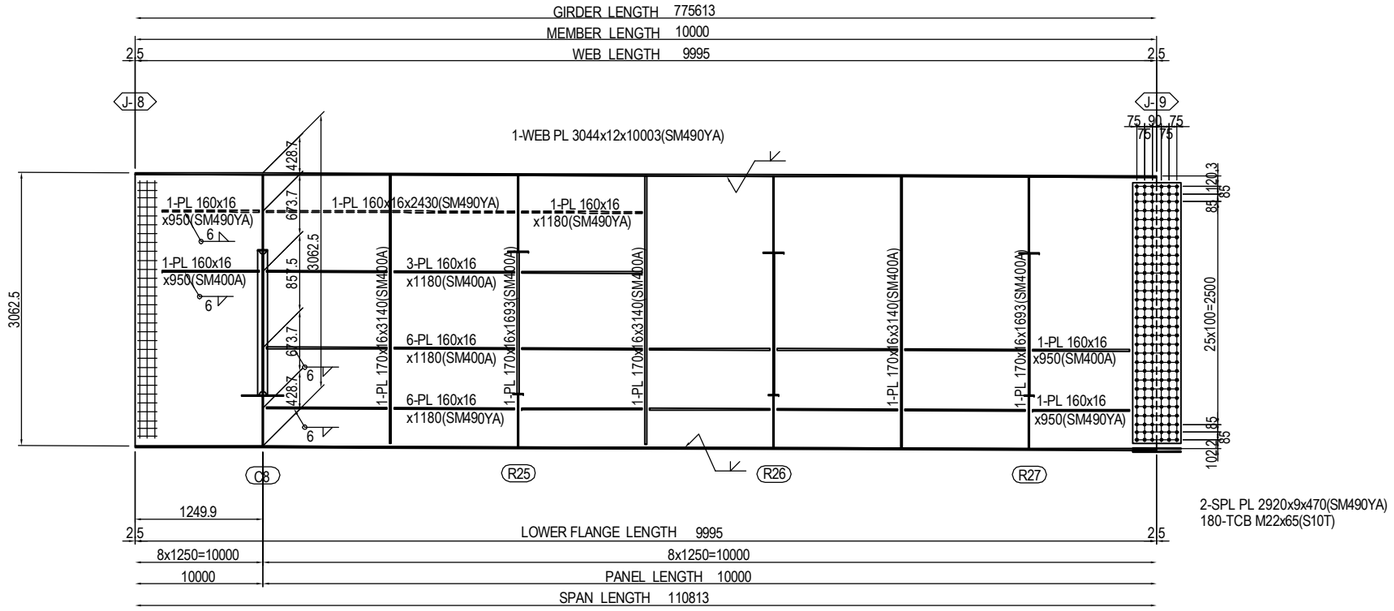


MARKING DIAGRAM



PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (8)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1108

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (9) S=1:60



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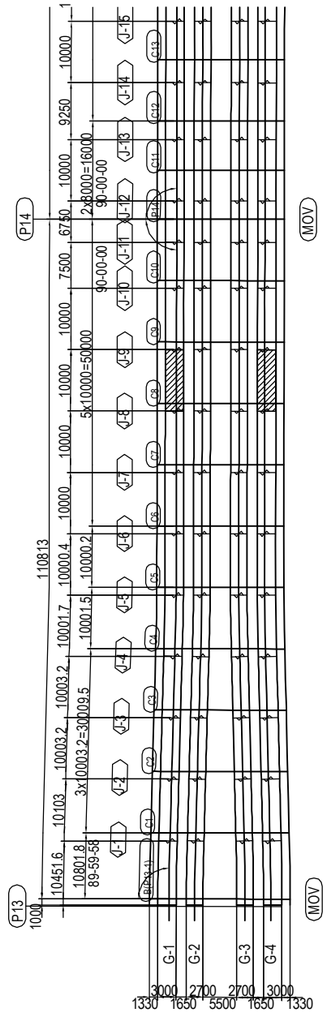
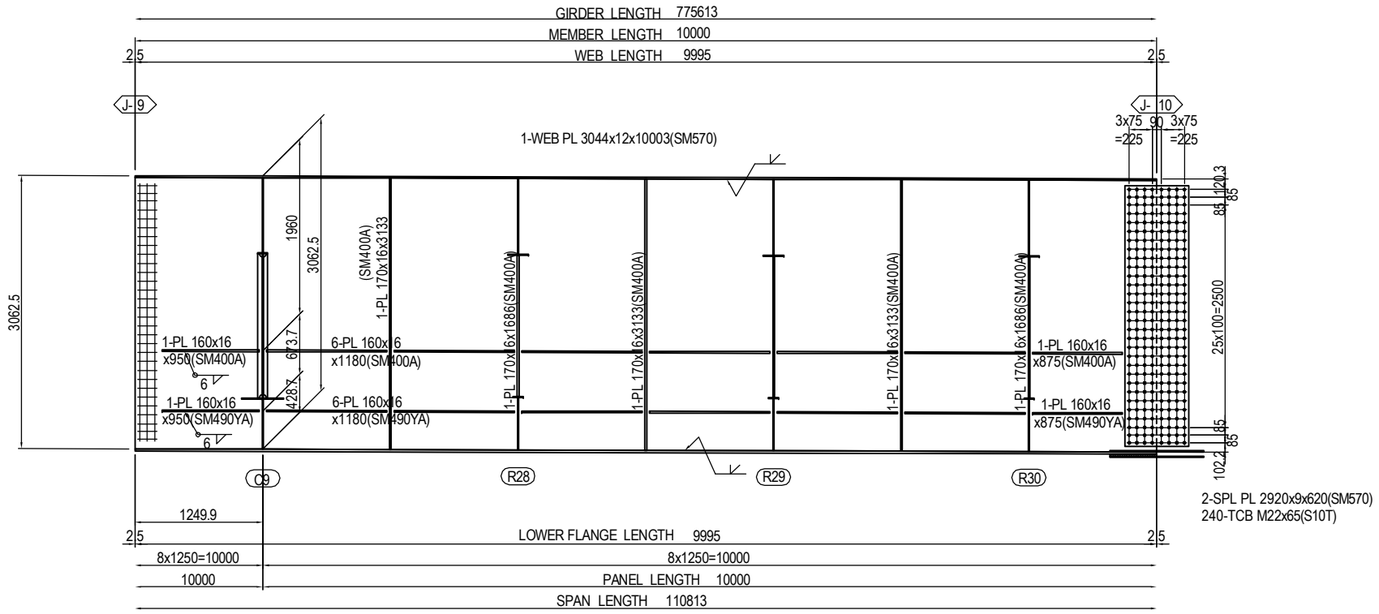


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (9)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1109

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (10) S=1:60



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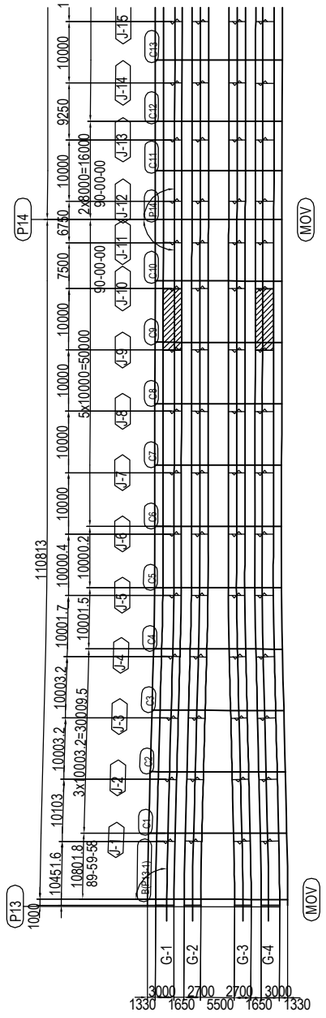
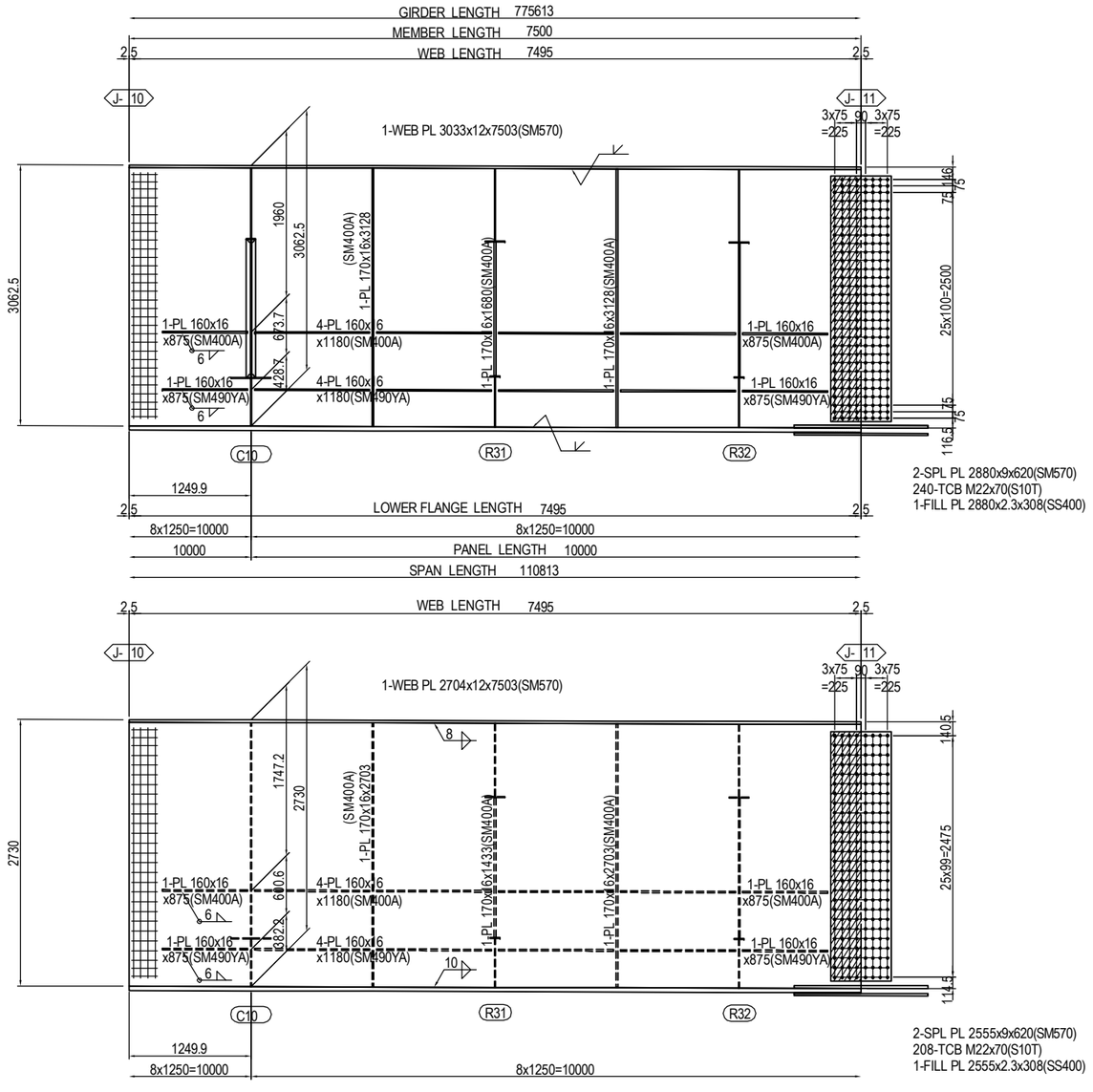


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (10)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1110

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (11) S=1:60



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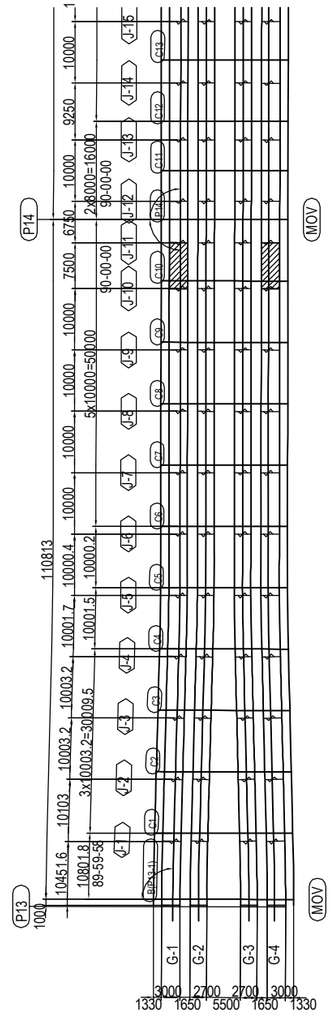
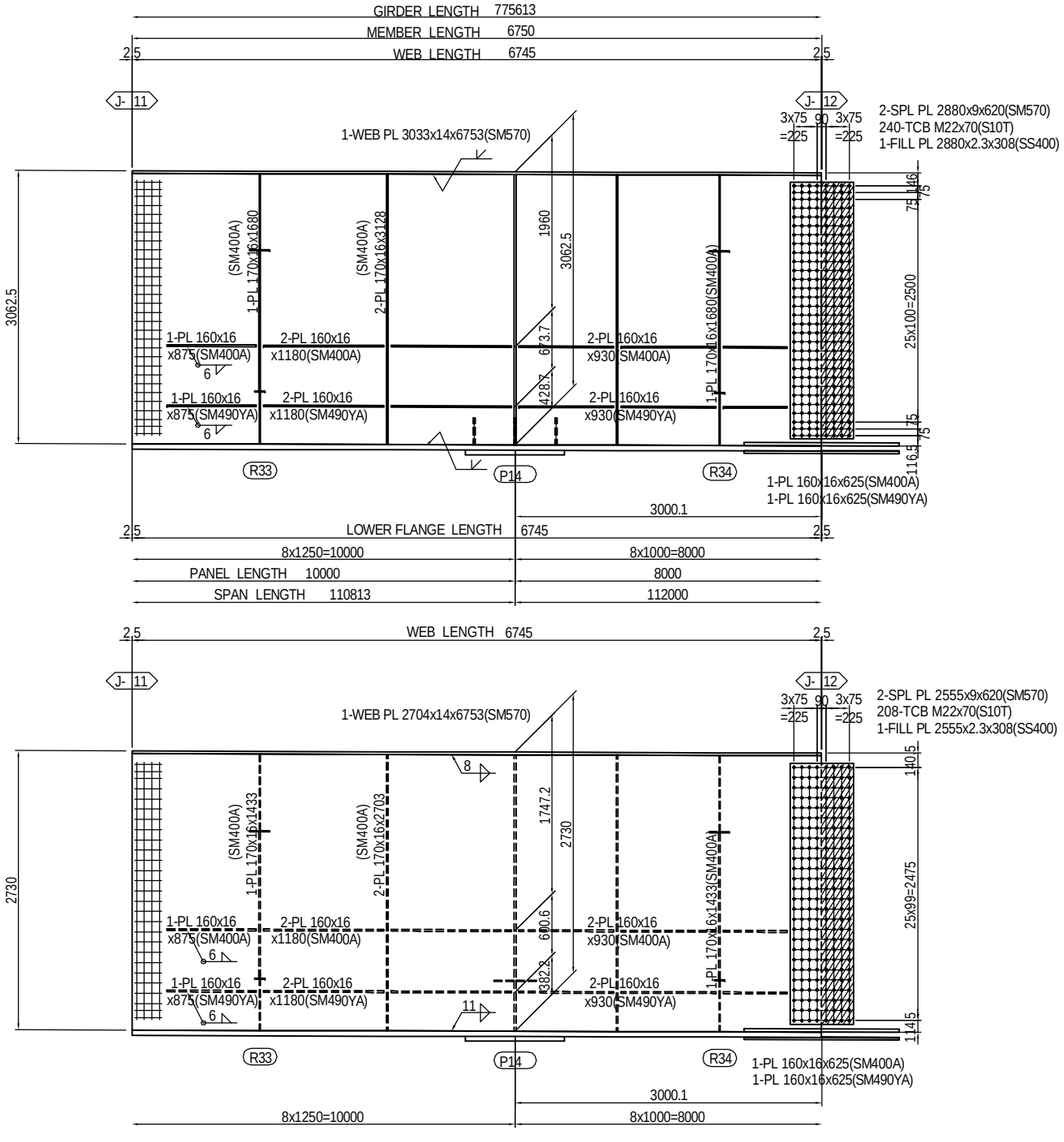


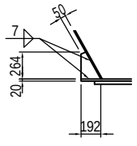
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (11)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1111

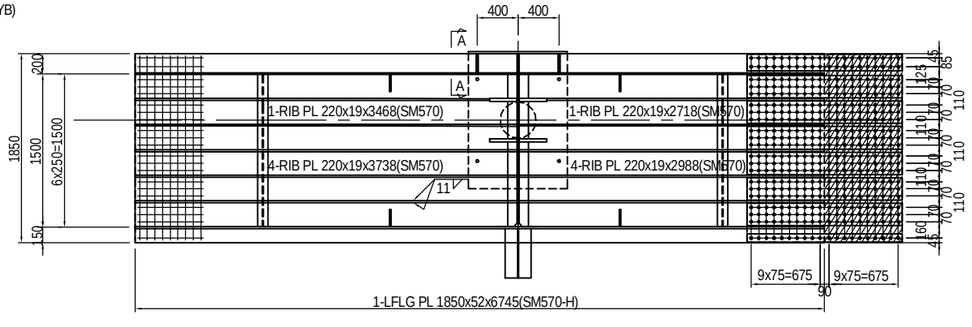
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (12) S=1:60



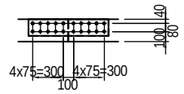
A - A



3-RIB PL 192x19x264(SM490YB)

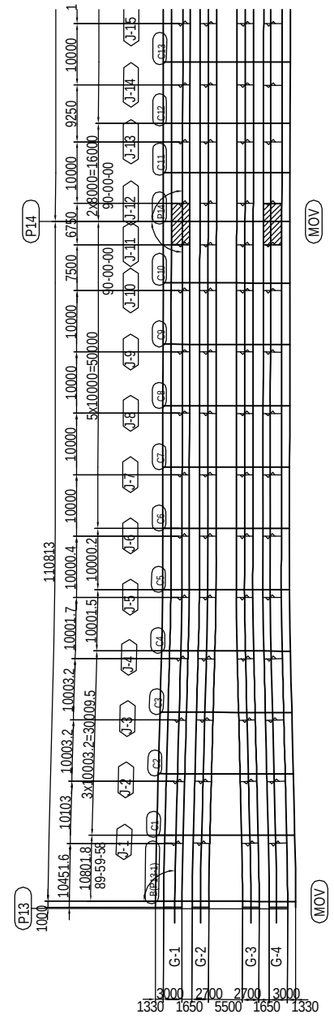


1-SPL PL 165x32x1520(SM570)
6-SPL PL 220x32x1520(SM570)
1-SPL PL 80x32x1520(SM570)
1-SPL PL 1840x23x1520(SM570)
420-TCB M22x145(S10T)
1-FILL PL 1840x4.5x758(SS400)



(RIB PLATE per set)
2-SPL PL 160x12x780(SM570)
20-TCB M22x80(S10T)

MARKING DIAGRAM

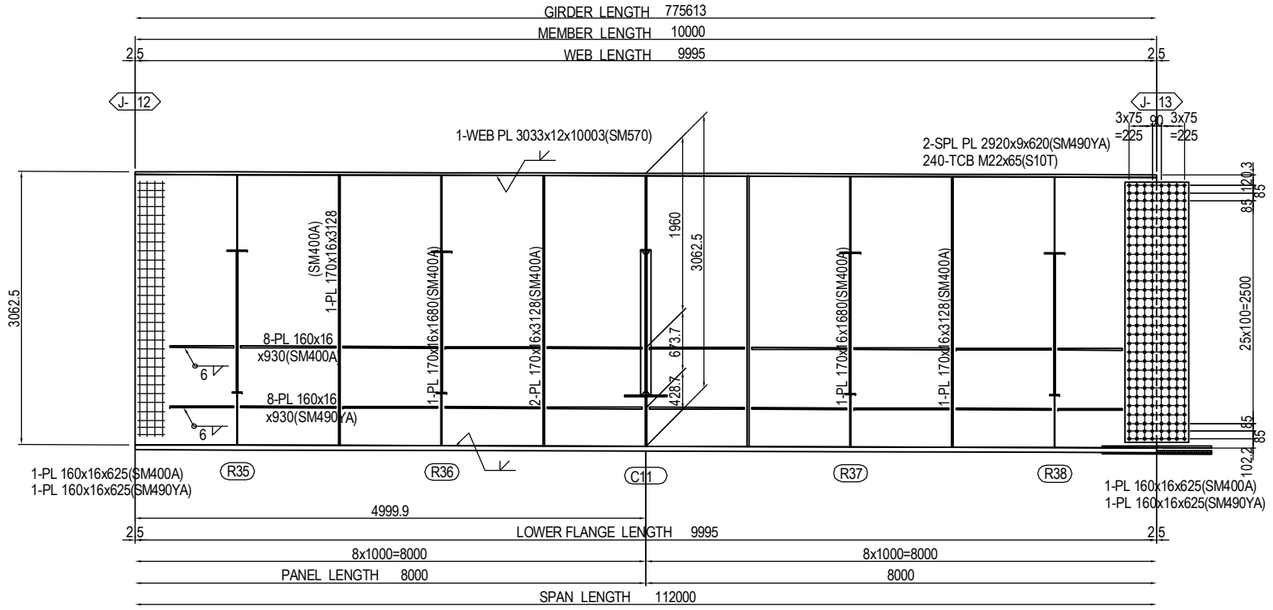


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

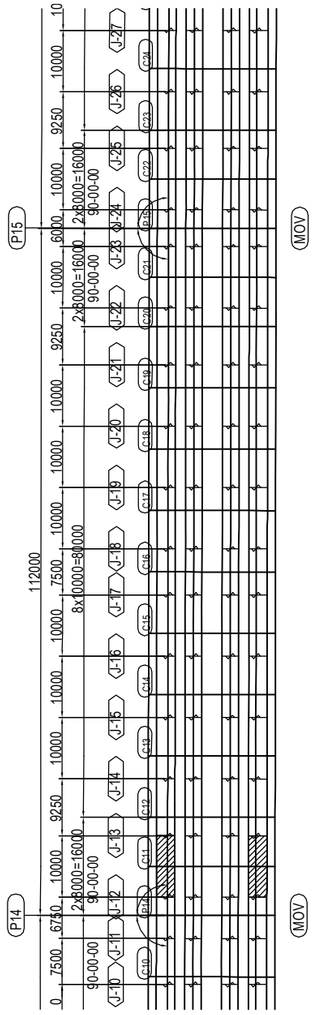
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (12)	2
	DWG No.
	P2-SB-1112

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (13) S=1:60



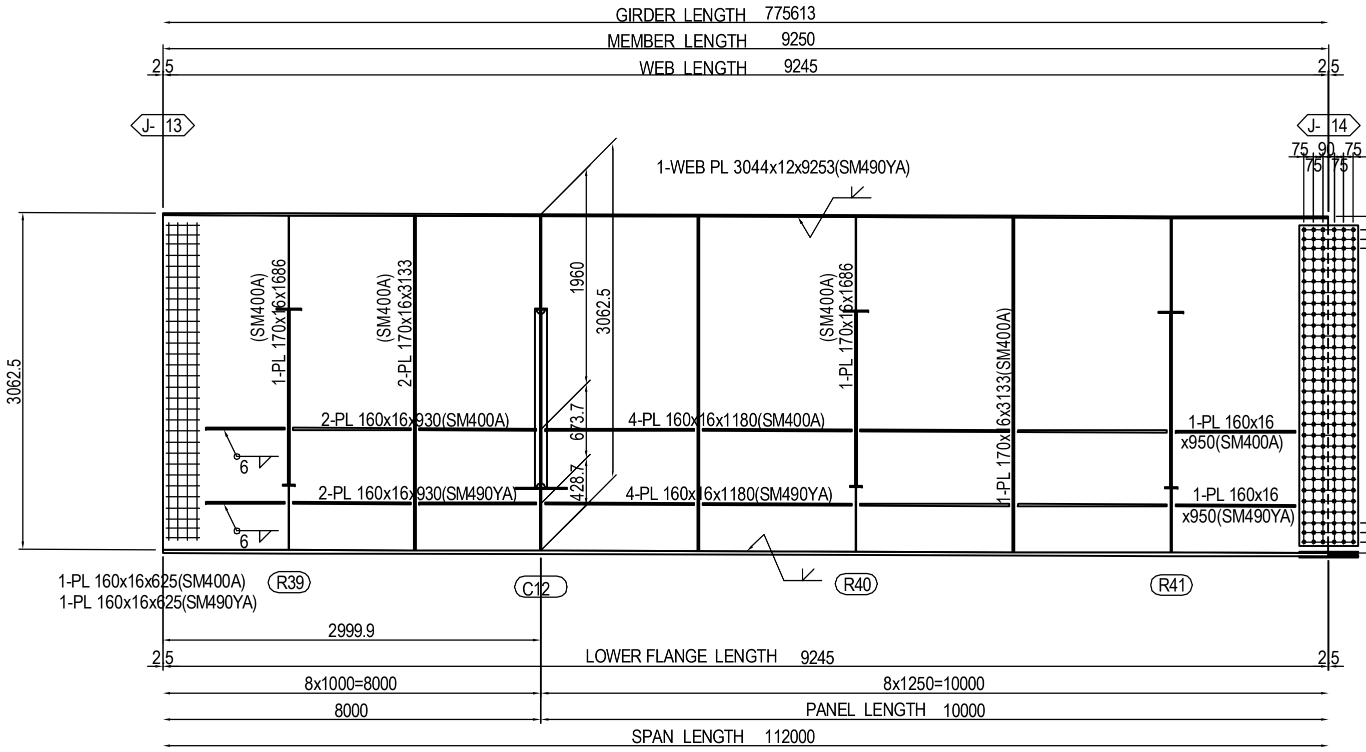
MARKING DIAGRAM



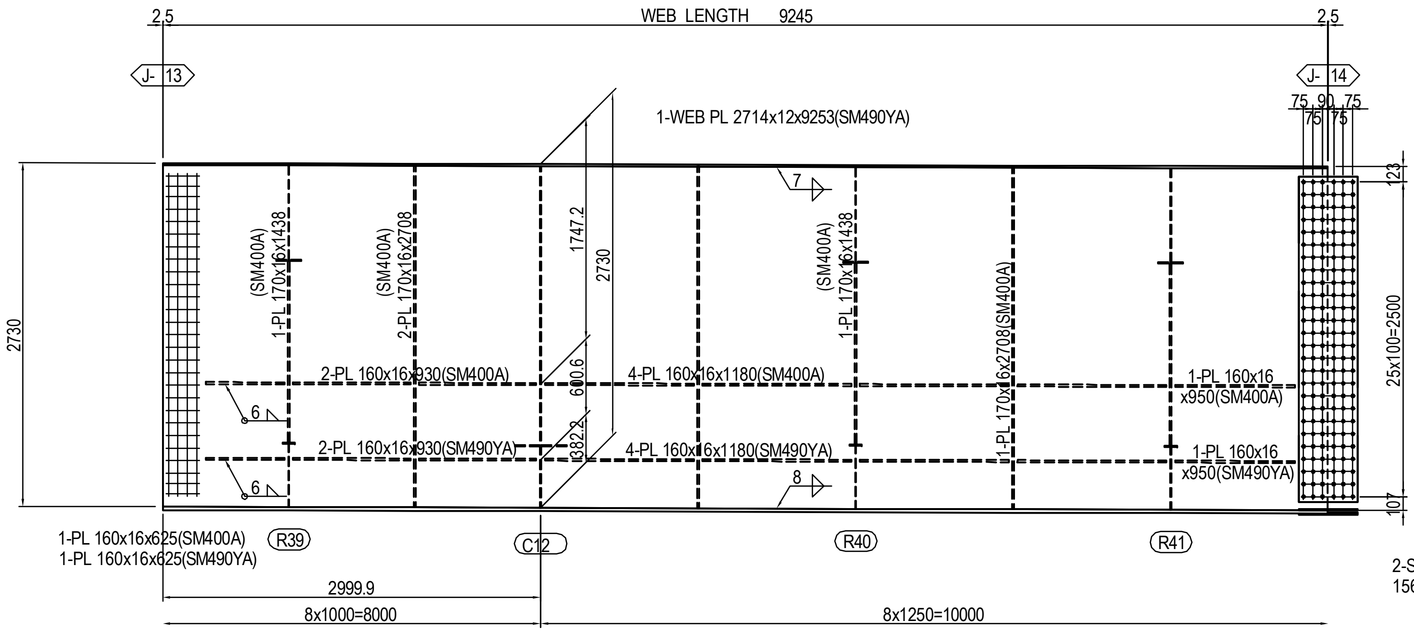
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (13)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1113

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (14) S=1:60

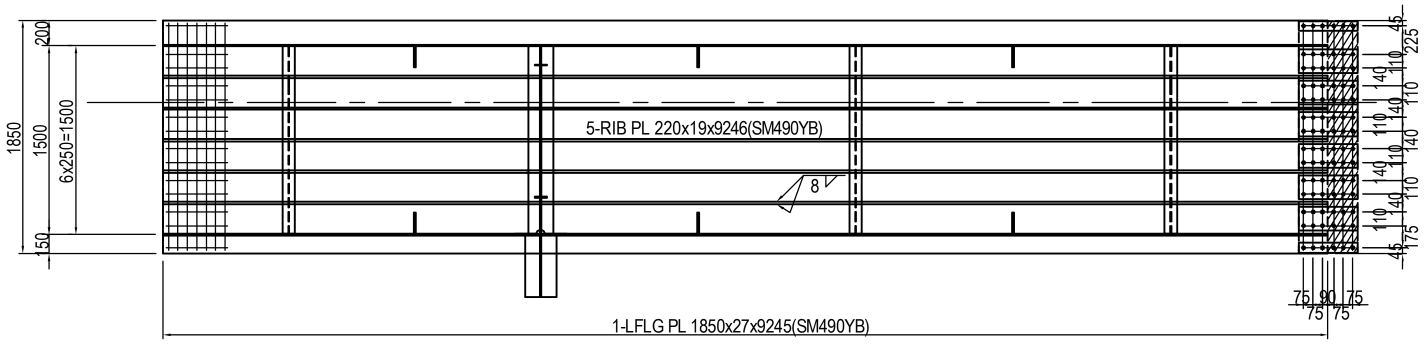


2-SPL PL 2920x9x470(SM490YA)
180-TCB M22x65(S10T)

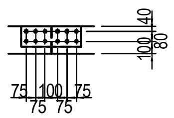


2-SPL PL 2580x9x470(SM490YA)
156-TCB M22x65(S10T)

2-SPL PL 80x9x470(SM490YA)
6-SPL PL 190x9x470(SM490YA)
1-SPL PL 1840x9x470(SM490YA)
84-TCB M22x80(S10T)
1-FILL PL 1840x11x233(SS400)

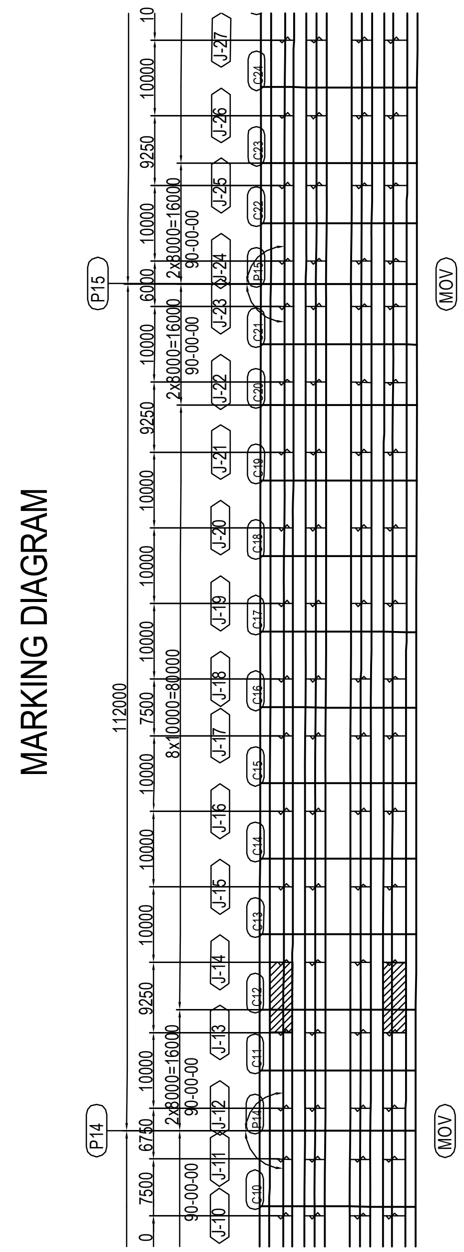


1-SOLE PL 970x40x1340(SM490YA)



(RIB PLATE per set)
2-SPL PL 160x9x480(SM490YA)
12-TCB M22x75(S10T)

MARKING DIAGRAM

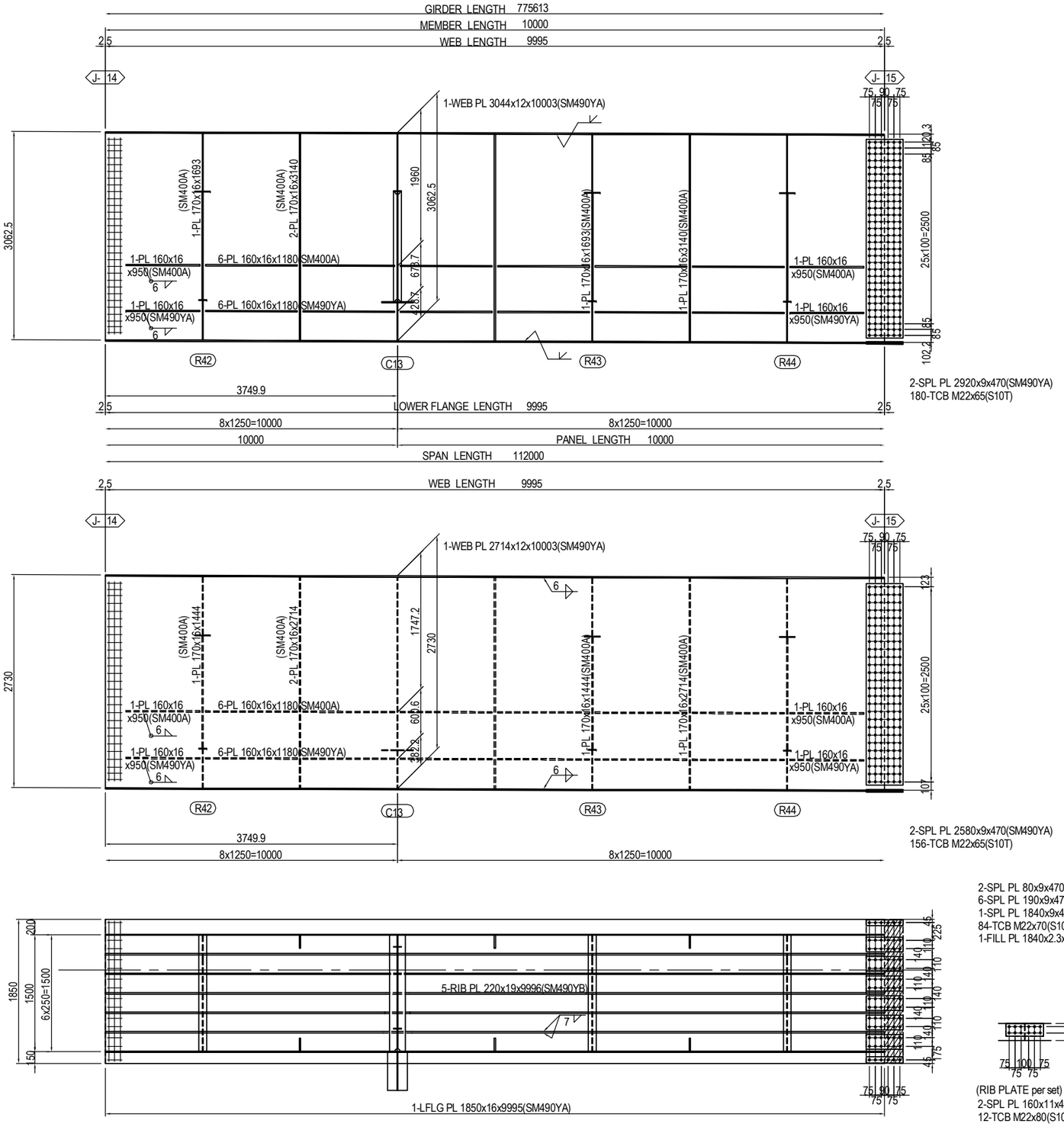


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

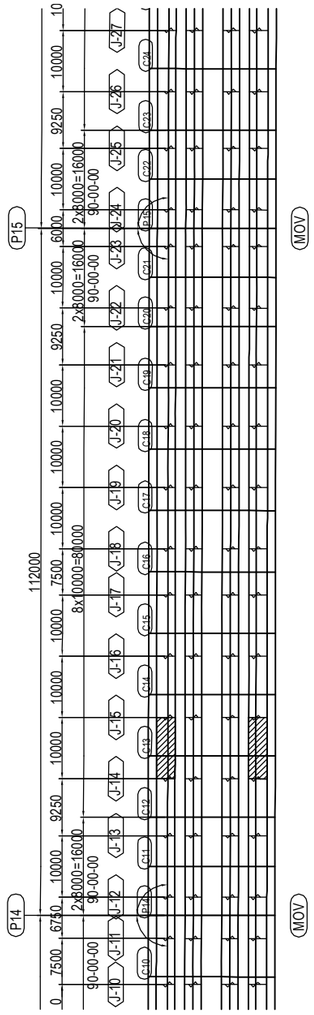
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	(signature)	15 Jun.2017
CHECKED BY	T. HAYAKAWA	(signature)	20 Jun.2017
APPROVED BY	Y. SANO	(signature)	21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (14)	2
	DWG No.
	P2-SB-1114

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (15) S=1:60

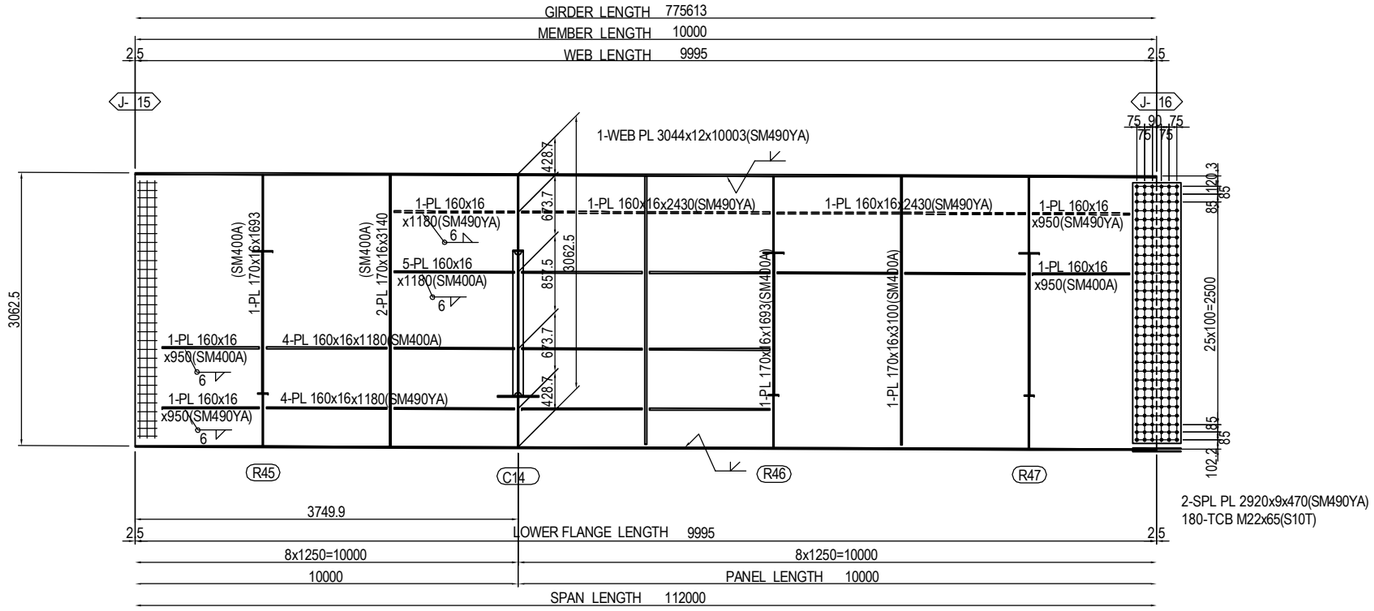


MARKING DIAGRAM



PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (15)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1115

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (16) S=1:60



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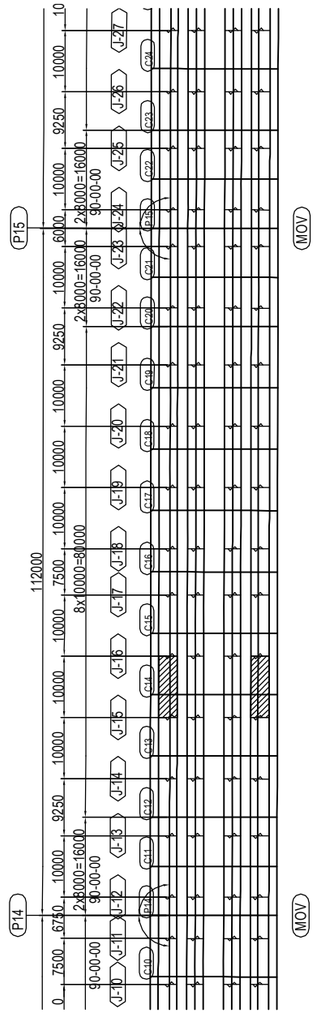
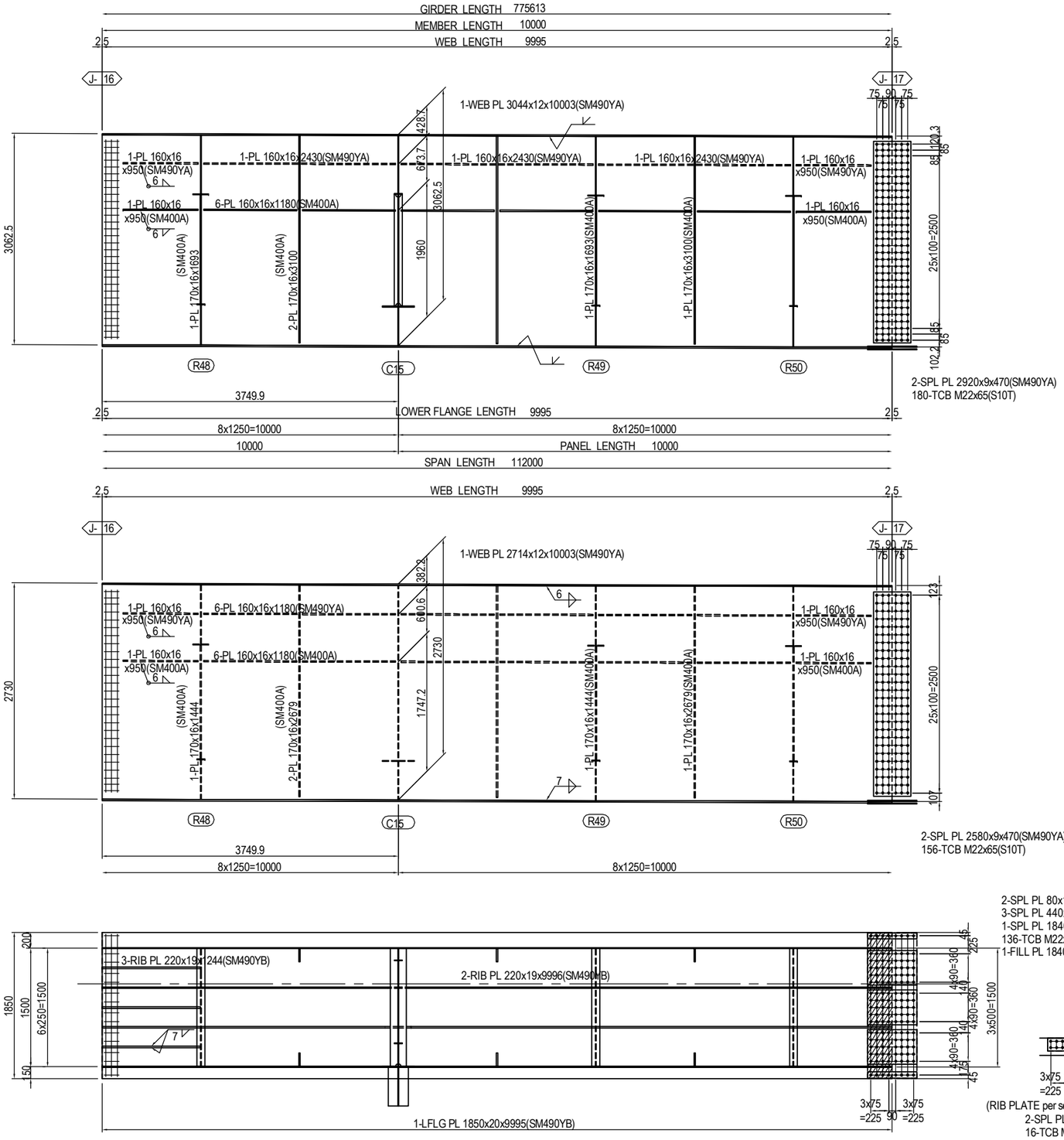


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (16)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1116

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (17) S=1:60



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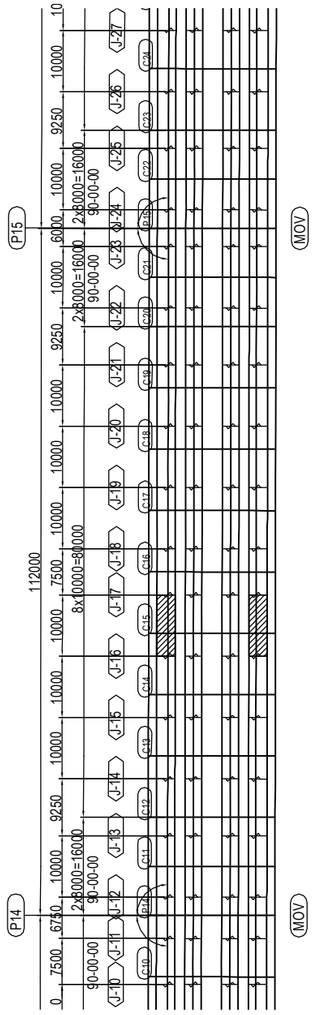
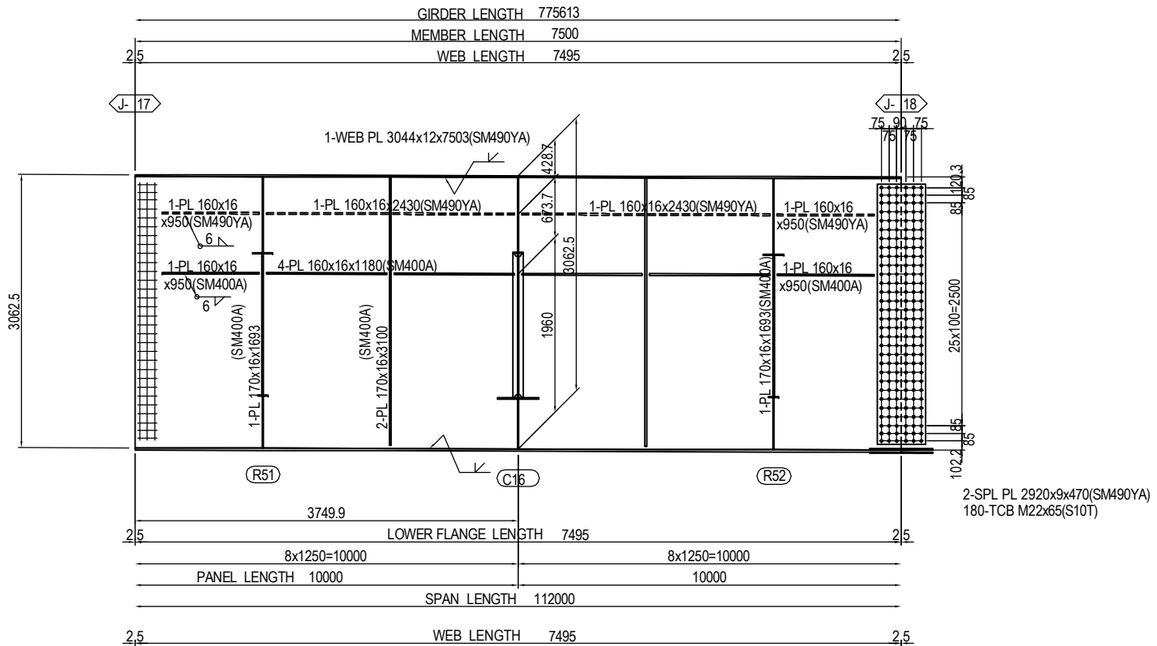


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
				NAME	SIGNATURE / DATE
				PREPARED BY	S. IMADA — 15 Jun.2017
				CHECKED BY	T. HAYAKAWA — 20 Jun.2017
				APPROVED BY	Y. SANO — 21 Jun.2017
				DRAWING TITLE	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (17)
				PACKAGE	2
				DWG No.	P2-SB-1117

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (18) S=1:60



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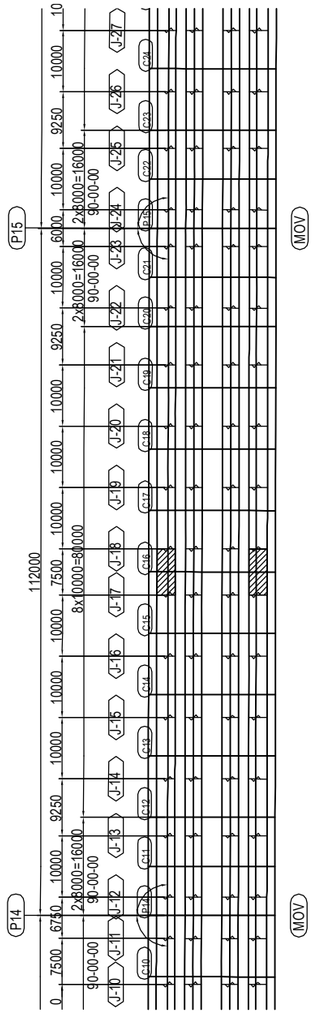
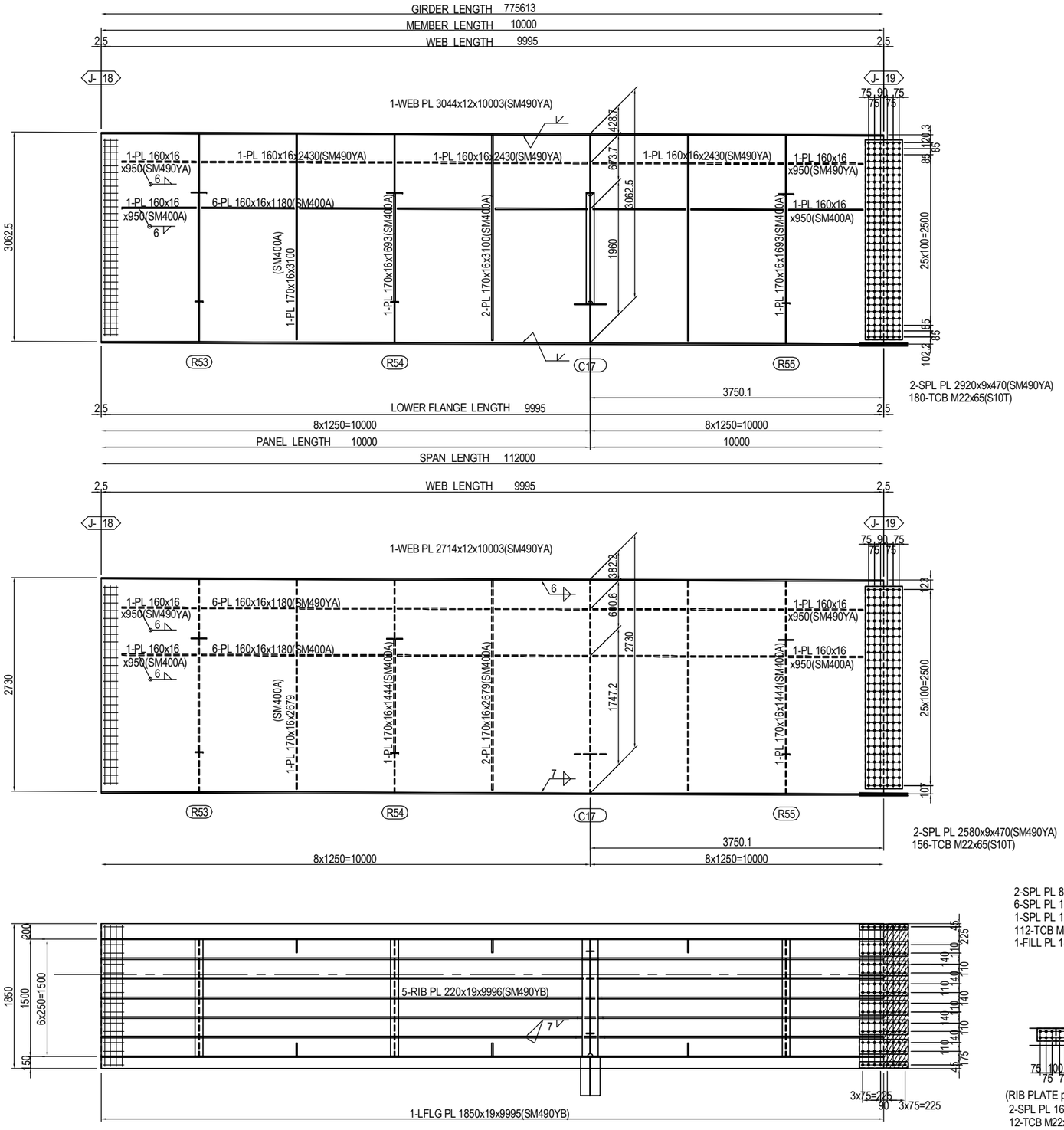
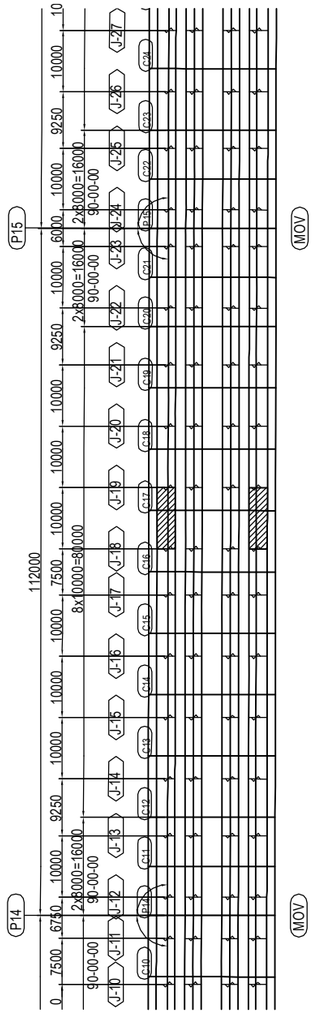


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (18)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1118

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (19) S=1:60

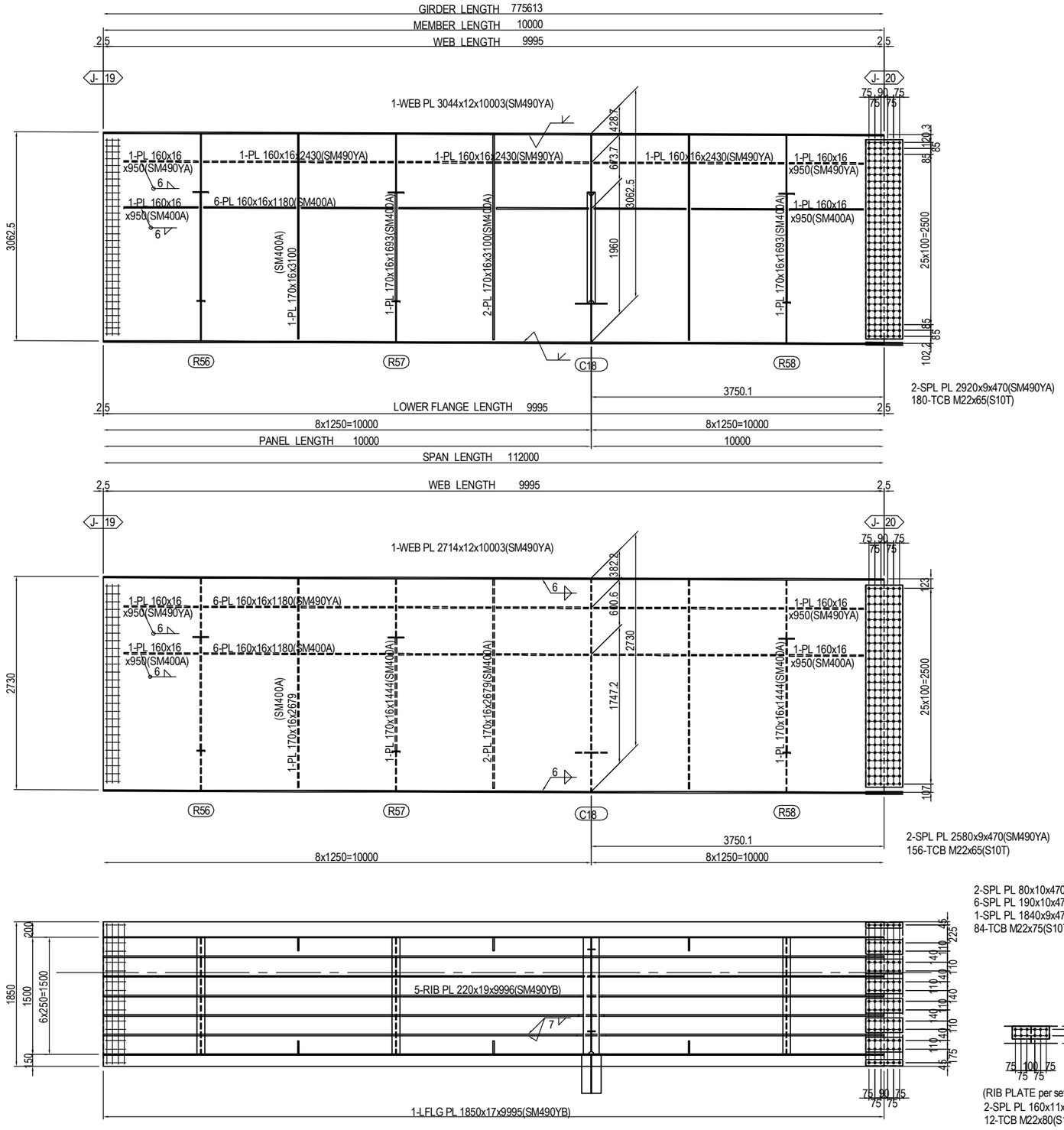


MARKING DIAGRAM



PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (19)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1119

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (20) S=1:60



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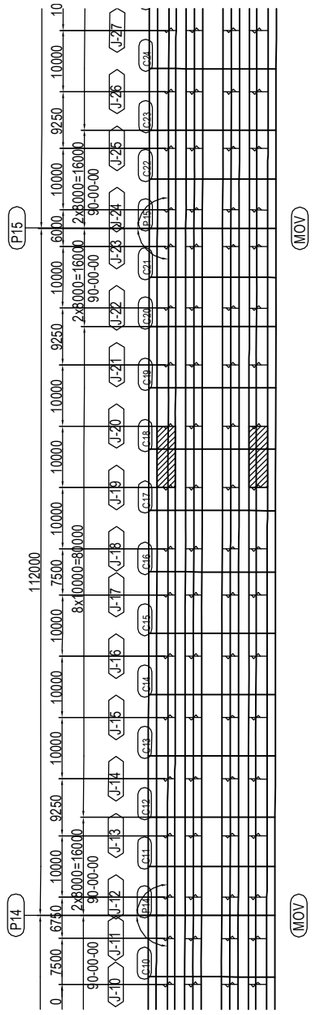
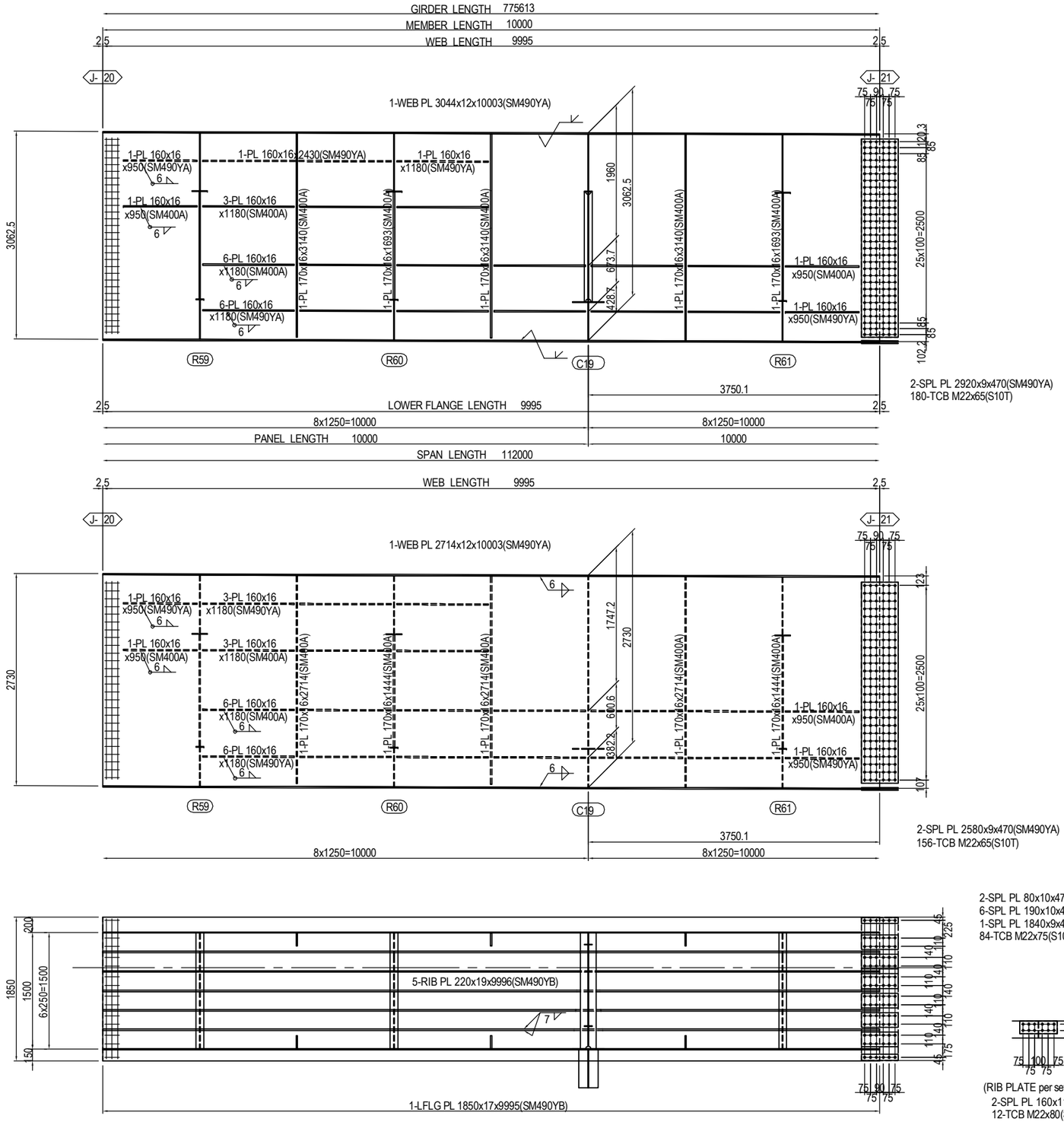


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (20)	2
	DWG No.
	P2-SB-1120

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (21) S=1:60



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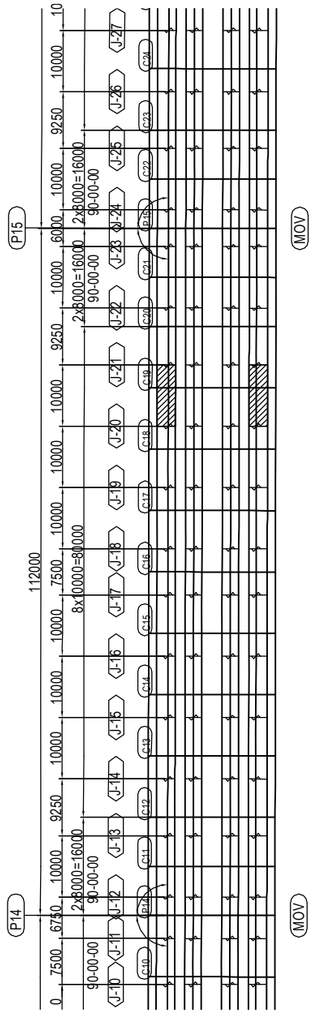
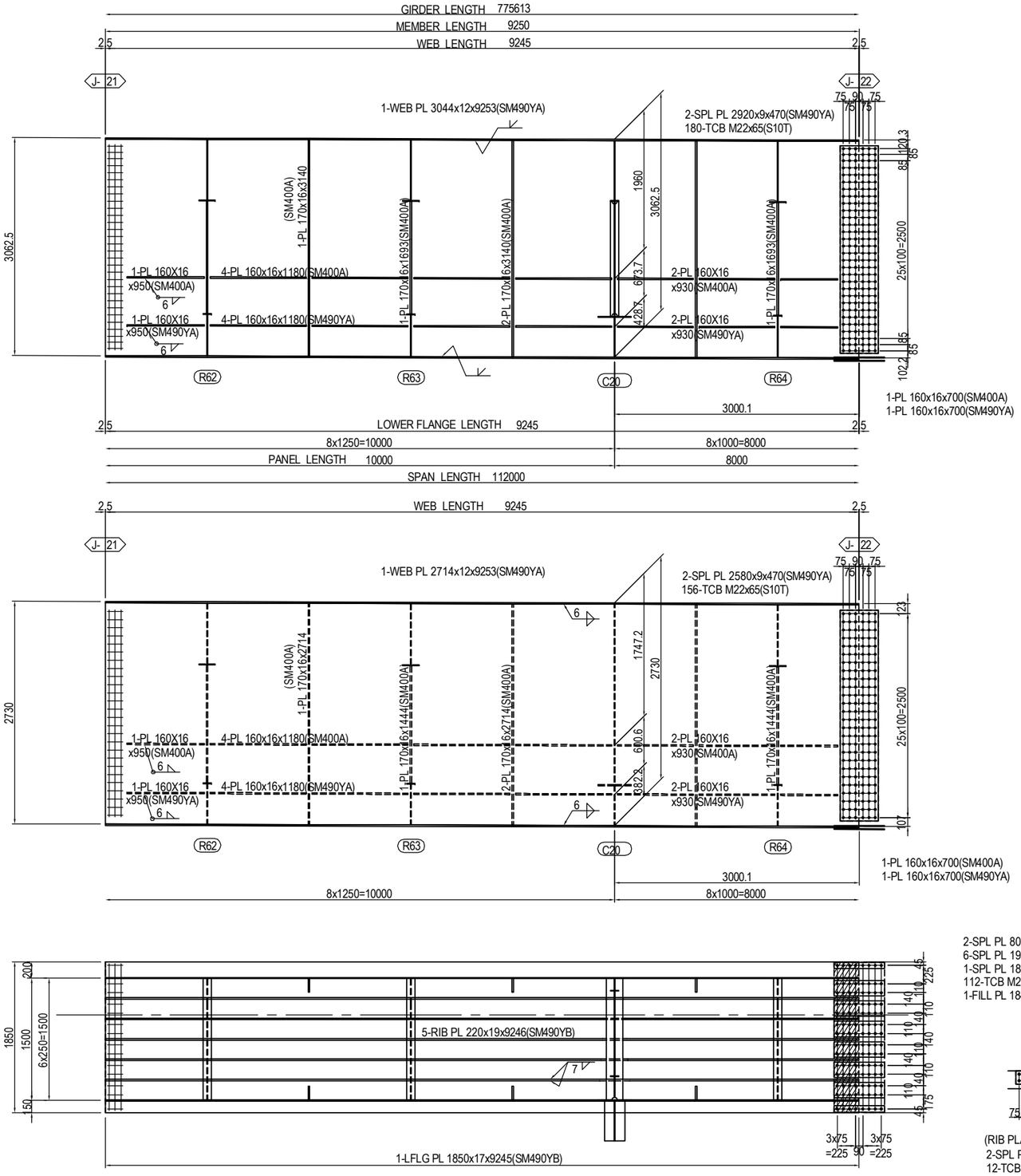


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (21)	2
	DWG No.
	P2-SB-1121

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (22) S=1:60



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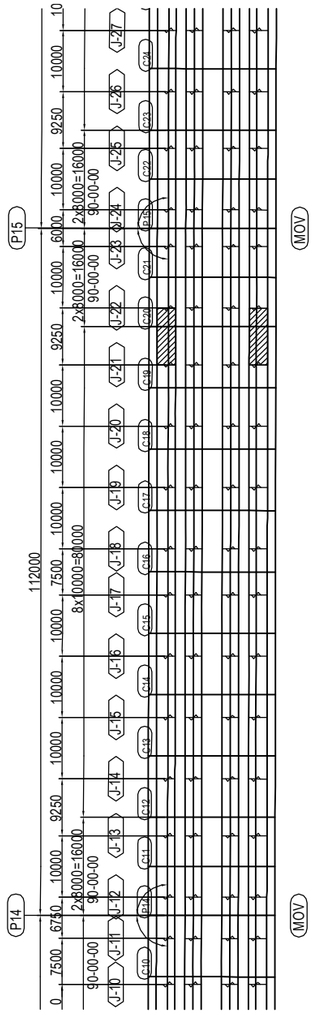
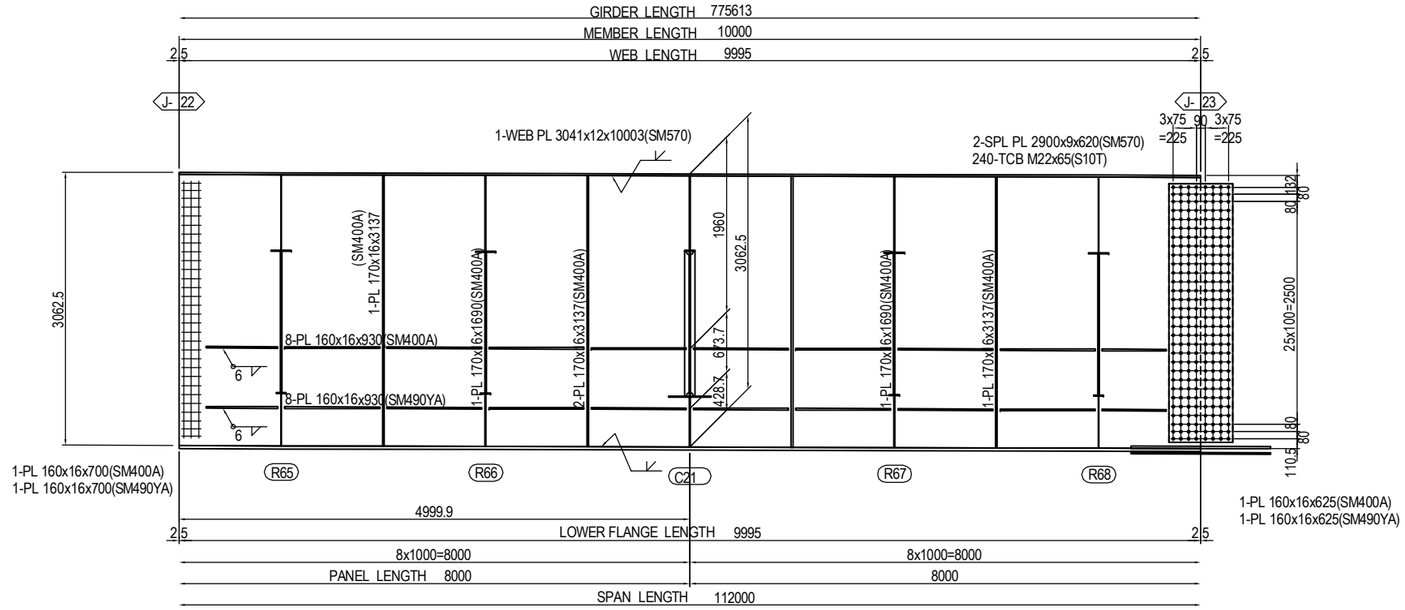
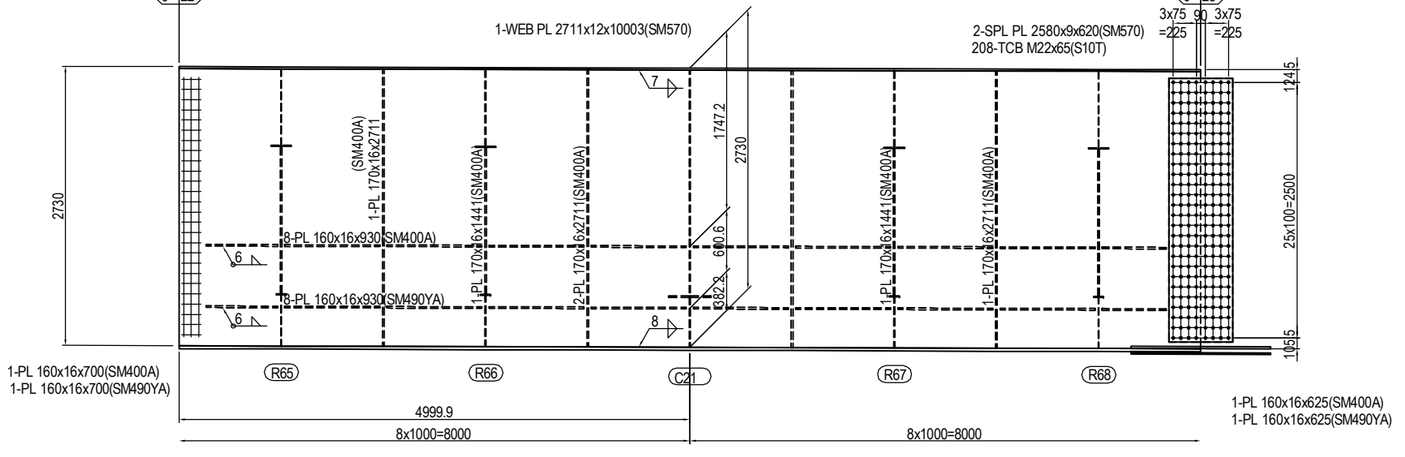


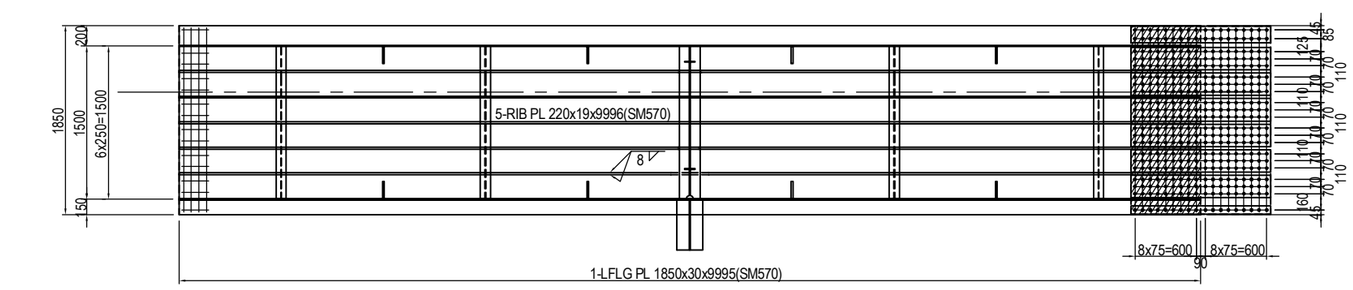
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (22)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1122

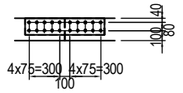
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (23) S=1:60





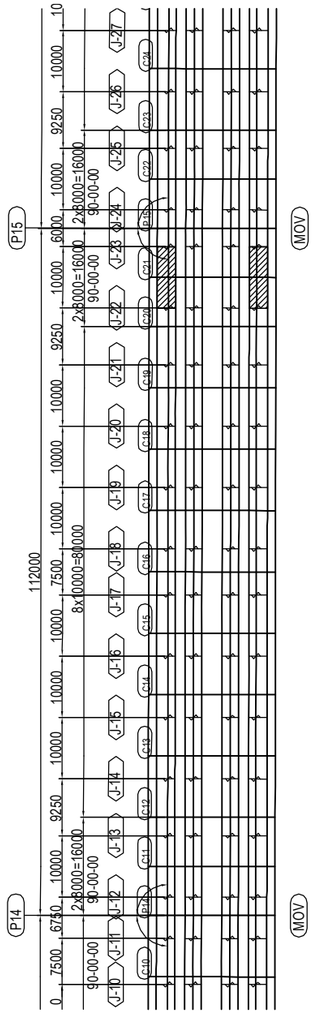


1-SPL PL 165x21x1370(SM570)
6-SPL PL 220x21x1370(SM570)
1-SPL PL 80x21x1370(SM570)
1-SPL PL 1840x15x1370(SM570)
378-TCB M22x110(S10T)
1-FILL PL 1840x8x683(SS400)



(RIB PLATE per set)
2-SPL PL 160x12x780(SM570)
20-TCB M22x80(S10T)

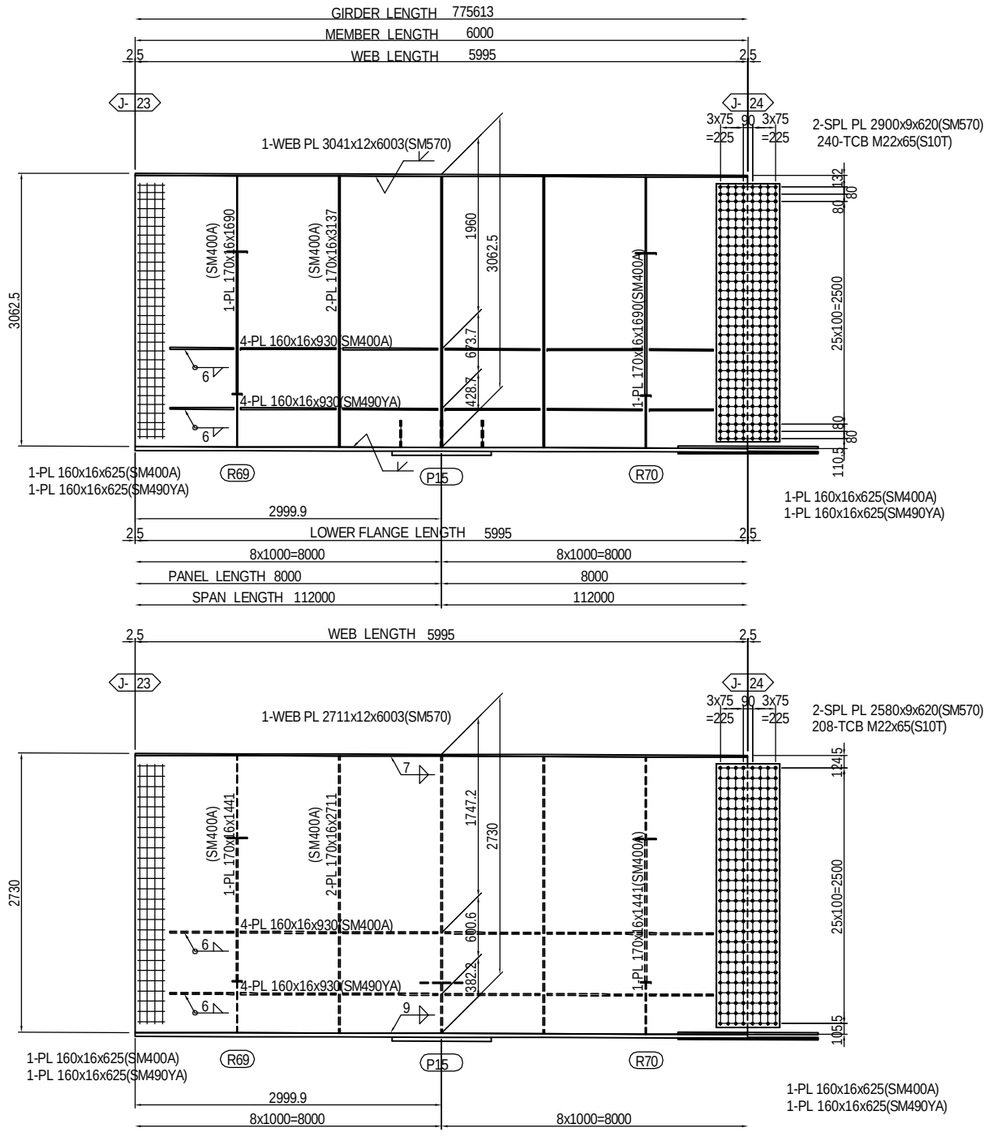
MARKING DIAGRAM



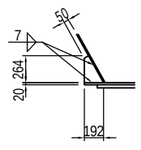
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (23)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1123

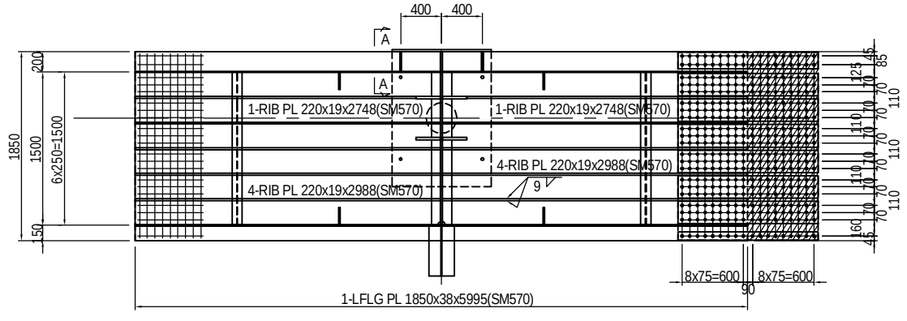
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (24) S=1:60



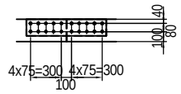
A - A



3-RIB PL 192x19x264(SM490YB)

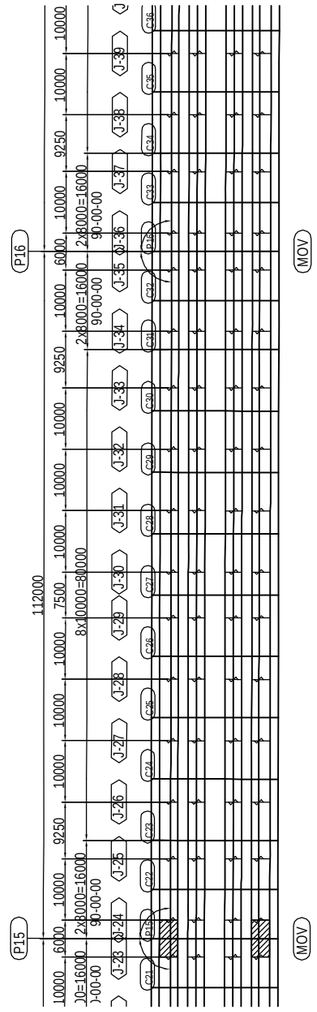


1-SPL PL 165x20x1370(SM570)
6-SPL PL 220x20x1370(SM570)
1-SPL PL 80x20x1370(SM570)
1-SPL PL 1840x15x1370(SM570)
378-TCB M22x110(S10T)
1-FILL PL 1840x8x683(SS400)



(RIB PLATE per set)
2-SPL PL 160x12x780(SM570)
20-TCB M22x80(S10T)

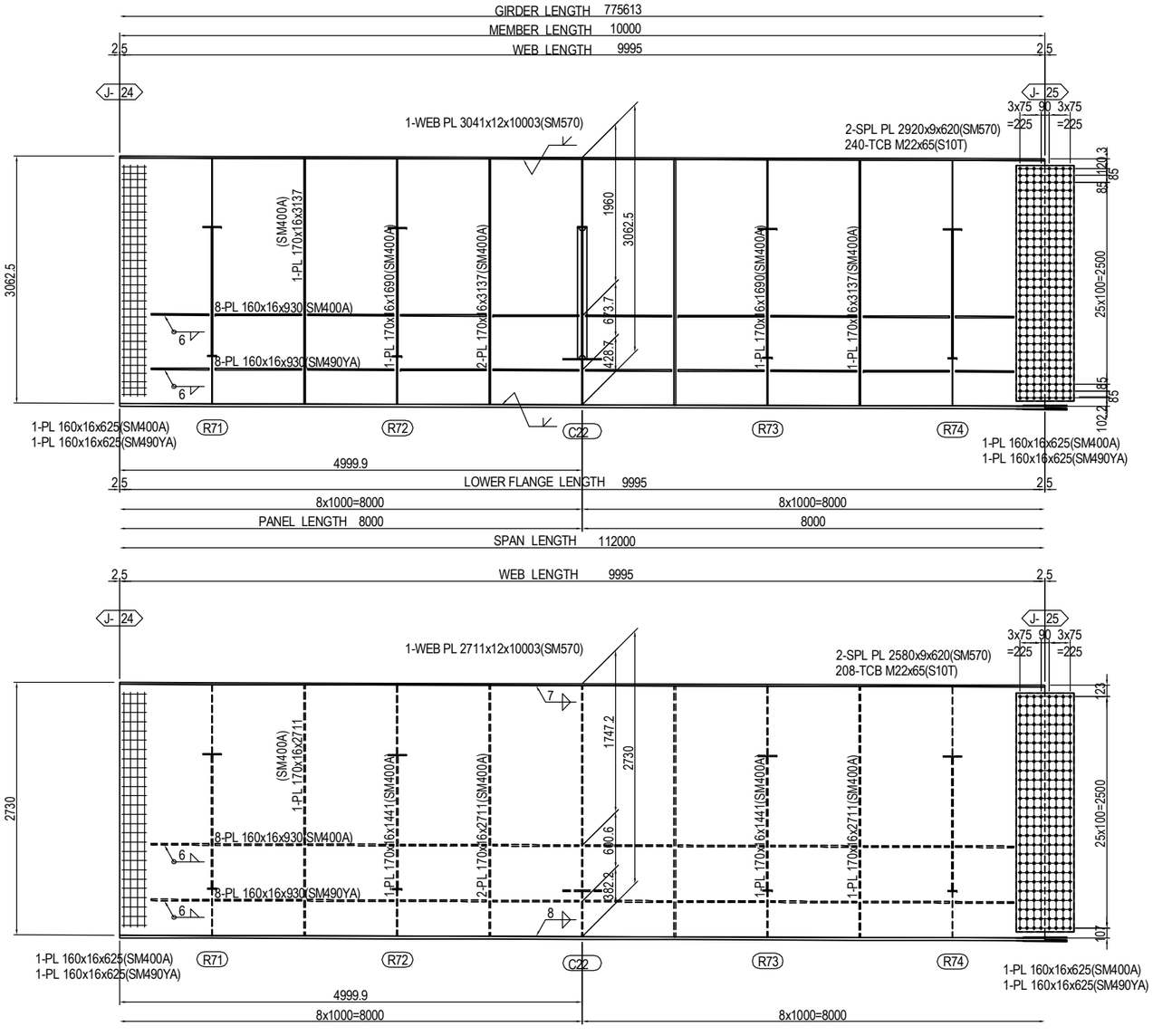
MARKING DIAGRAM



PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (24)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1124

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (25) S=1:60



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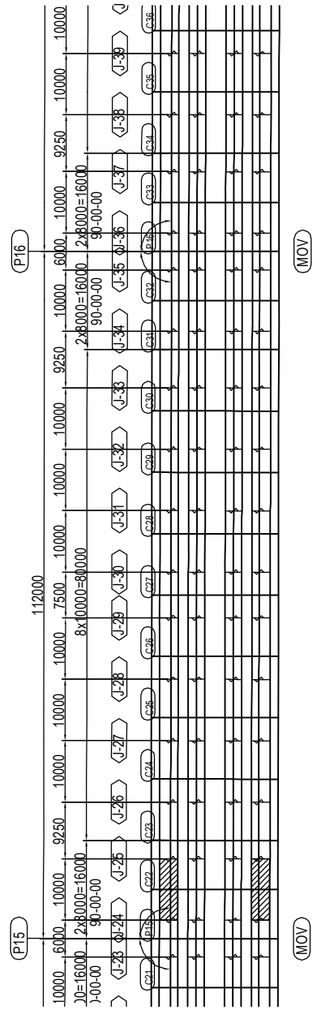
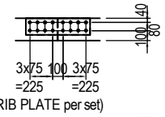


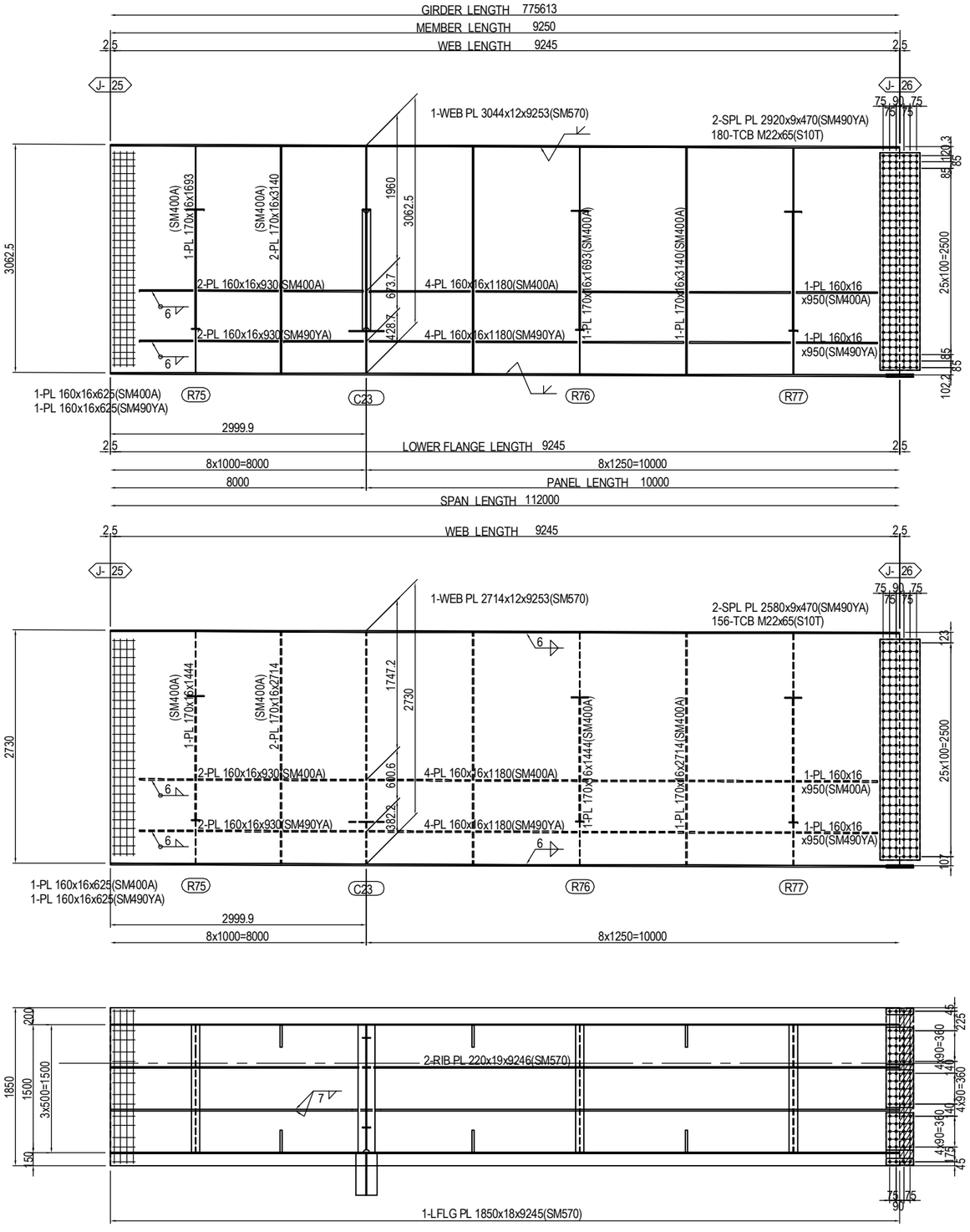
2-SPL PL 80x9x470(SM570)
3-SPL PL 440x9x470(SM570)
1-SPL PL 1840x9x470(SM570)
102-TCB M22x85(S10T)
1-FILL PL 1840x12x233(SS400)



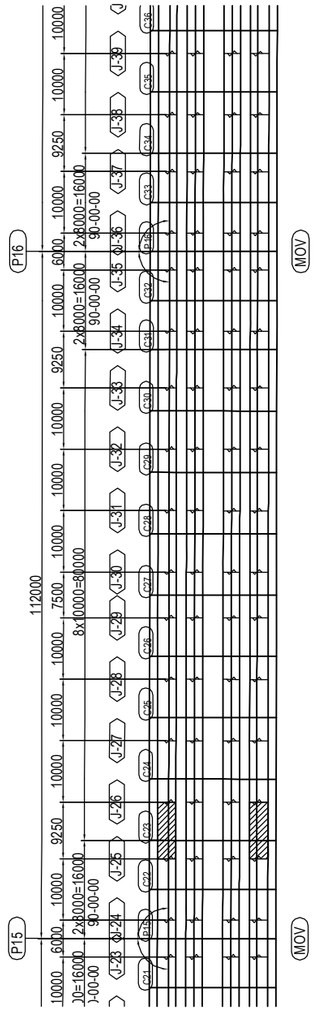
(RIB PLATE per set)
2-SPL PL 160x9x630(SM570)
16-TCB M22x75(S10T)

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME / SIGNATURE / DATE	DRAWING TITLE / PACKAGE
				PREPARED BY: S. IMADA — 15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (25)
				CHECKED BY: T. HAYAKAWA — 20 Jun.2017	PACKAGE: 2
				APPROVED BY: Y. SANO — 21 Jun.2017	DWG No.: P2-SB-1125

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (26) S=1:60



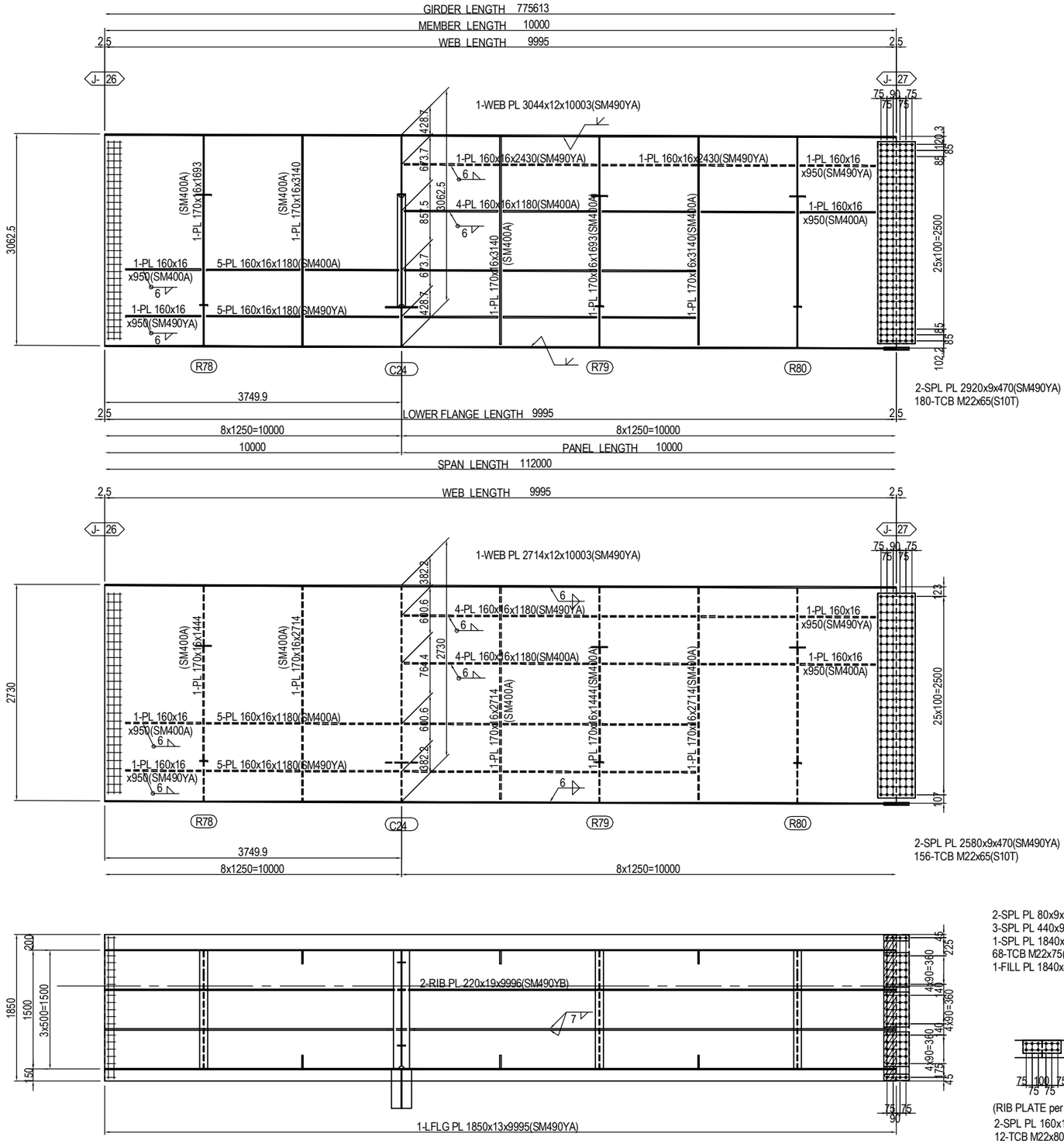
MARKING DIAGRAM



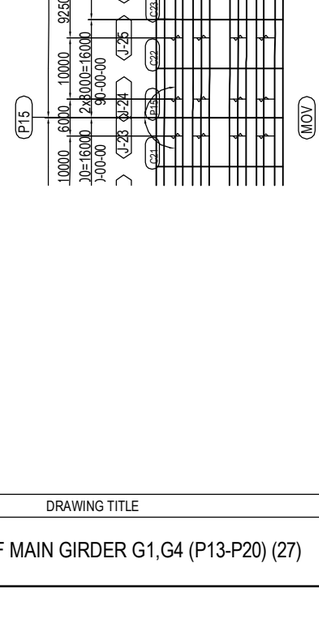
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (26)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1126

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (27) S=1:60



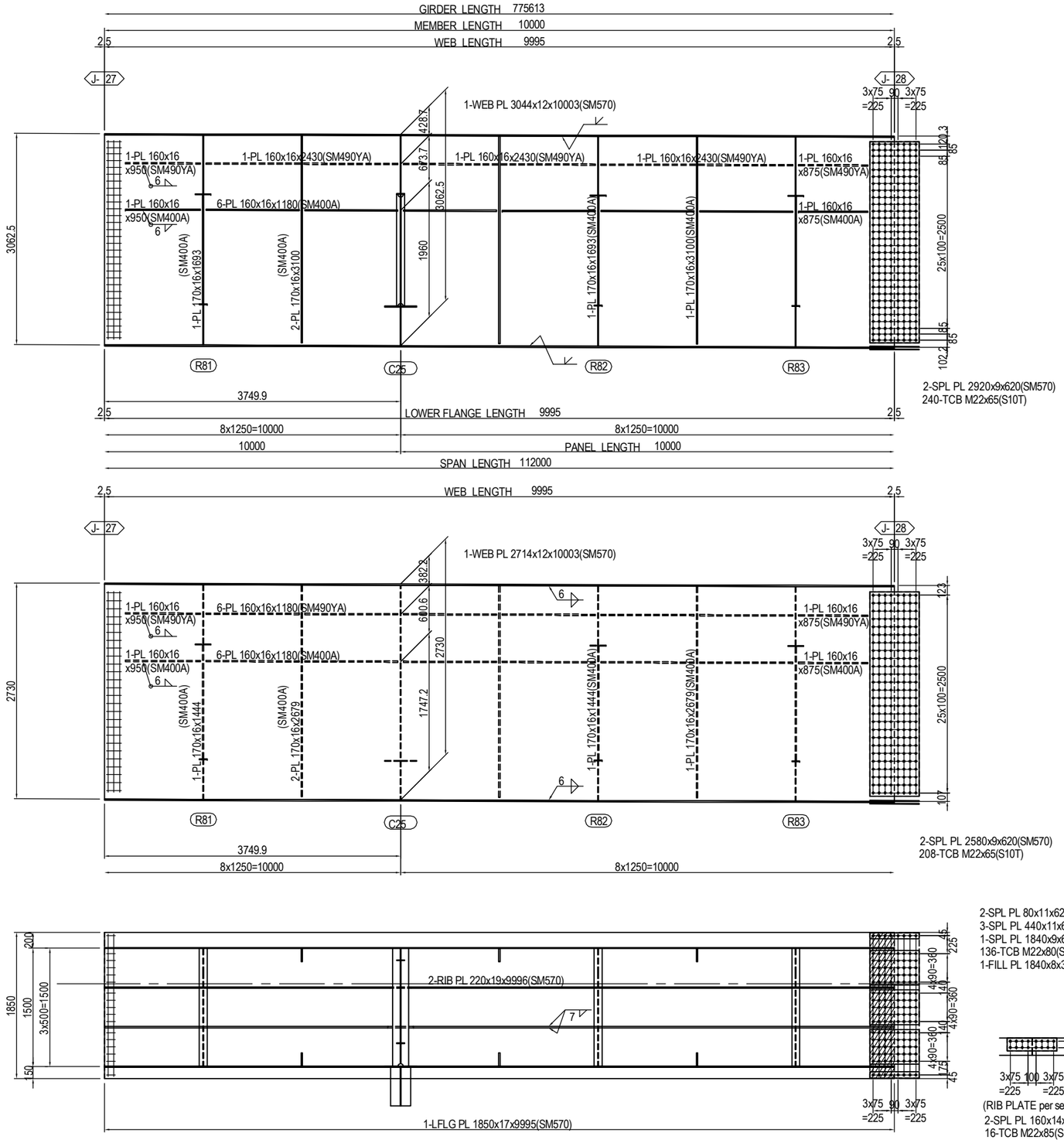
MARKING DIAGRAM



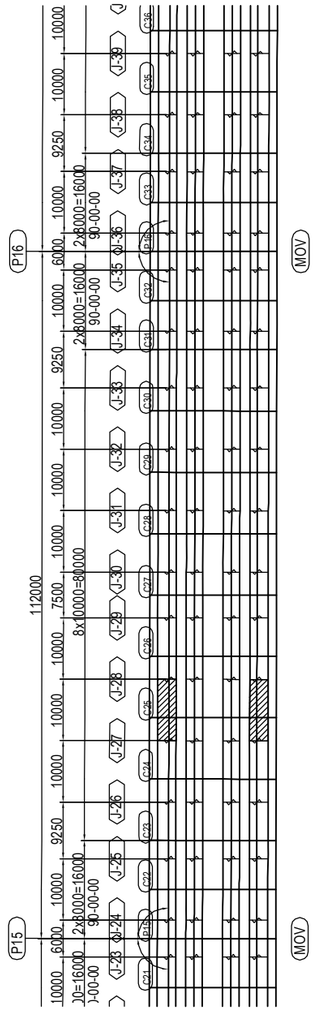
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (27)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1127

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (28) S=1:60

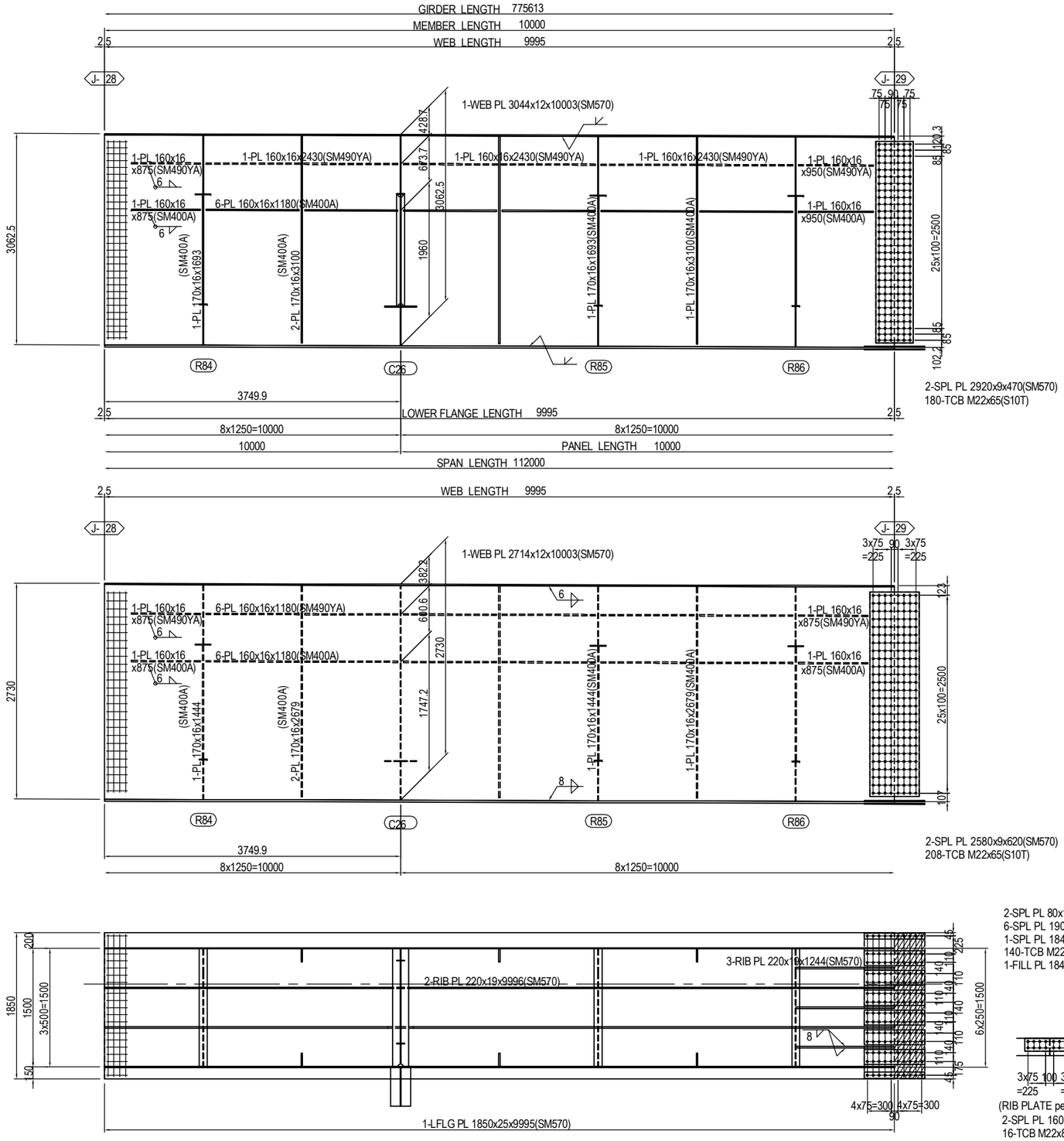


MARKING DIAGRAM

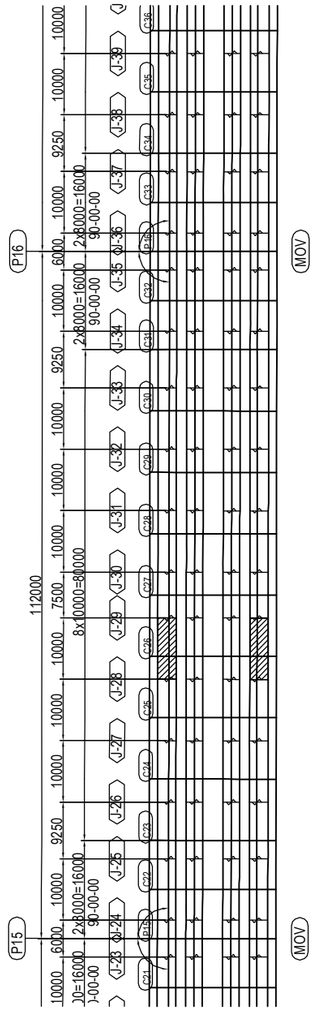


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (28)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1128

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (29) S=1:60

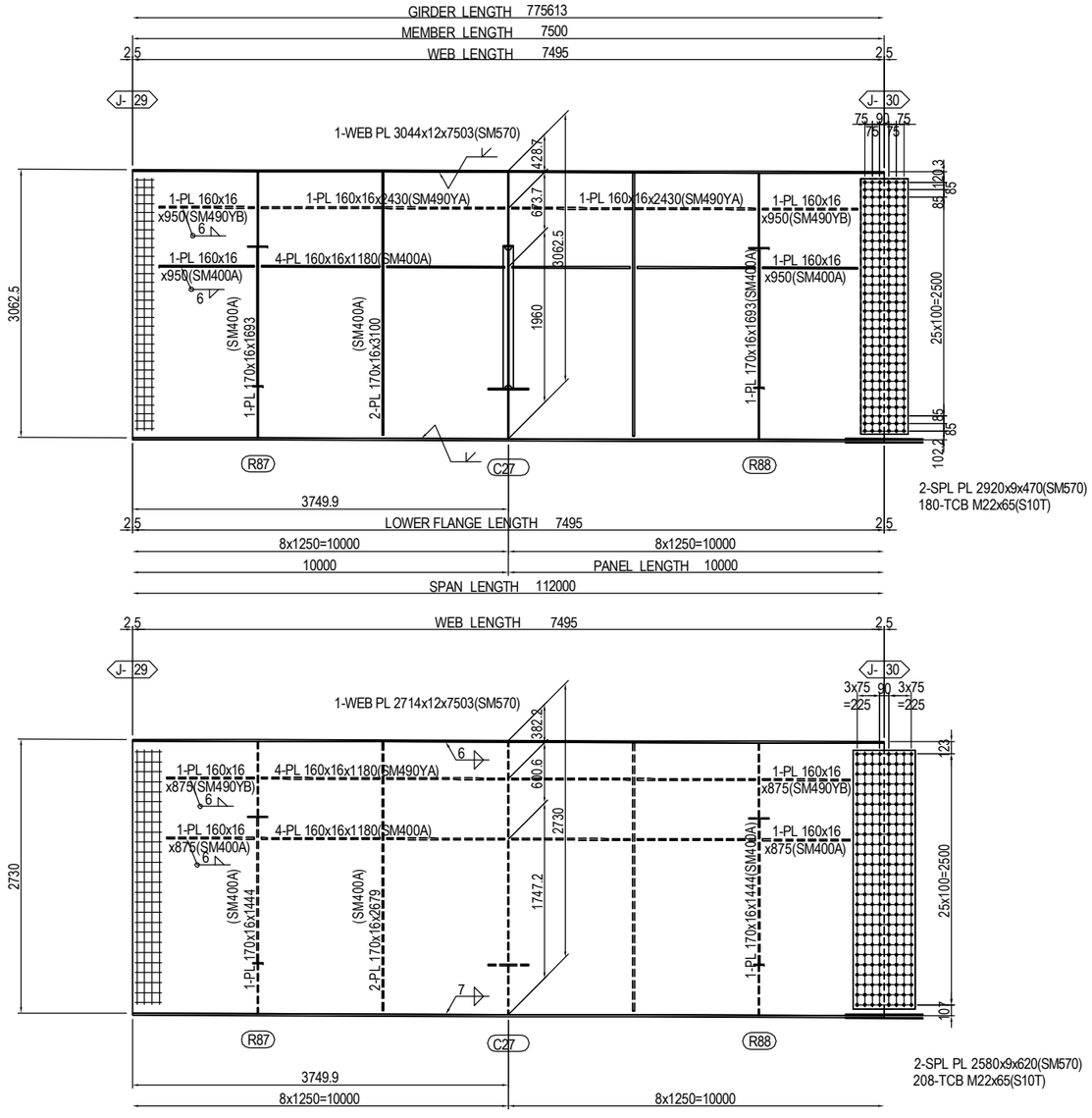


MARKING DIAGRAM

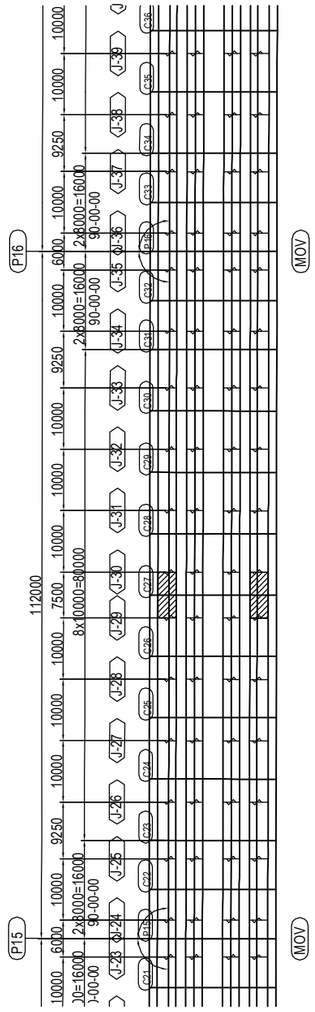


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME / SIGNATURE / DATE	DRAWING TITLE / PACKAGE
				PREPARED BY: S. IMADA — 15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (29) — 2
				CHECKED BY: T. HAYAKAWA — 20 Jun.2017	DWG No.
				APPROVED BY: Y. SANO — 21 Jun.2017	P2-SB-1129

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (30) S=1:60



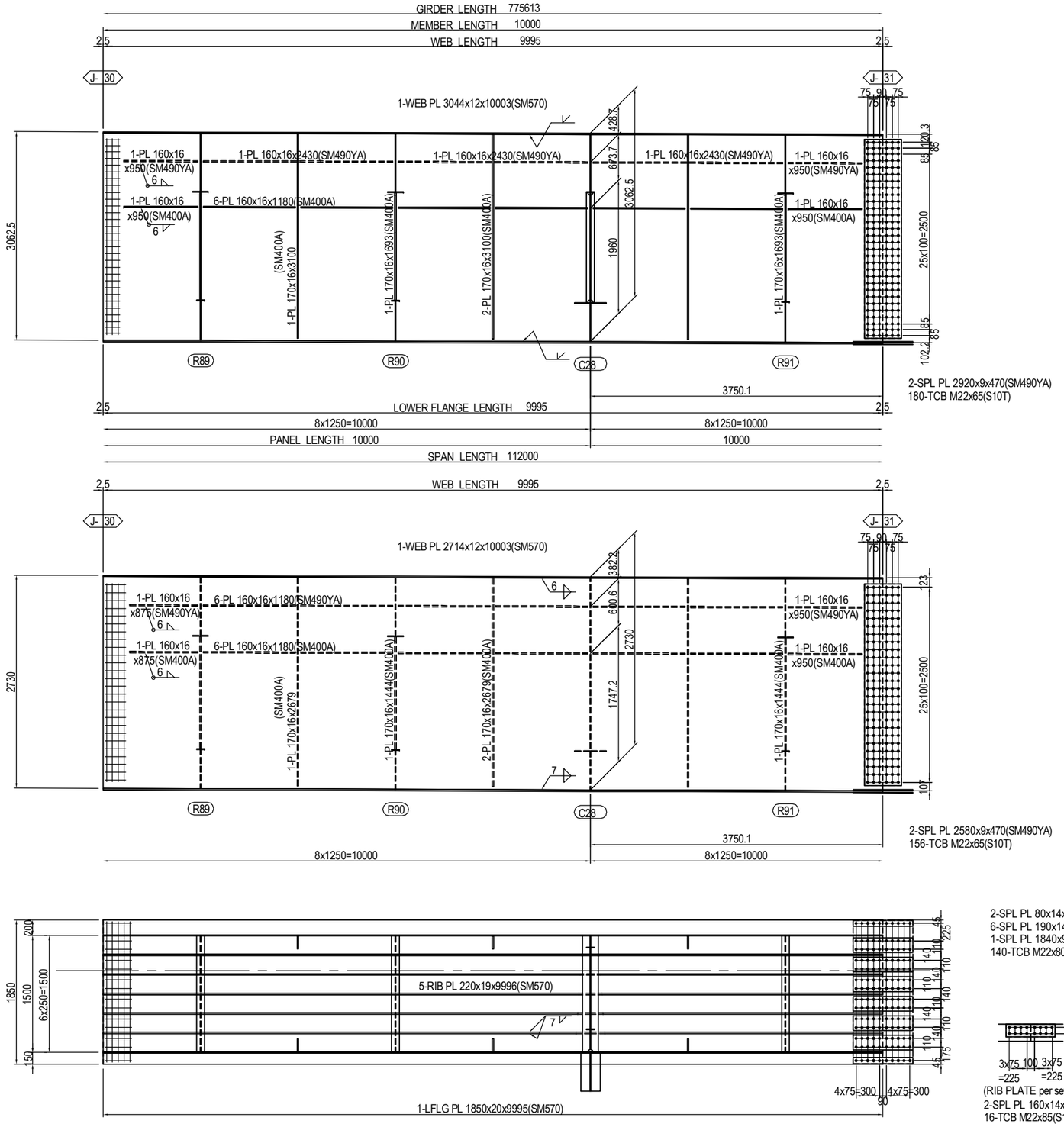
MARKING DIAGRAM



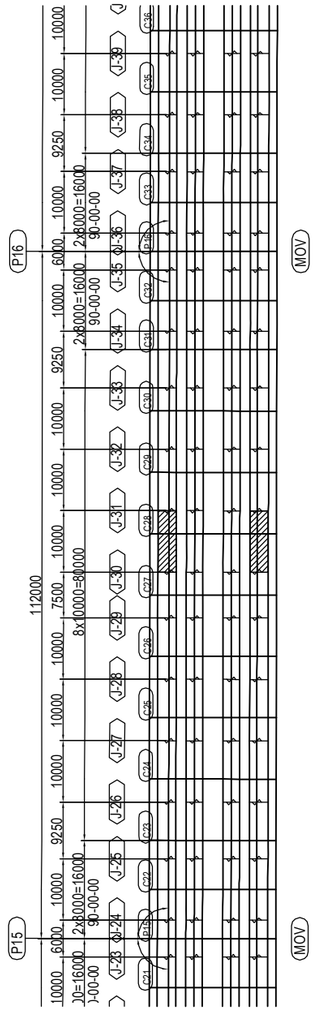
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (30)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1130

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (31) S=1:60



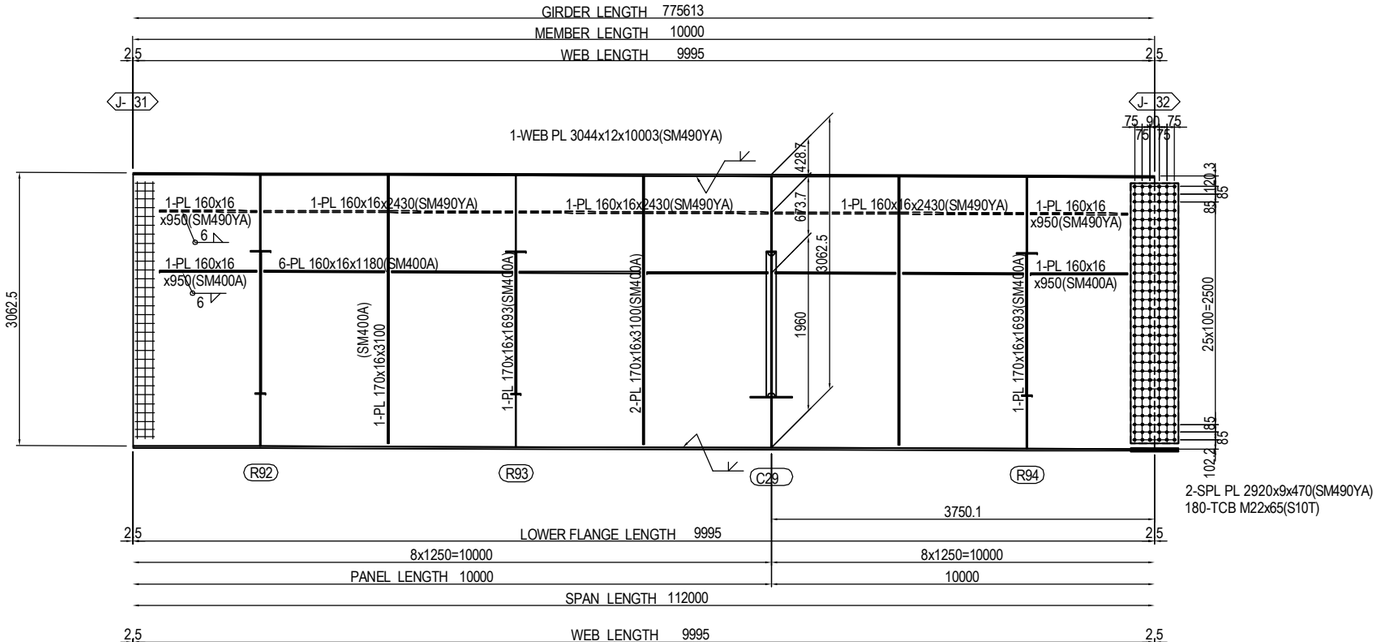
MARKING DIAGRAM



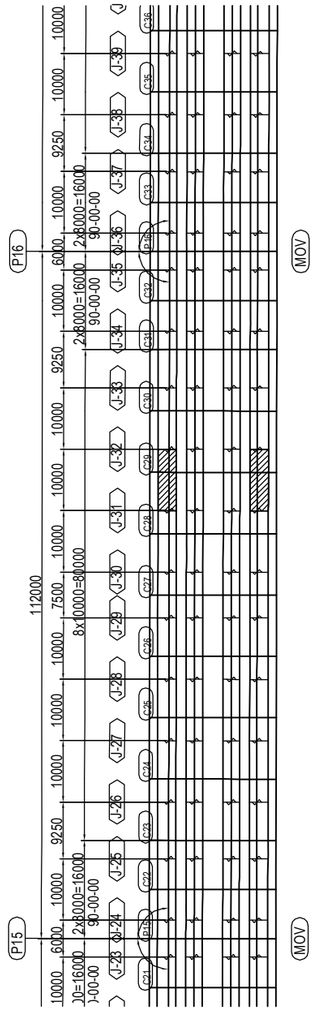
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (31)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1131

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (32) S=1:60

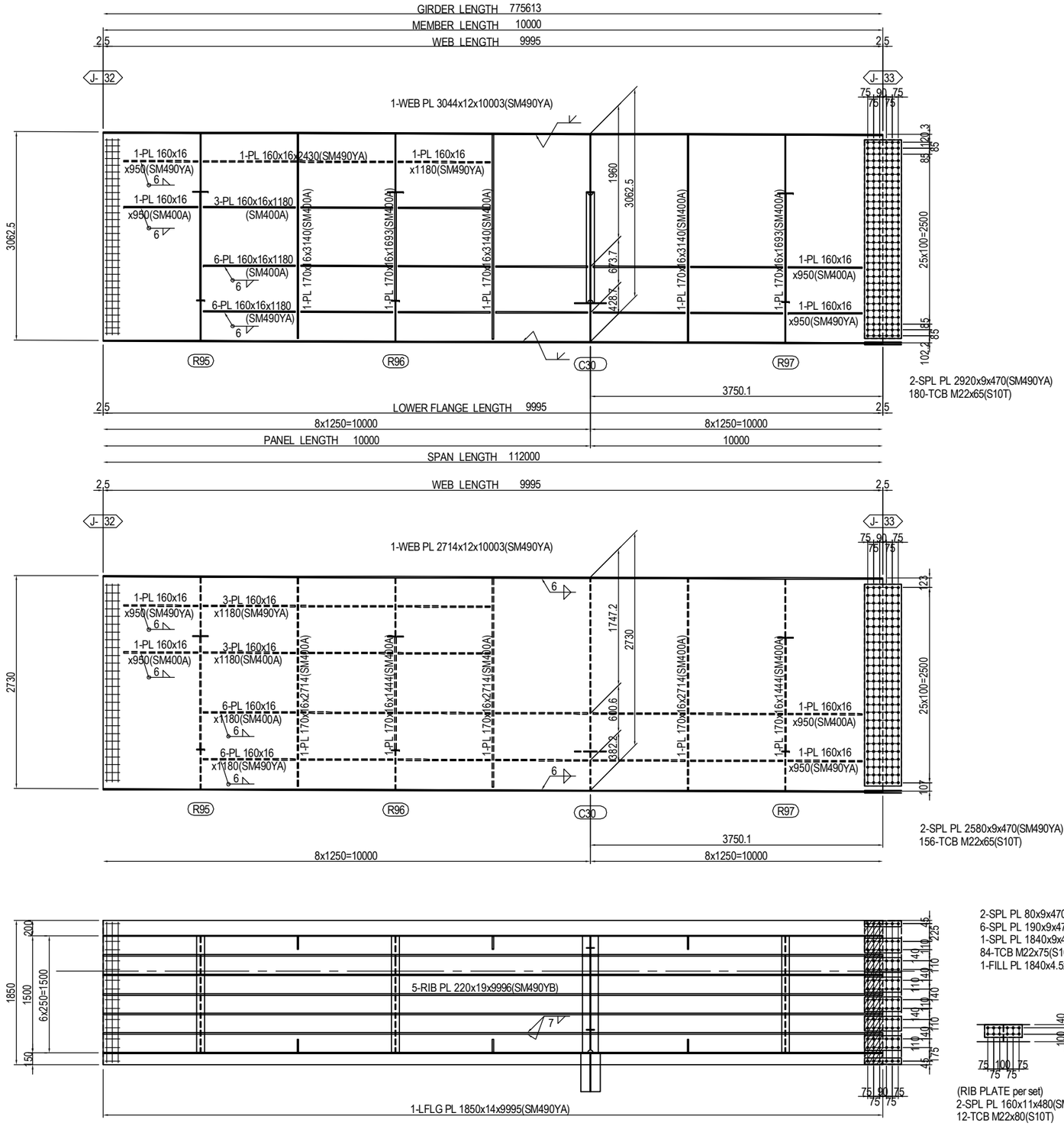


MARKING DIAGRAM

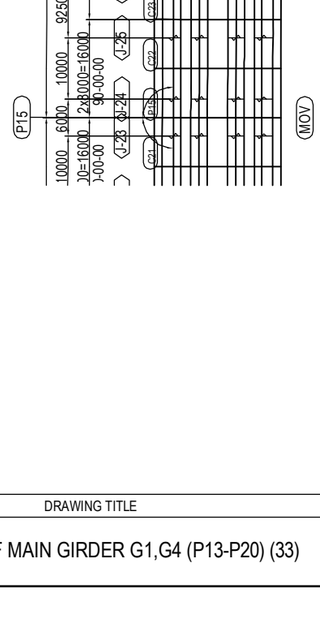


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (32)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1132

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (33) S=1:60

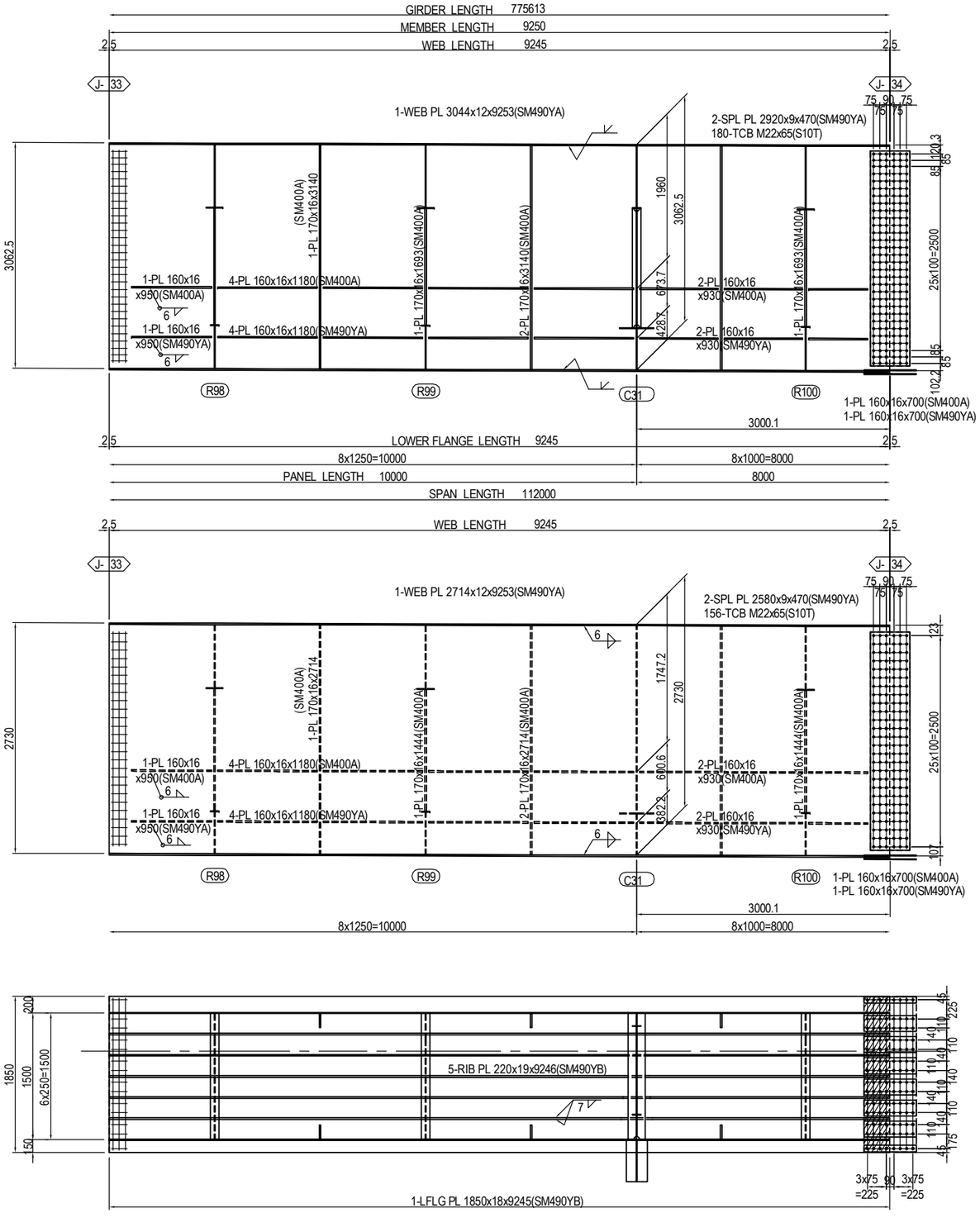


MARKING DIAGRAM

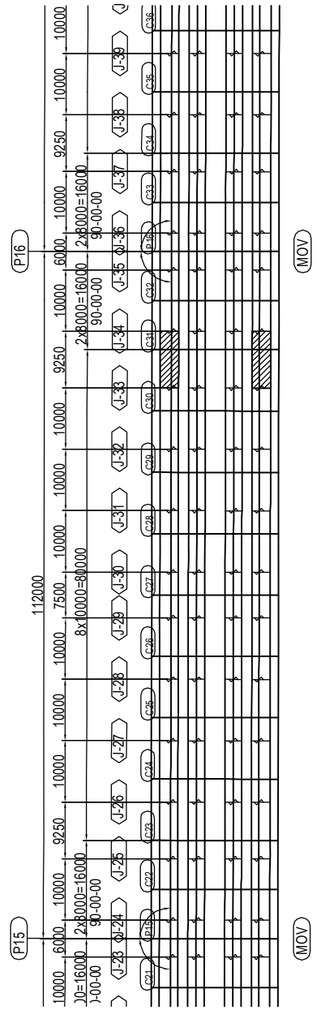


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (33)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1133

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (34) S=1:60



MARKING DIAGRAM



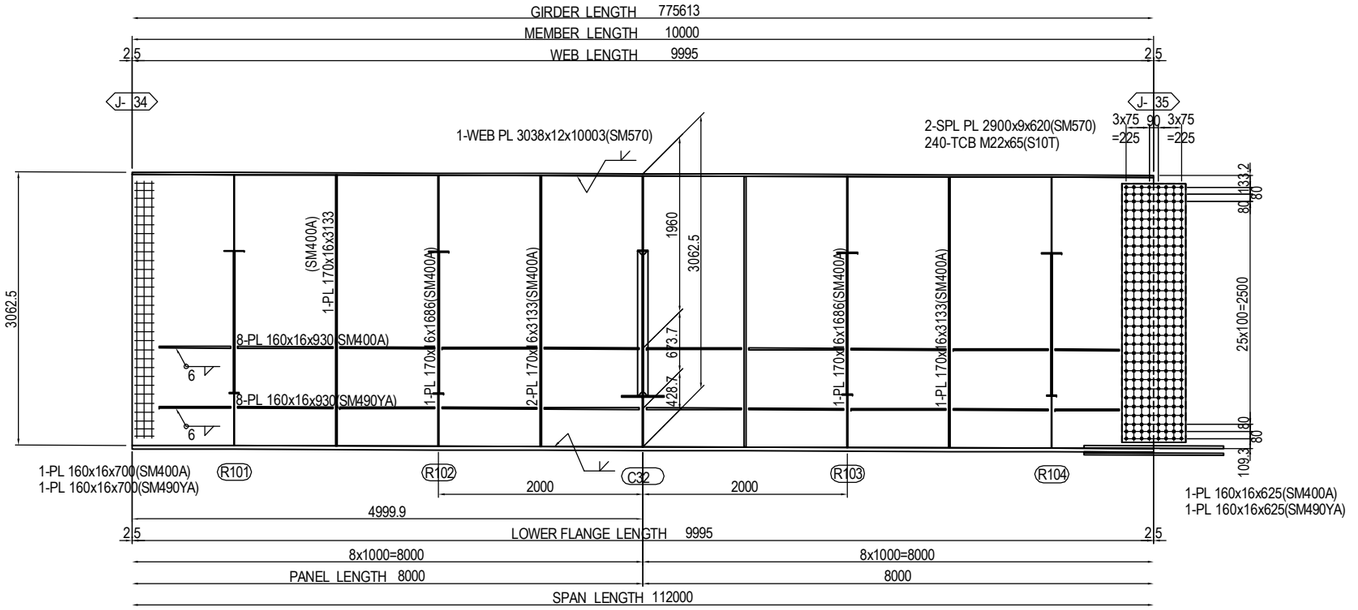
2-SPL PL 80x10x620(SM490YA)
6-SPL PL 190x10x620(SM490YA)
1-SPL PL 1840x9x620(SM490YA)
112-TCB M22x90(S10T)
1-FILL PL 1840x18x308(SS400)

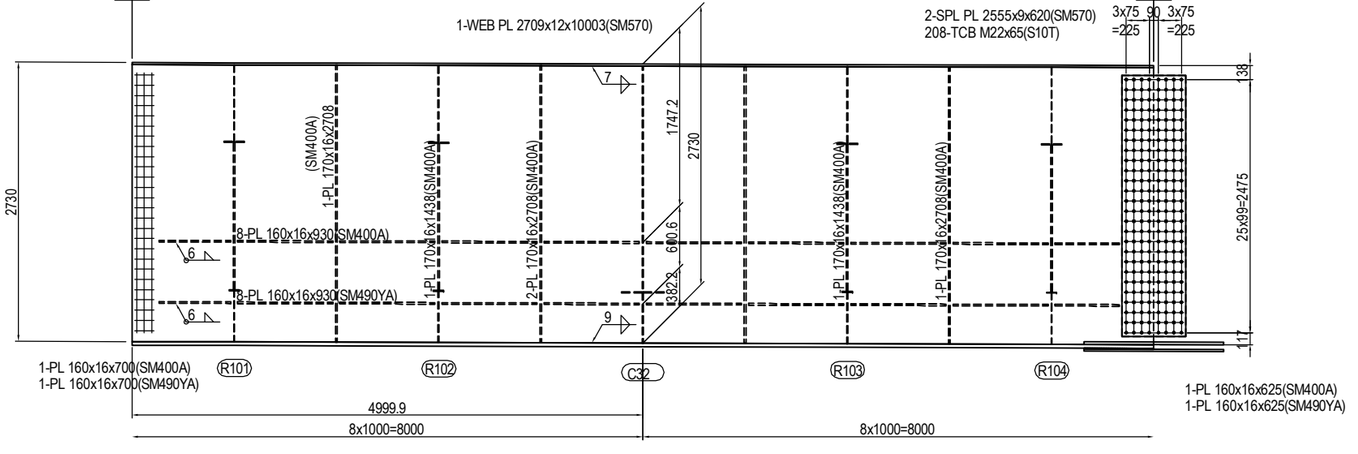
3x75 100 3x75
=225 =225
(RIB PLATE per set)
2-SPL PL 160x11x630(SM490YA)
16-TCB M22x80(S10T)

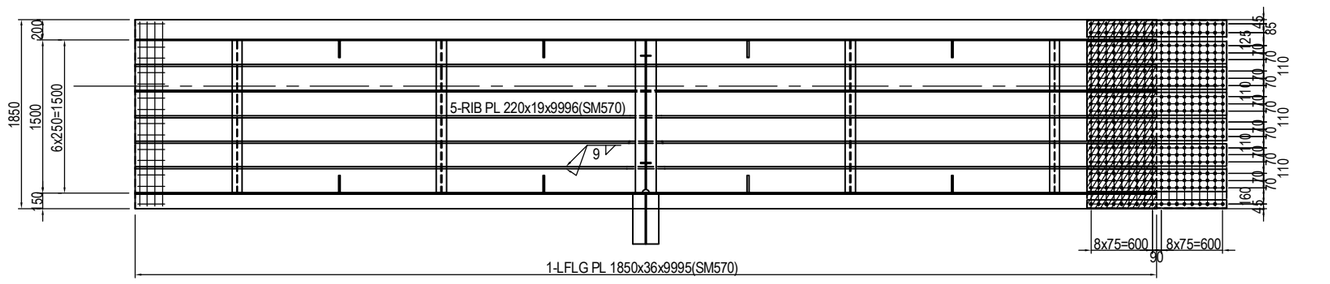
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (34)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1134

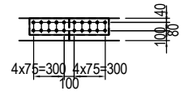
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (35) S=1:60





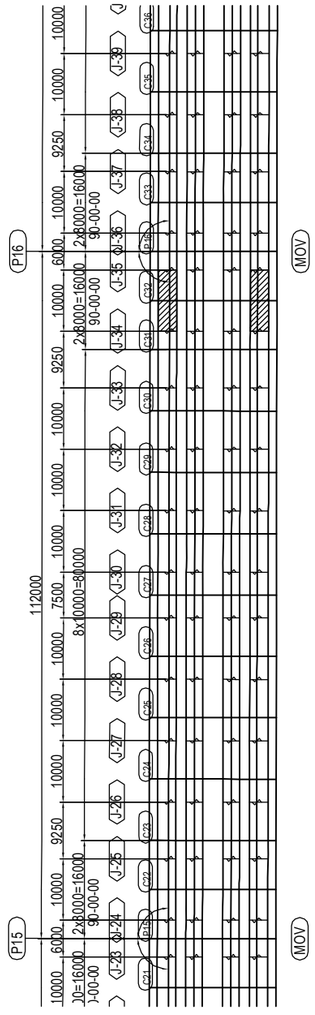


1-SPL PL 165x25x1370(SM570)
6-SPL PL 220x25x1370(SM570)
1-SPL PL 80x25x1370(SM570)
1-SPL PL 1840x18x1370(SM570)
378-TCB M22x120(S10T)
1-FILL PL 1840x6x683(SS400)



(RIB PLATE per set)
2-SPL PL 160x12x780(SM570)
20-TCB M22x80(S10T)

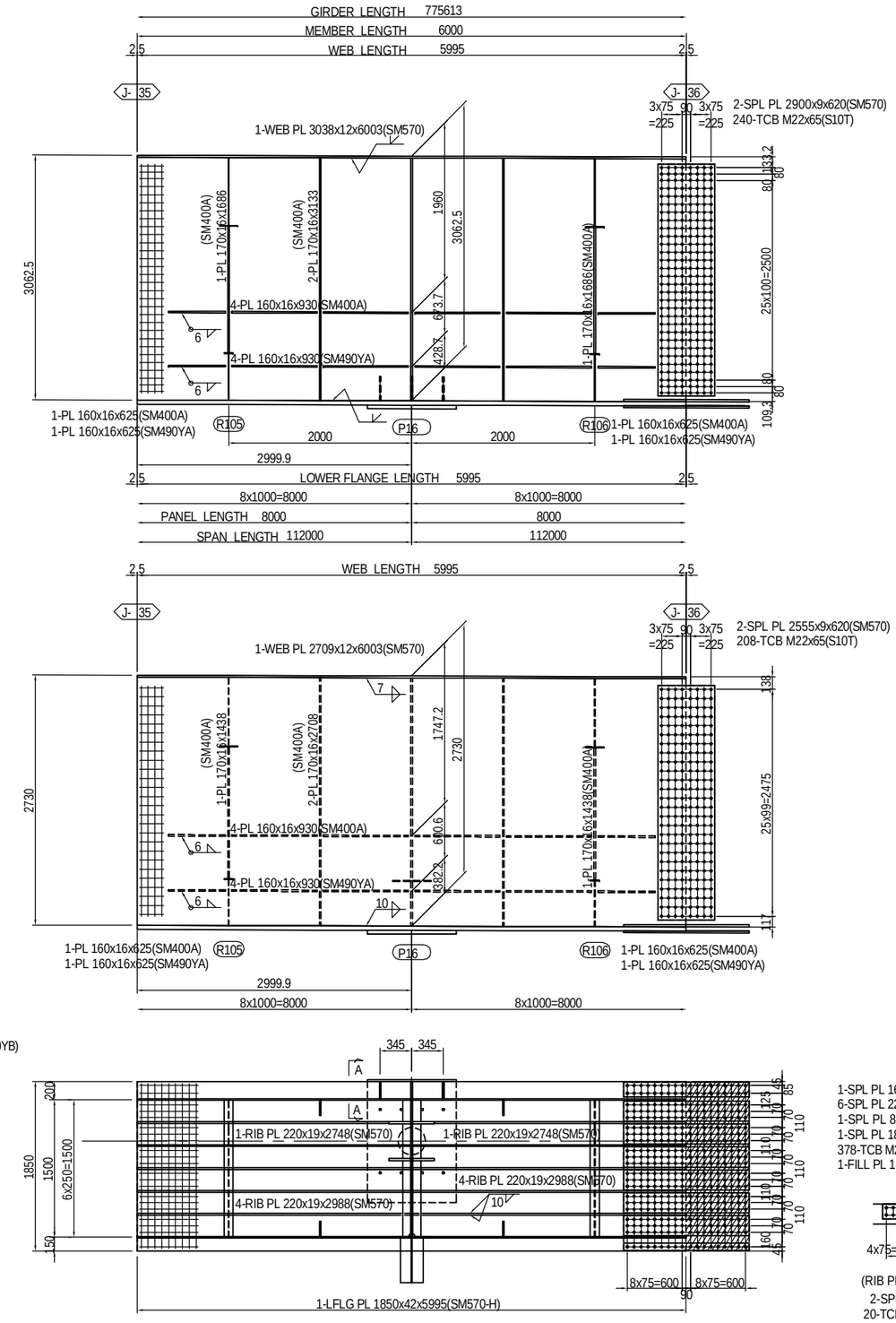
MARKING DIAGRAM



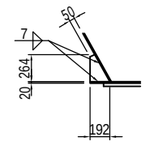
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (35)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1135

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (36) S=1:60

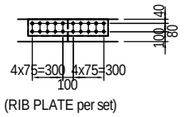


A - A



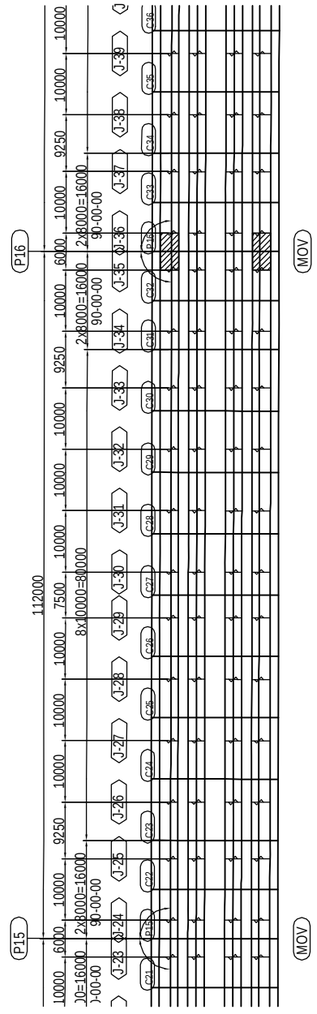
3-RIB PL 192x19x264(SM490YB)

1-SPL PL 165x25x1370(SM570)
6-SPL PL 220x25x1370(SM570)
1-SPL PL 80x25x1370(SM570)
1-SPL PL 1840x20x1370(SM570)
378-TCB M22x125(S10T)
1-FILL PL 1840x2.3x683(SS400)



(RIB PLATE per set)
2-SPL PL 160x12x780(SM570)
20-TCB M22x80(S10T)

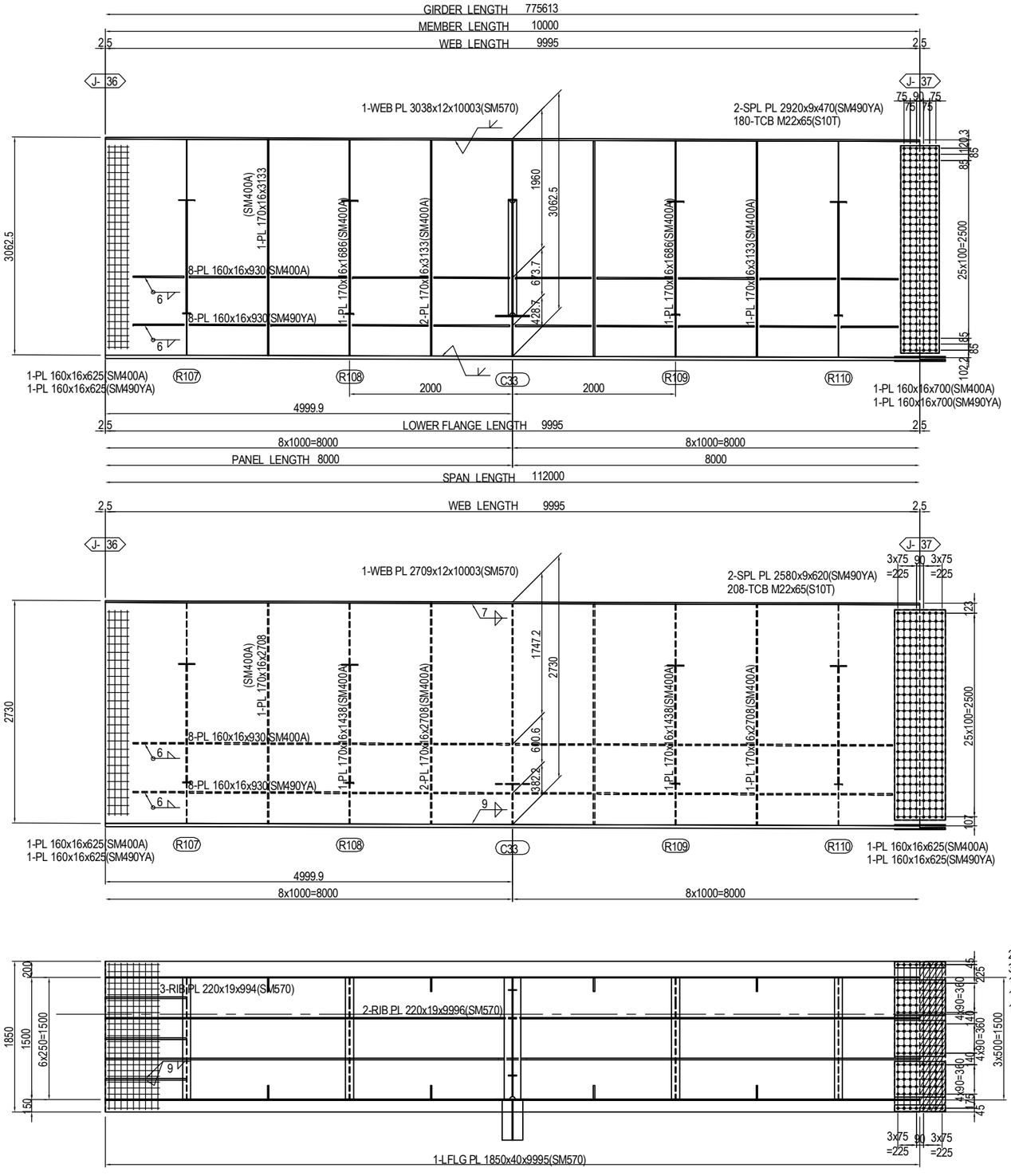
MARKING DIAGRAM



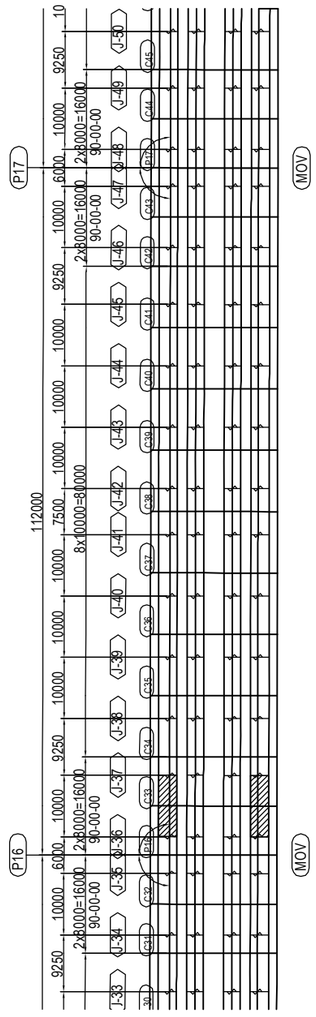
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (36)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1136

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (37) S=1:60

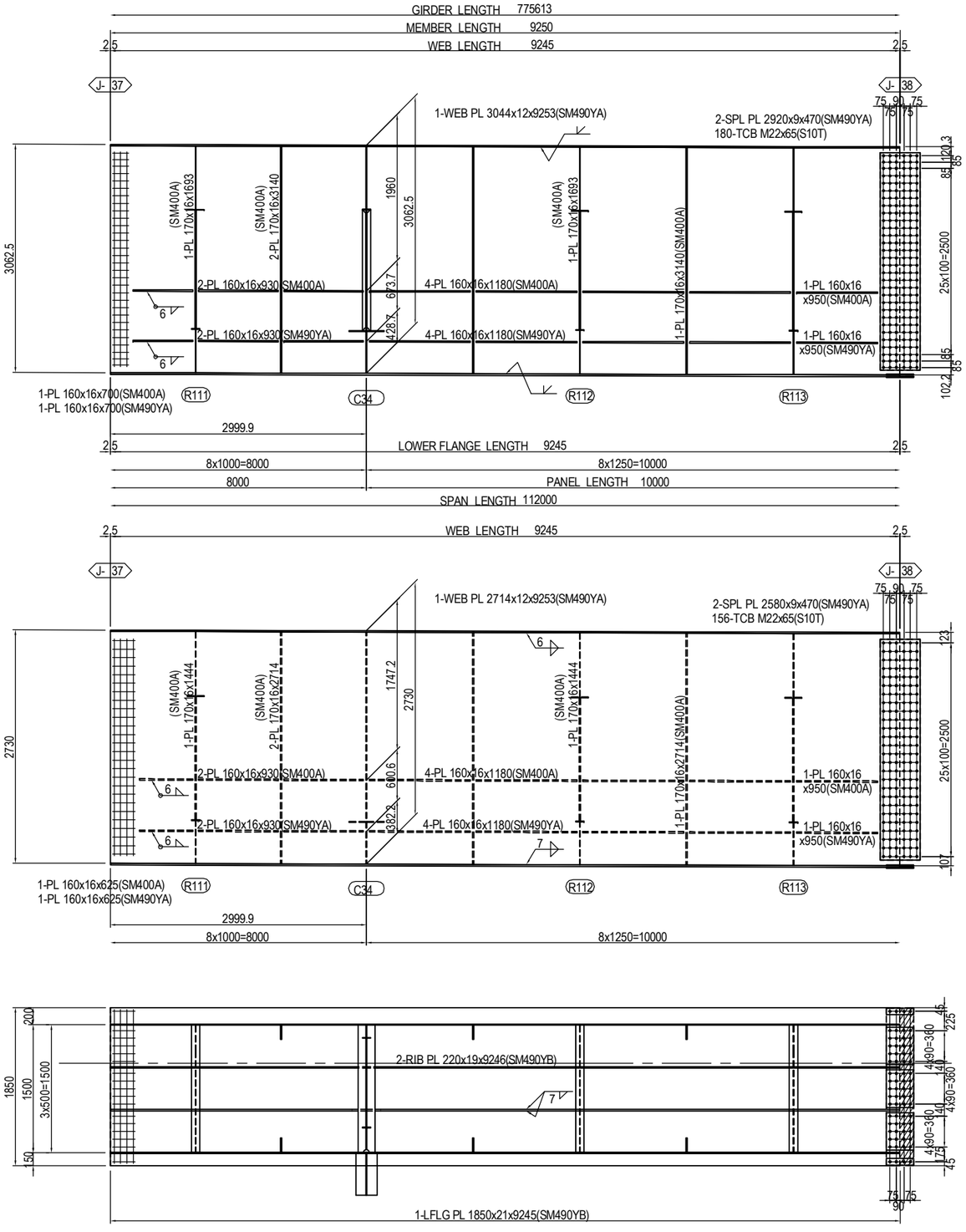


MARKING DIAGRAM

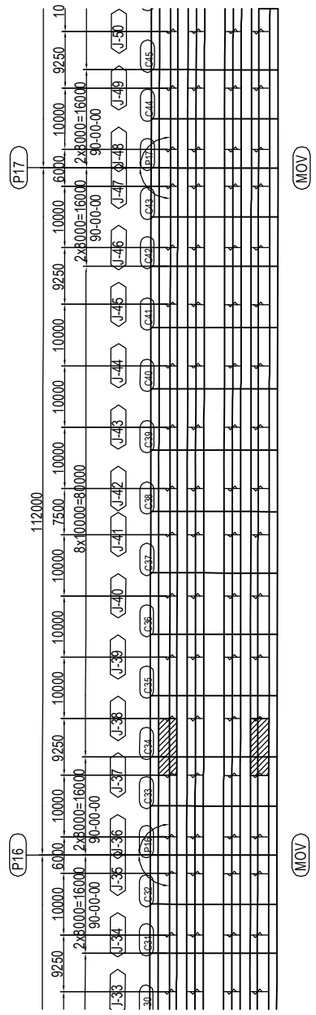


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (37)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1137

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (38) S=1:60



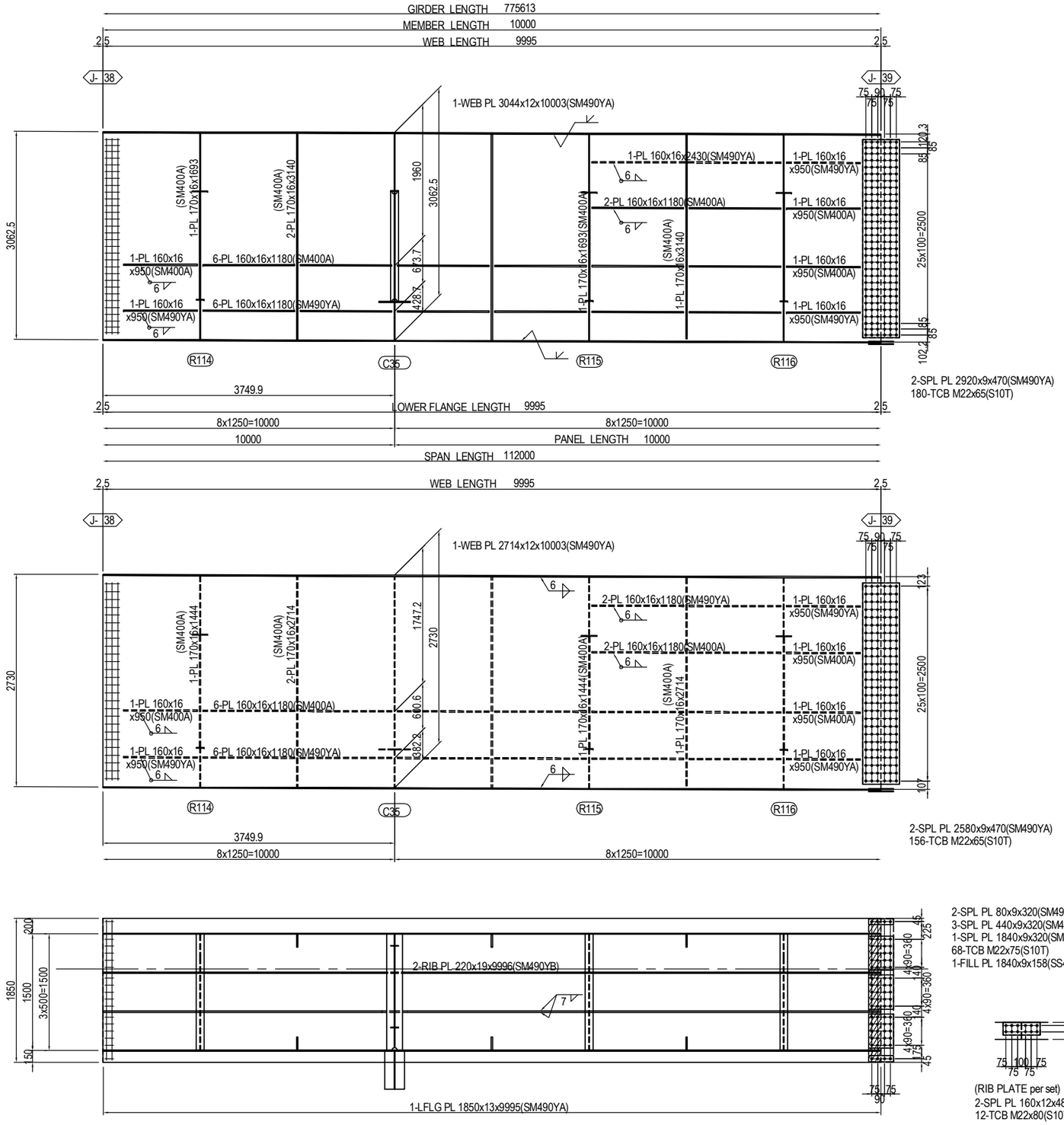
MARKING DIAGRAM



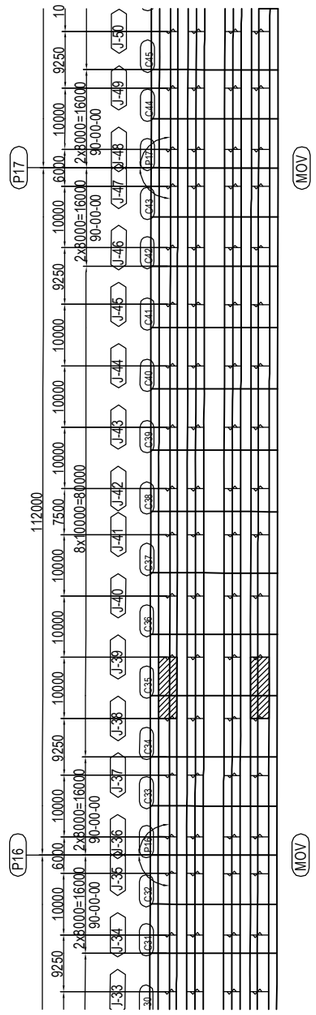
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (38)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1138

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (39) S=1:60



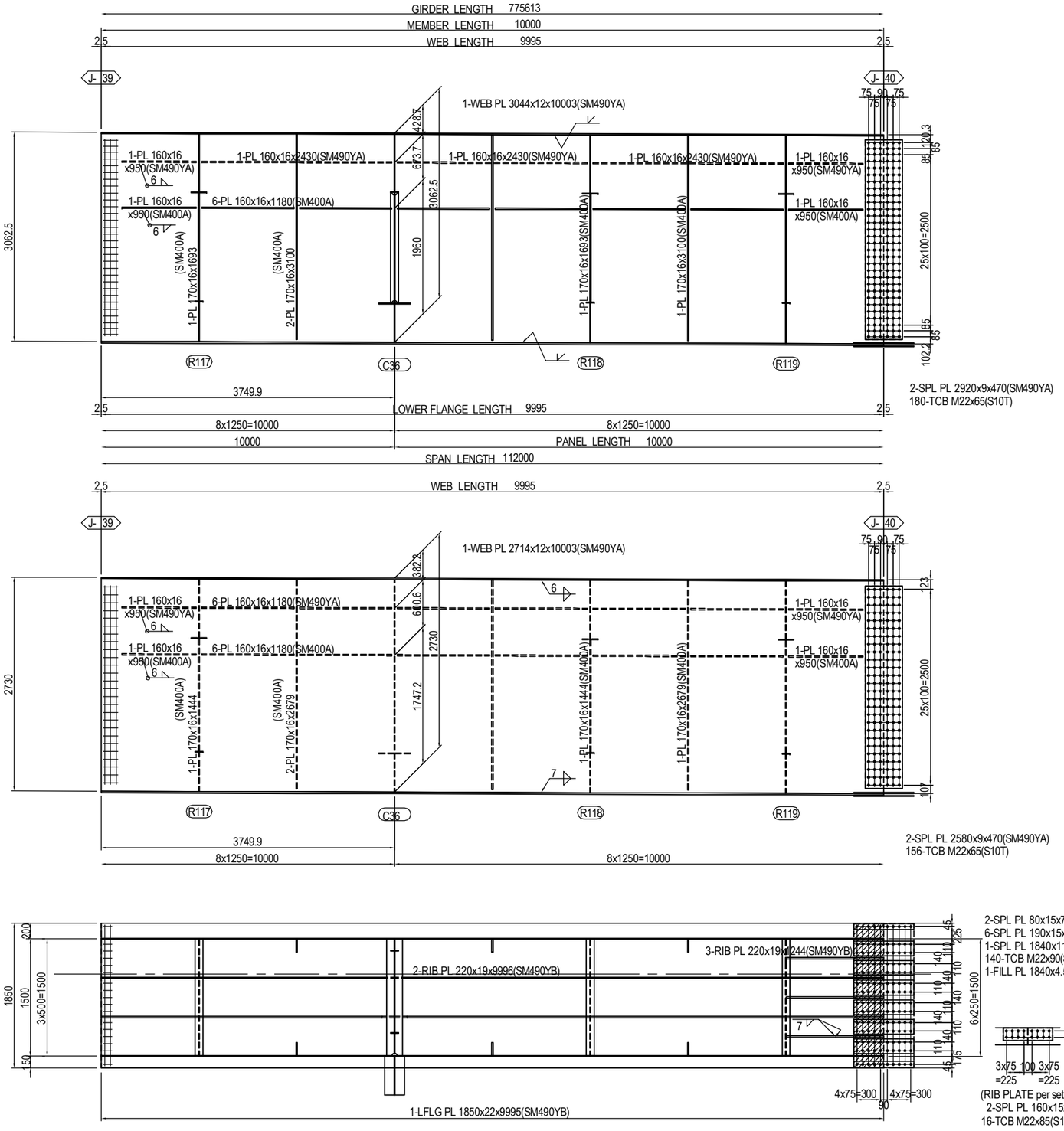
MARKING DIAGRAM



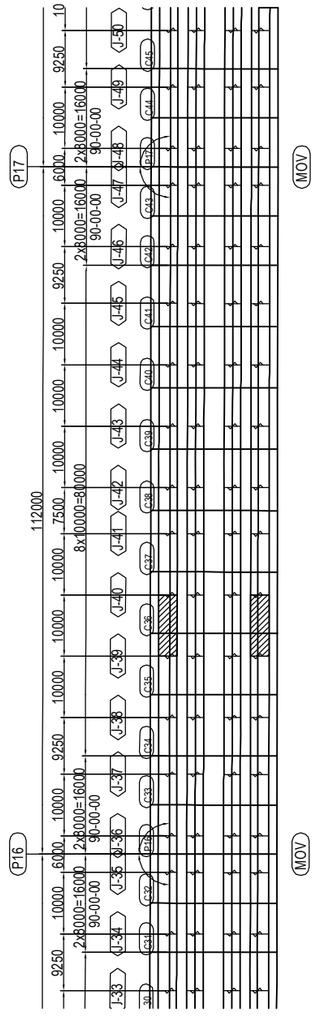
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (39)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1139

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (40) S=1:60

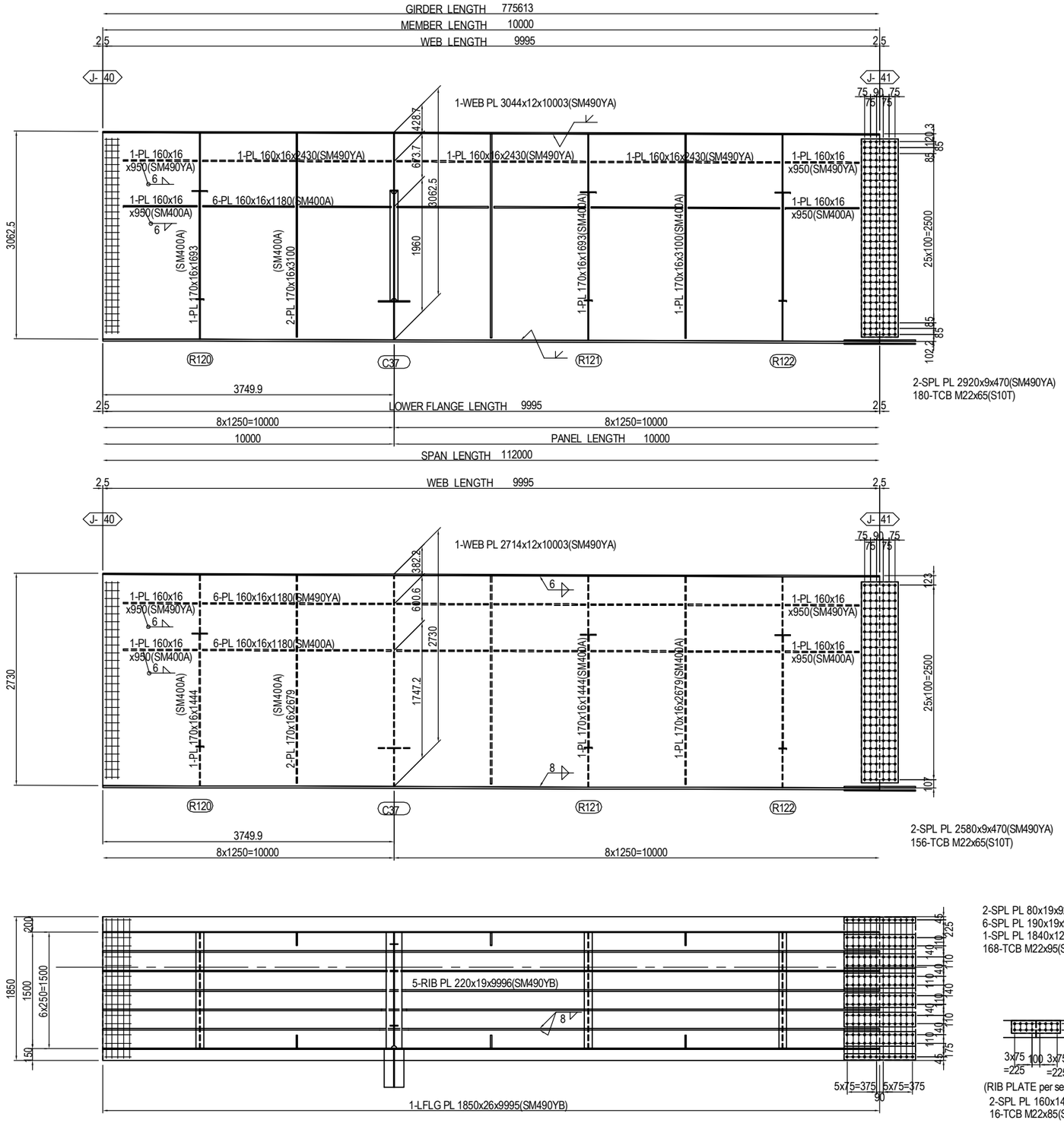


MARKING DIAGRAM

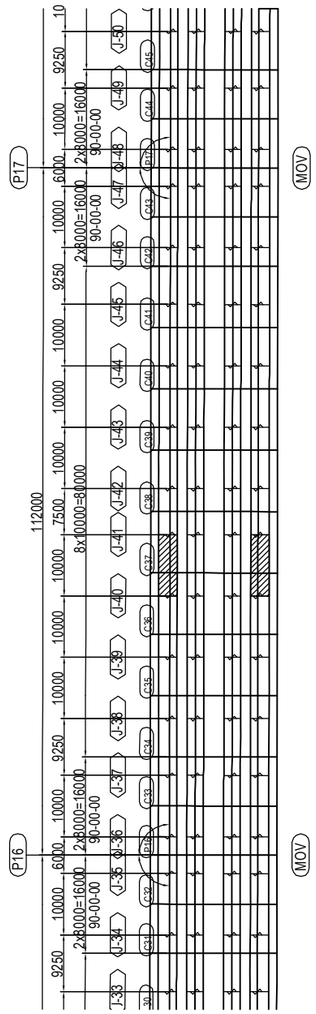


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
				NAME / SIGNATURE / DATE	DRAWING TITLE / PACKAGE
				PREPARED BY: S. IMADA — 15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (40) — 2
				CHECKED BY: T. HAYAKAWA — 20 Jun.2017	DWG No.
				APPROVED BY: Y. SANO — 21 Jun.2017	P2-SB-1140

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (41) S=1:60

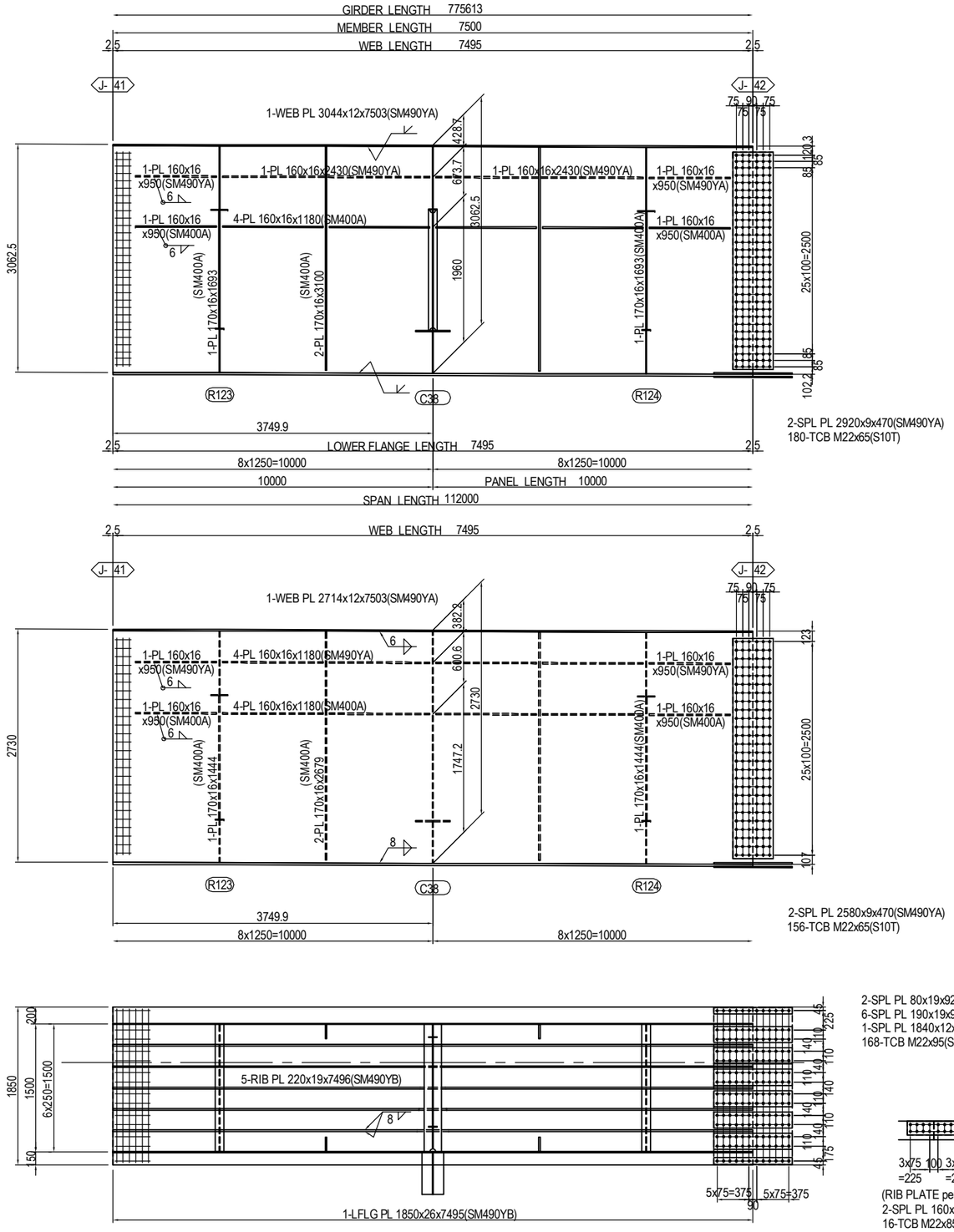


MARKING DIAGRAM

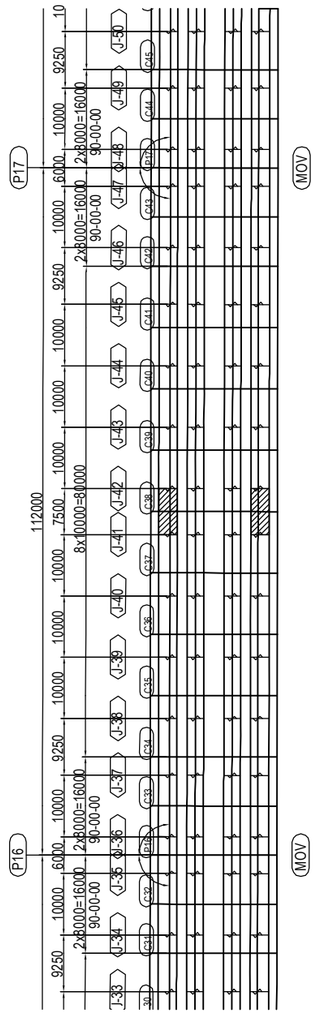


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (41)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1141

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (42) S=1:60



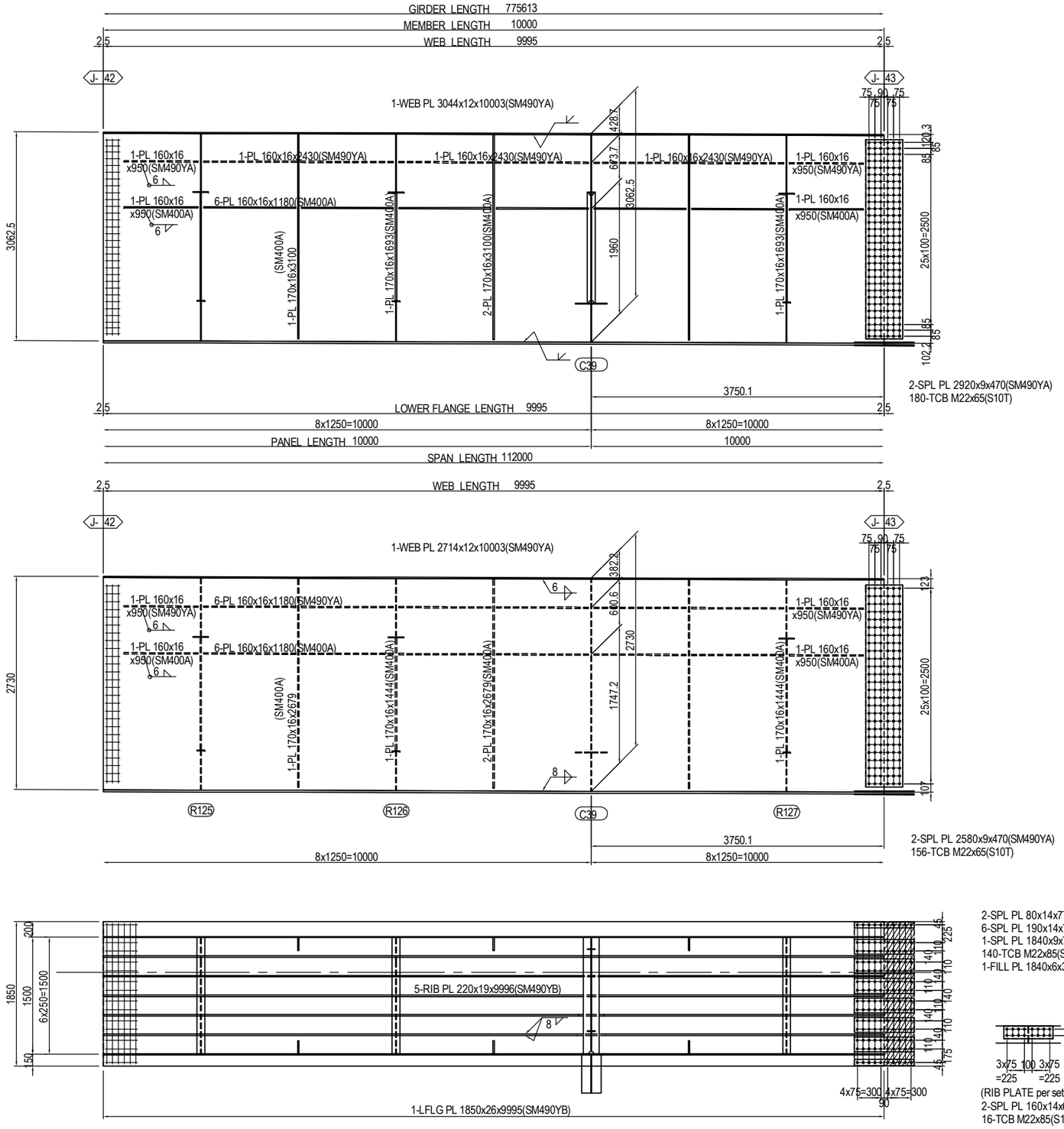
MARKING DIAGRAM



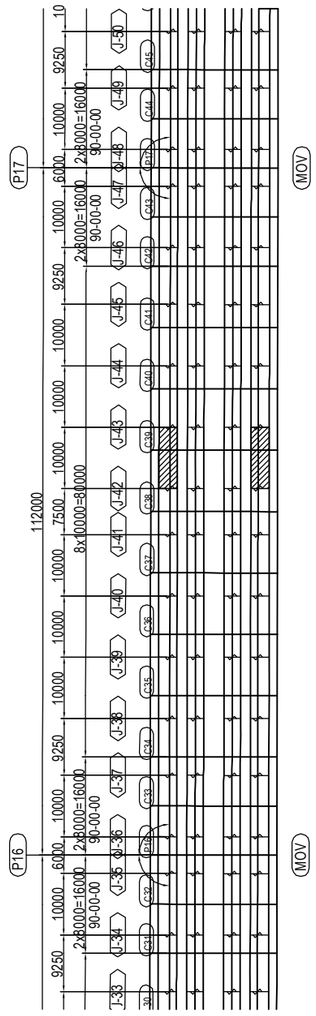
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (42)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1142

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (43) S=1:60

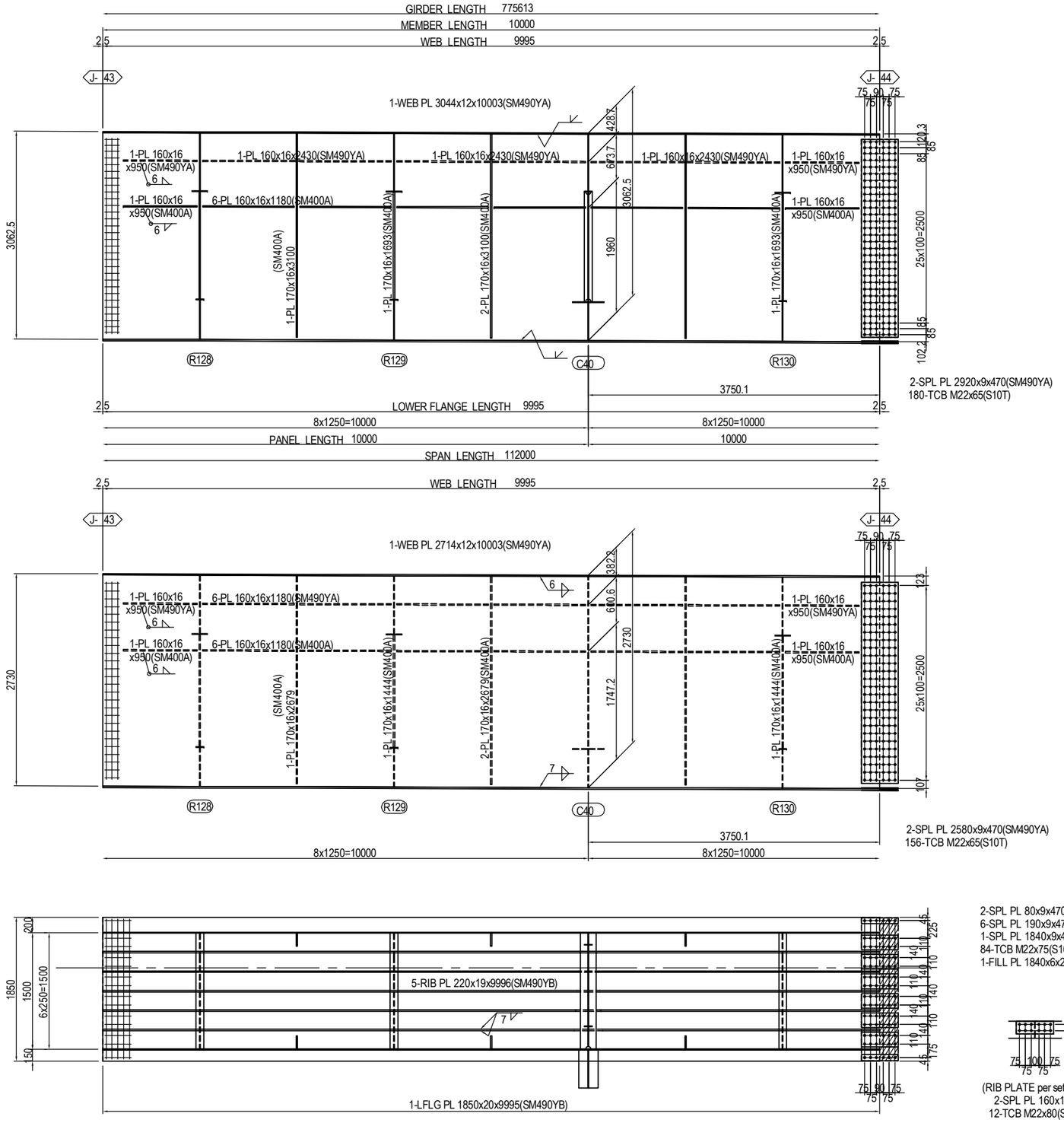


MARKING DIAGRAM

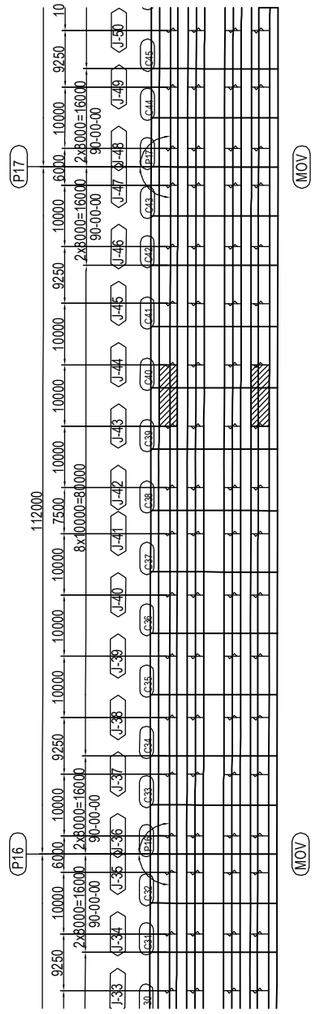


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (43)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1143

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (44) S=1:60

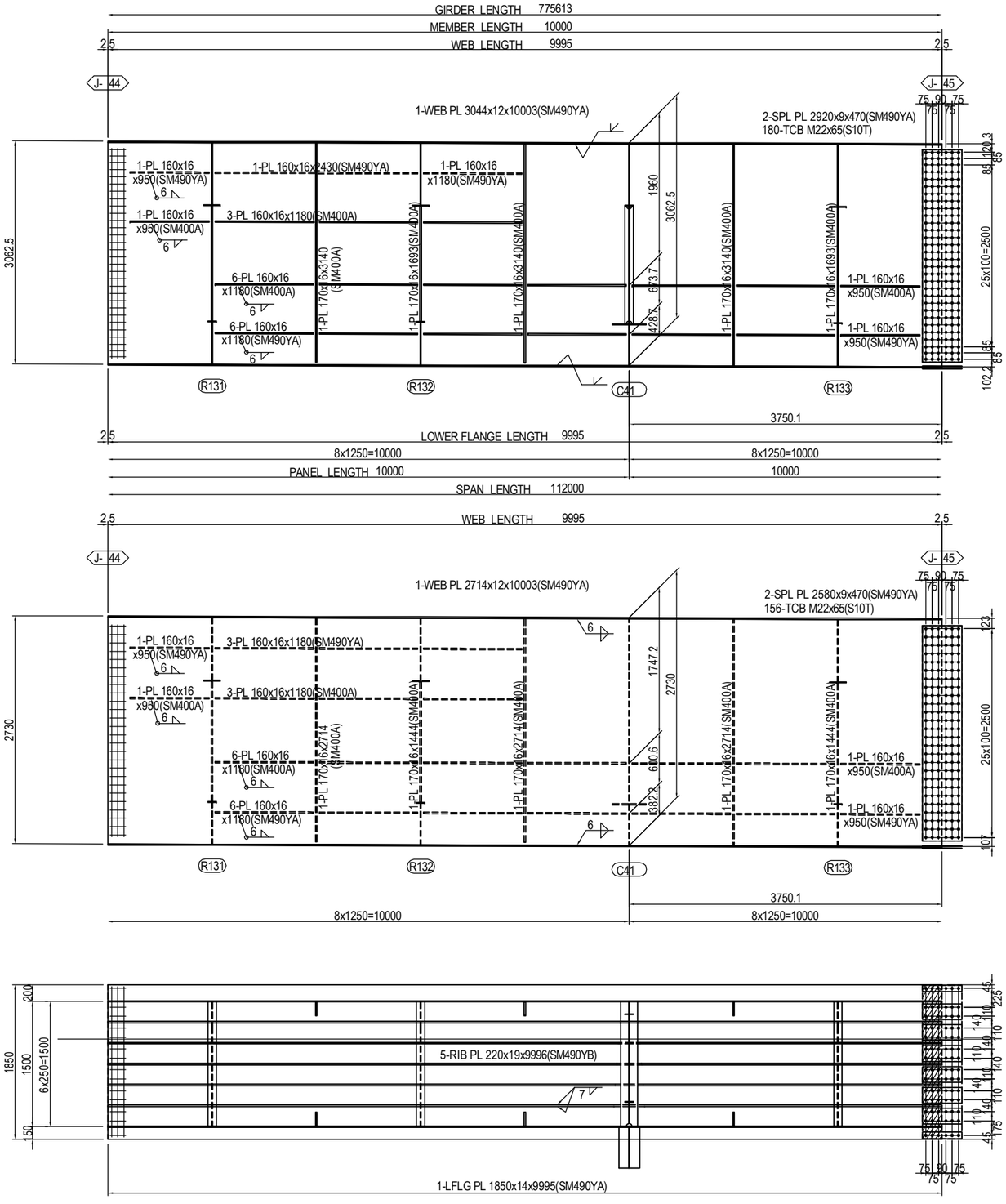


MARKING DIAGRAM

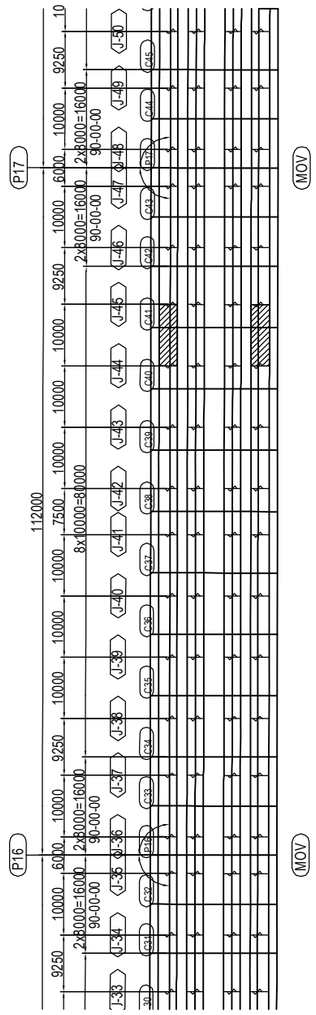


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (44)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1144

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (45) S=1:60



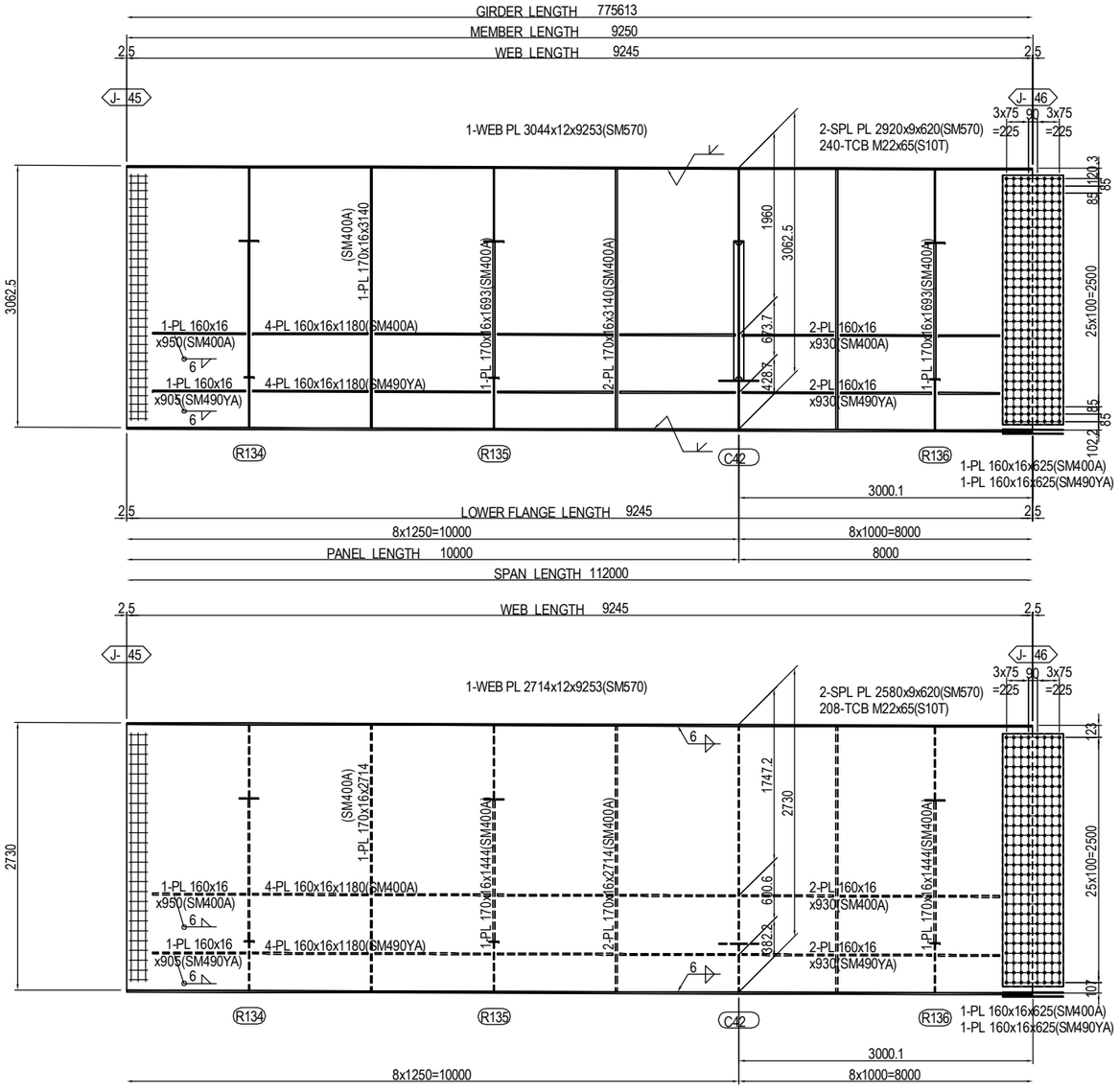
MARKING DIAGRAM



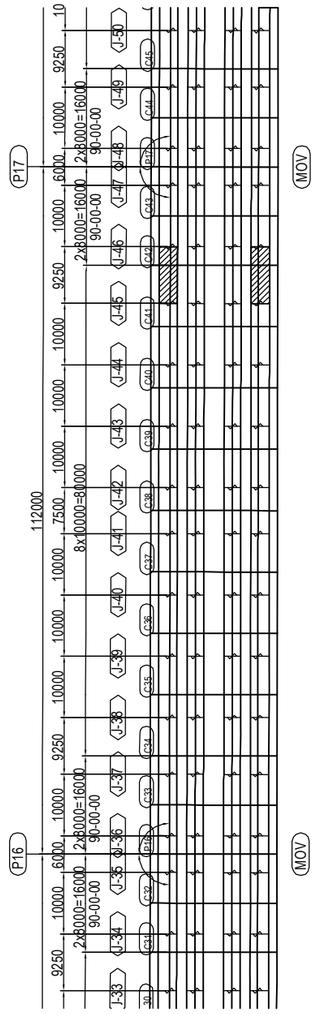
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (45)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1145

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (46) S=1:60



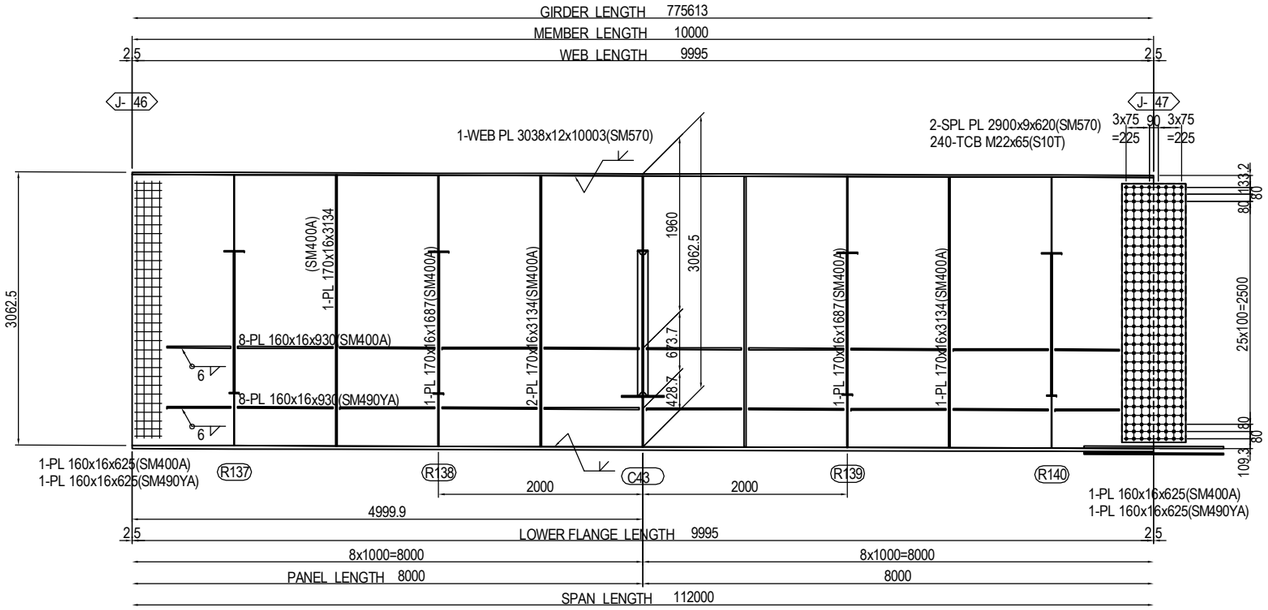
MARKING DIAGRAM



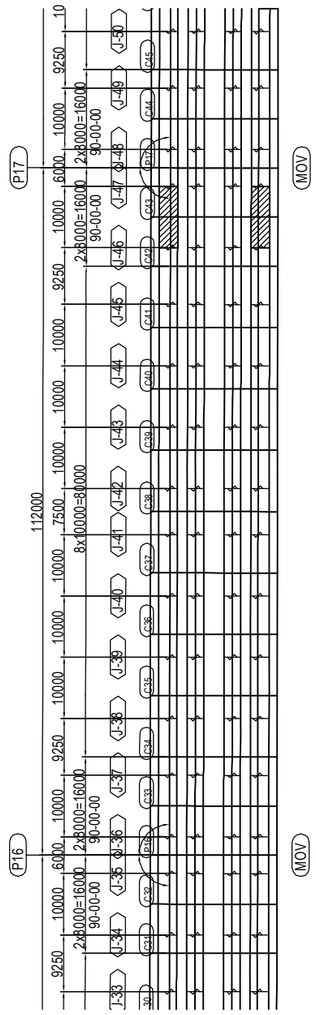
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (46)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1146

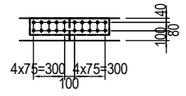
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (47) S=1:60



MARKING DIAGRAM



1-SPL PL 165x23x1370(SM570)
6-SPL PL 220x23x1370(SM570)
1-SPL PL 80x23x1370(SM570)
1-SPL PL 1840x16x1370(SM570)
378-TCB M22x120(S10T)
1-FILL PL 1840x10x683(SS400)



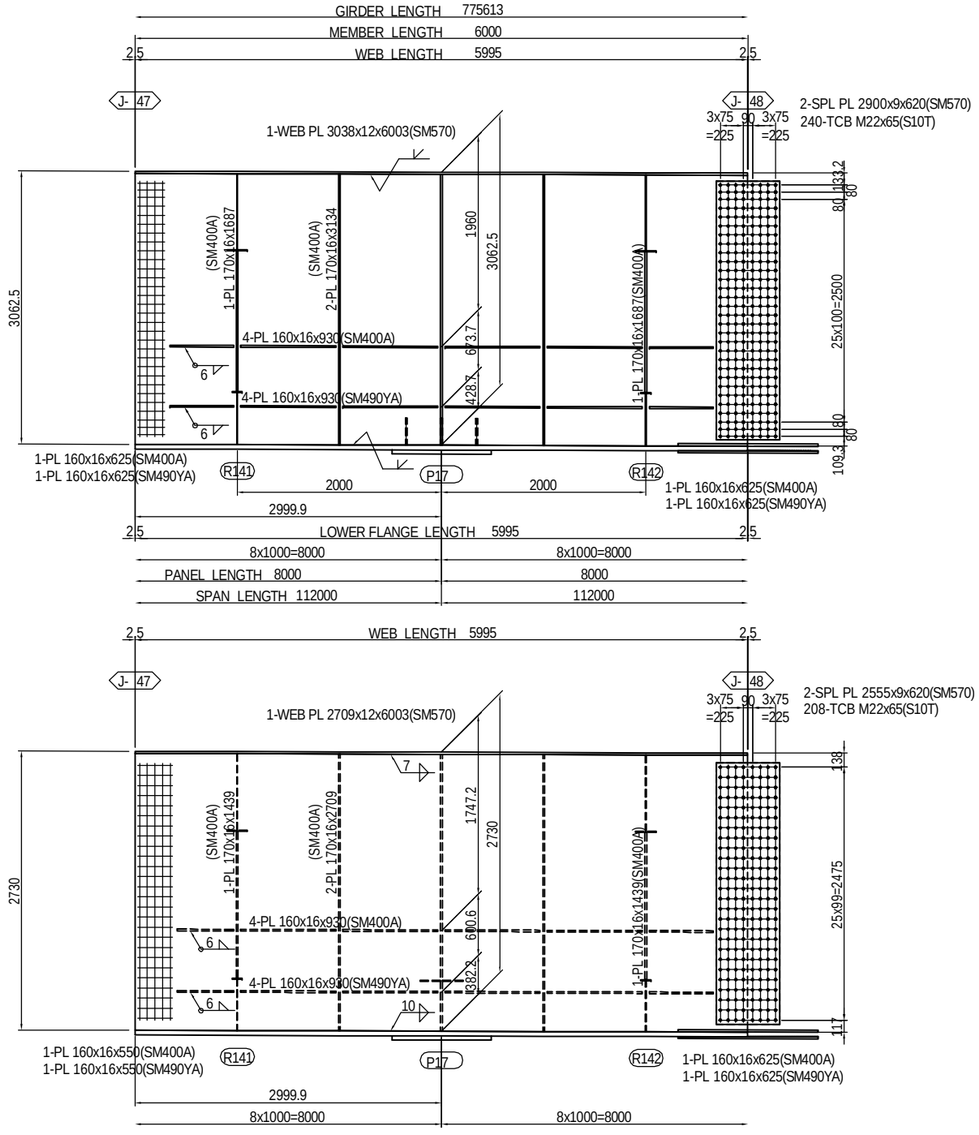
(RIB PLATE per set)
2-SPL PL 160x12x780(SM570)
20-TCB M22x80(S10T)

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	DRAWING TITLE: DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (47)	PACKAGE: 2

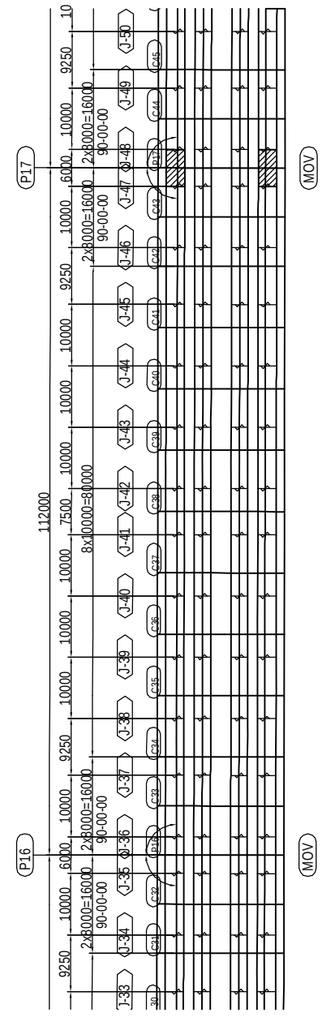
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DWG No. P2-SB-1147

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (48) S=1:60



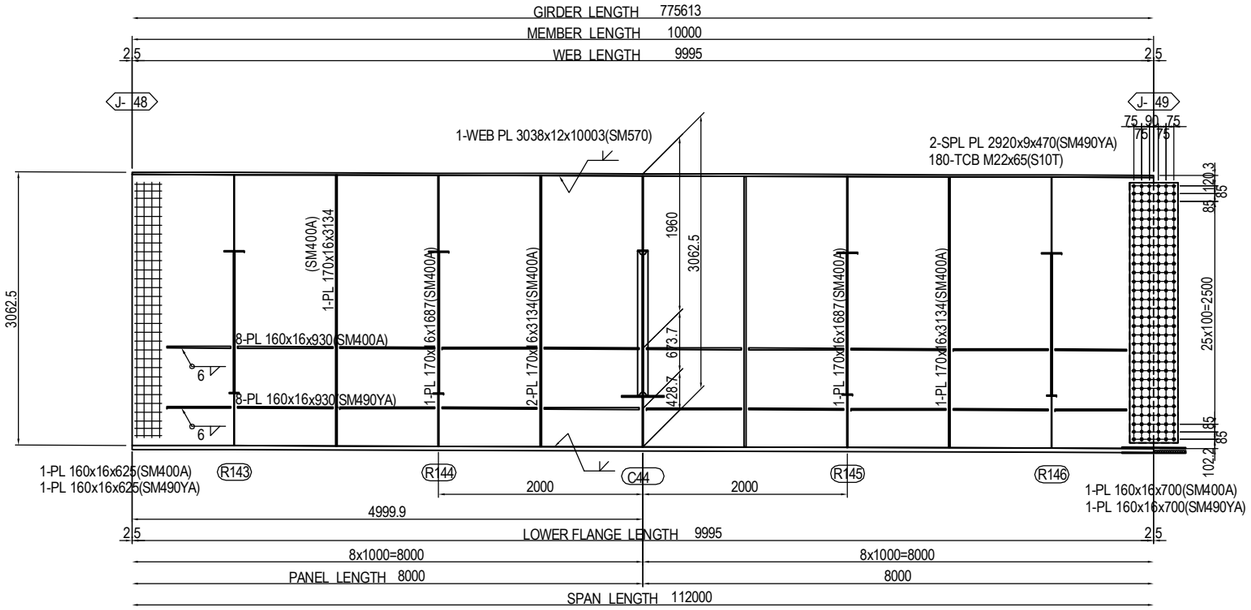
MARKING DIAGRAM

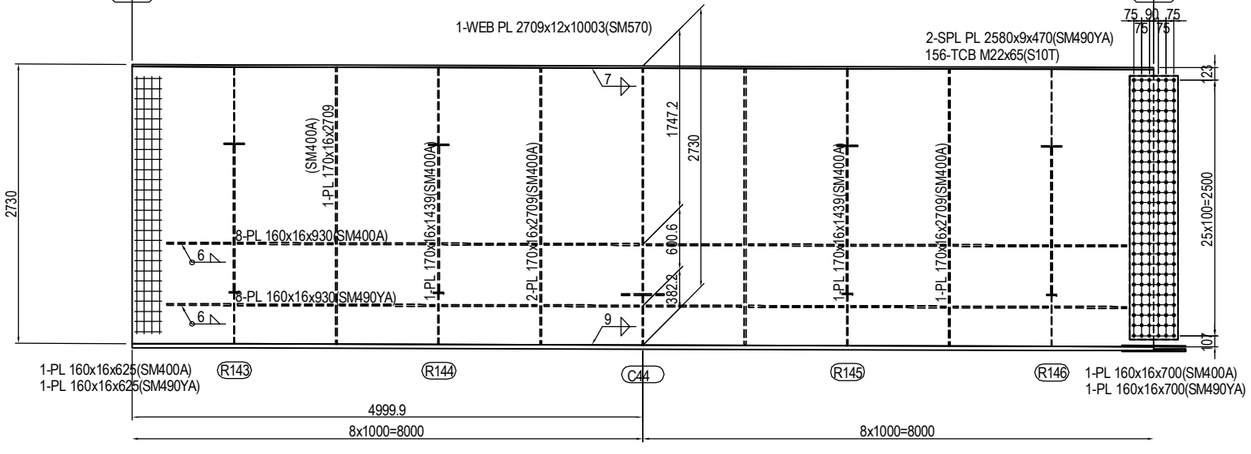


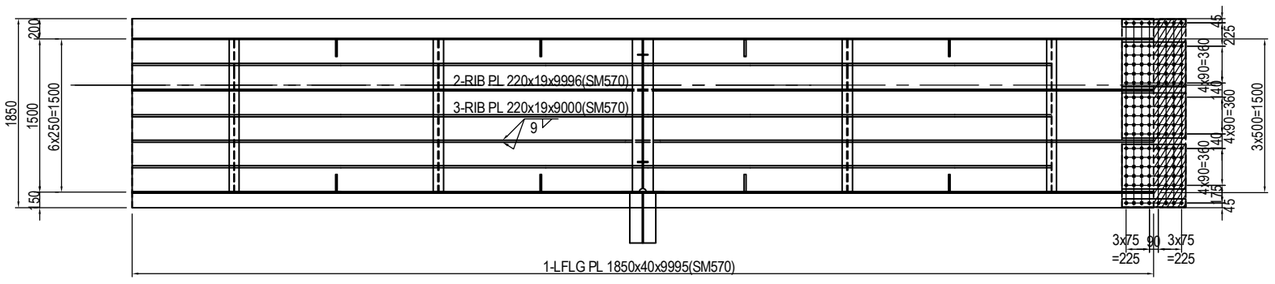
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (48)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1148

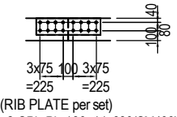
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (49) S=1:60





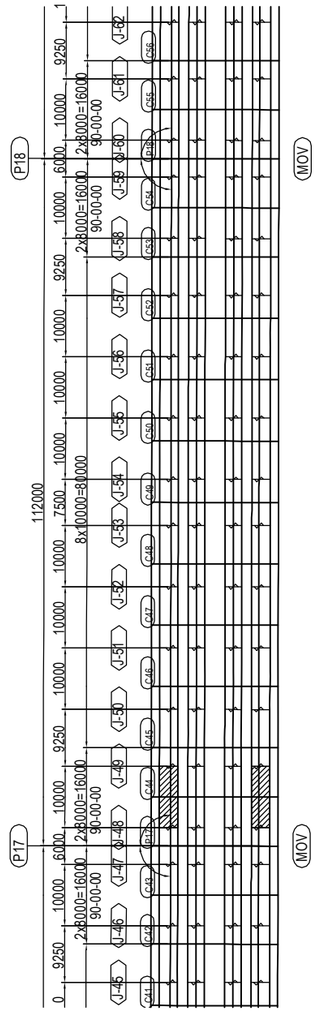


2-SPL PL 80x11x620(SM490YA)
3-SPL PL 440x11x620(SM490YA)
1-SPL PL 1840x9x620(SM490YA)
136-TCB M22x95(S10T)
1-FILL PL 1840x19x308(SS400)



(RIB PLATE per set)
2-SPL PL 160x11x630(SM490YA)
16-TCB M22x80(S10T)

MARKING DIAGRAM

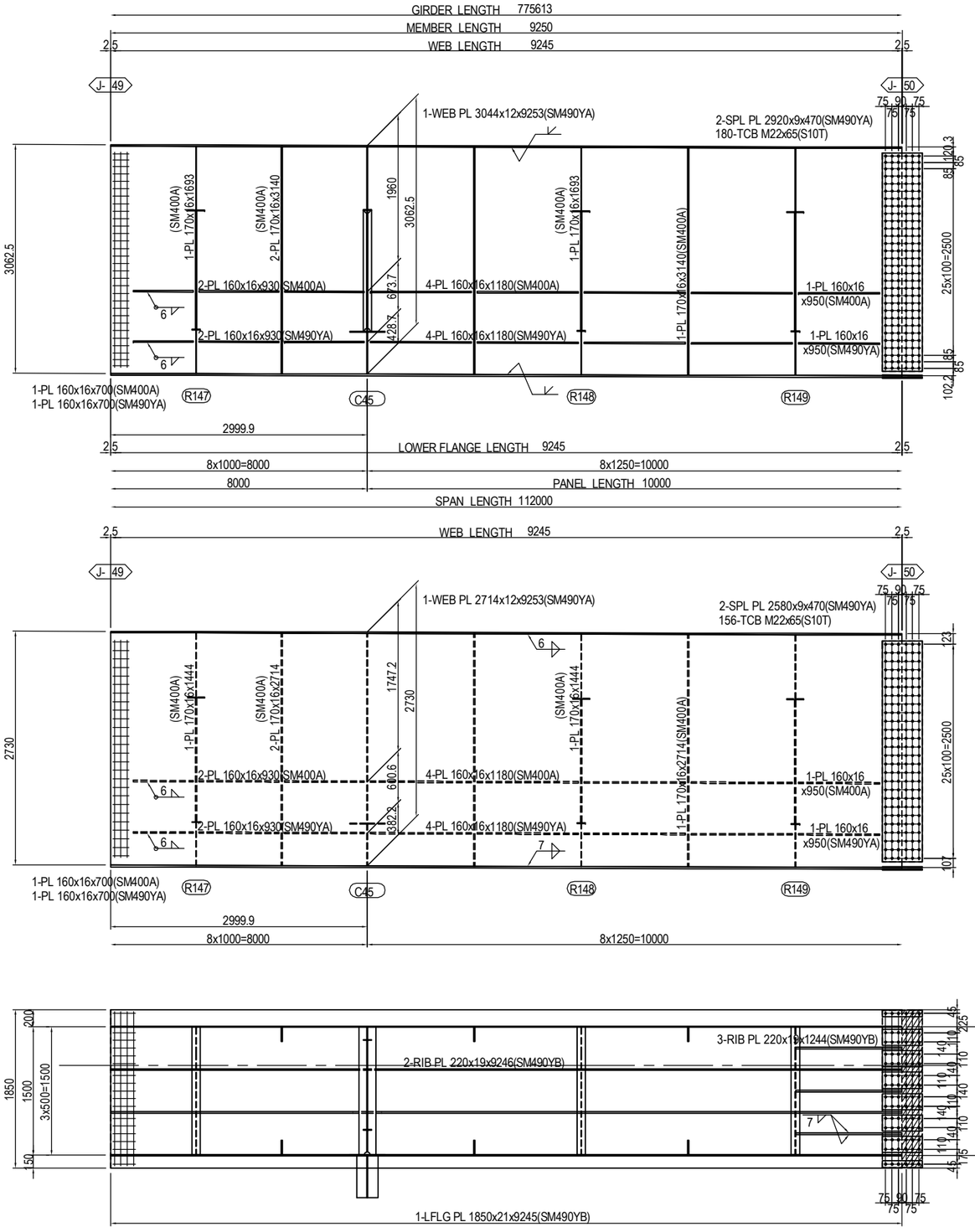


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

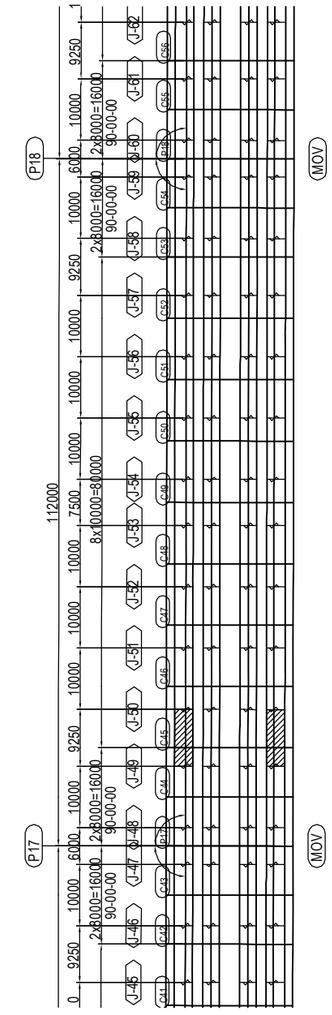
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (49)	2
	DWG No. P2-SB-1149

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (50) S=1:60



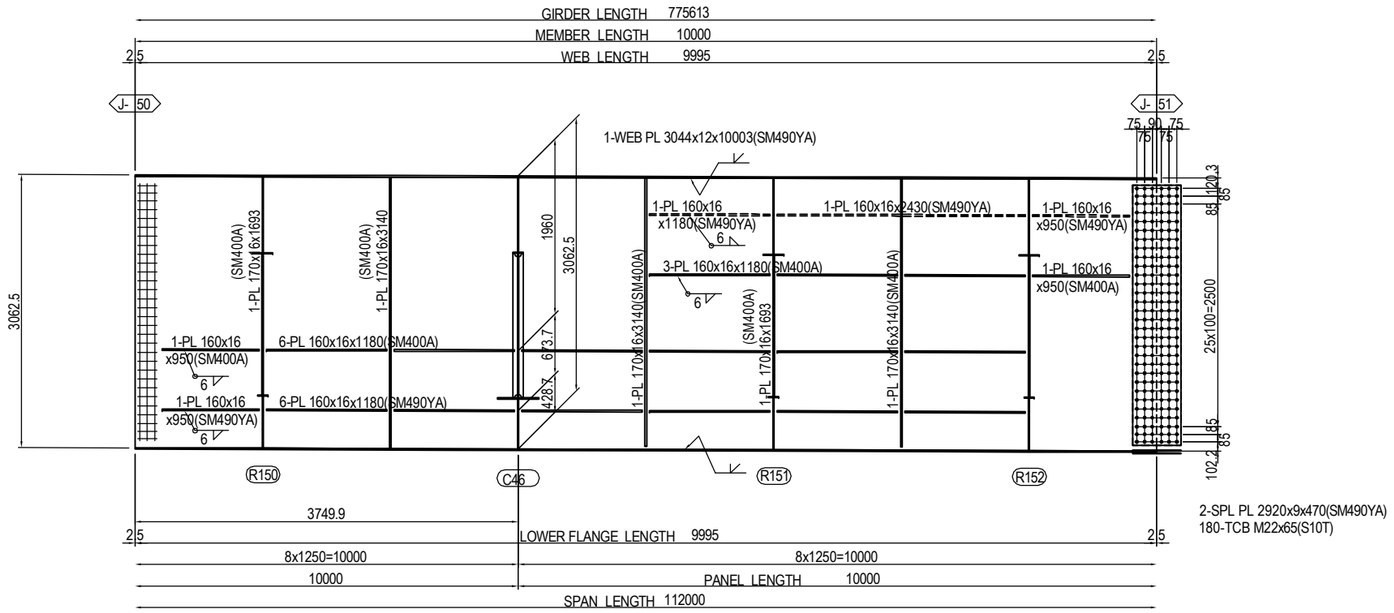
MARKING DIAGRAM

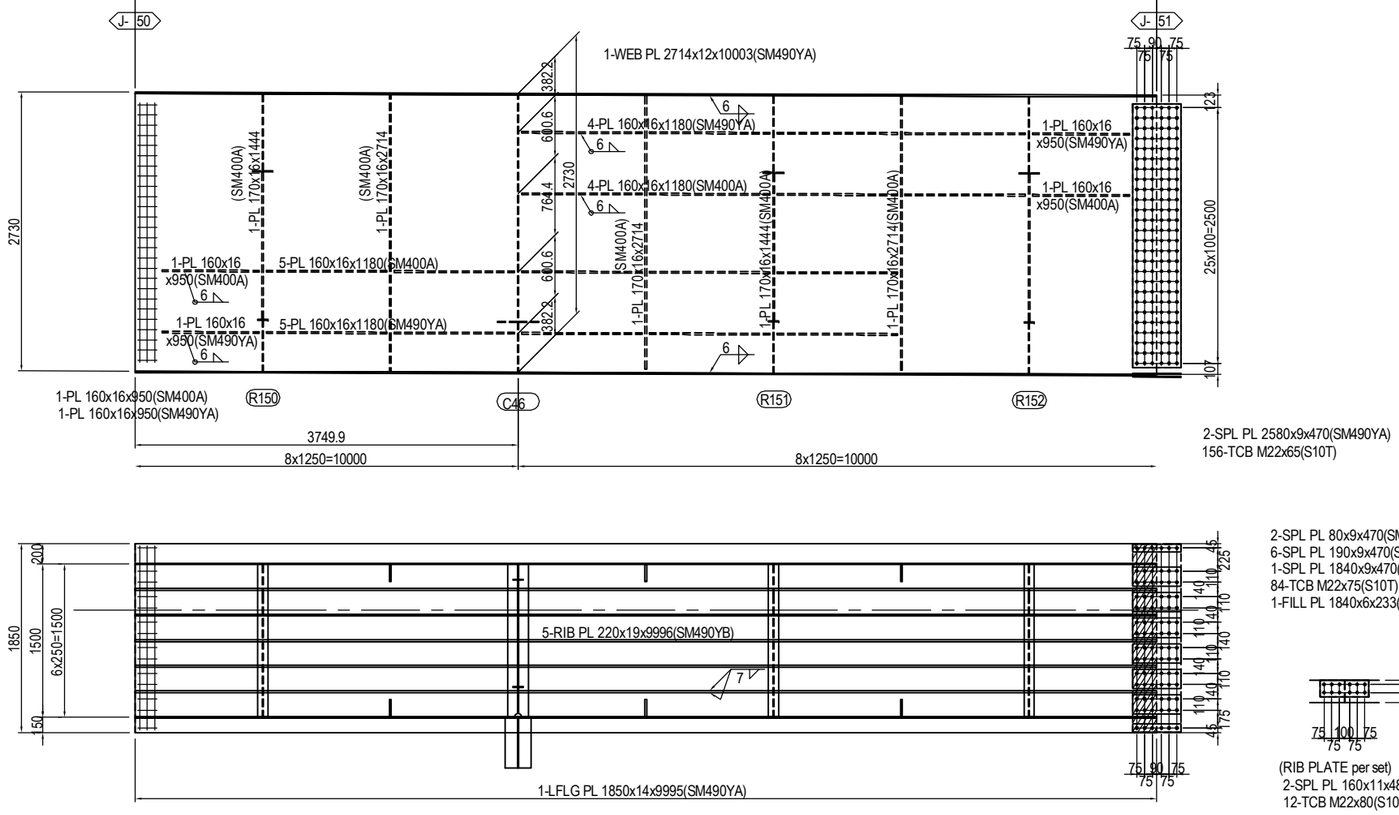


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

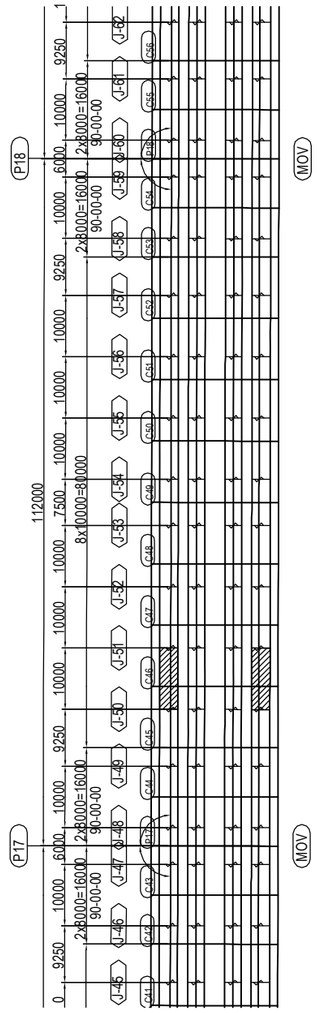
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (50)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1150

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (51) S=1:60



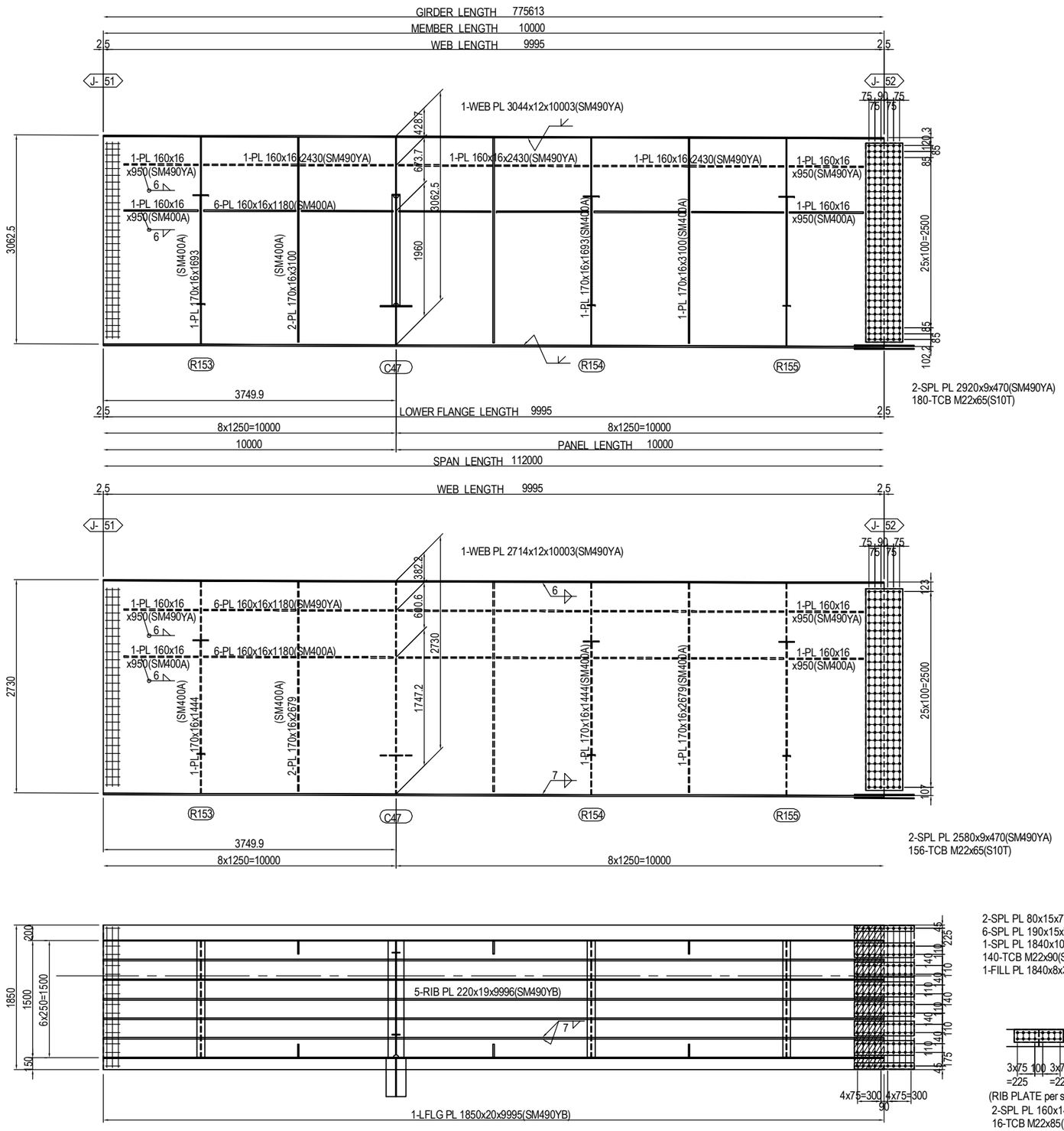


MARKING DIAGRAM

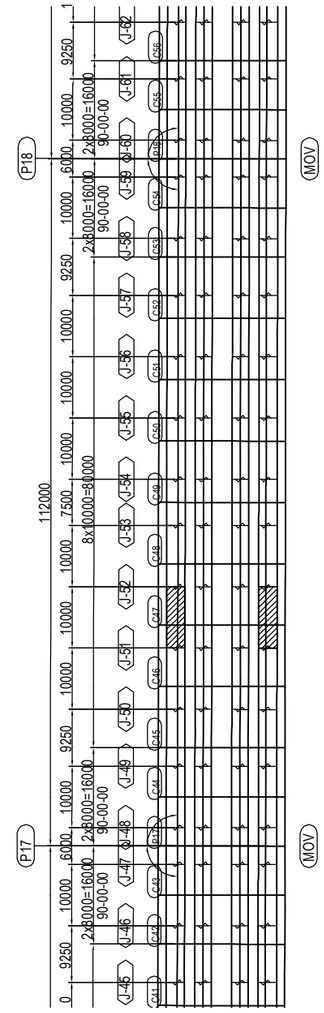


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
				NAME	SIGNATURE / DATE
				PREPARED BY	S. IMADA — 15 Jun.2017
				CHECKED BY	T. HAYAKAWA — 20 Jun.2017
				APPROVED BY	Y. SANO — 21 Jun.2017
				DRAWING TITLE	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (51)
				PACKAGE	2
				DWG No.	P2-SB-1151

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (52) S=1:60



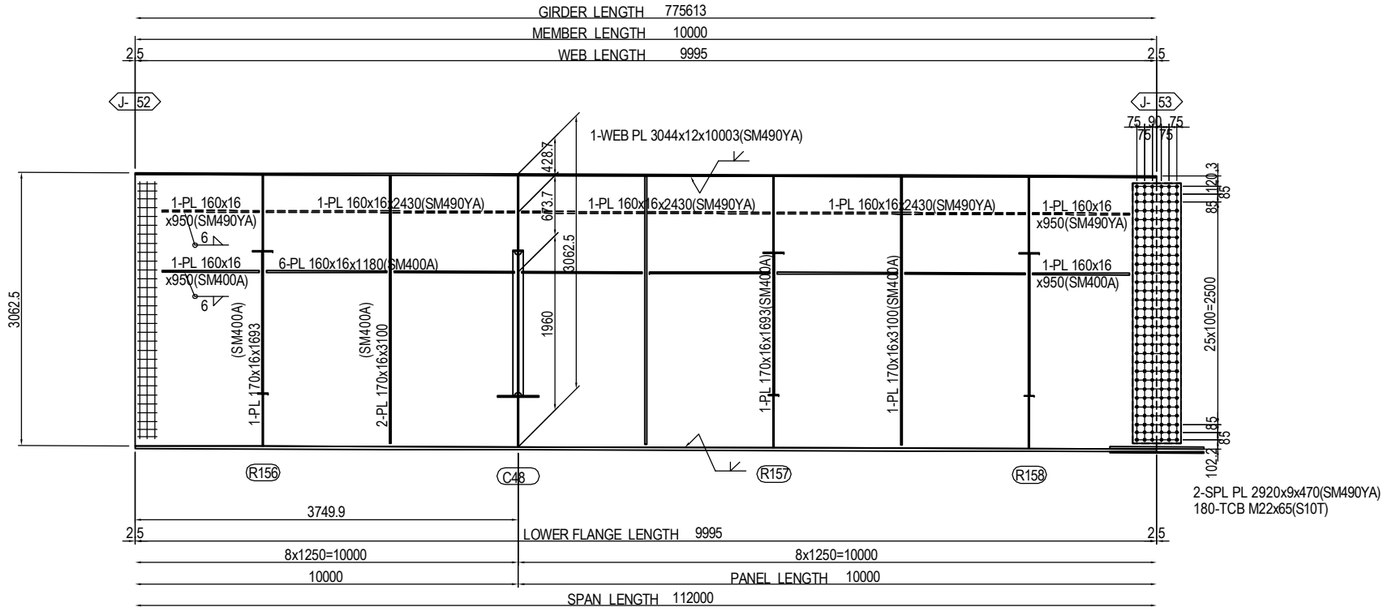
MARKING DIAGRAM



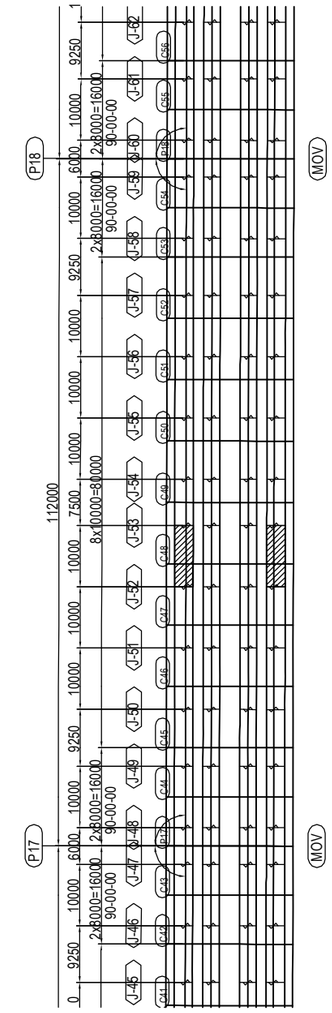
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
				NAME	SIGNATURE	DATE
				PREPARED BY		S. IMADA	15 Jun.2017
				CHECKED BY		T. HAYAKAWA	20 Jun.2017
				APPROVED BY		Y. SANO	21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (52)	2
	DWG No.
	P2-SB-1152

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (53) S=1:60



MARKING DIAGRAM



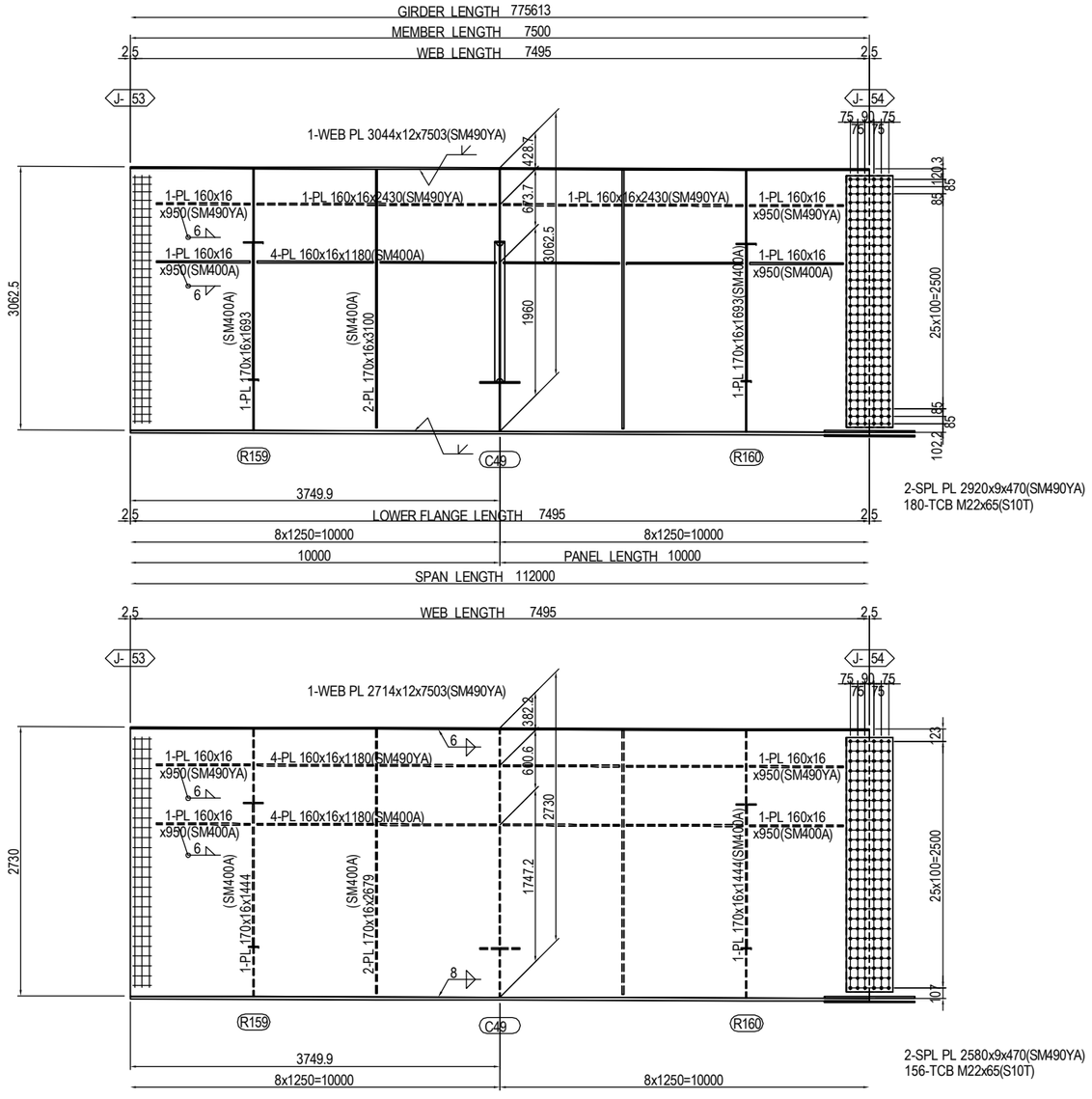
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
				NAME	SIGNATURE / DATE
				PREPARED BY	S. IMADA — 15 Jun.2017
				CHECKED BY	T. HAYAKAWA — 20 Jun.2017
				APPROVED BY	Y. SANO — 21 Jun.2017

DRAWING TITLE: DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (53)

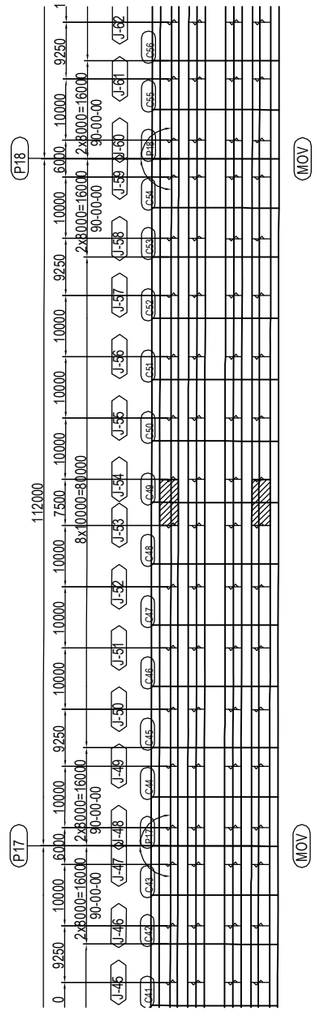
PACKAGE: 2

DWG No.: P2-SB-1153

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (54) S=1:60



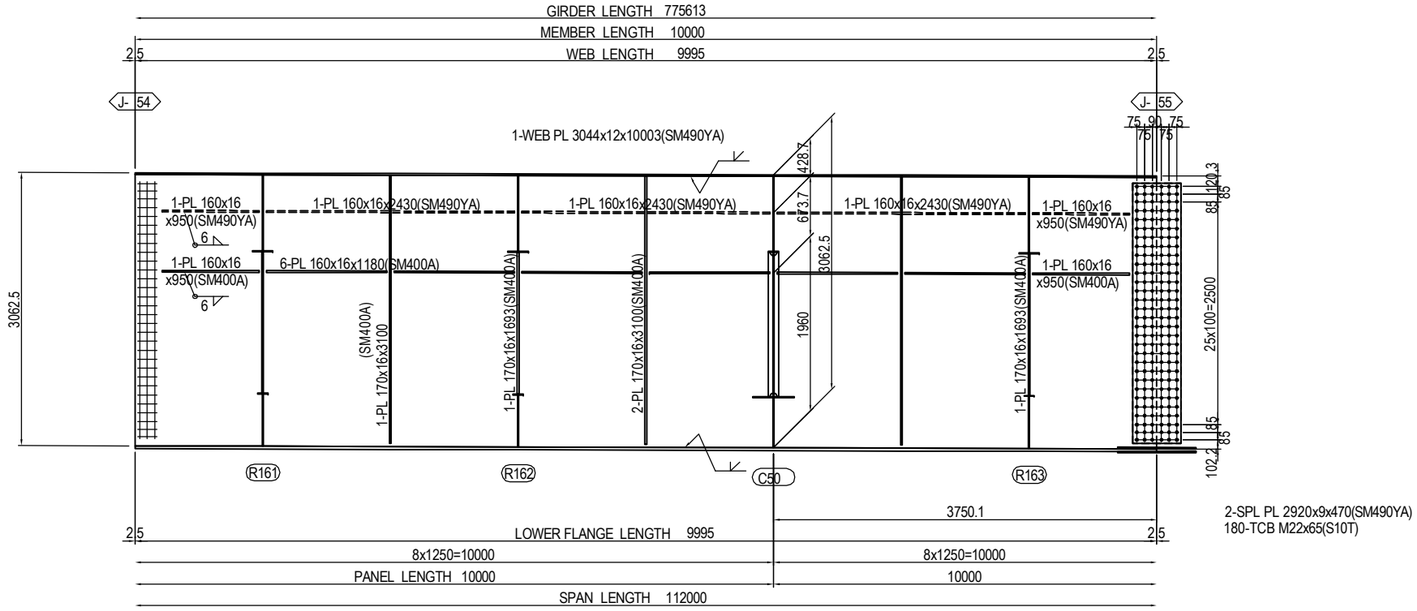
MARKING DIAGRAM



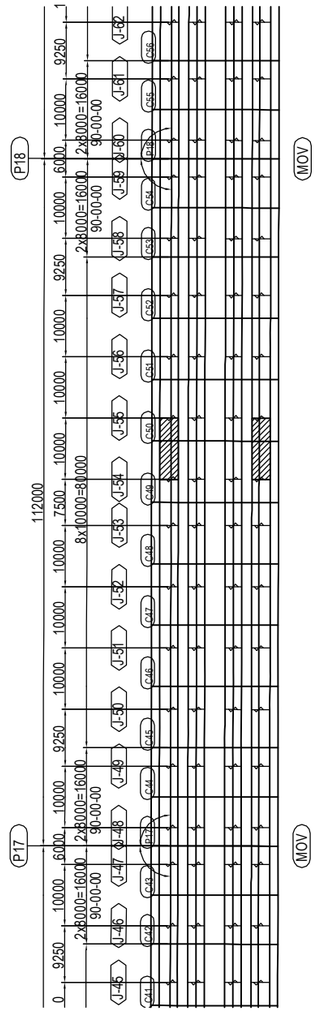
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (54)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1154

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (55) S=1:60



MARKING DIAGRAM

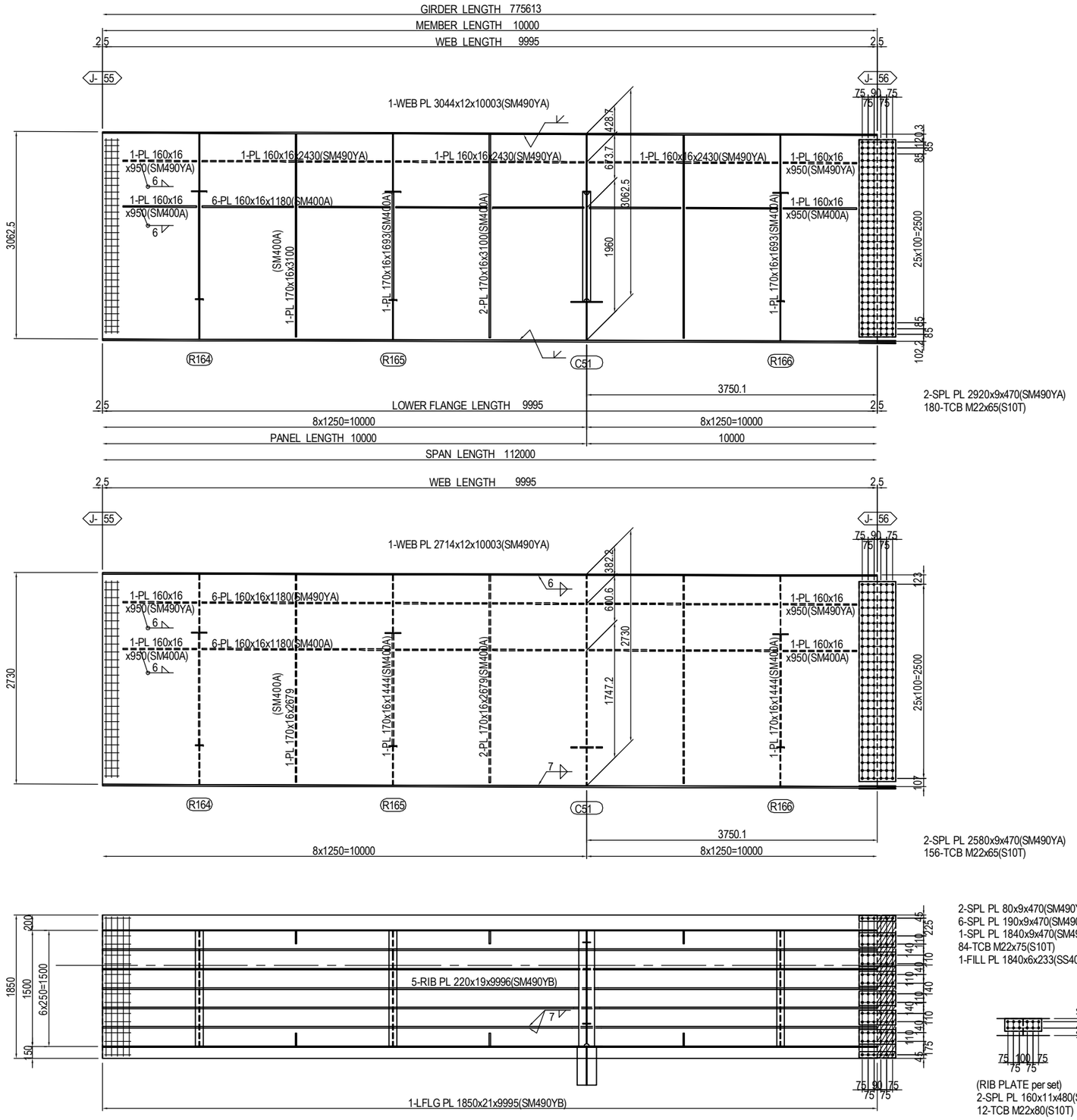


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

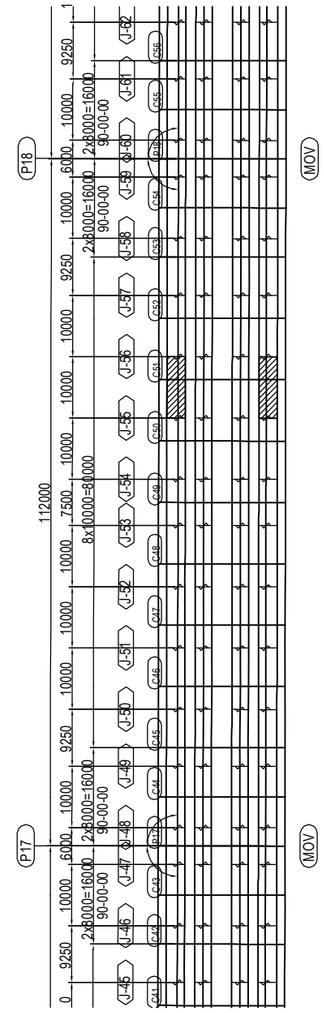
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (55)	2
	DWG No.
	P2-SB-1155

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (56) S=1:60



MARKING DIAGRAM

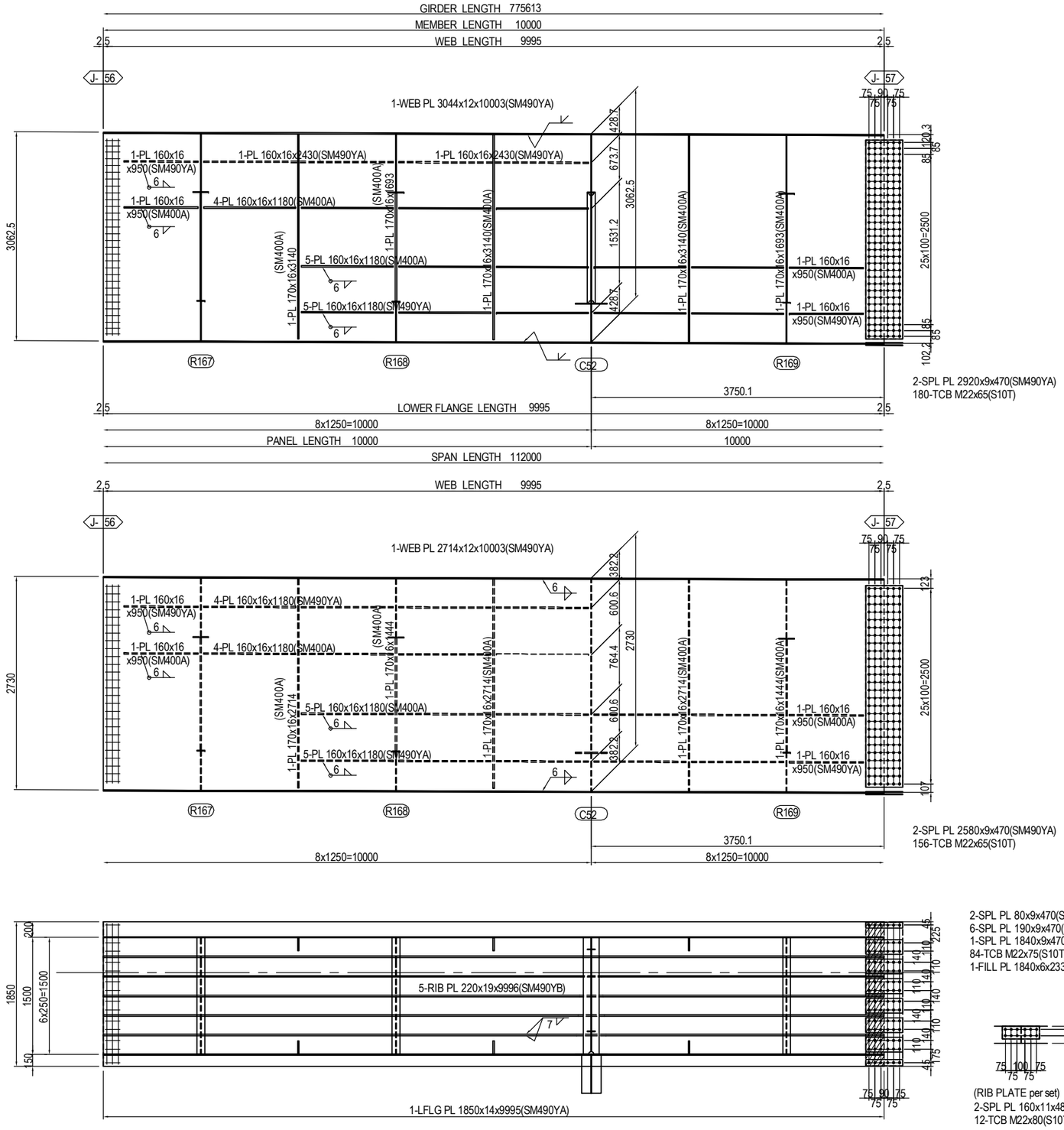


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

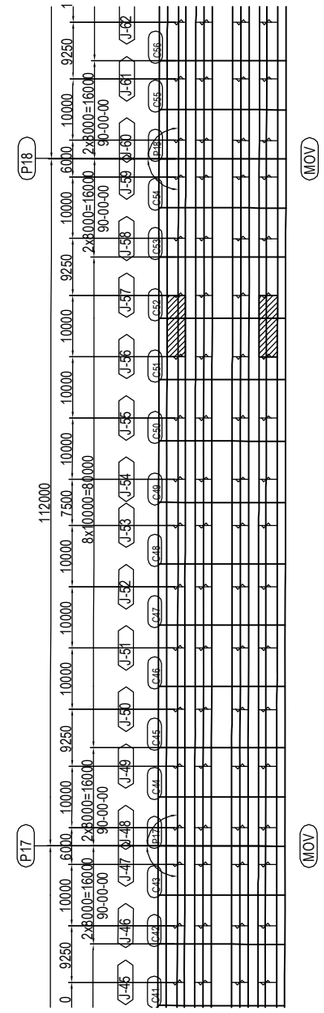
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (56)	2
	DWG No.
	P2-SB-1156

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (57) S=1:60



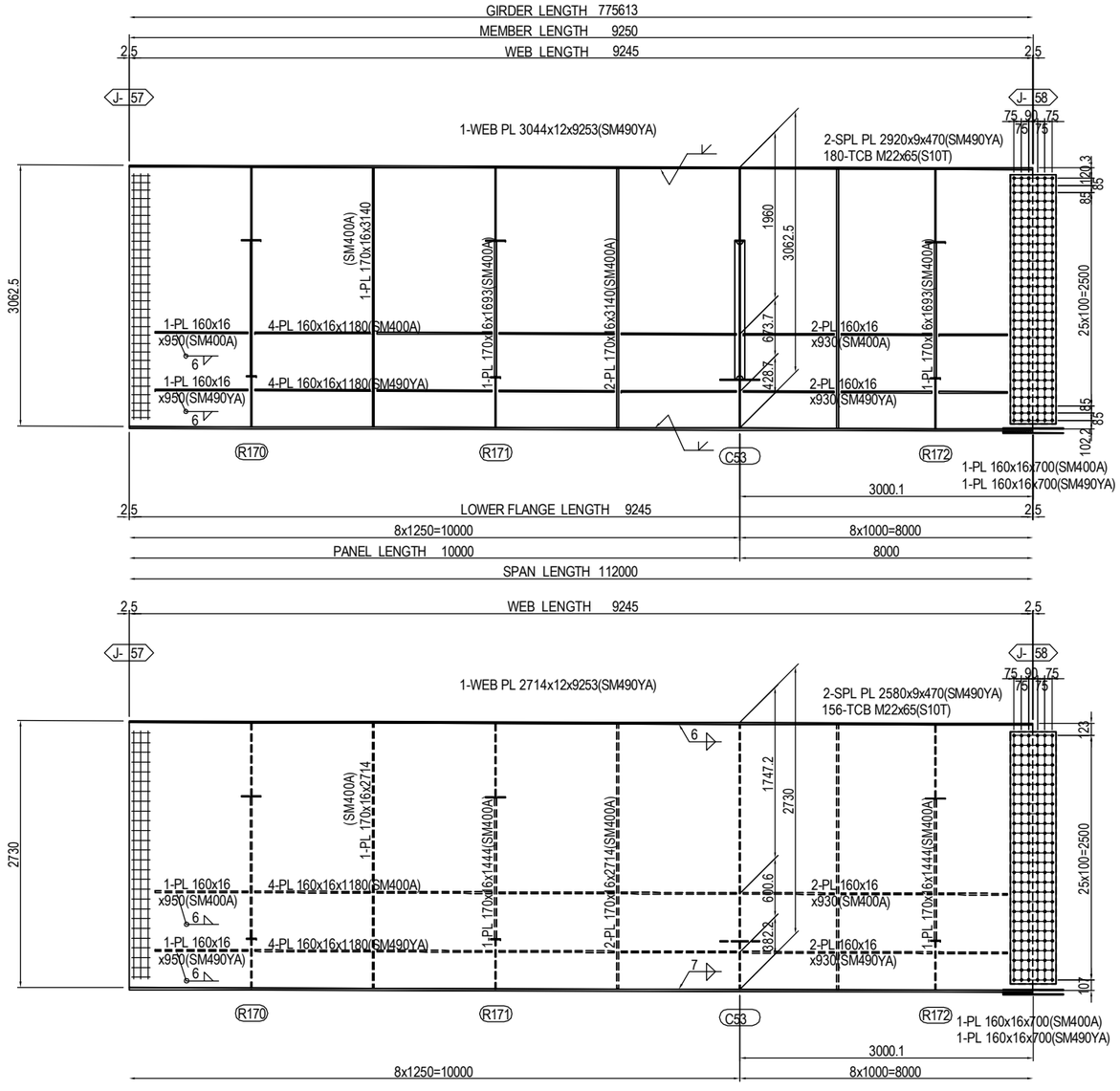
MARKING DIAGRAM



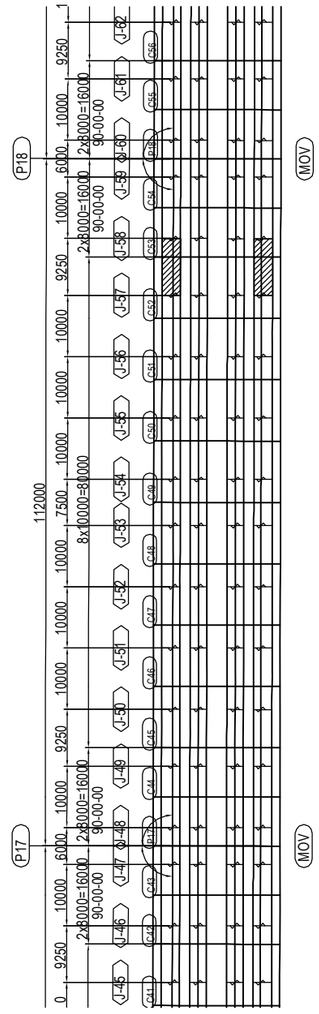
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (57)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1157

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (58) S=1:60



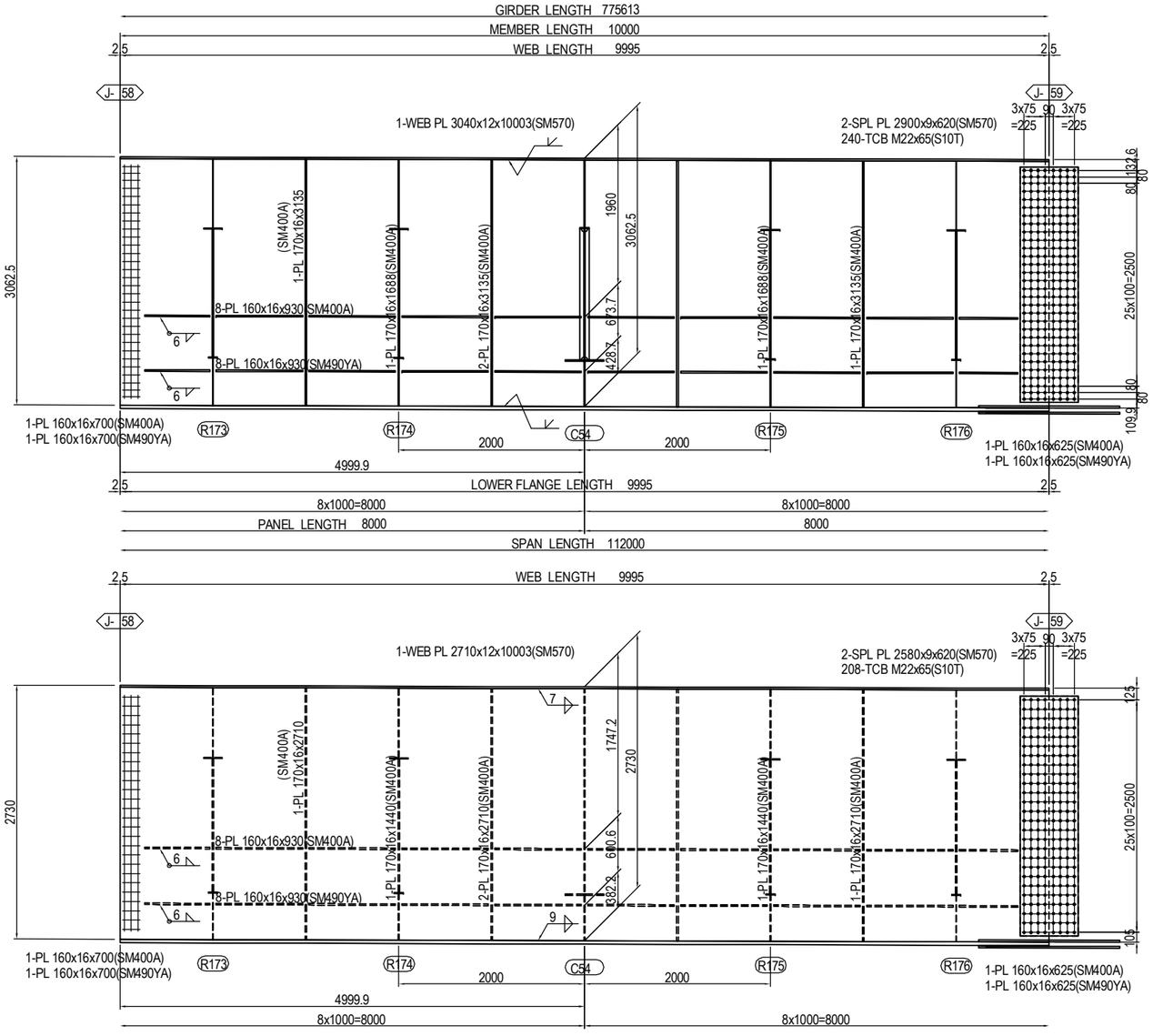
MARKING DIAGRAM

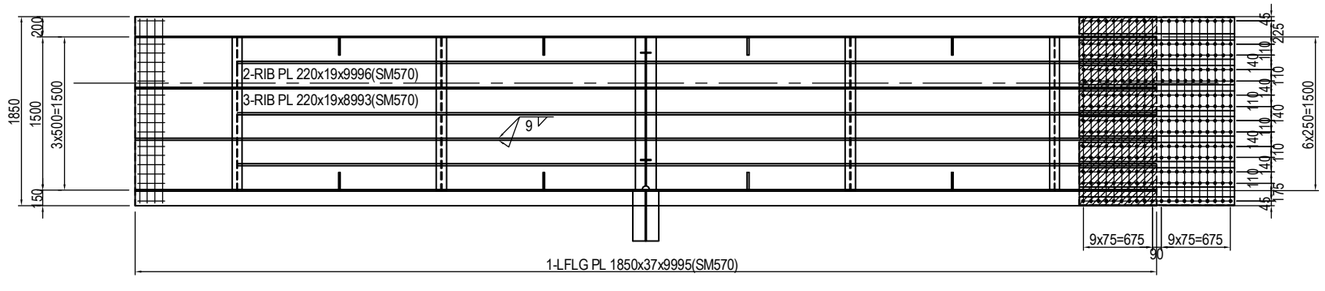


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

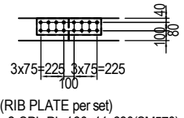
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (58)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1158

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (59) S=1:60



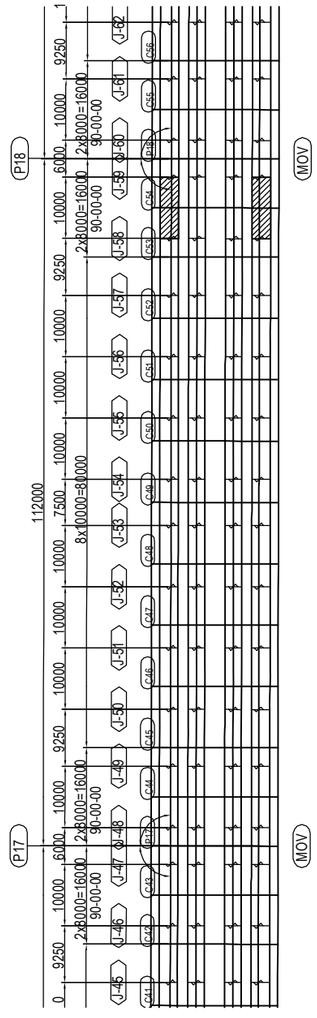


1-SPL PL 80x21x1520(SM570)
6-SPL PL 190x21x1520(SM570)
1-SPL PL 80x21x1520(SM570)
1-SPL PL 1840x15x1520(SM570)
280-TCB M22x110(S10T)
1-FILL PL 1840x2.3x758(SS400)



(RIB PLATE per set)
2-SPL PL 160x11x630(SM570)
16-TCB M22x80(S10T)

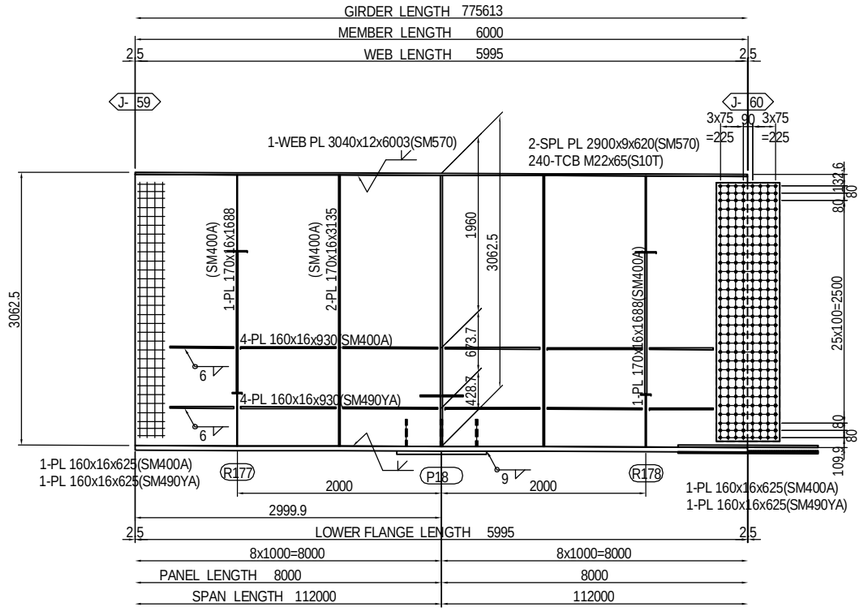
MARKING DIAGRAM

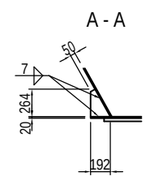


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

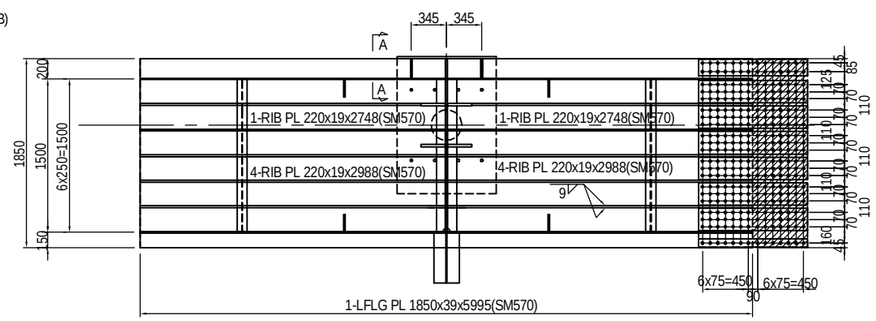
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (59)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1159

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (60) S=1:60

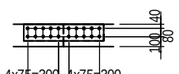




3-RIB PL 192x19x264(SM490YB)

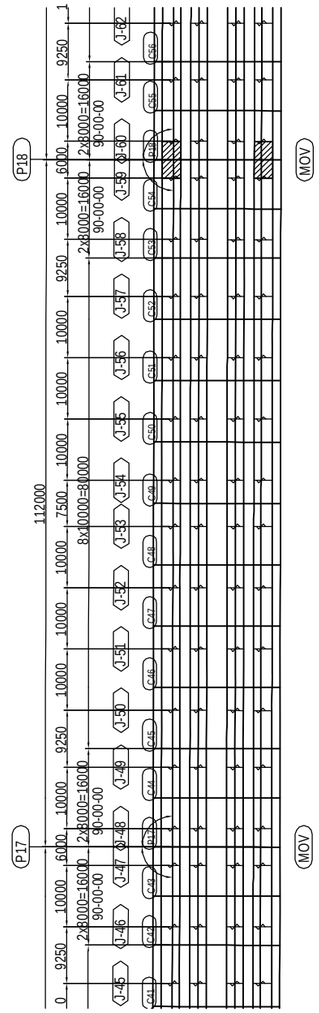


1-SPL PL 165x22x1070(SM570)
6-SPL PL 220x22x1070(SM570)
1-SPL PL 80x22x1070(SM570)
1-SPL PL 1840x16x1070(SM570)
294-TCB M22x115(S10T)
1-FILL PL 1840x6x533(SS400)



(RIB PLATE per set)
2-SPL PL 160x11x780(SM570)
20-TCB M22x80(S10T)

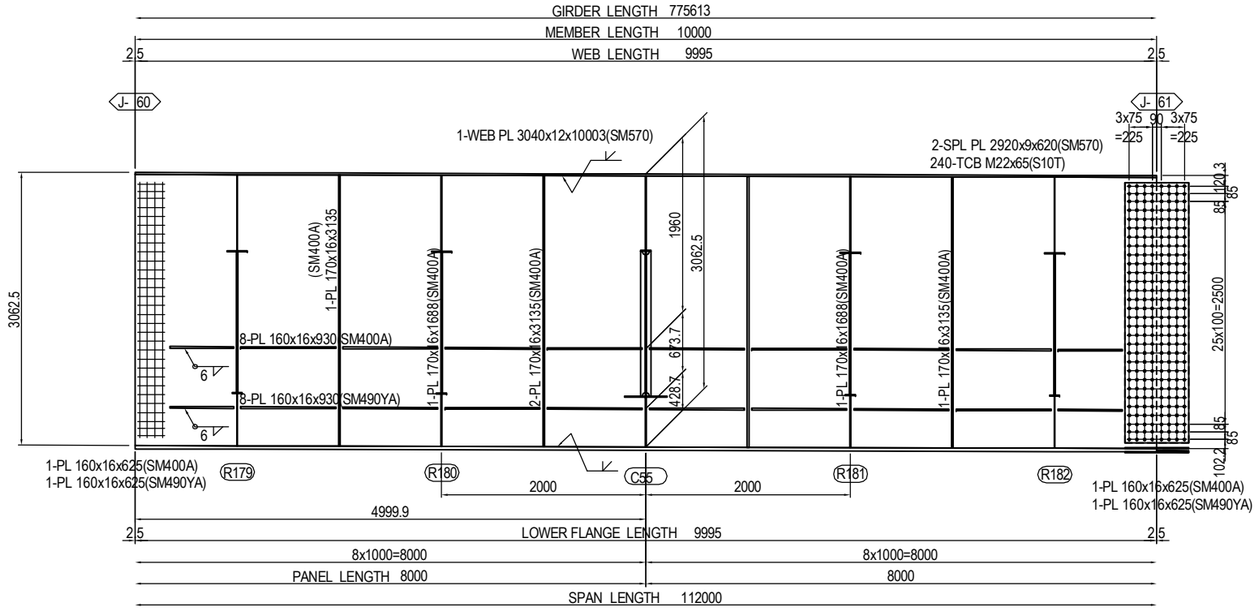
MARKING DIAGRAM

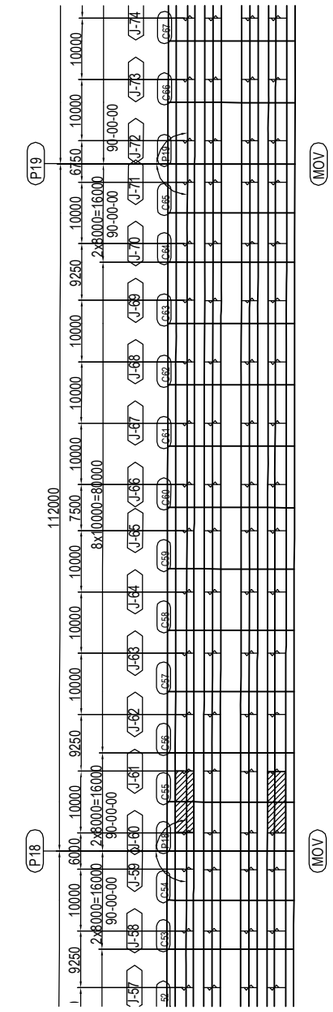


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (60)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1160

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (61) S=1:60





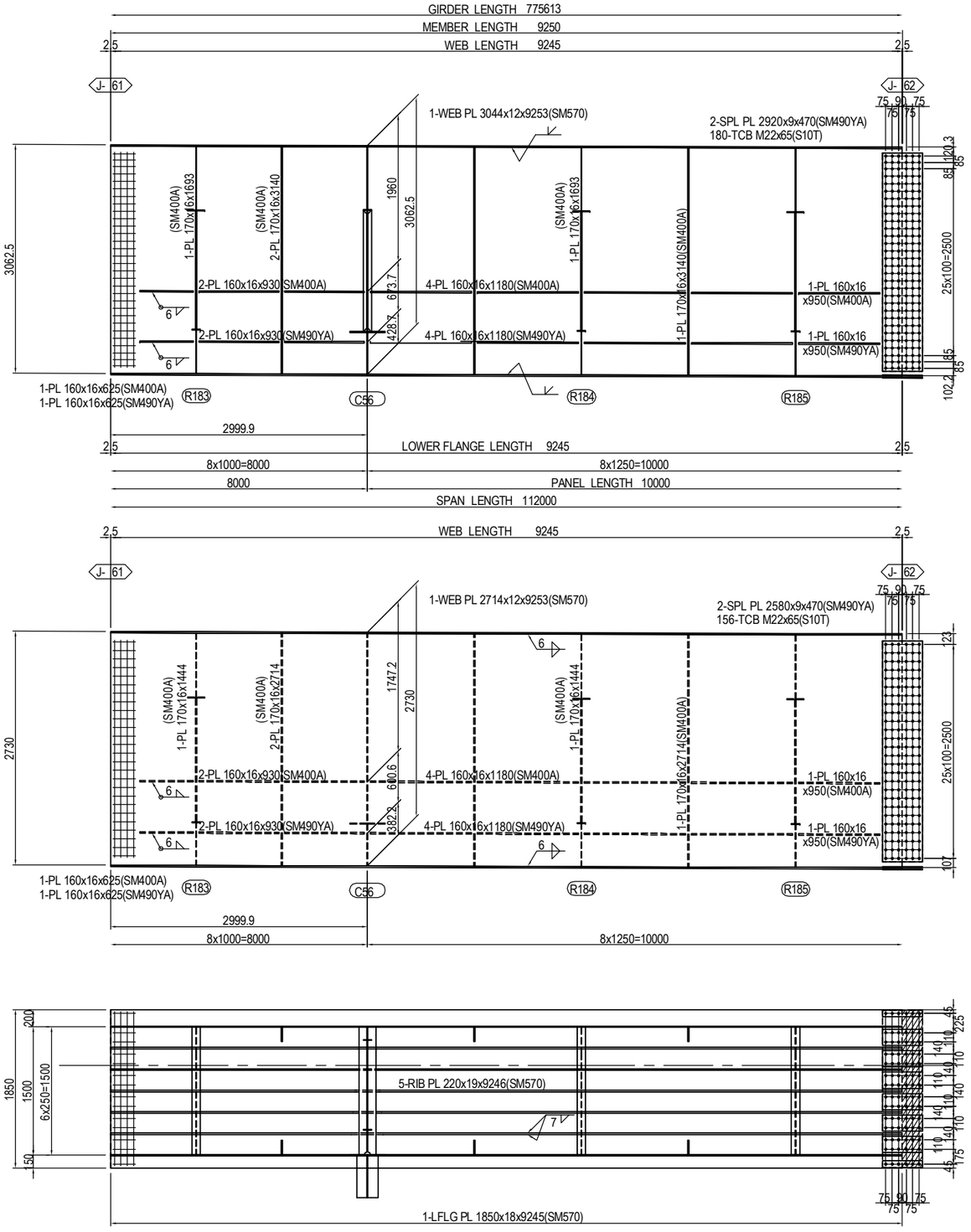
2-SPL PL 80x9x620(SM570)
6-SPL PL 190x9x620(SM570)
1-SPL PL 1840x9x620(SM570)
112-TCB M22x90(S10T)
1-FILL PL 1840x15x308(SS400)

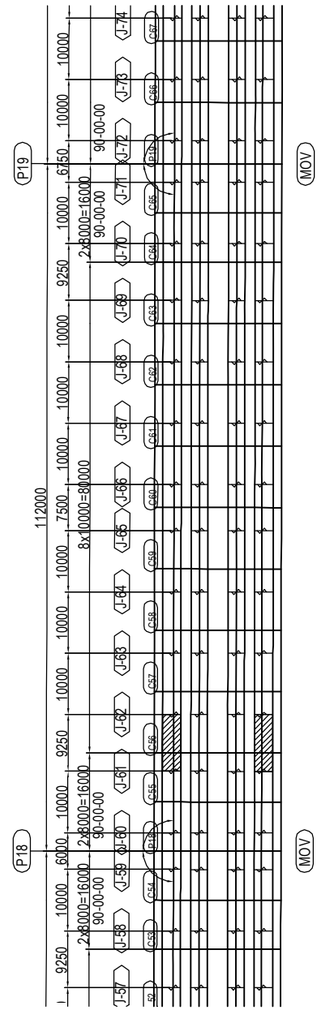
(RIB PLATE per set)
2-SPL PL 160x9x630(SM570)
16-TCB M22x75(S10T)

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			

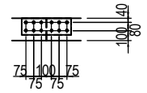
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (61)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1161

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (62) S=1:60





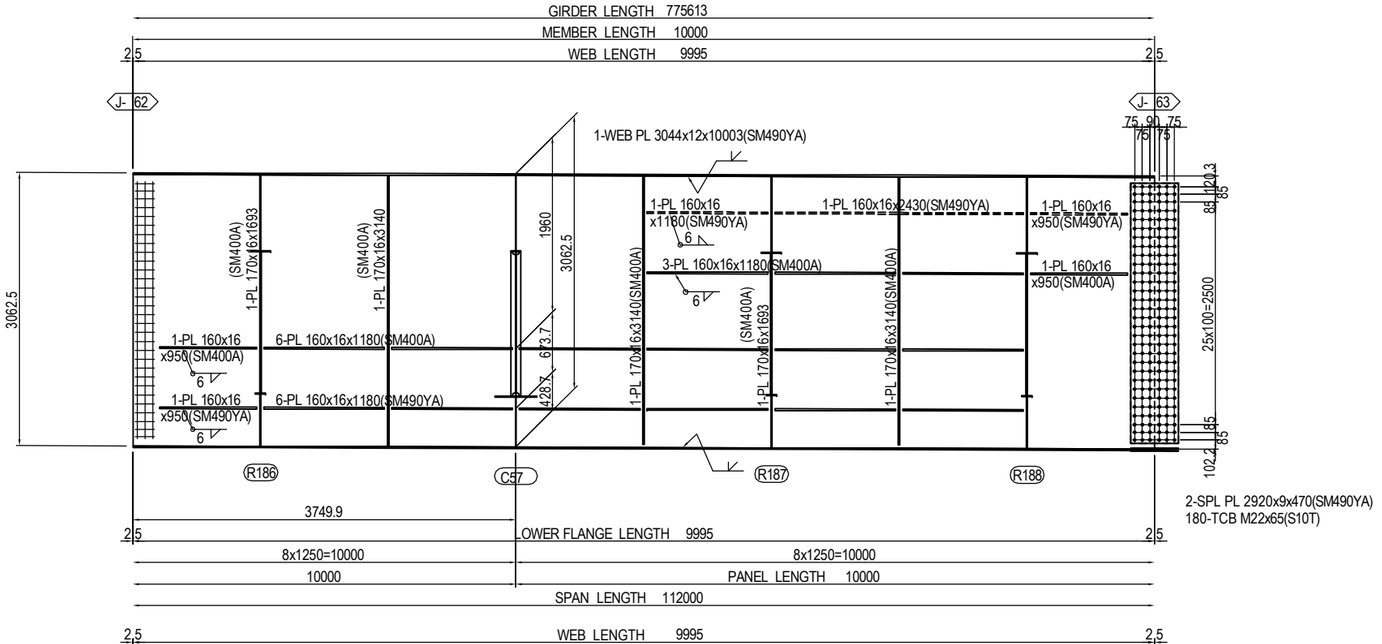
2-SPL PL 80x9x470(SM490YA)
6-SPL PL 190x9x470(SM490YA)
1-SPL PL 1840x9x470(SM490YA)
84-TCB M22x75(S10T)
1-FILL PL 1840x4.5x233(SS400)



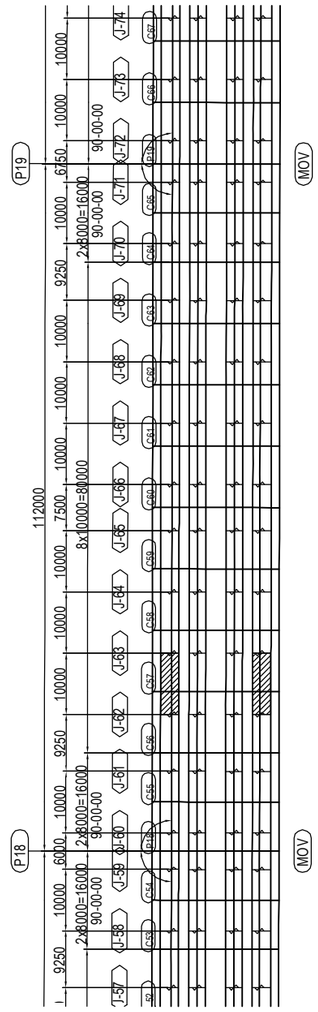
(RIB PLATE per set)
2-SPL PL 160x11x480(SM490YA)
12-TCB M22x80(S10T)

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (62)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1162

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (63) S=1:60



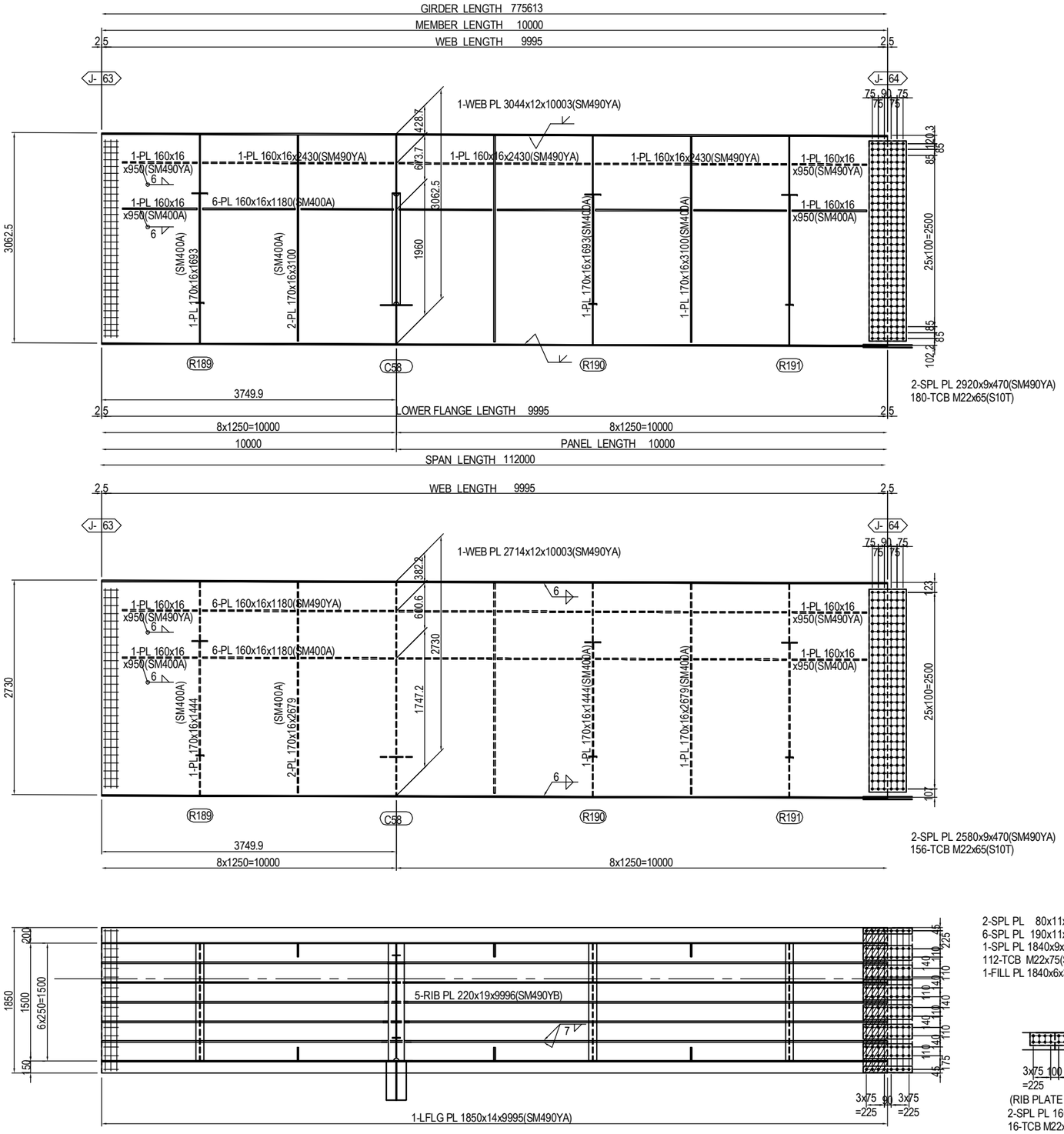
MARKING DIAGRAM



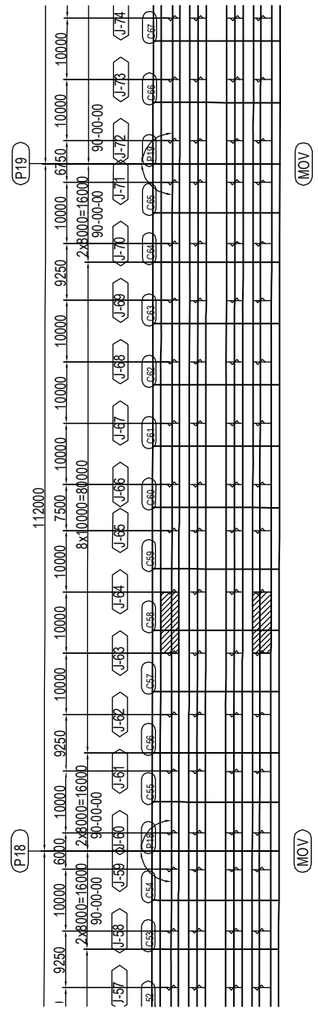
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (63)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1163

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (64) S=1:60

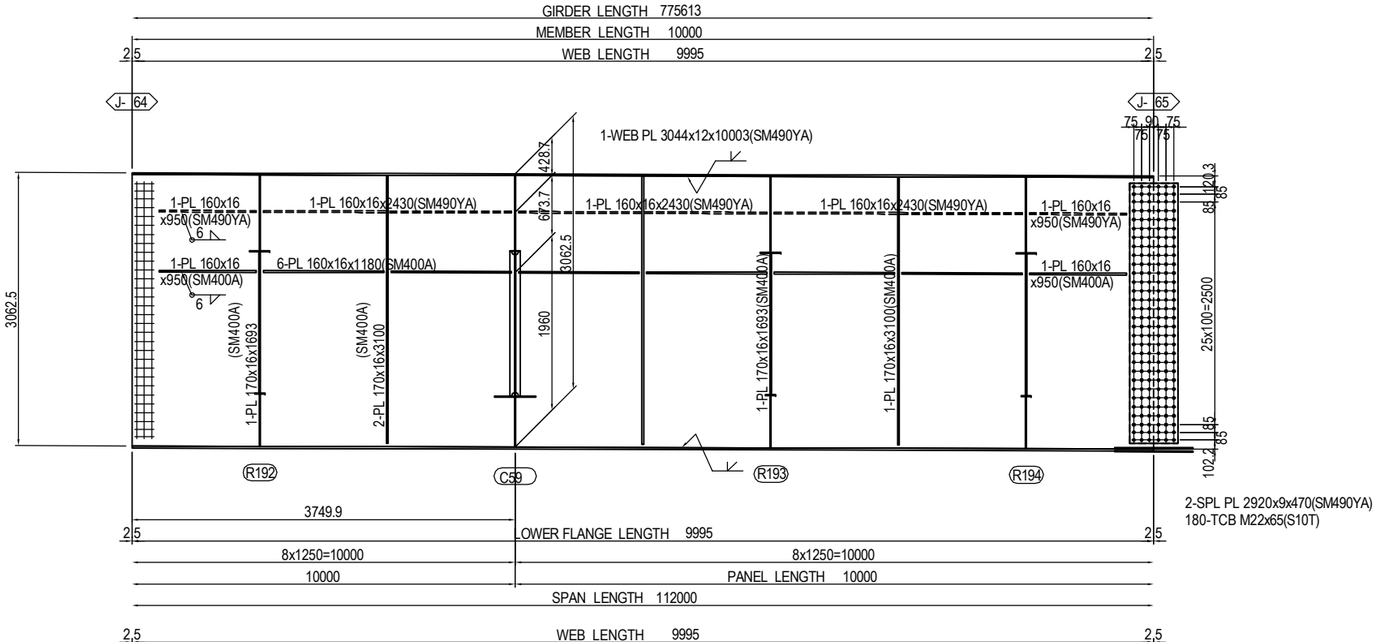


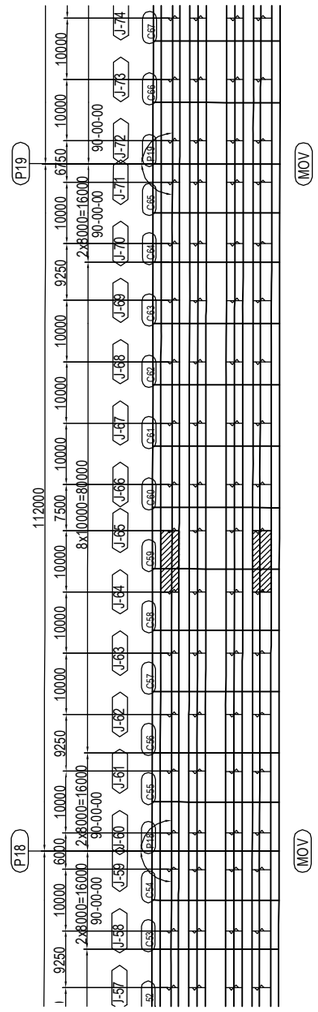
MARKING DIAGRAM



PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (64)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1164

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (65) S=1:60



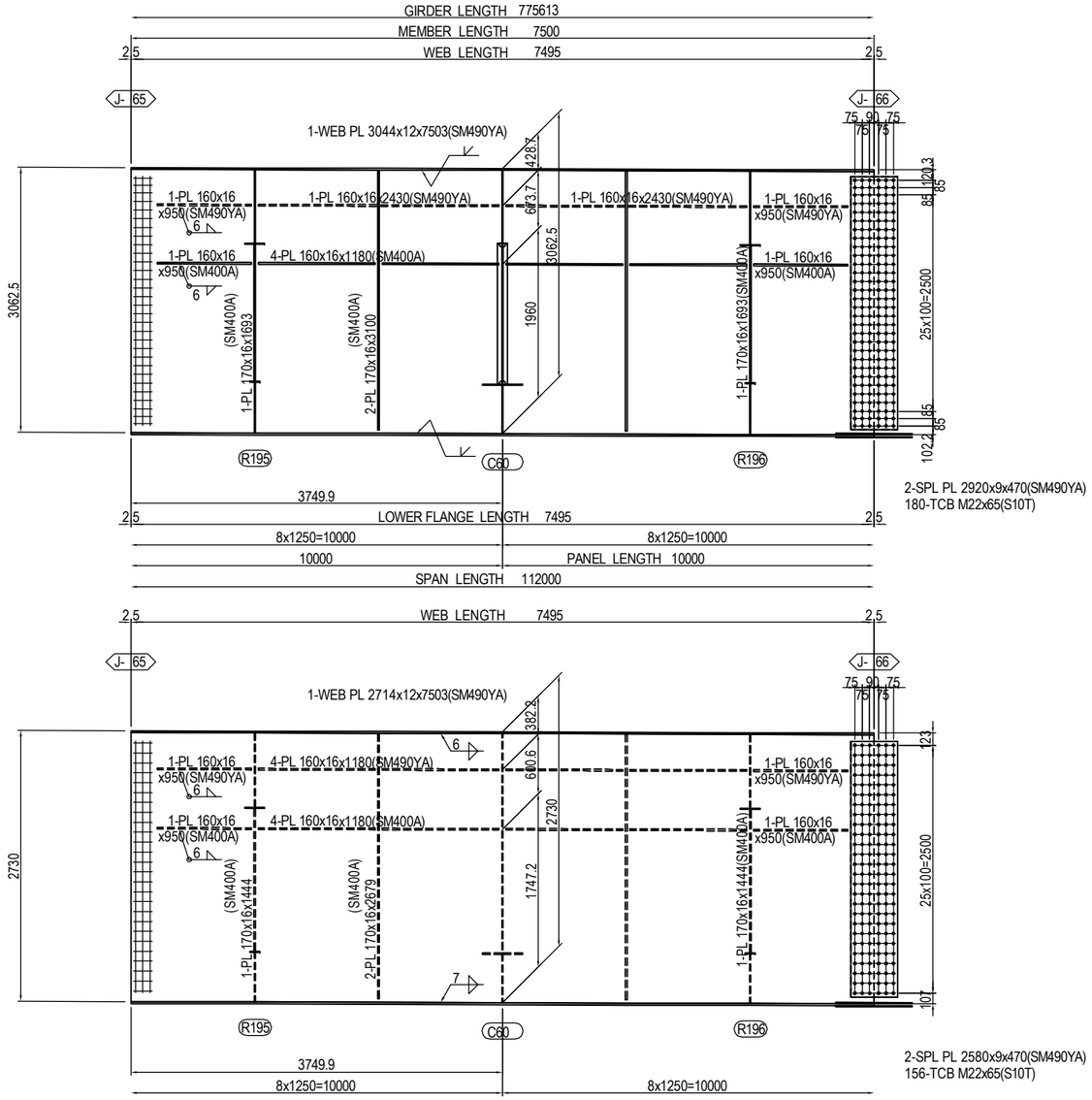


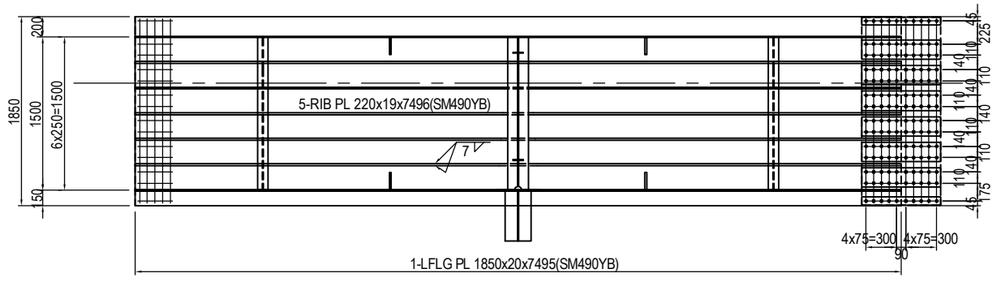
2-SPL PL 80x15x770(SM490YA)
6-SPL PL 190x15x770(SM490YA)
1-SPL PL 1840x9x770(SM490YA)
140-TCB M22x80(S10T)

3x75 100 3x75
=225 =225
(RIB PLATE per set)
2-SPL PL 160x14x630(SM490YA)
16-TCB M22x85(S10T)

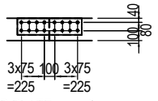
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (65)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1165

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (66) S=1:60



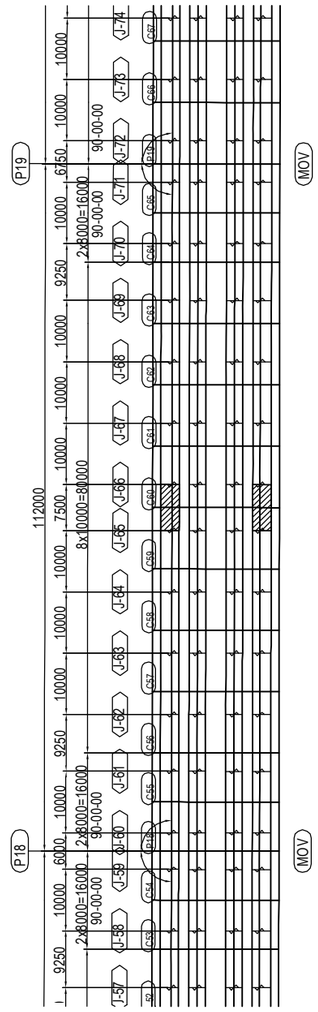


2-SPL PL 80x14x770(SM490YA)
6-SPL PL 190x14x770(SM490YA)
1-SPL PL 1840x9x770(SM490YA)
140-TCB M22x80(S10T)



(RIB PLATE per set)
2-SPL PL 160x14x630(SM490YA)
16-TCB M22x85(S10T)

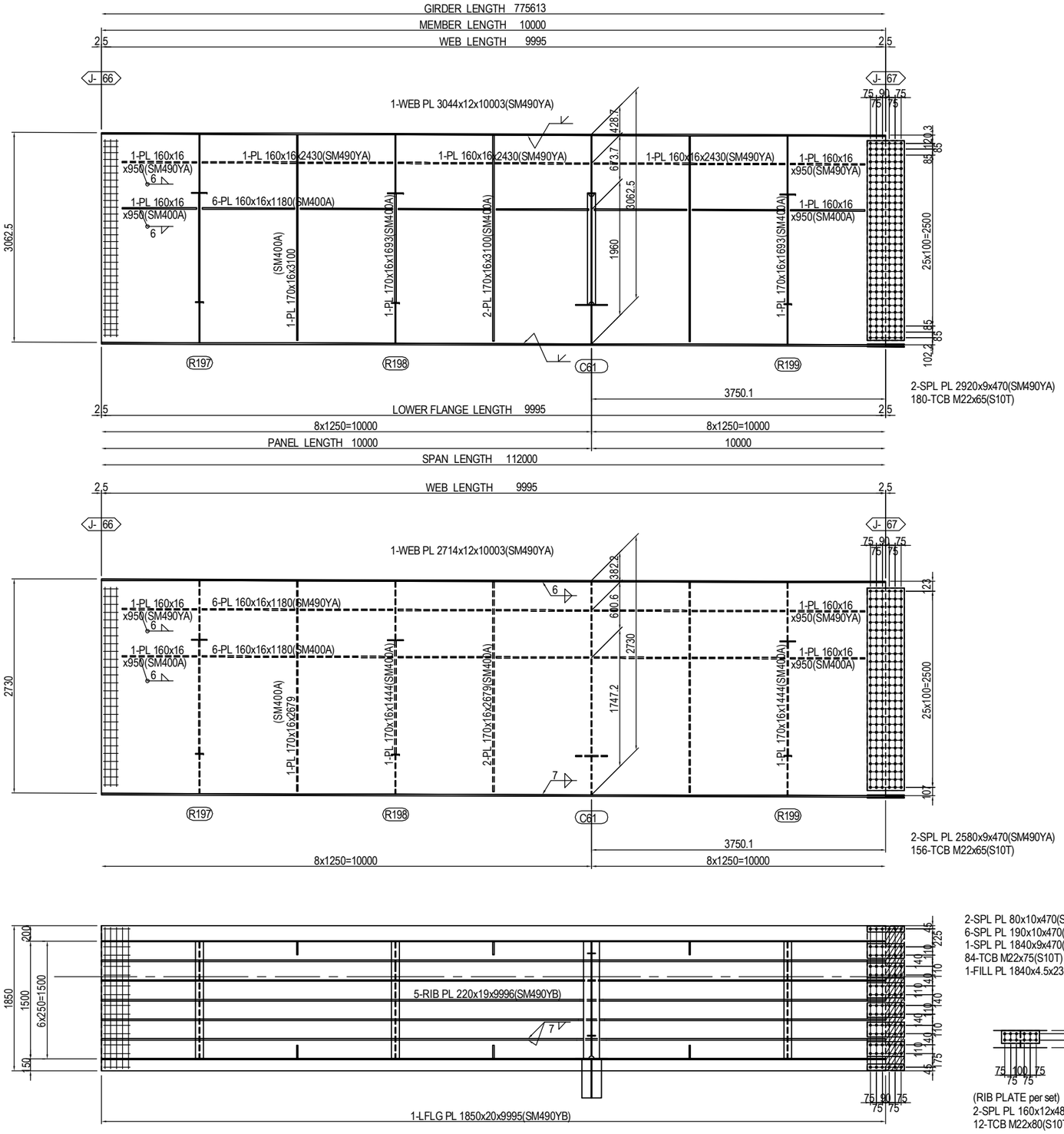
MARKING DIAGRAM



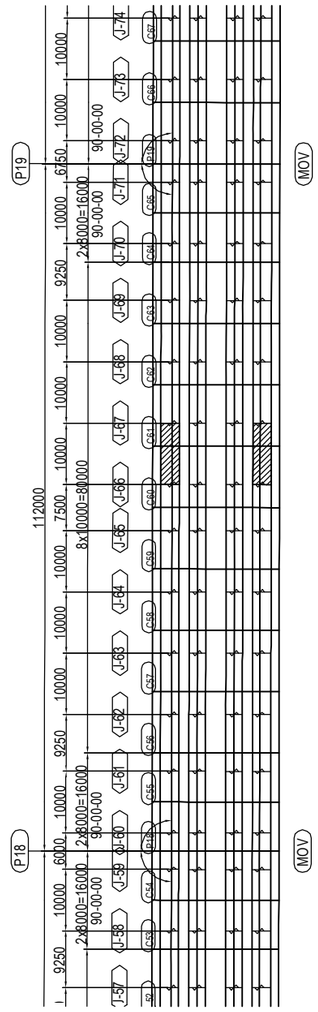
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (66)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1166

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (67) S=1:60



MARKING DIAGRAM

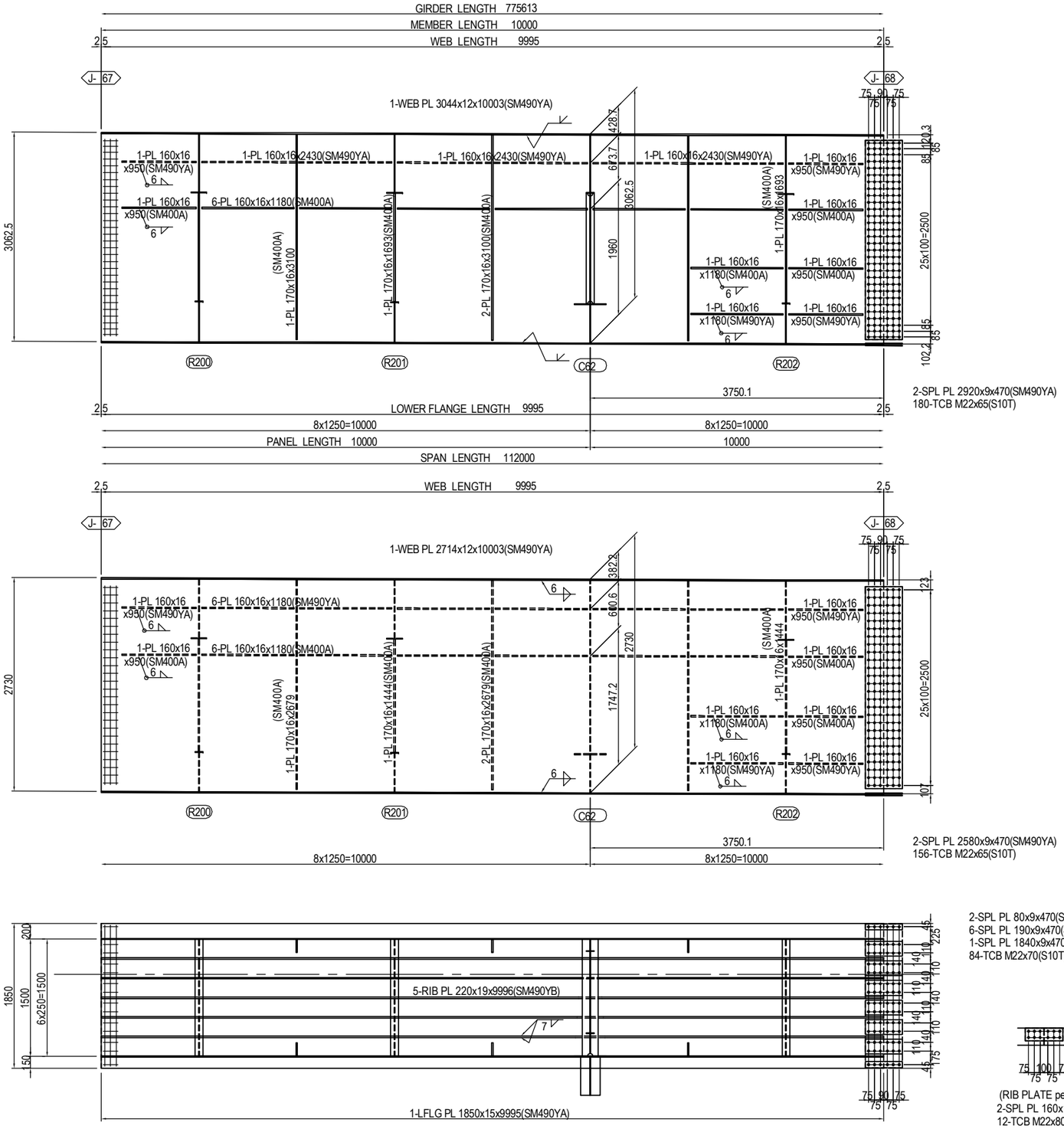


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

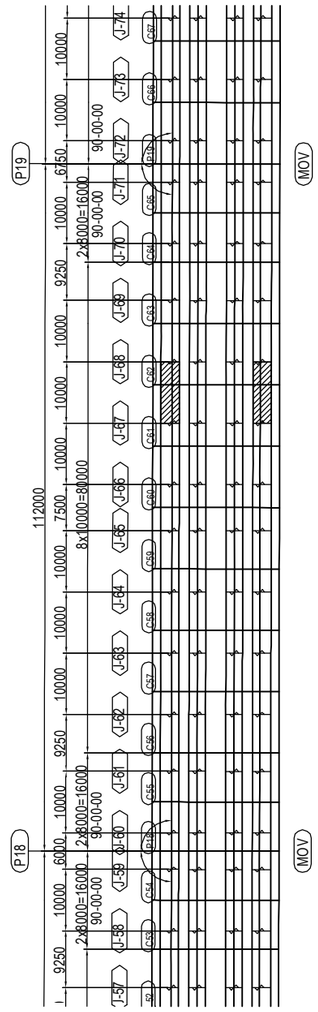
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (67)	2
	DWG No.
	P2-SB-1167

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (68) S=1:60



MARKING DIAGRAM

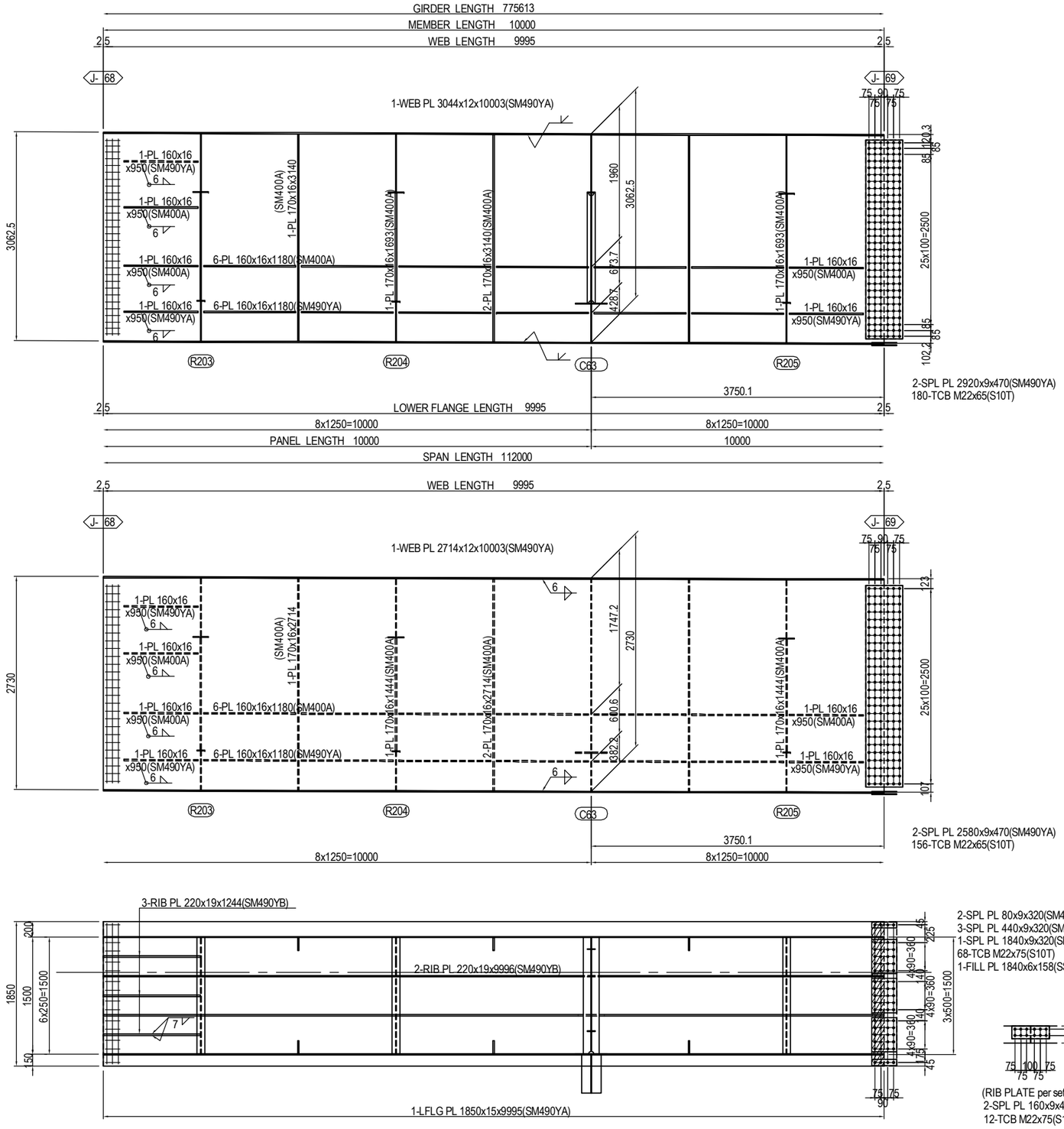


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

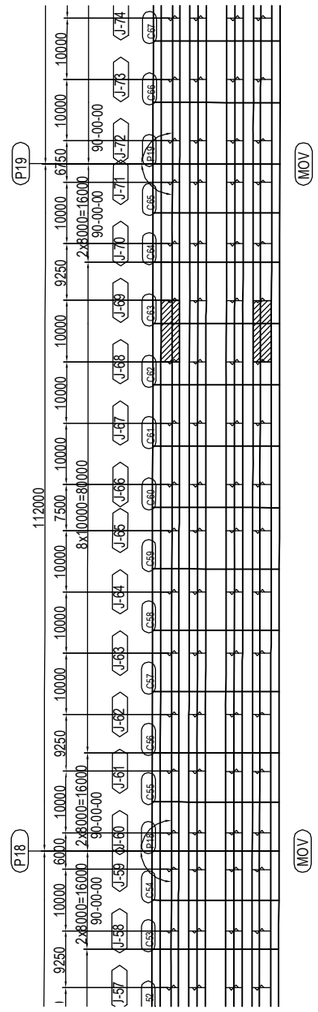
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (68)	2
	DWG No.
	P2-SB-1168

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (69) S=1:60



MARKING DIAGRAM

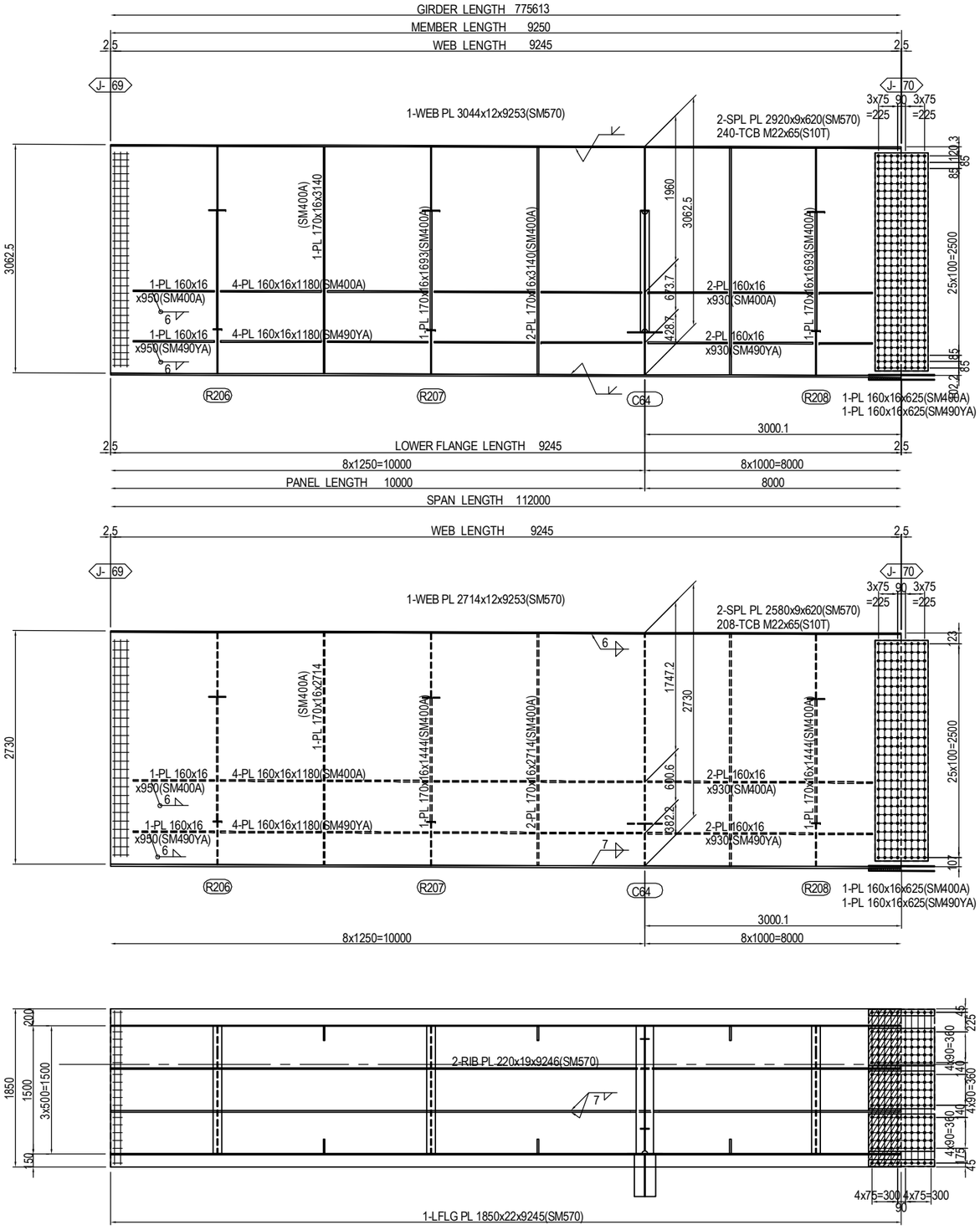


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (69)	2
	DWG No.
	P2-SB-1169

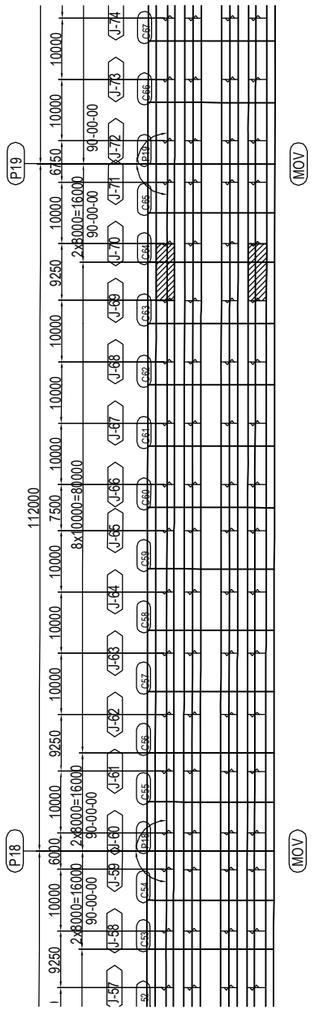
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (70) S=1:60



2-SPL PL 80x12x770(SM570)
3-SPL PL 440x12x770(SM570)
1-SPL PL 1840x9x770(SM570)
170-TCB M22x100(S10T)
1-FILL PL 1840x22x383(SS400)

(RIB PLATE per set)
2-SPL PL 160x11x780(SM570)
20-TCB M22x80(S10T)

MARKING DIAGRAM

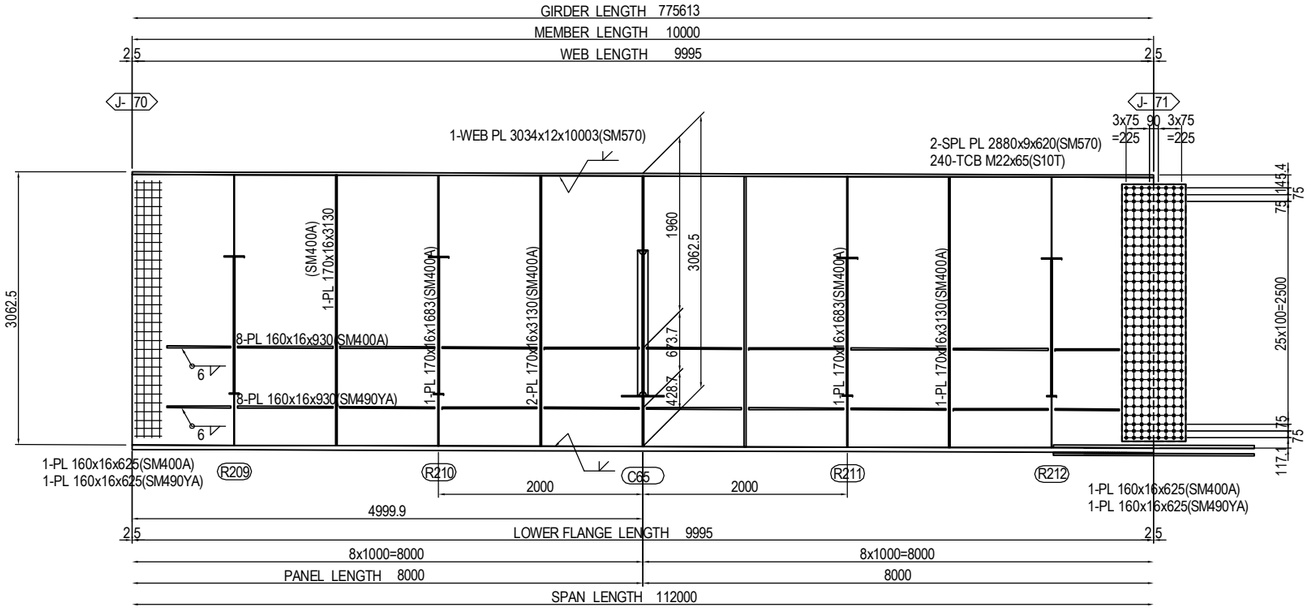


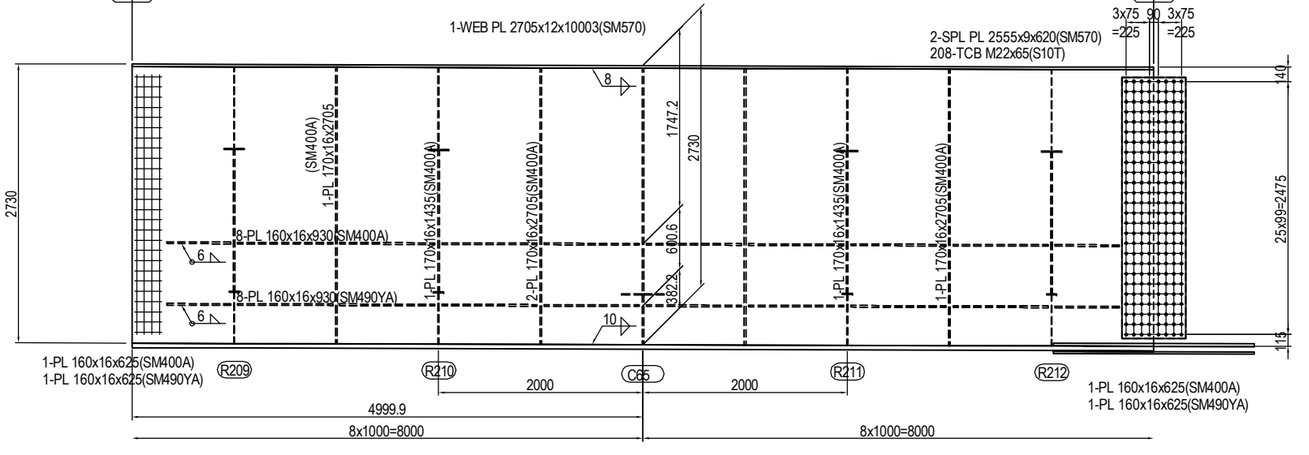
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

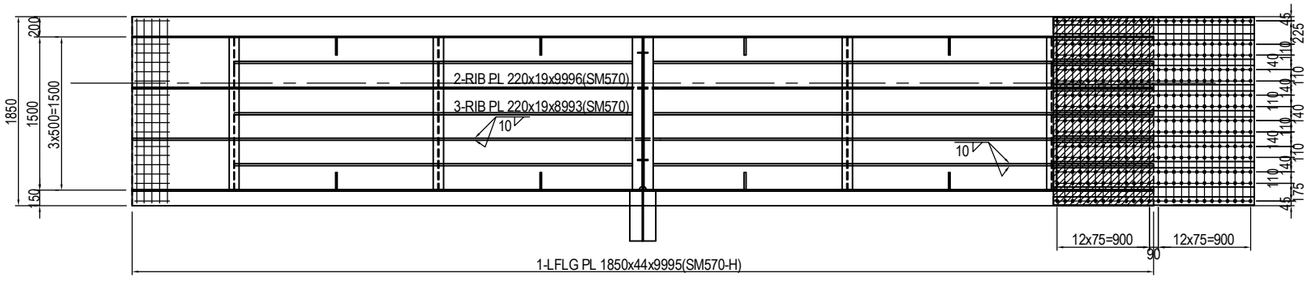
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (70)	2
	DWG No.
	P2-SB-1170

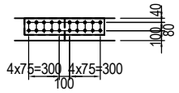
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (71) S=1:60





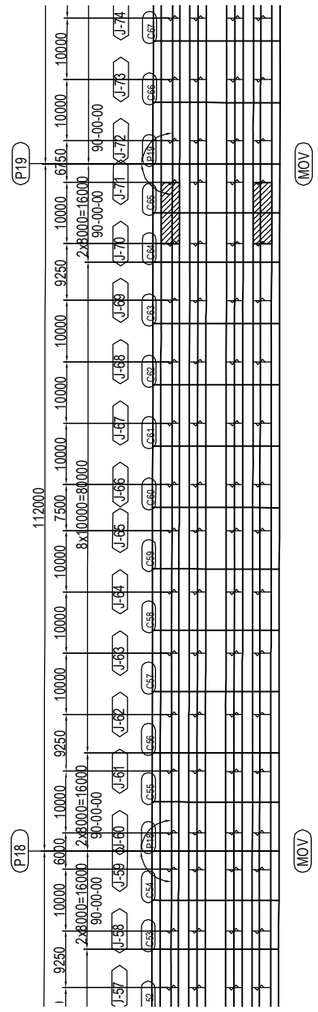


1-SPL PL 80x26x1970(SM570)
6-SPL PL 190x26x1970(SM570)
1-SPL PL 80x26x1970(SM570)
1-SPL PL 1840x19x1970(SM570)
364-TCB M22x130(S10T)
1-FILL PL 1840x6x983(SS400)



(RIB PLATE per set)
2-SPL PL 160x11x780(SM570)
20-TCB M22x80(S10T)

MARKING DIAGRAM

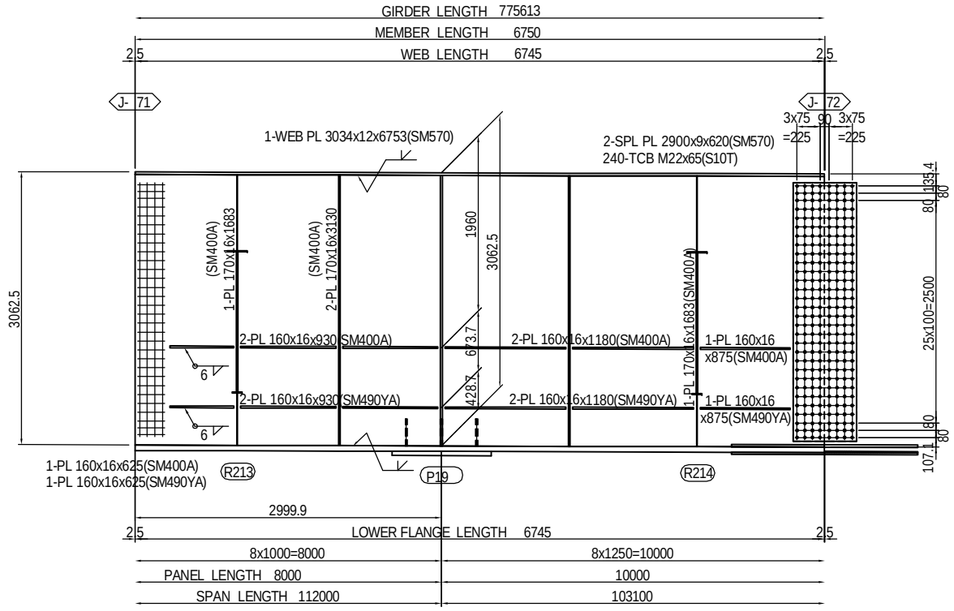


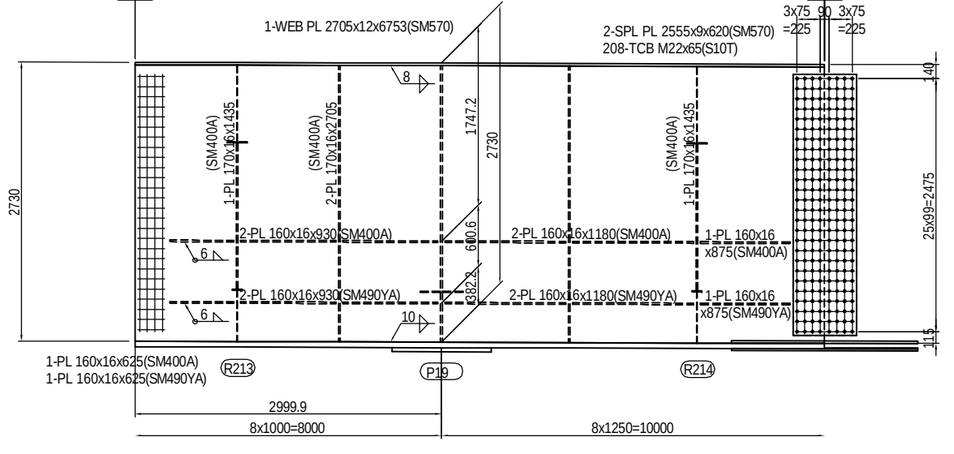
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

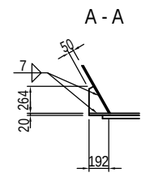
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (71)	2
	DWG No.
	P2-SB-1171

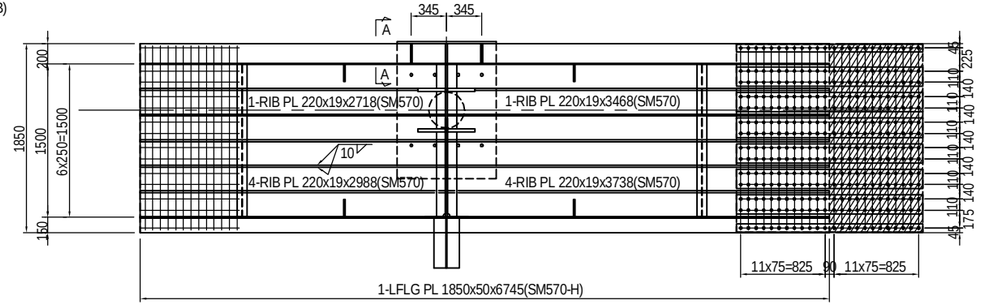
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (72) S=1:60



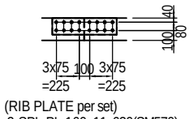




3-RIB PL 192x19x264(SM490YB)

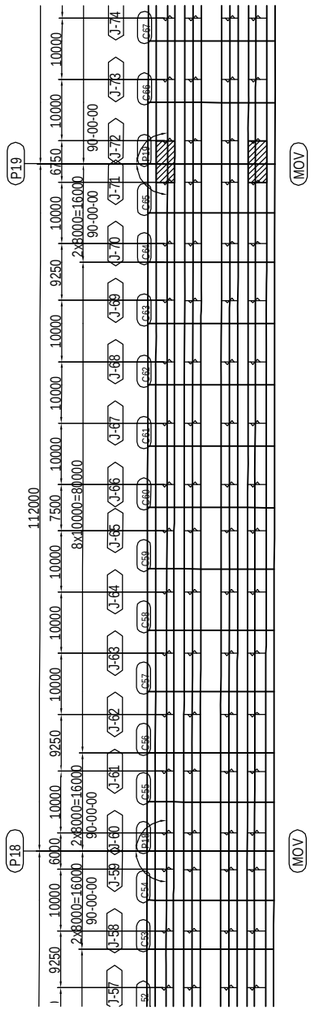


2-SPL PL 80x24x1820(SM570)
6-SPL PL 190x24x1820(SM570)
1-SPL PL 1840x17x1820(SM570)
336-TCB M22x130(S10T)
1-FILL PL 1840x8x908(SS400)



(RIB PLATE per set)
2-SPL PL 160x11x630(SM570)
16-TCB M22x80(S10T)

MARKING DIAGRAM

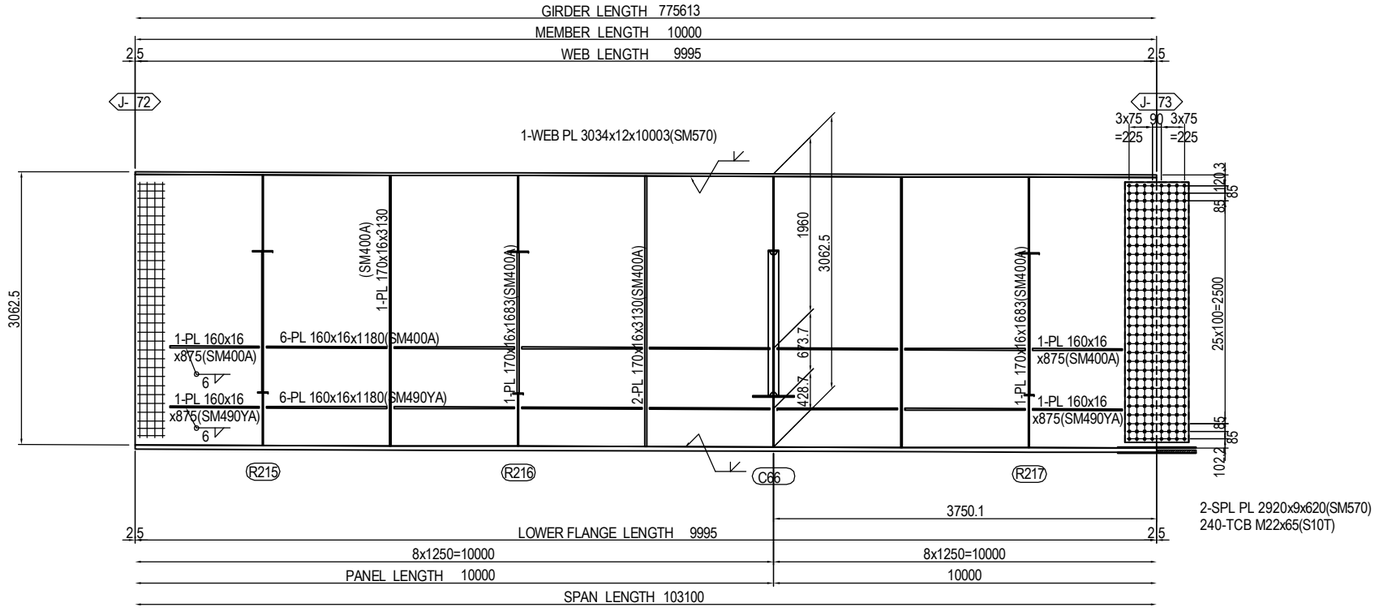


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

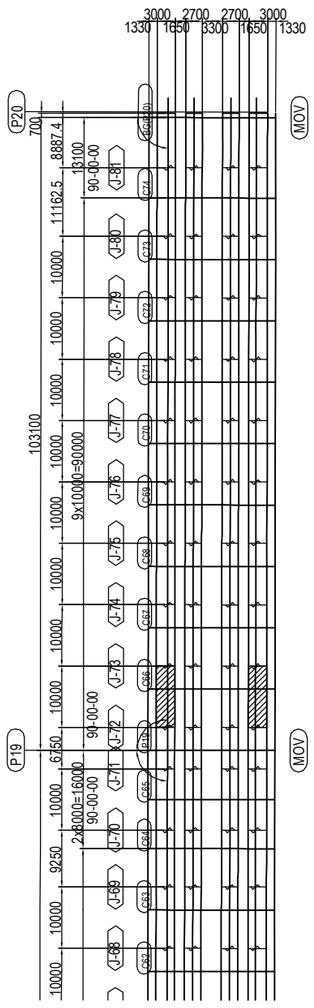
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (72)	2
	DWG No.
	P2-SB-1172

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (73) S=1:60



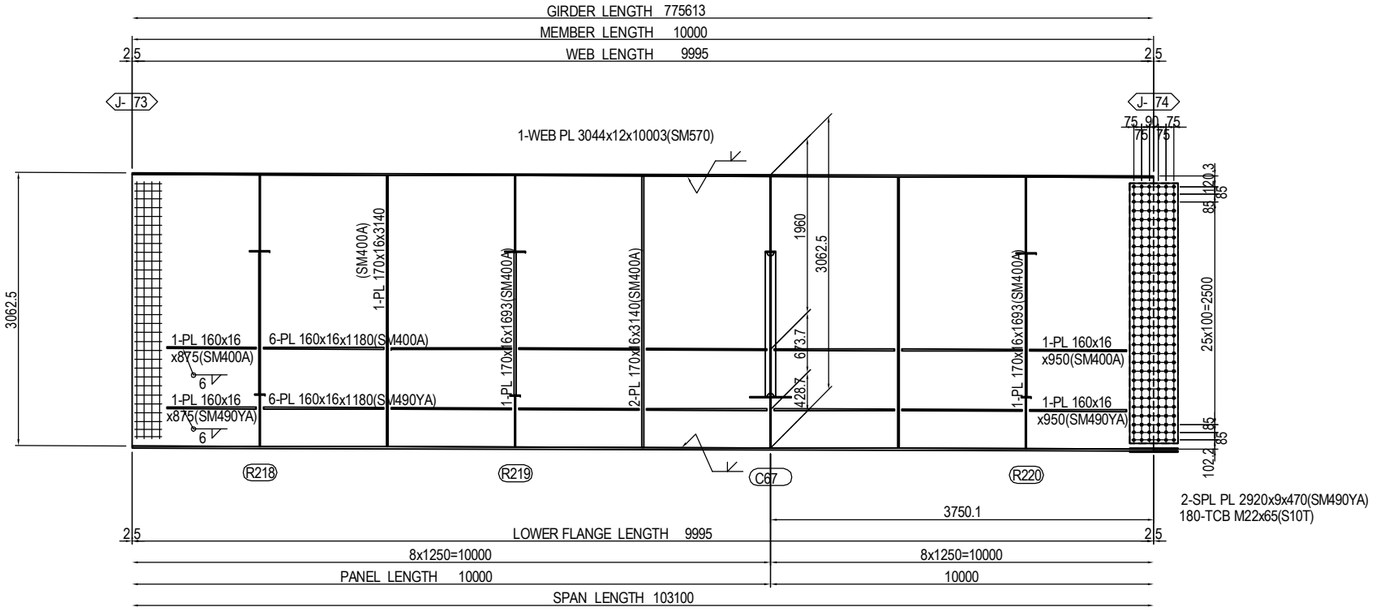
MARKING DIAGRAM

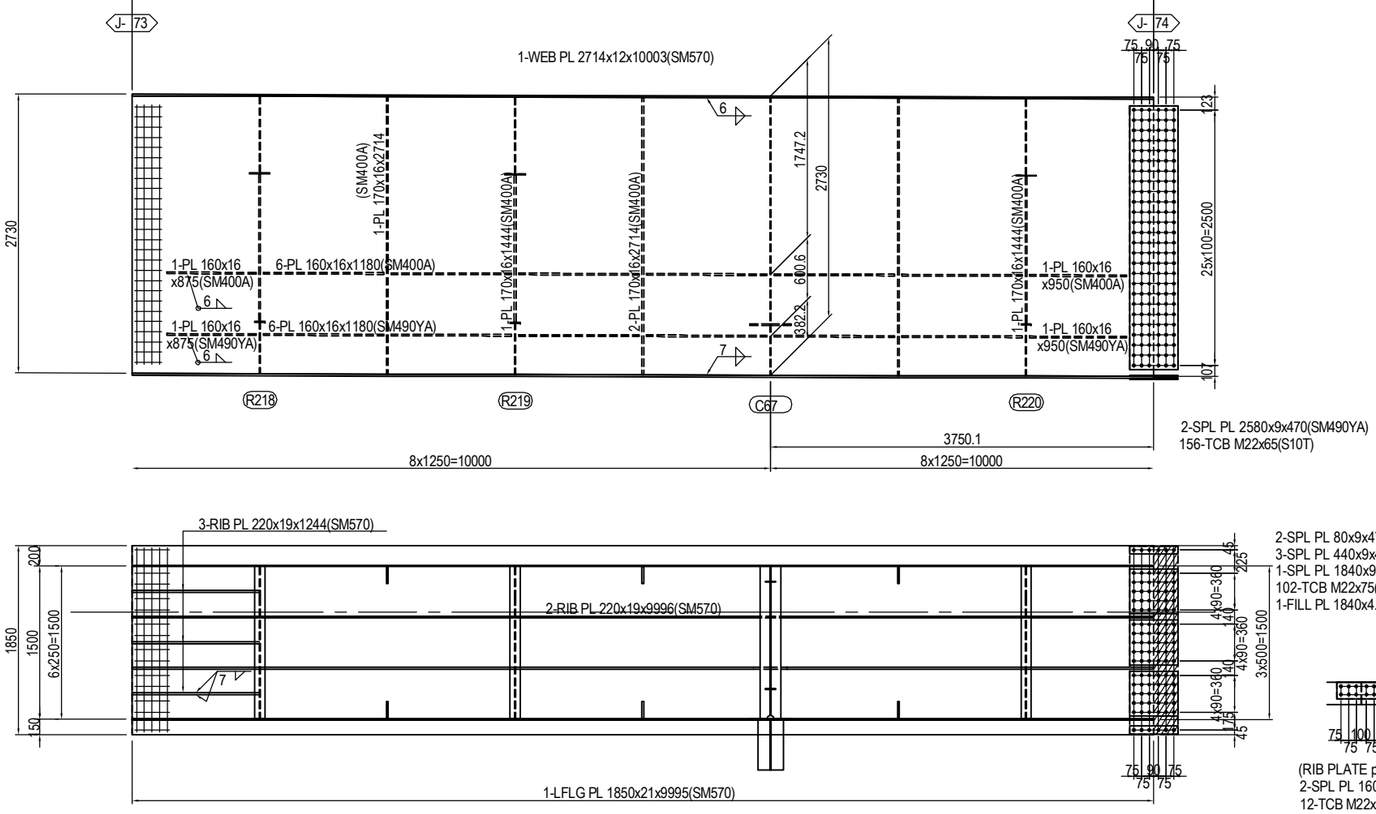


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			

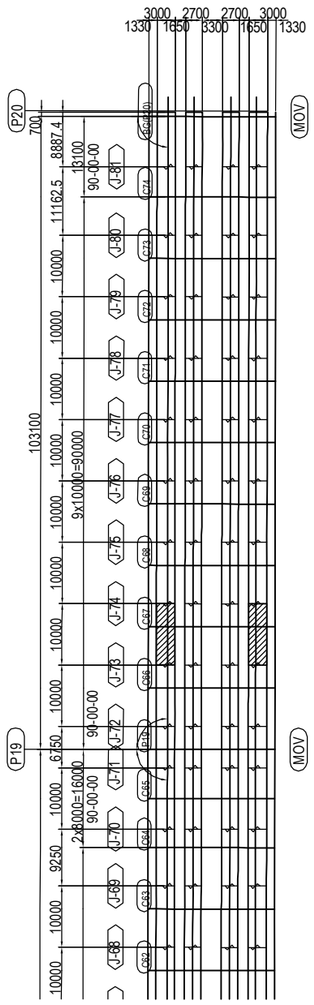
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (73)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1173

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (74) S=1:60





MARKING DIAGRAM

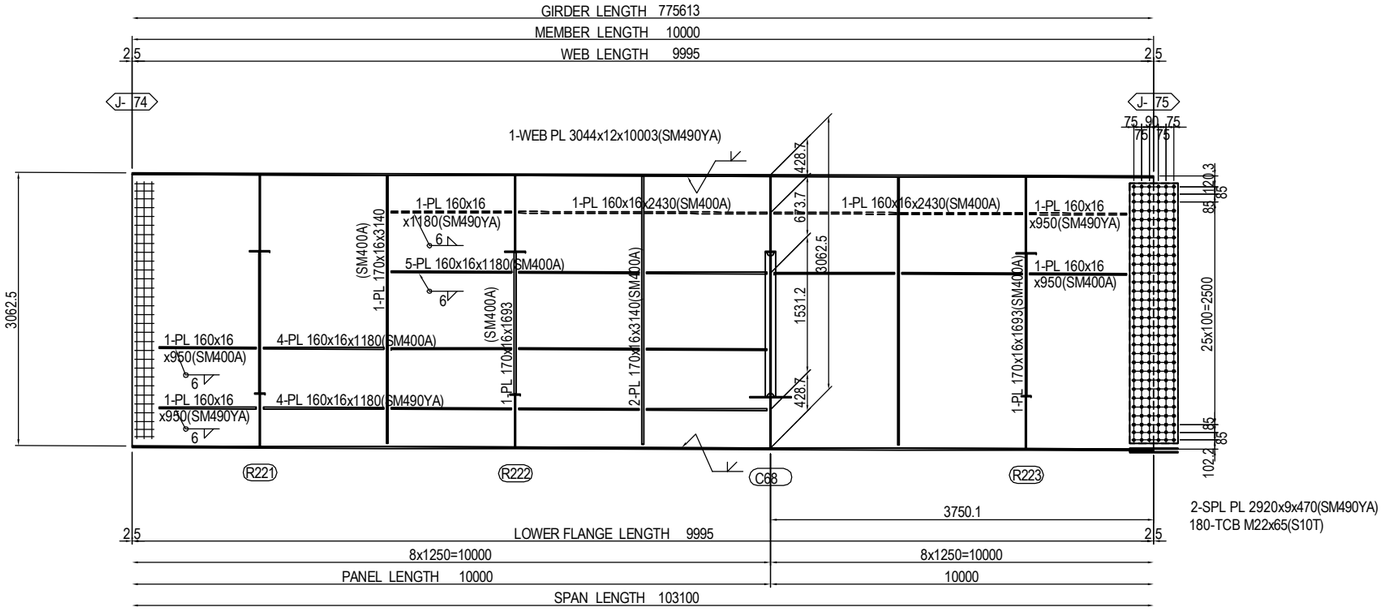


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

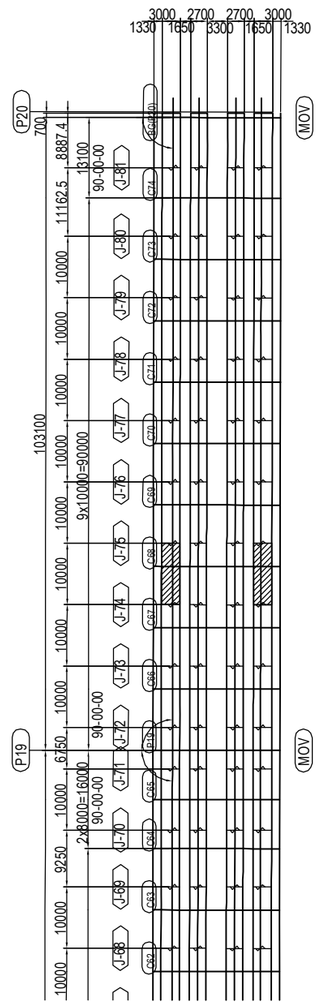
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (74)	2
	DWG No.
	P2-SB-1174

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (75) S=1:60



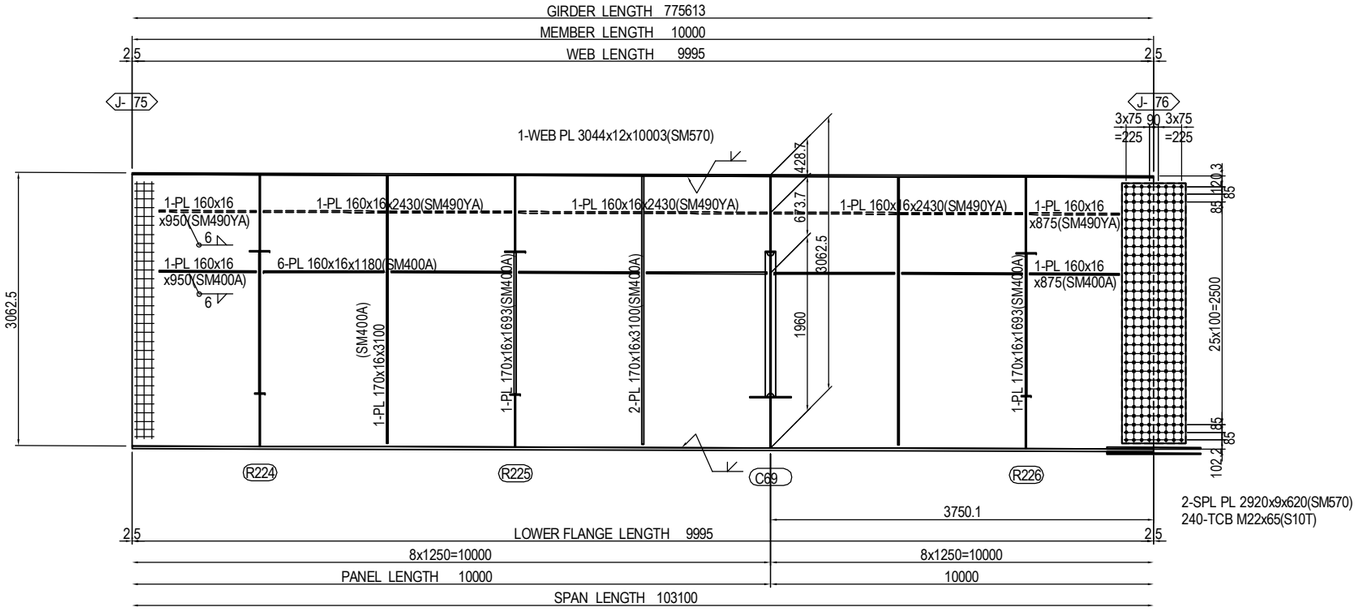
MARKING DIAGRAM



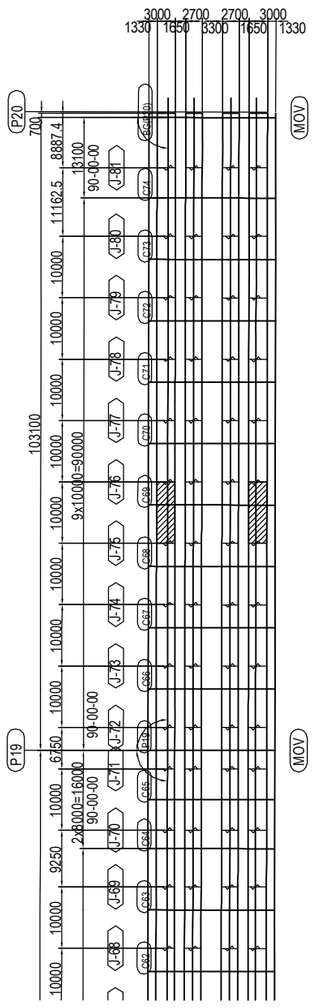
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR, MINISTRY OF CONSTRUCTION, DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. / ORIENTAL CONSULTANTS GLOBAL CO., LTD. / METROPOLITAN EXPRESSWAY COMPANY LIMITED / CHODAI CO.,LTD. / NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (75)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1175

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (76) S=1:60



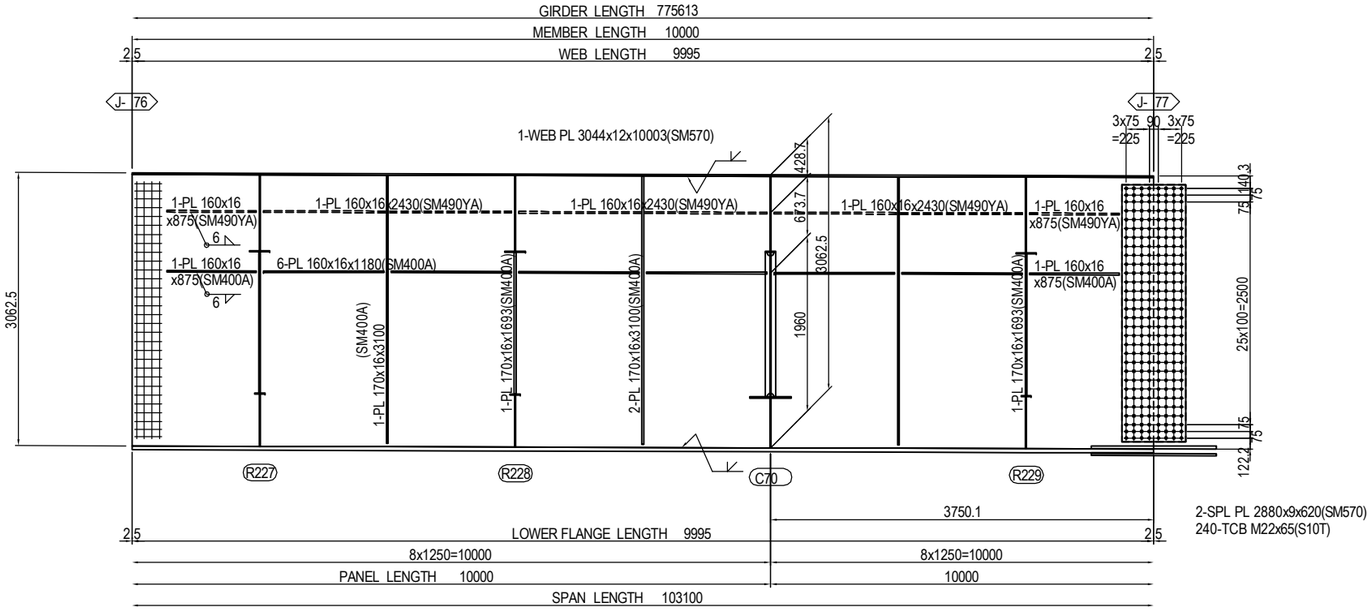
MARKING DIAGRAM



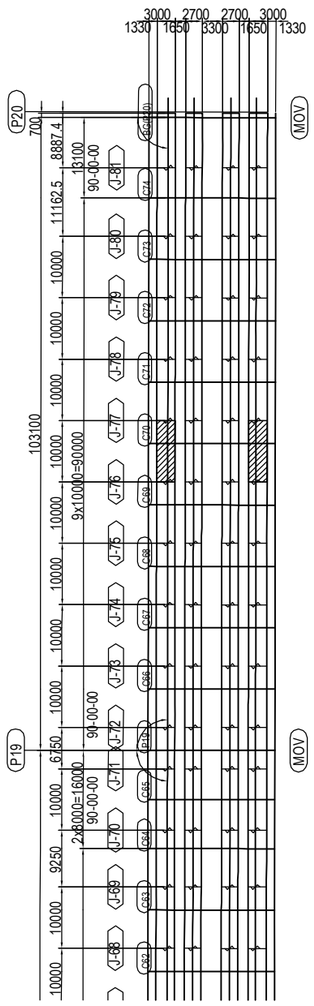
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (76)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1176

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (77) S=1:60



MARKING DIAGRAM

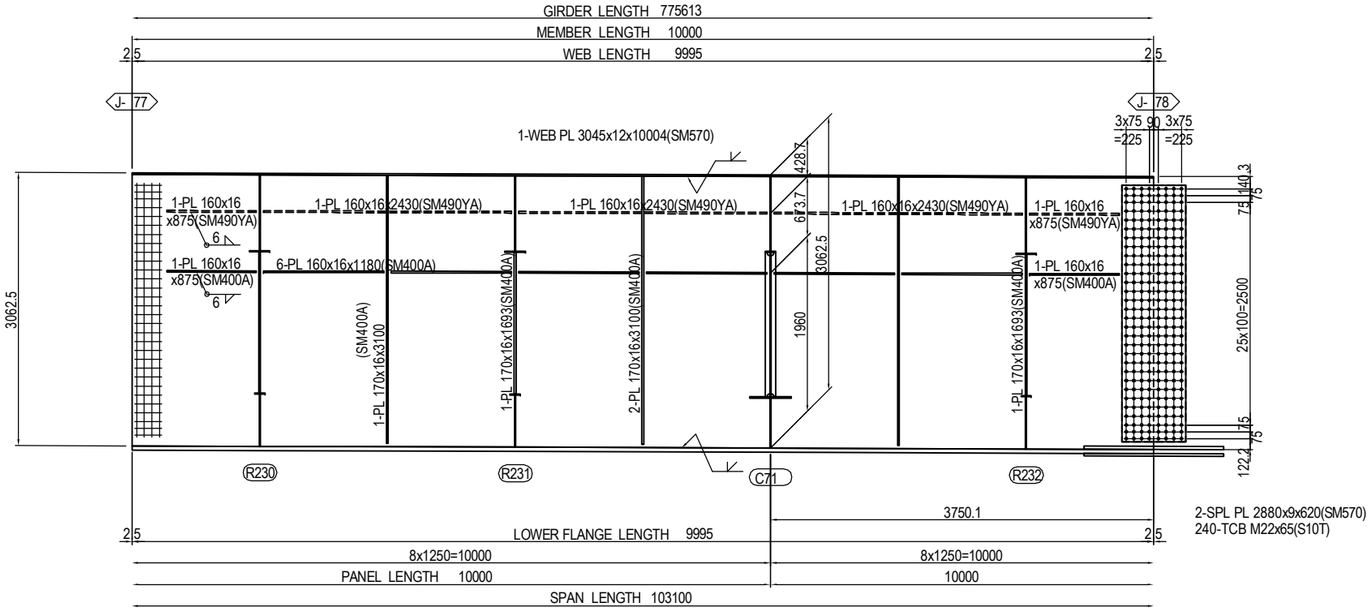


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

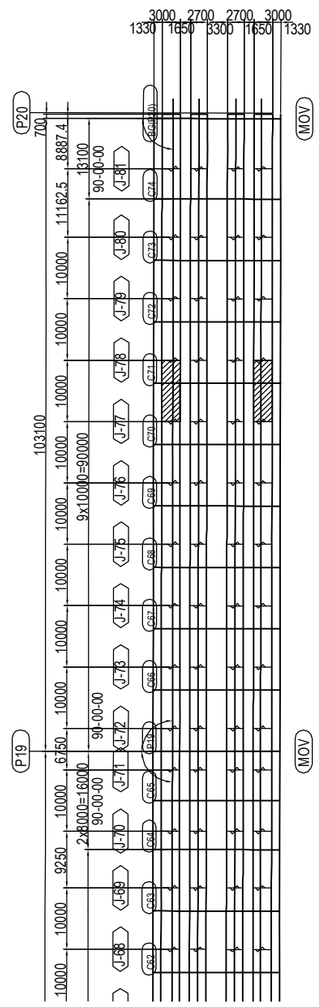
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (77)	2
	DWG No.
	P2-SB-1177

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (78) S=1:60

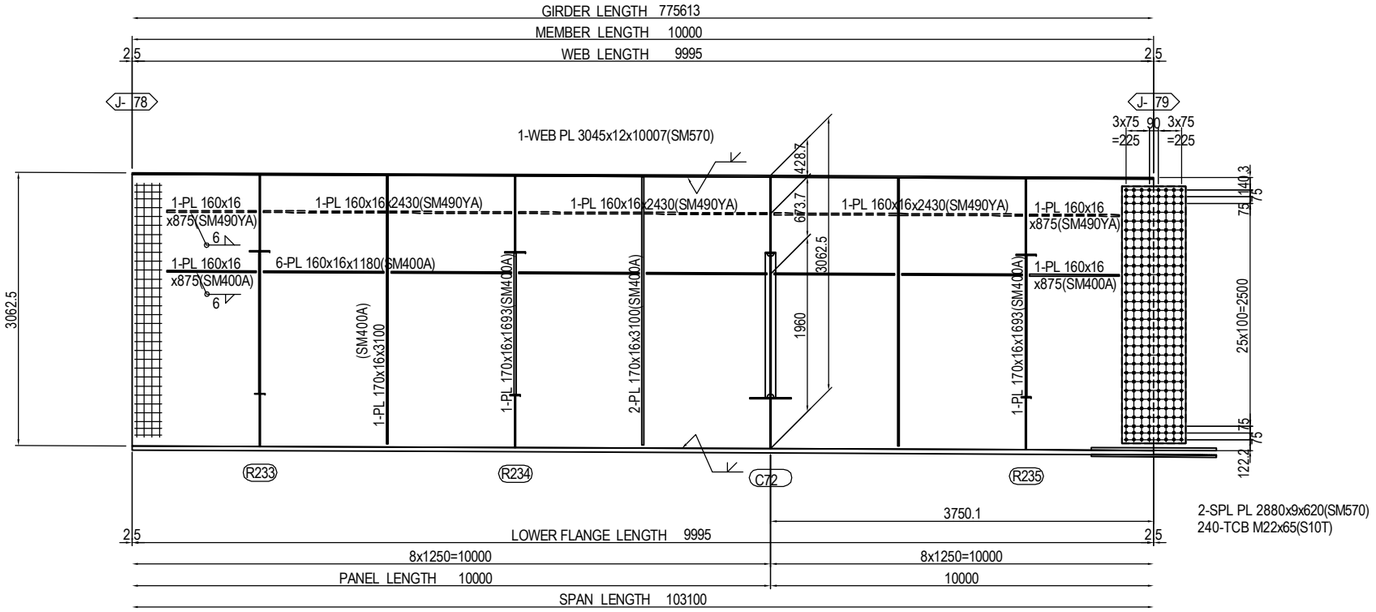


MARKING DIAGRAM

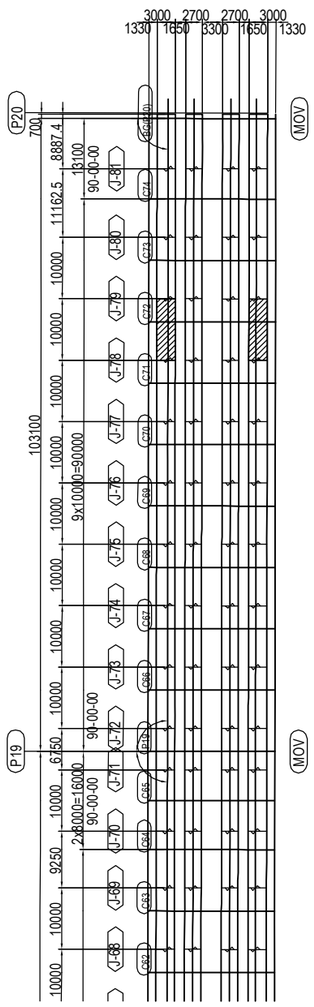


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (78)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1178

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (79) S=1:60

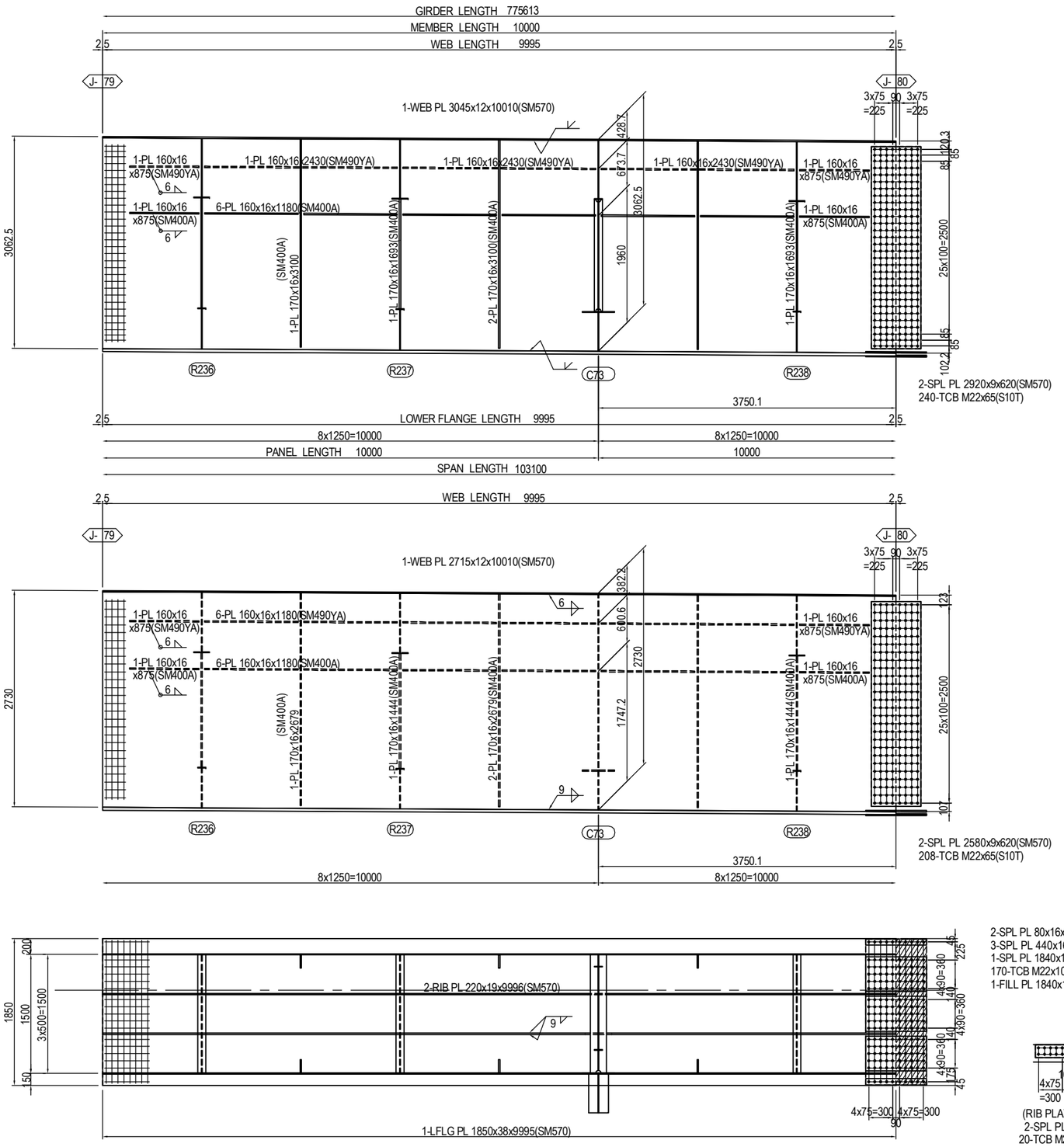


MARKING DIAGRAM



PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (79)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1179

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (80) S=1:60



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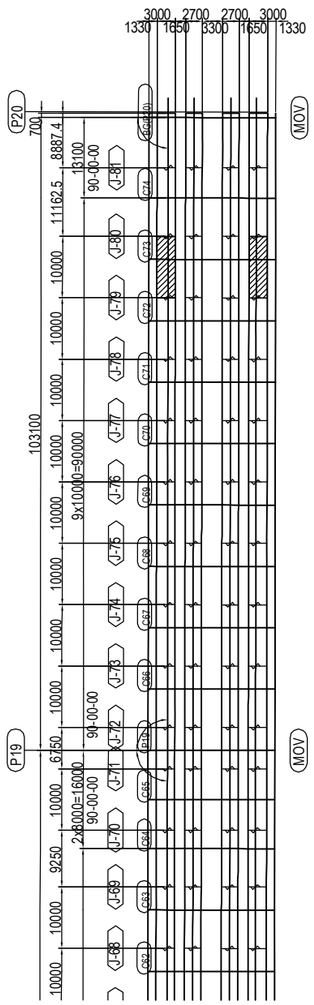


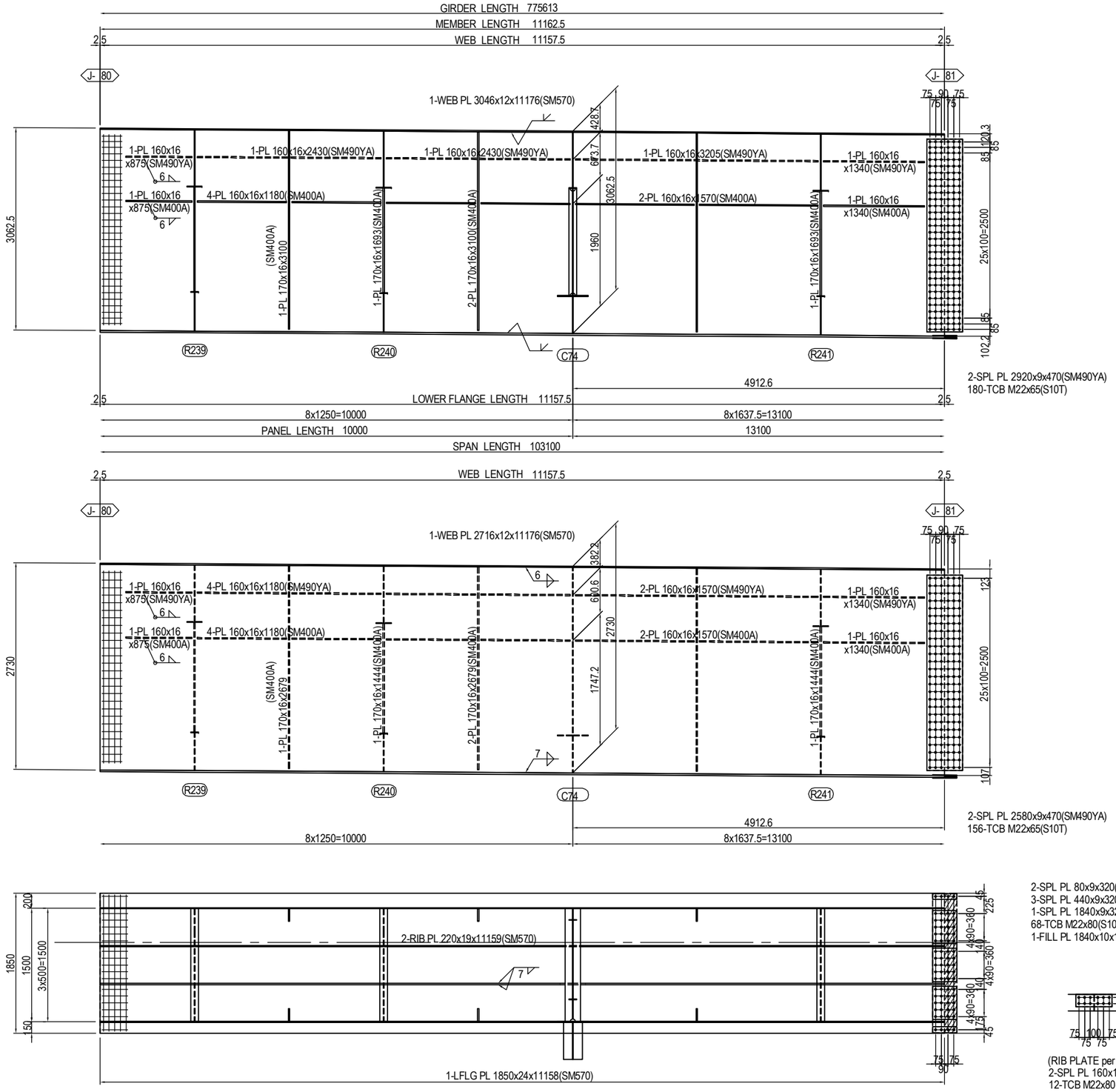
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
				NAME	SIGNATURE / DATE
				PREPARED BY	S. IMADA — 15 Jun.2017
				CHECKED BY	T. HAYAKAWA — 20 Jun.2017
				APPROVED BY	Y. SANO — 21 Jun.2017

DRAWING TITLE: DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (80)

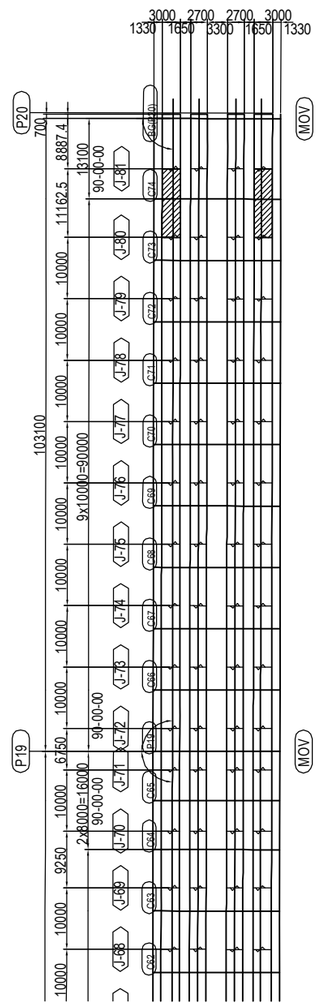
PACKAGE: 2

DWG No.: P2-SB-1180

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (81) S=1:60

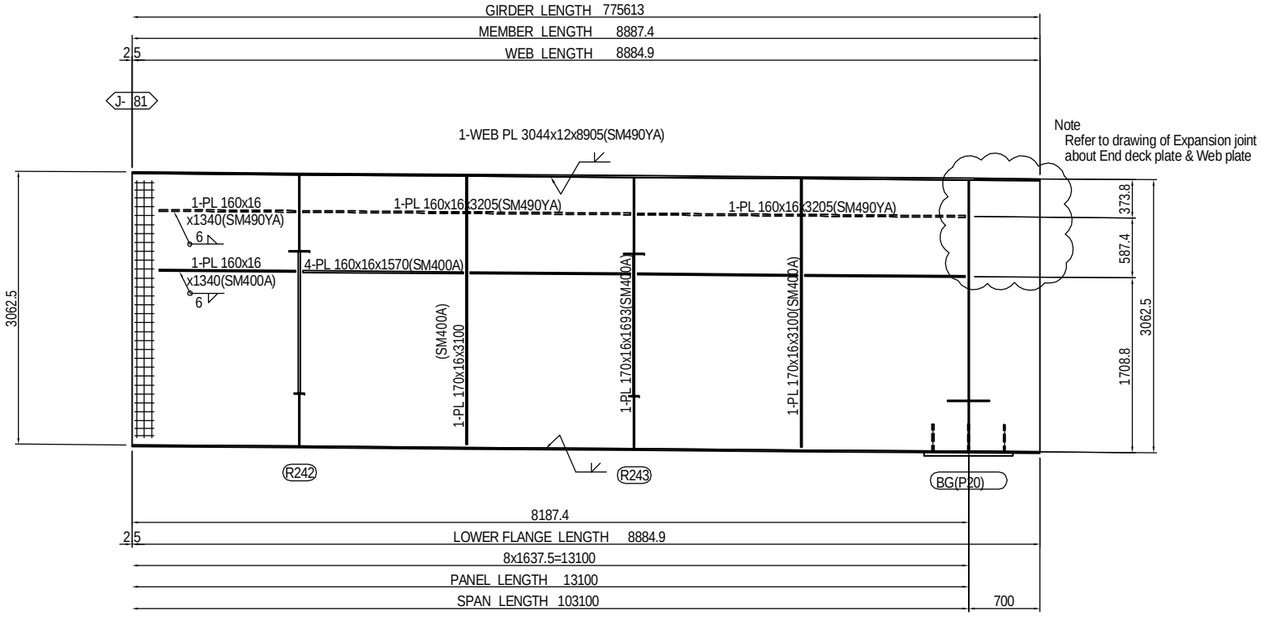


MARKING DIAGRAM

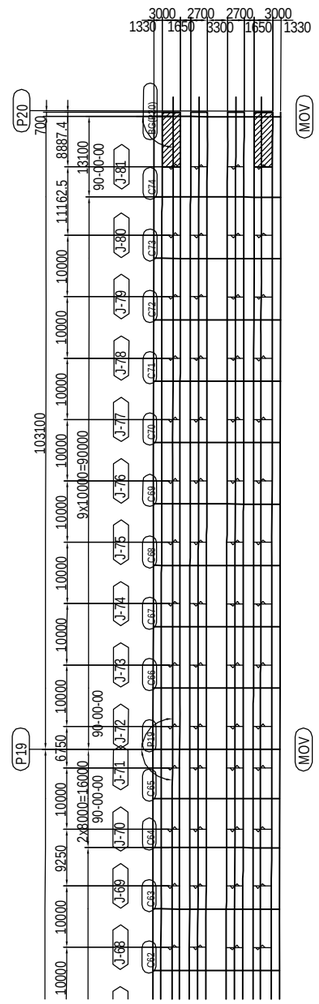


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME / SIGNATURE / DATE	DRAWING TITLE / PACKAGE
				PREPARED BY: S. IMADA 15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (81)
				CHECKED BY: T. HAYAKAWA 20 Jun.2017	PACKAGE: 2
				APPROVED BY: Y. SANO 21 Jun.2017	DWG No.: P2-SB-1181

DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (82) S=1:60



MARKING DIAGRAM

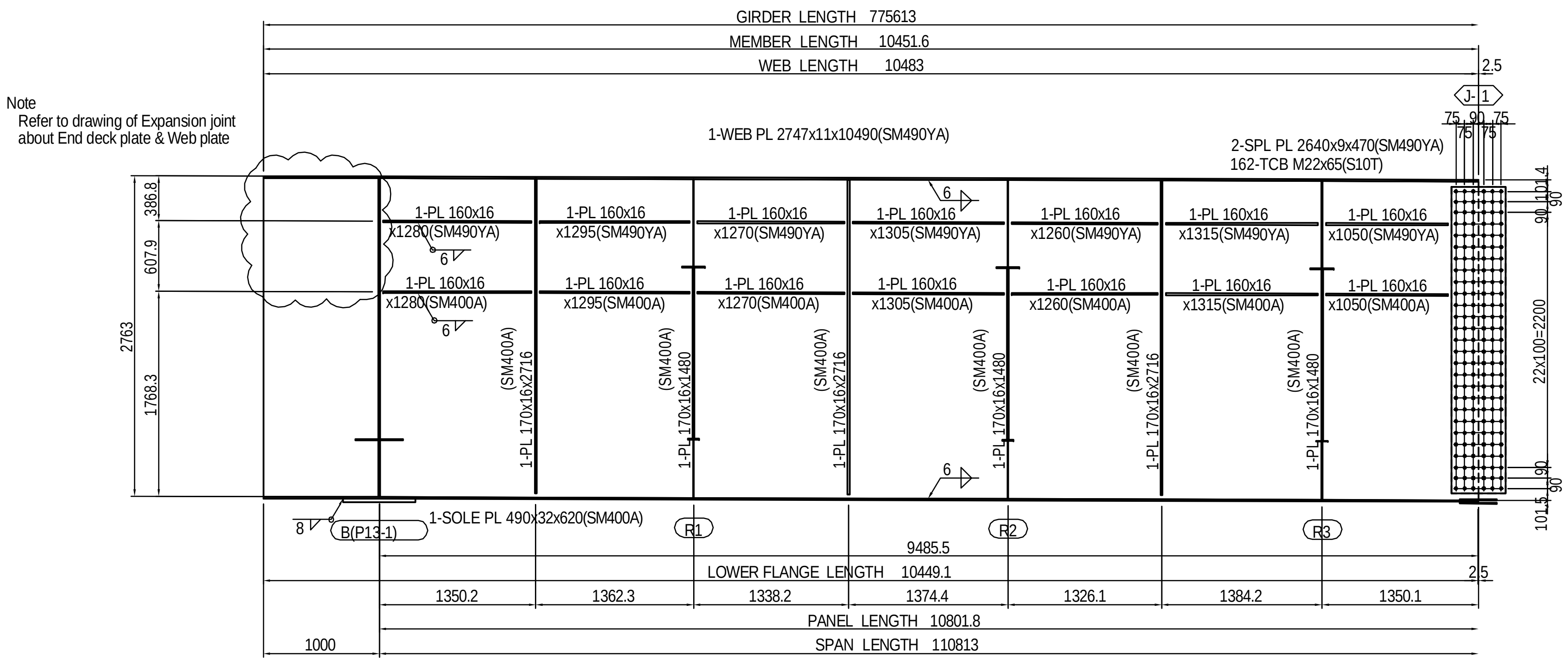


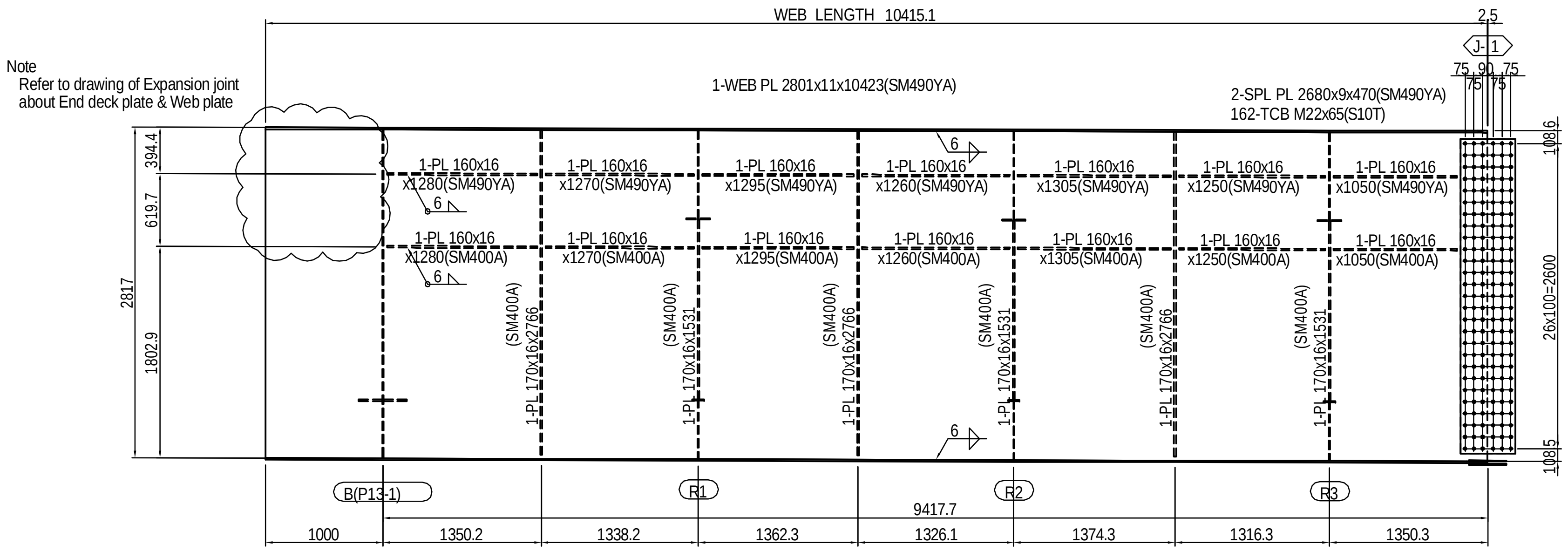
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

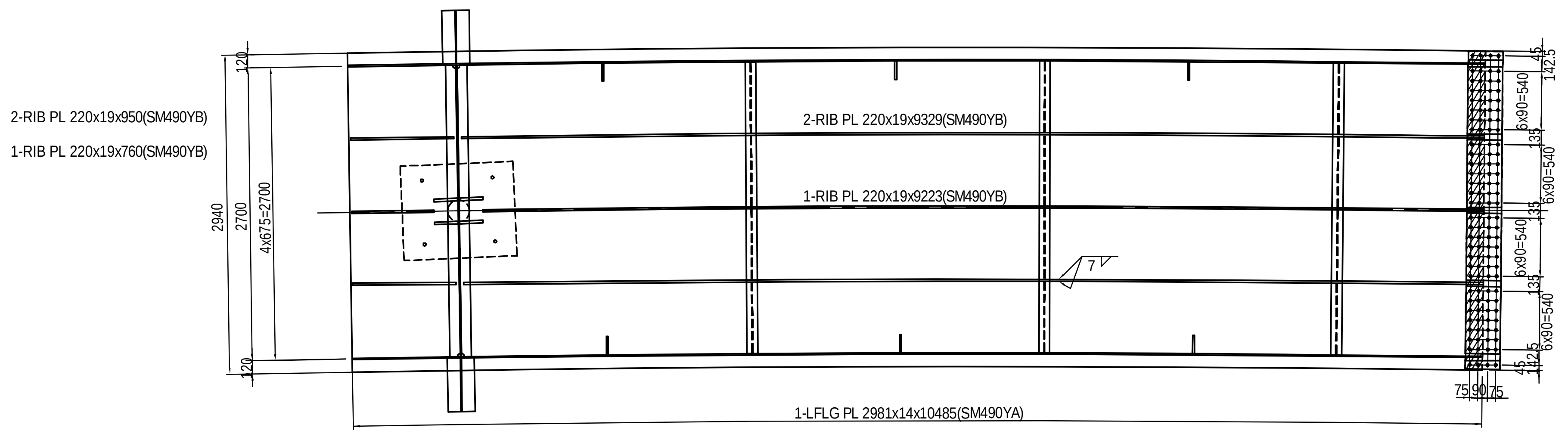
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G1,G4 (P13-P20) (82)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1182

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (1)

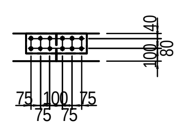
S=1:60





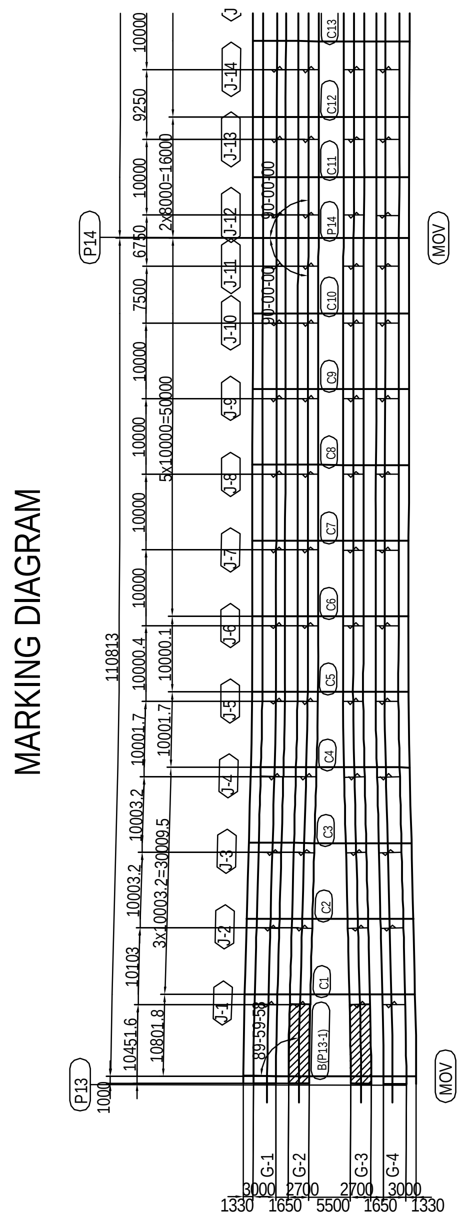


2-SPL PL 80x9x320(SM490YA)
4-SPL PL 620x9x320(SM490YA)
1-SPL PL 2930x9x320(SM490YA)
120-TCB M22x75(S10T)
1-FILL PL 2930x6x158(SS400)



(RIB PLATE per set)
2-SPL PL 160x12x480(SM490YA)
12-TCB M22x80(S10T)

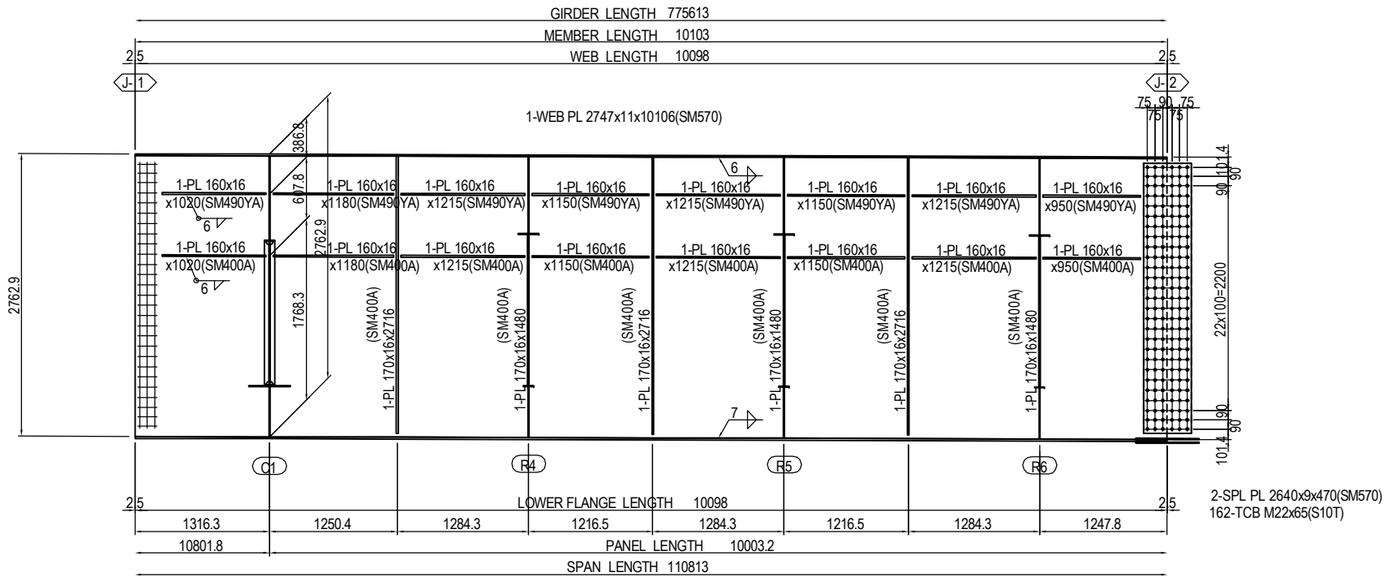
MARKING DIAGRAM



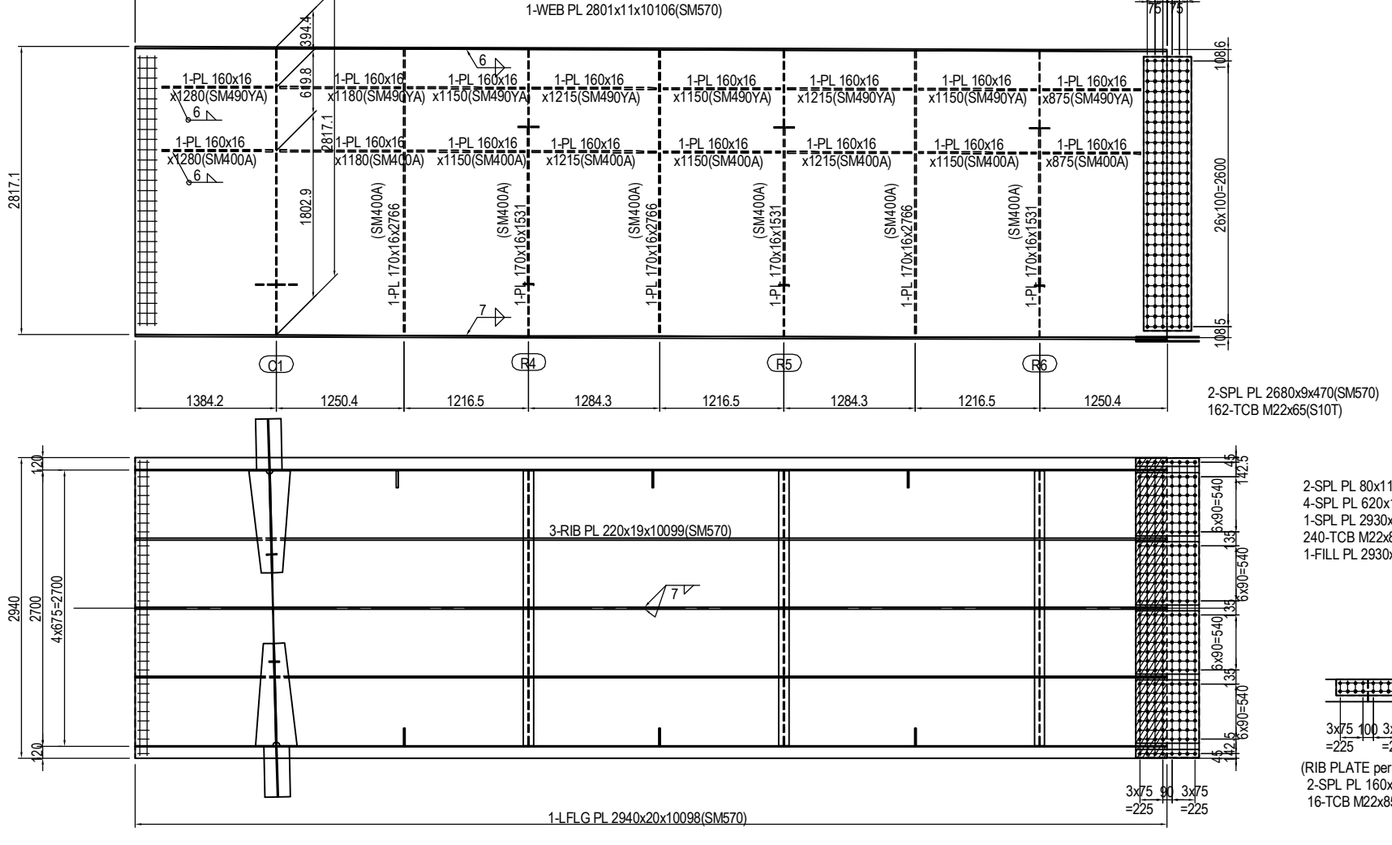
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA	[signature]	15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (1)	2
				CHECKED BY	T. HAYAKAWA	[signature]	20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO	[signature]	21 Jun.2017		P2-SB-1201

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (2)

S=1:60

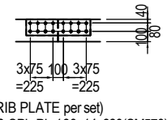


2-SPL PL 2640x9x470(SM570)
162-TCB M22x65(S10T)



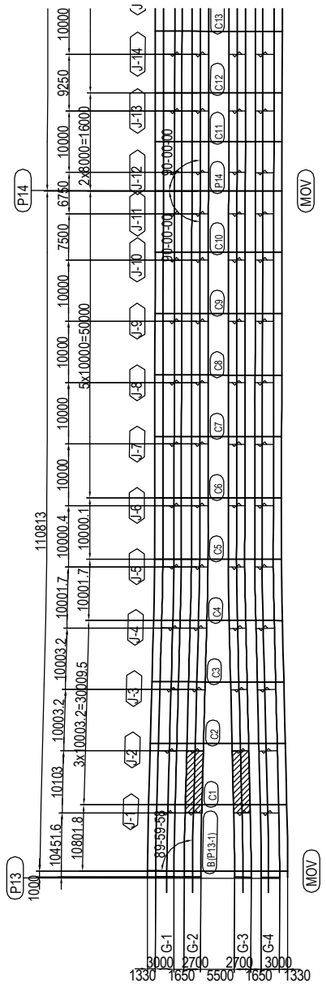
2-SPL PL 2680x9x470(SM570)
162-TCB M22x65(S10T)

2-SPL PL 80x11x620(SM570)
4-SPL PL 620x11x620(SM570)
1-SPL PL 2930x10x620(SM570)
240-TCB M22x85(S10T)
1-FILL PL 2930x8x308(SS400)



(RIB PLATE per set)
2-SPL PL 160x14x630(SM570)
16-TCB M22x85(S10T)

MARKING DIAGRAM



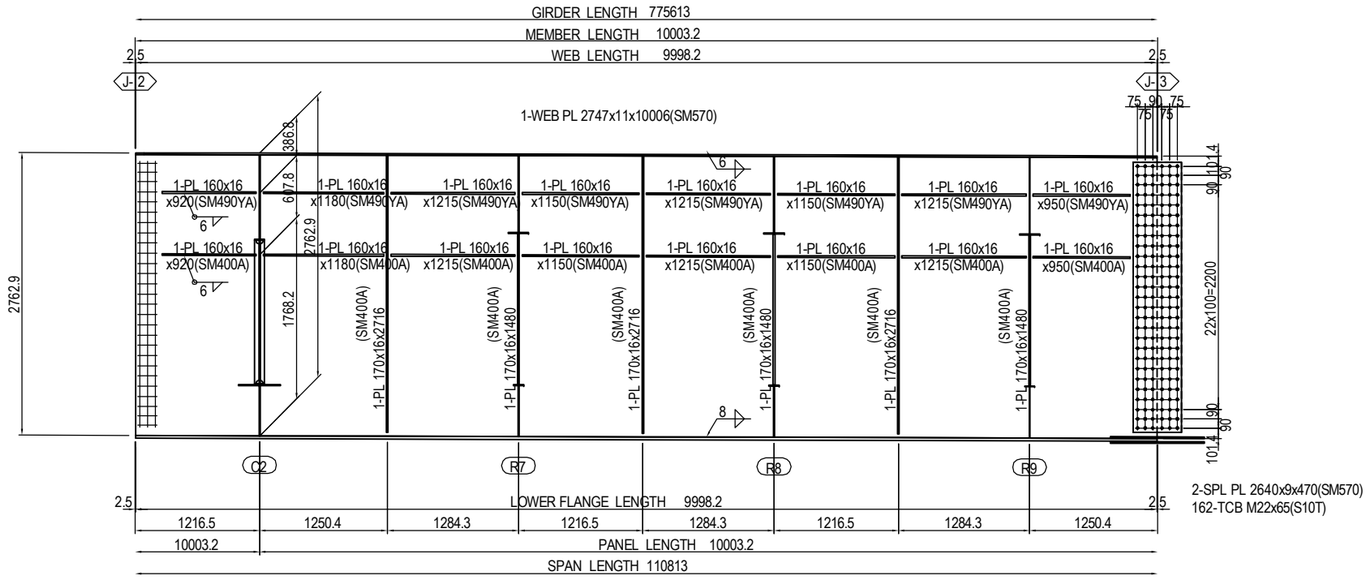
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

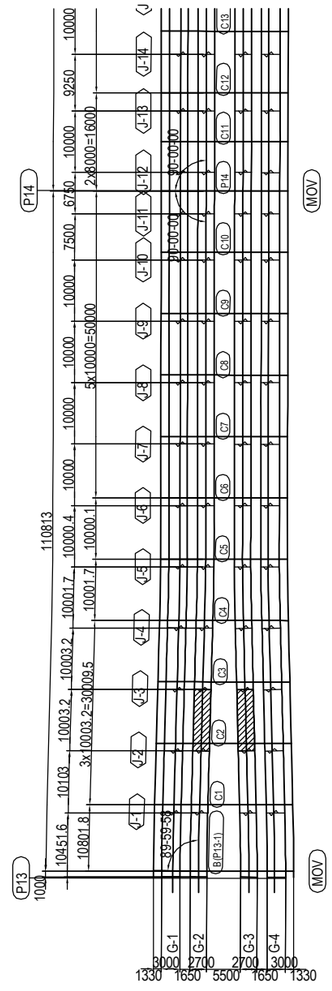
DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (2)	2
	DWG No.
	P2-SB-1202

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (3)

S=1:60



MARKING DIAGRAM

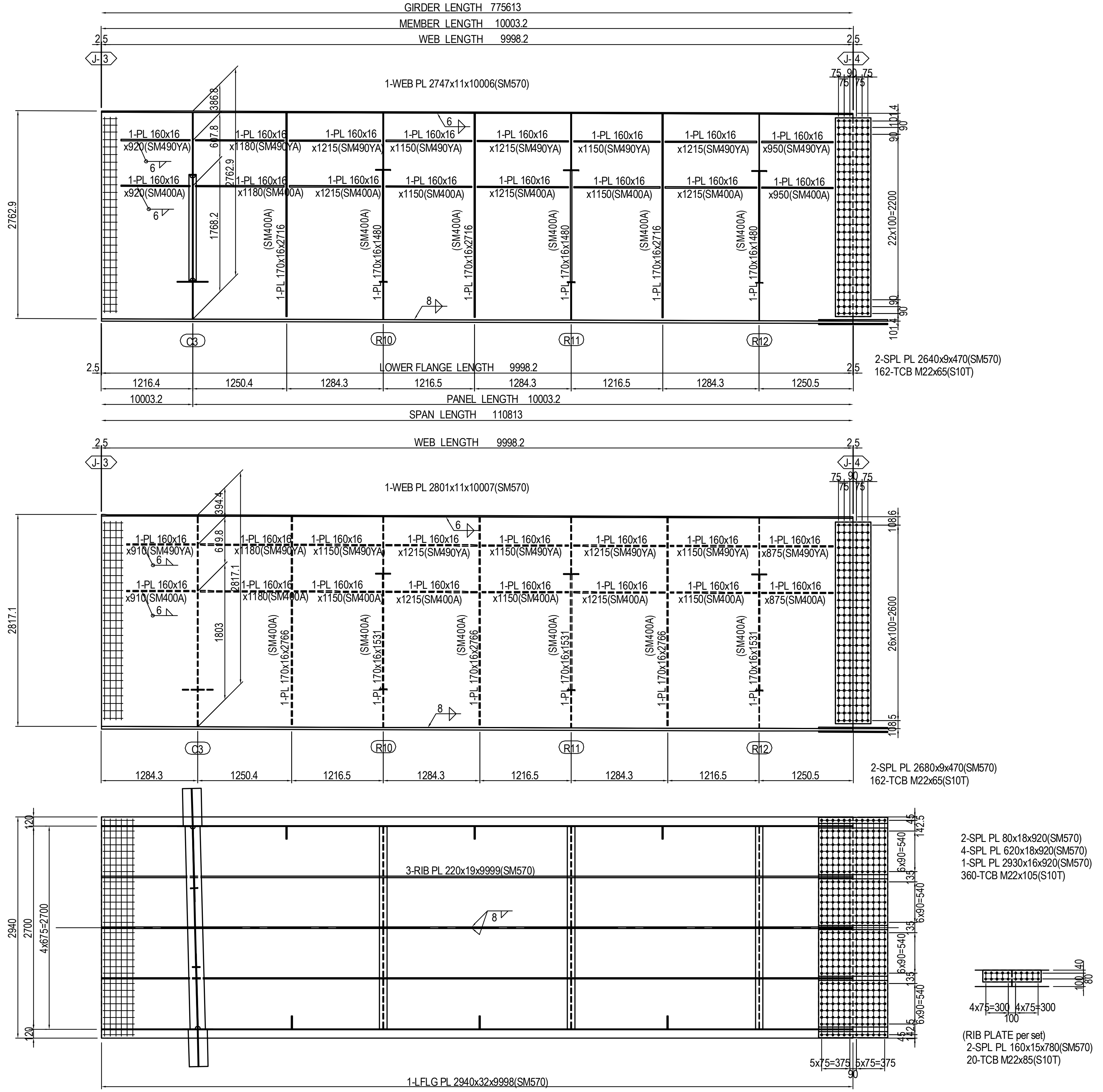


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

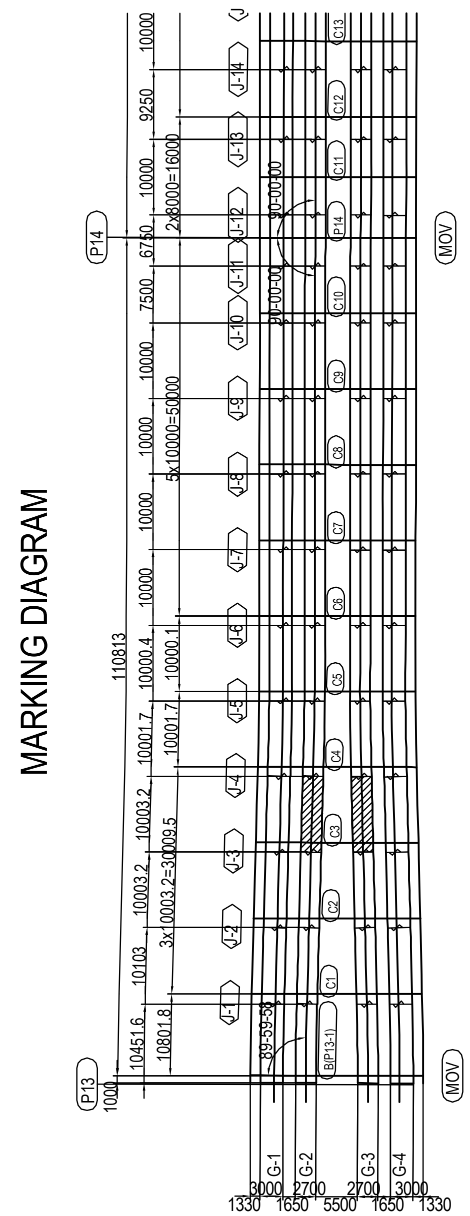
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (3)	2
	DWG No.
	P2-SB-1203

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (4)   S=1:60



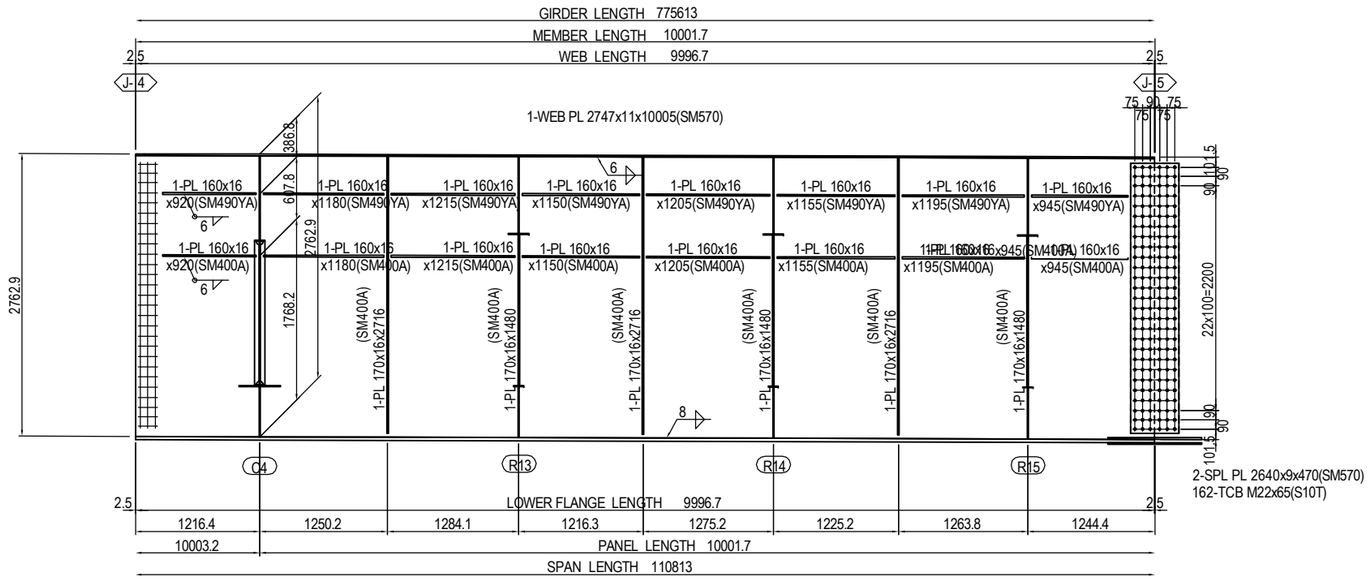
MARKING DIAGRAM



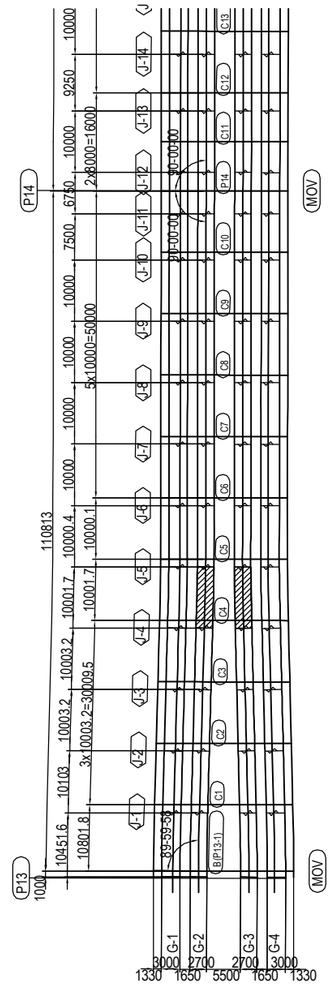
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (4)	2
				CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1204

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (5)

S=1:60



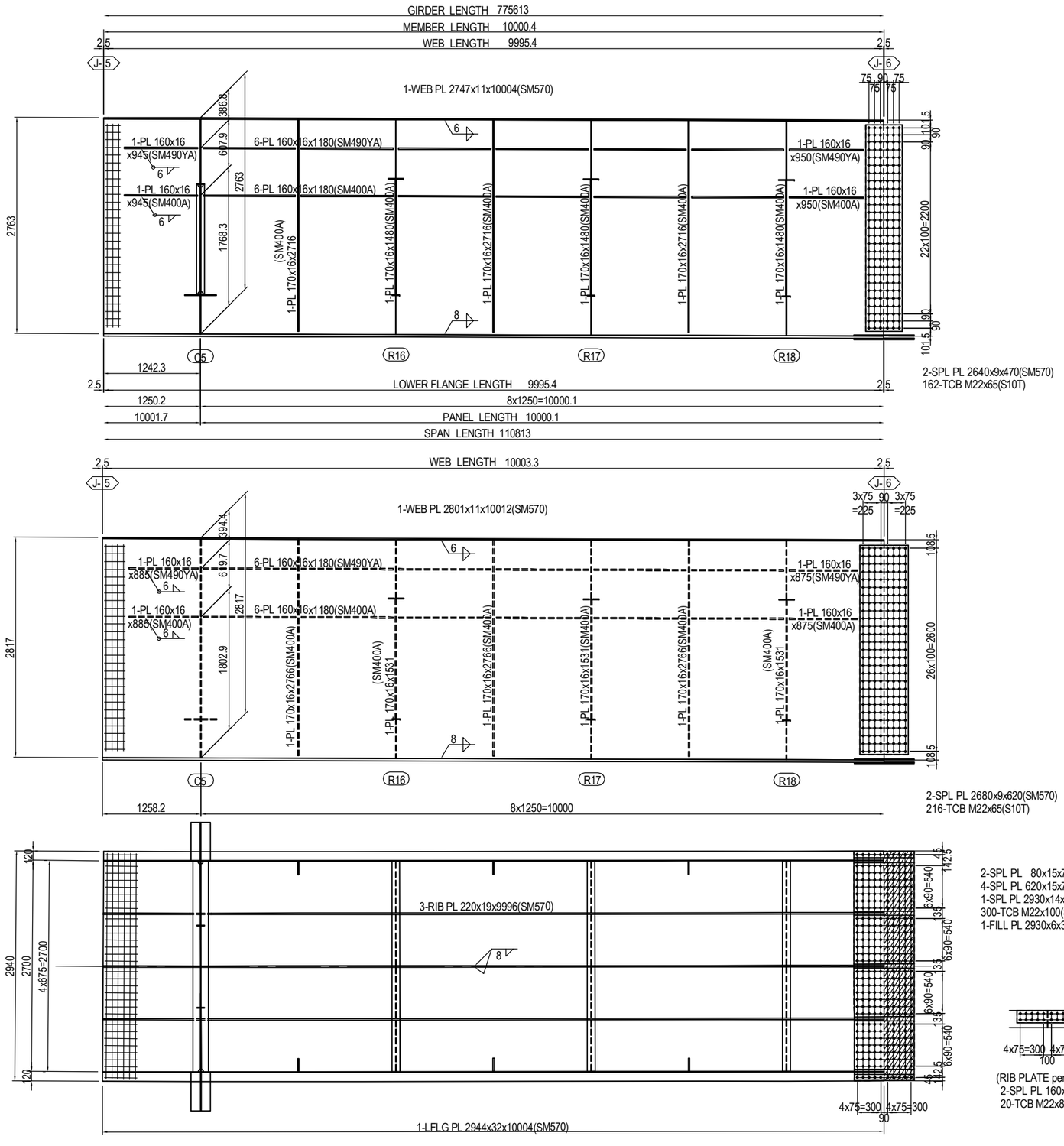
MARKING DIAGRAM



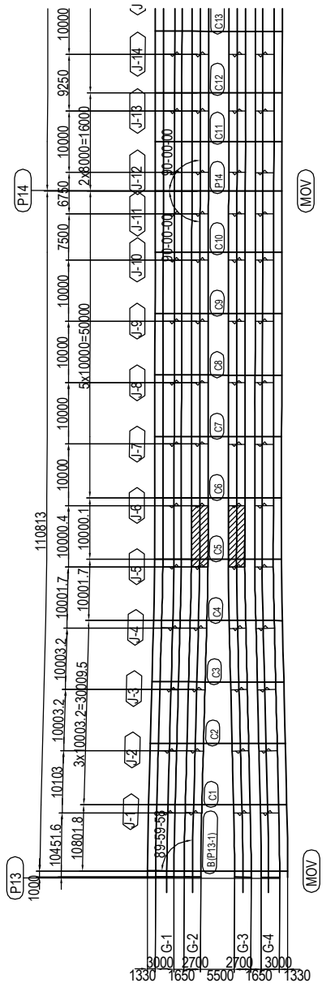
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (5)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1205

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (6) S=1:60



MARKING DIAGRAM

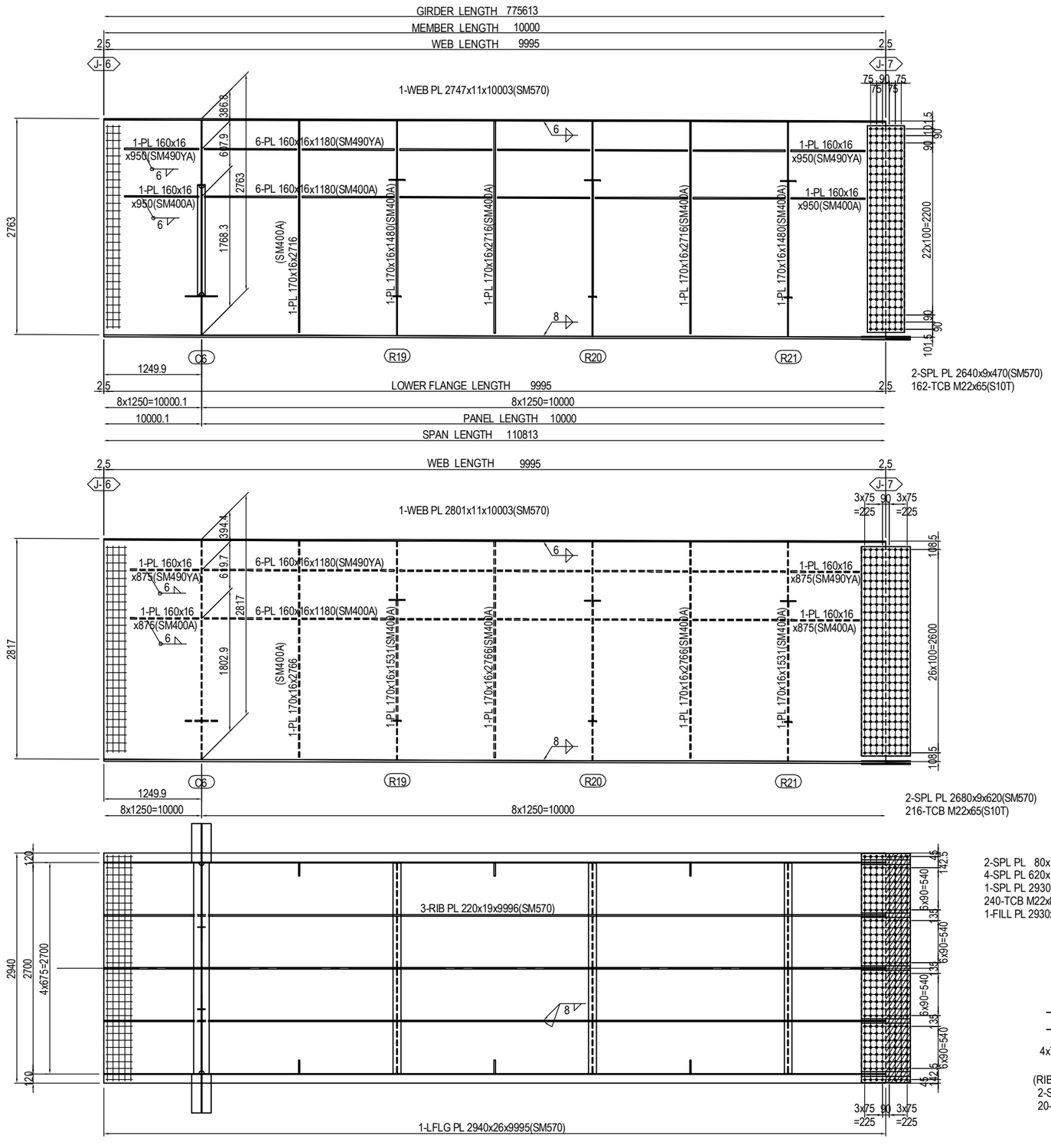


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	DRAWING TITLE: DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (6)	PACKAGE: 2
					DWG No.: P2-SB-1206

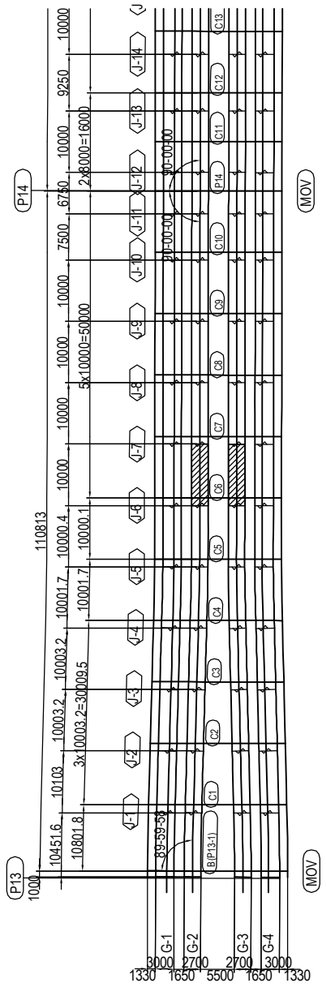
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (7)

S=1:60



MARKING DIAGRAM

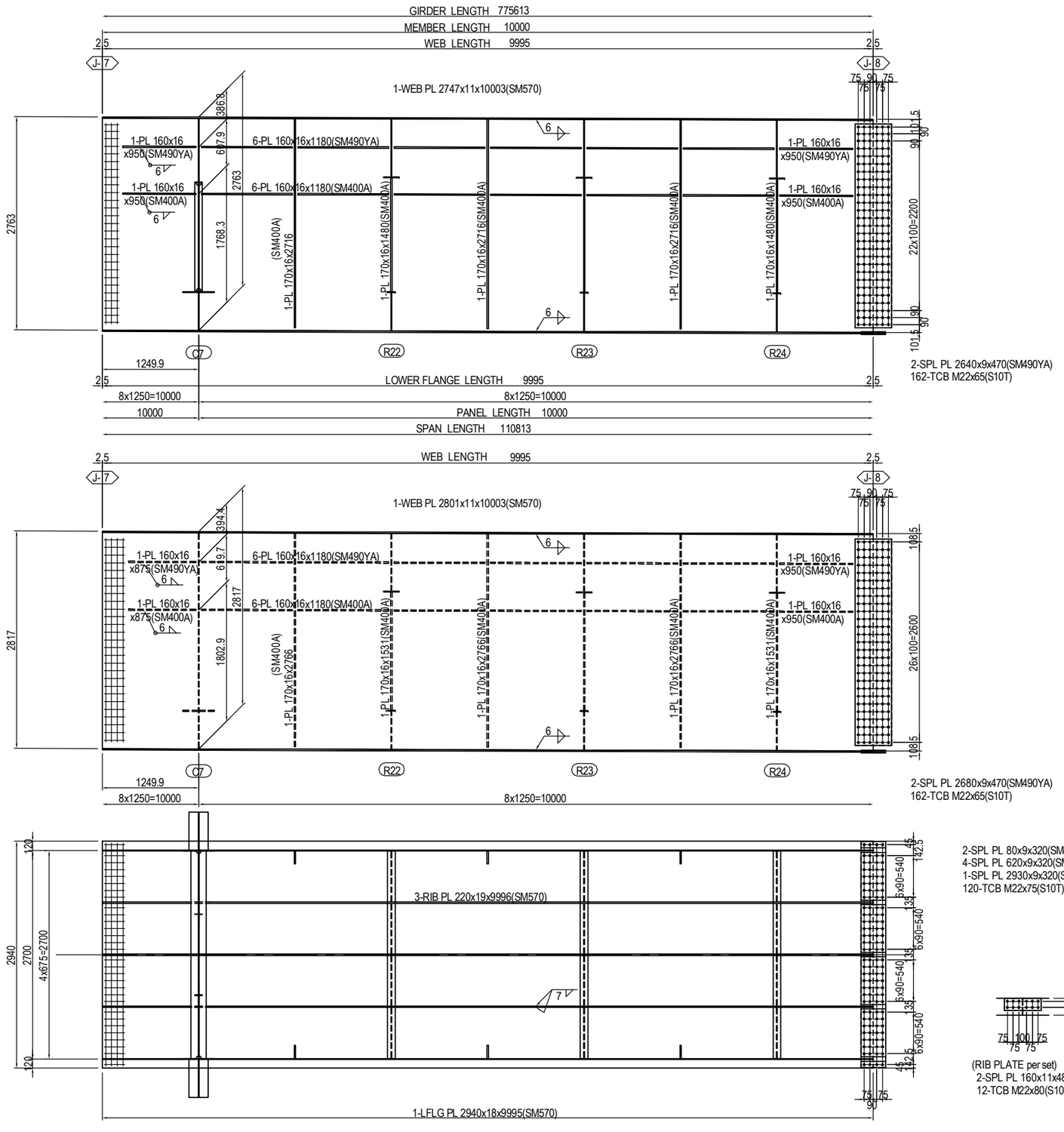


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

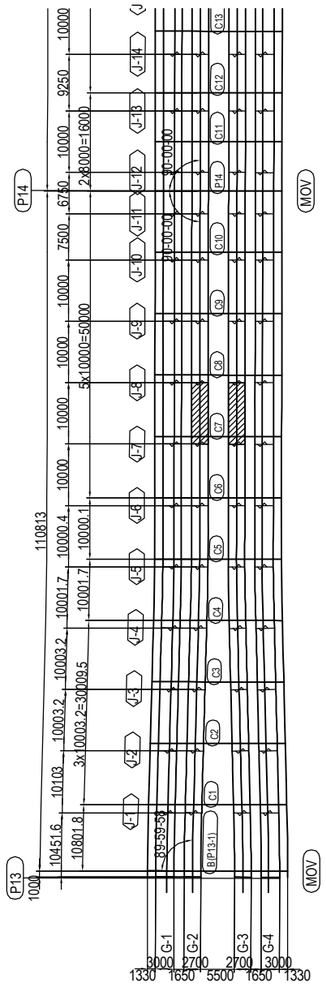
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (7)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1207

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (8)

S=1:60



MARKING DIAGRAM

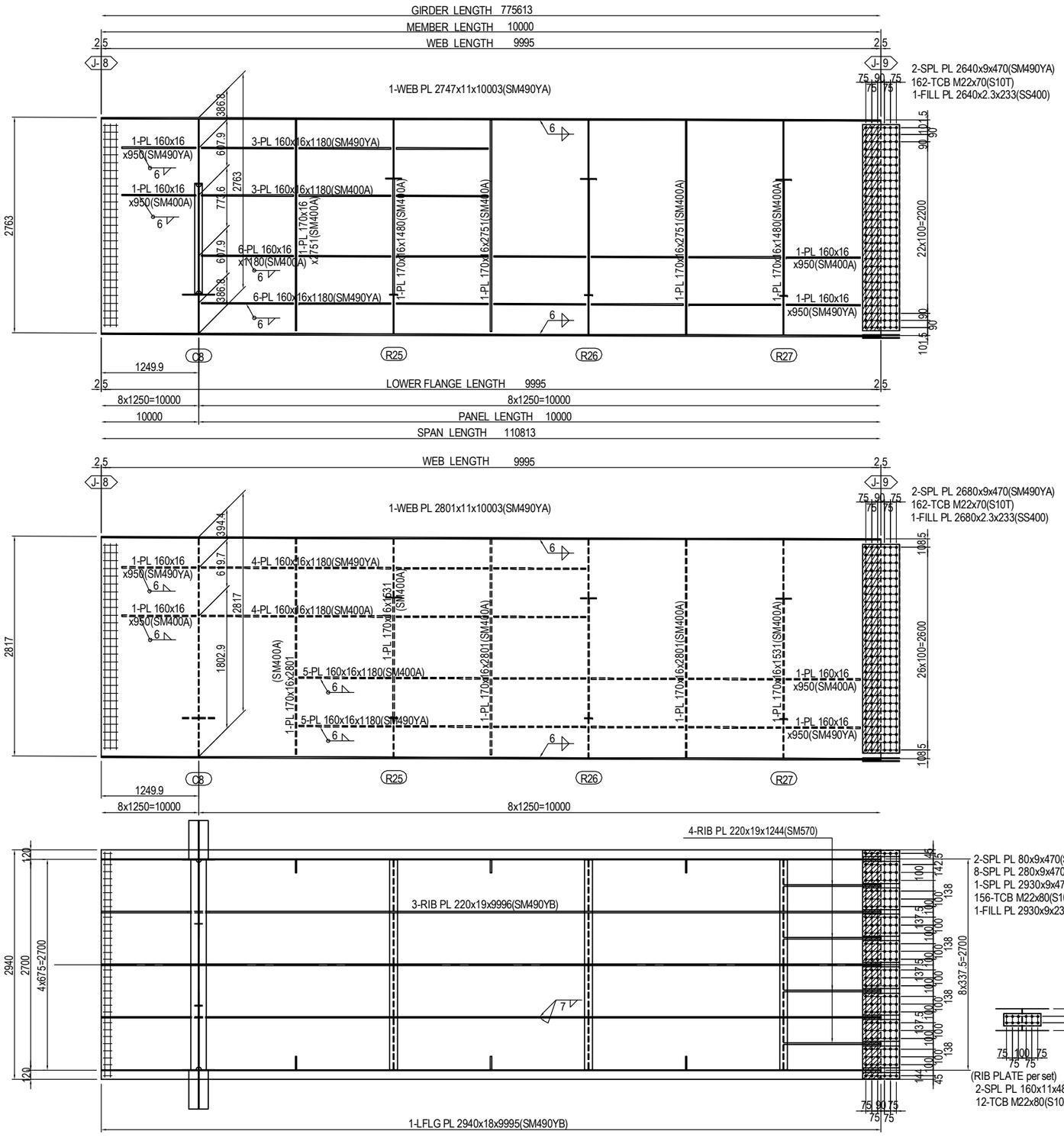


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

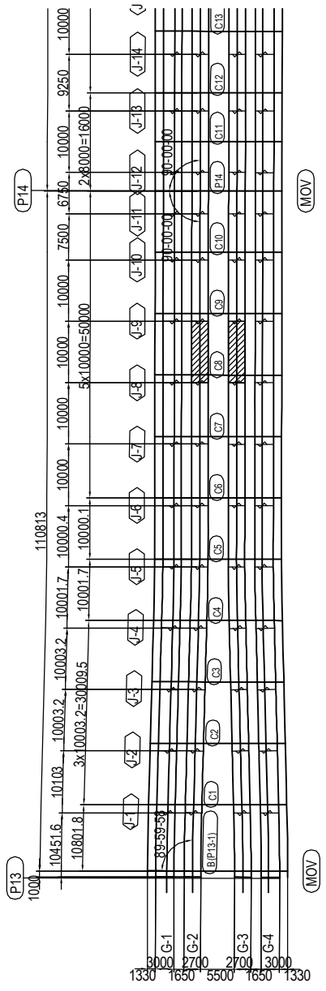
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (8)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1208

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (9)

S=1:60



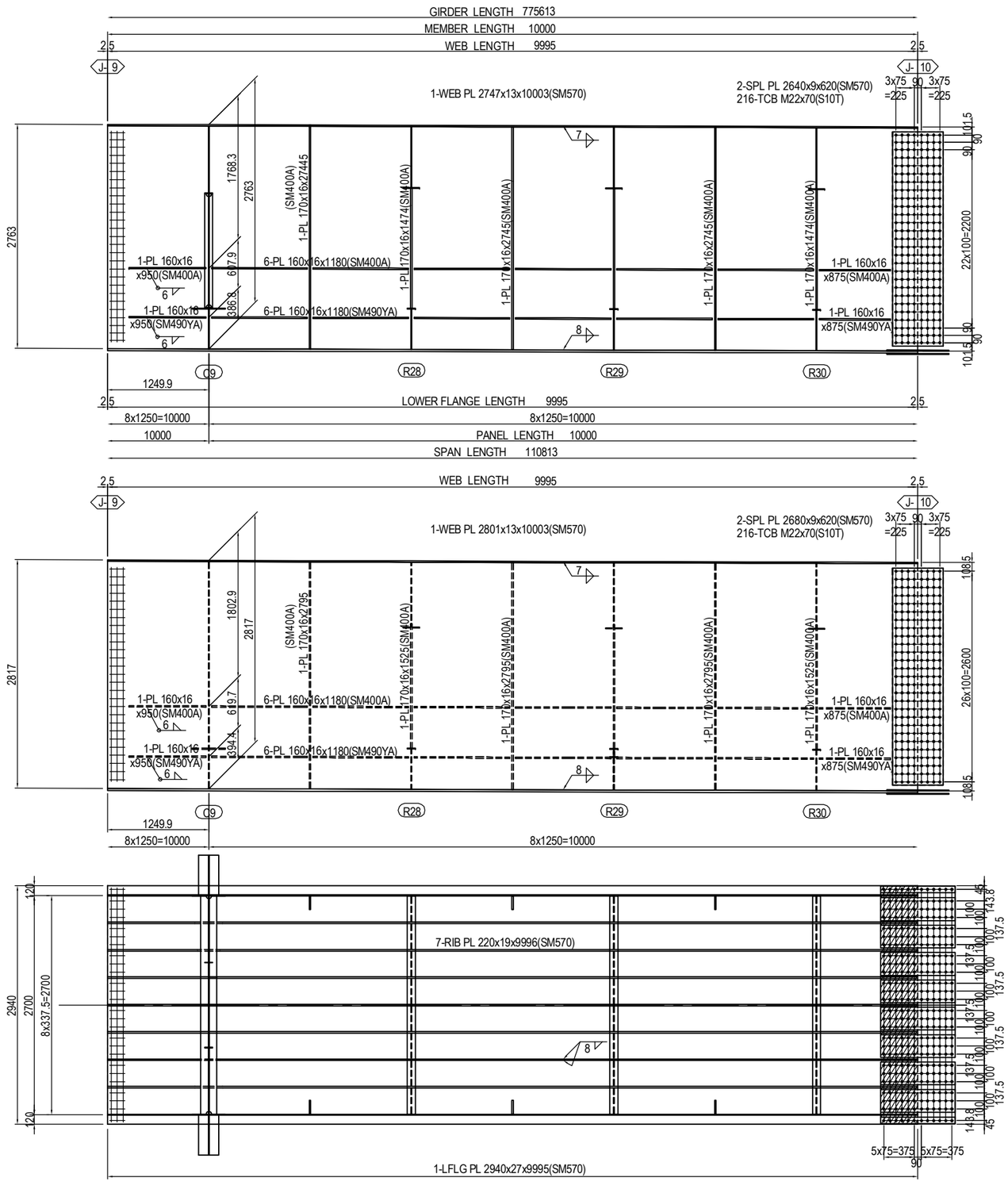
MARKING DIAGRAM

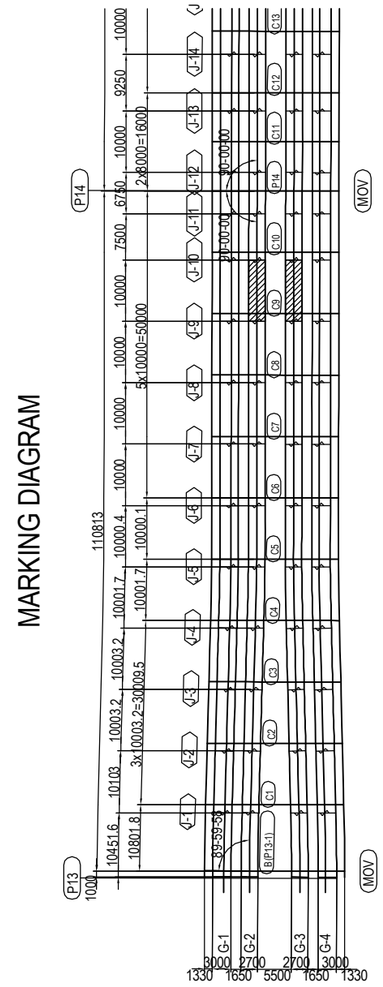


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (9)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1209

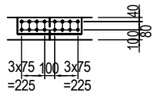
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (10) S=1:60





MARKING DIAGRAM

2-SPL PL 80x13x920(SM570)
8-SPL PL 280x13x920(SM570)
1-SPL PL 2930x11x920(SM570)
312-TCB M22x95(S10T)
1-FILL PL 2930x4.5x458(SS400)



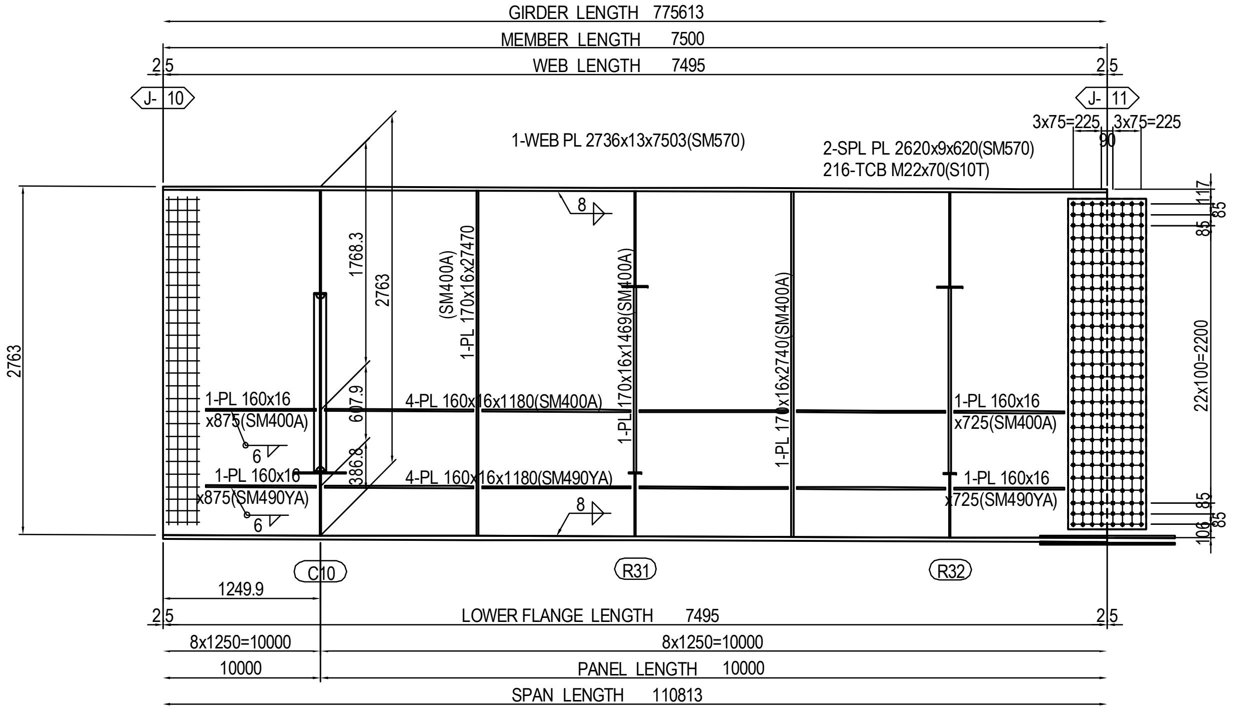
(RIB PLATE per set)
2-SPL PL 160x10x630(SM570)
16-TCB M22x75(S10T)

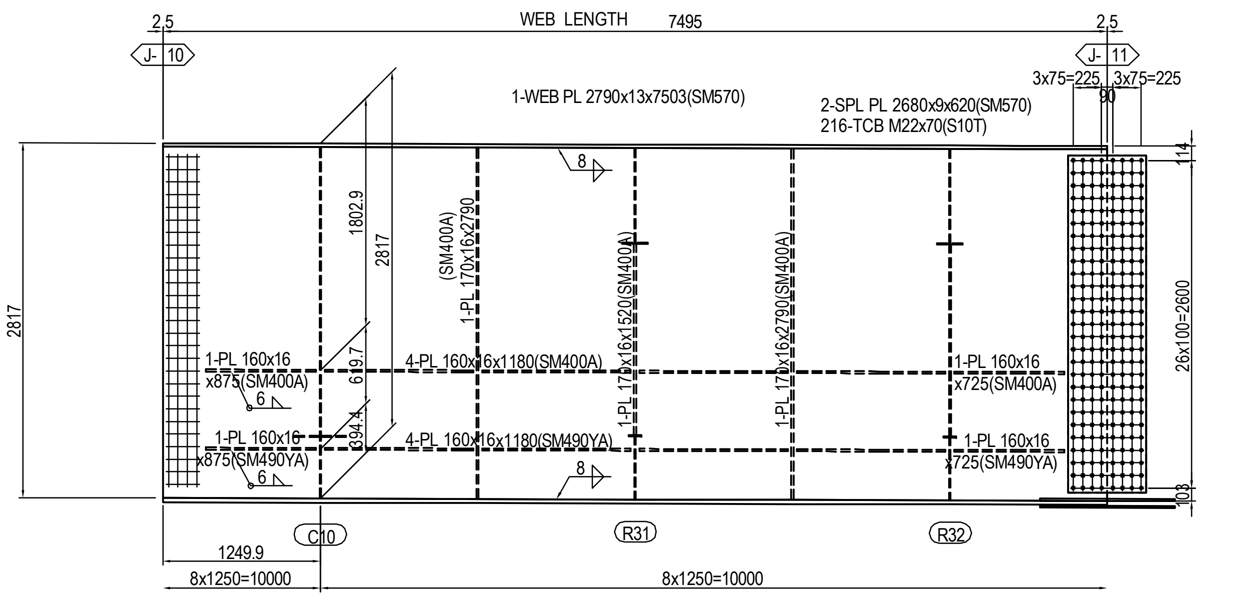
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

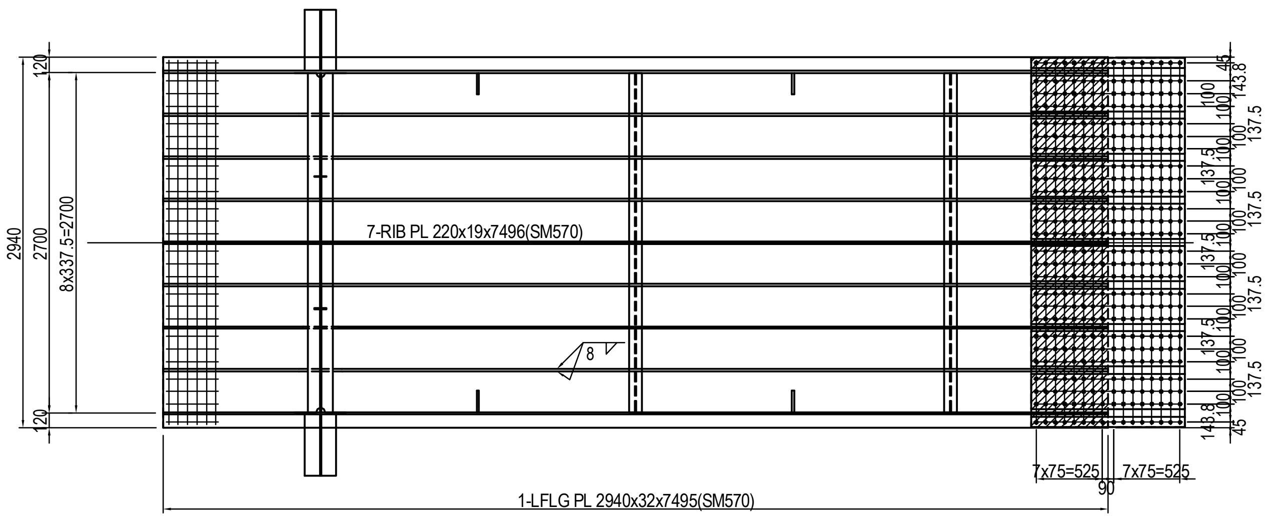
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (10)	2
	DWG No.
	P2-SB-1210

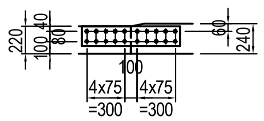
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (11) S=1:60





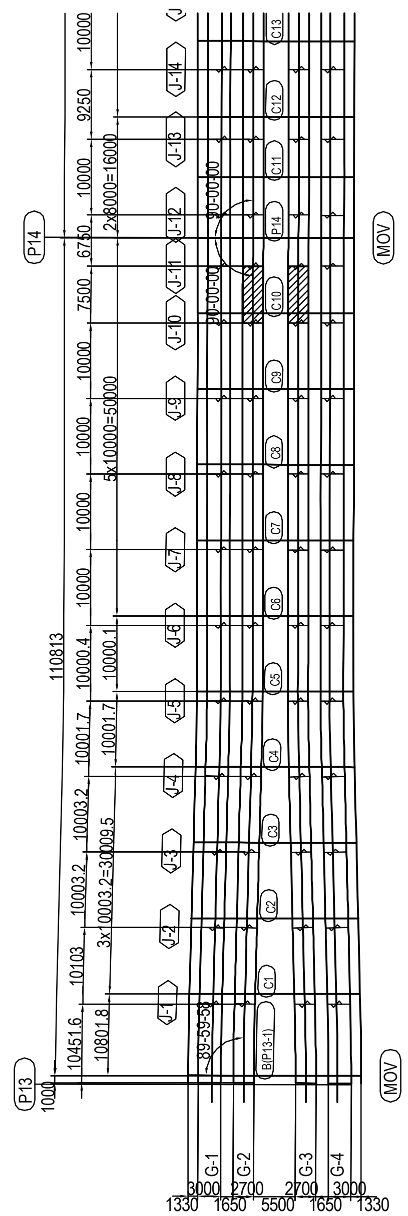


2-SPL PL 80x17x12200(SM570)
8-SPL PL 280x17x12200(SM570)
1-SPL PL 2930x15x1220(SM570)
416-TCB M22x105(S10T)
1-FILL PL 2930x8x608(SS400)



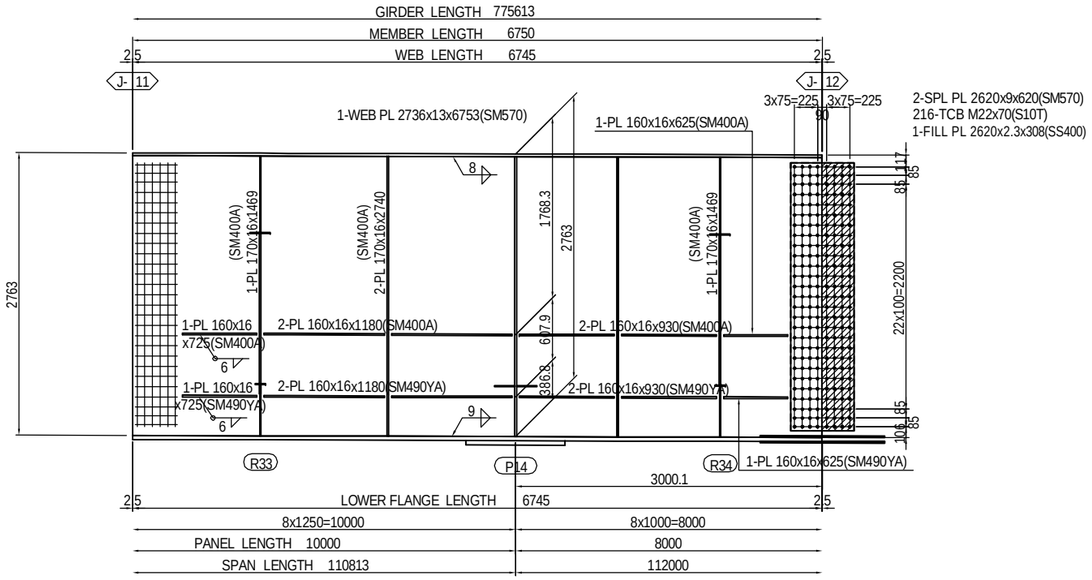
(RIB PLATE per set)
2-SPL PL 160x11x780(SM570)
20-TCB M22x80(S10T)

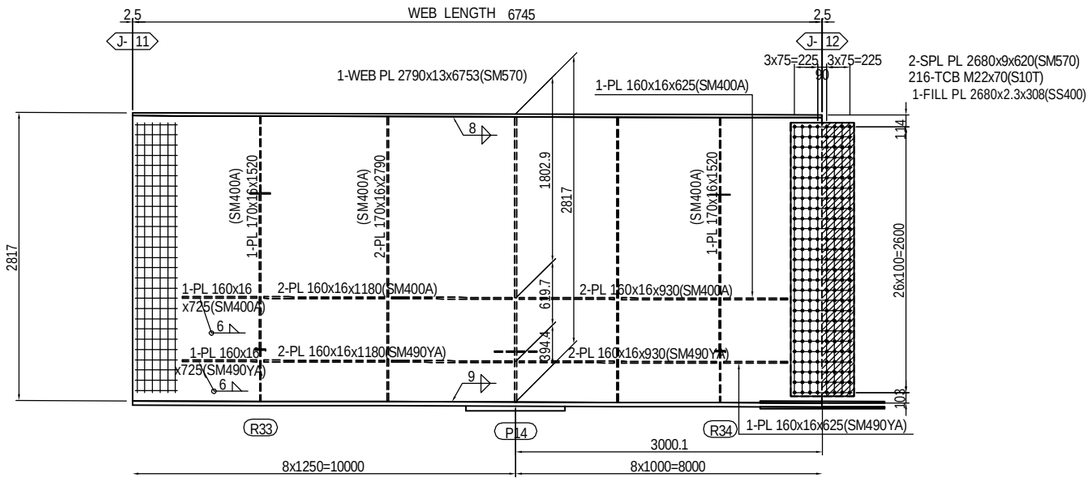
MARKING DIAGRAM

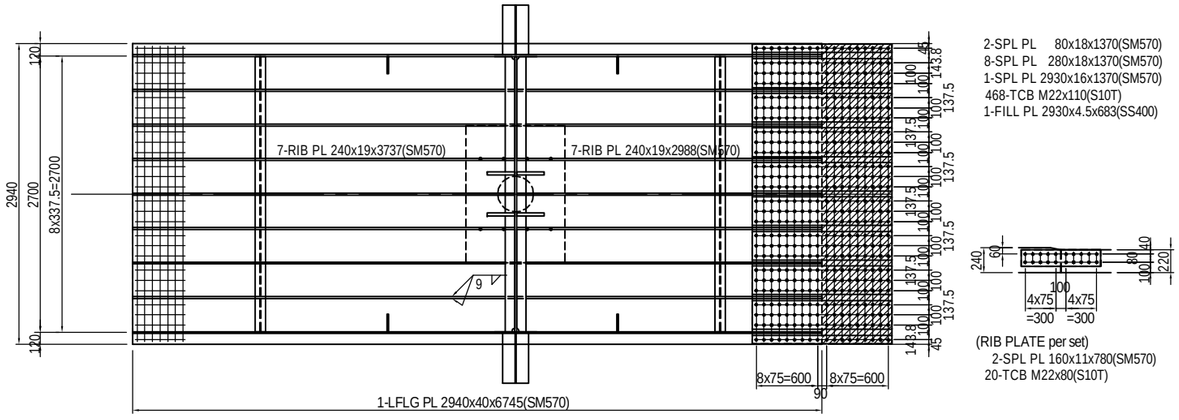


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA	(signature)	15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (11)	2
				CHECKED BY	T. HAYAKAWA	(signature)	20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO	(signature)	21 Jun.2017		P2-SB-1211

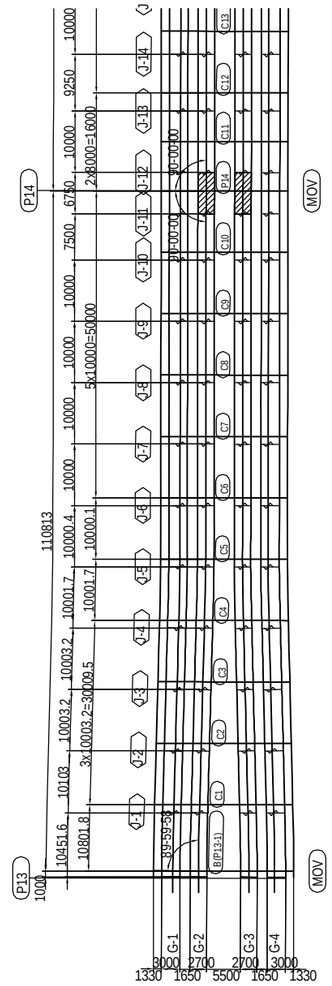
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (12) S=1:60







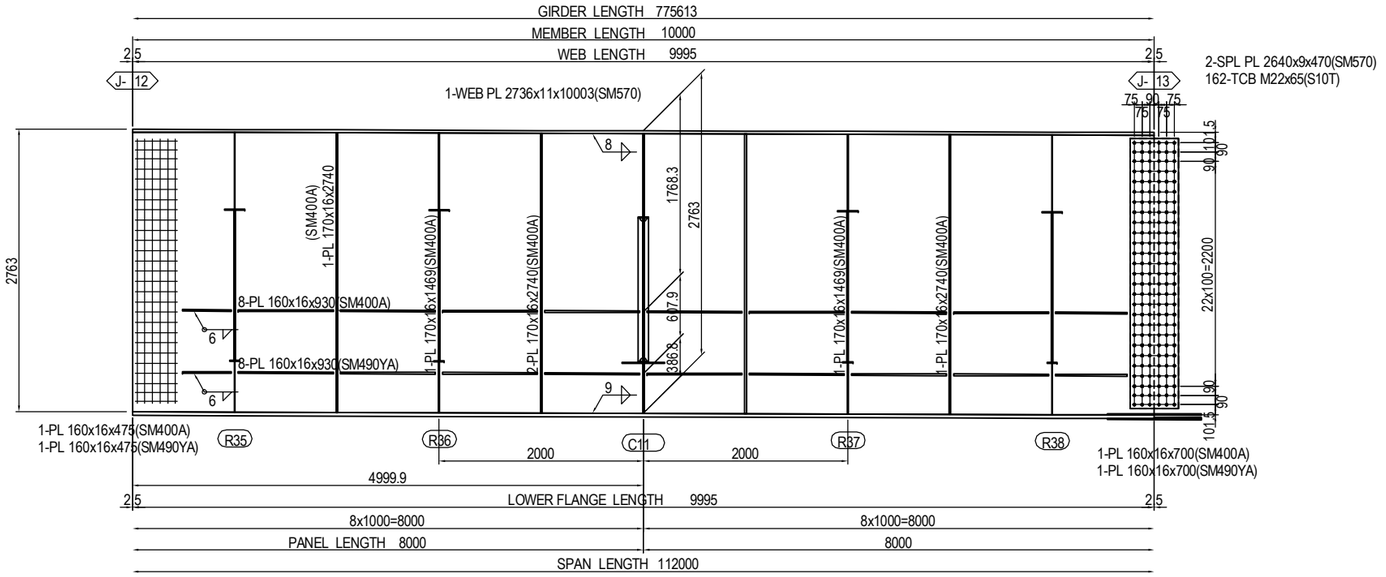
MARKING DIAGRAM



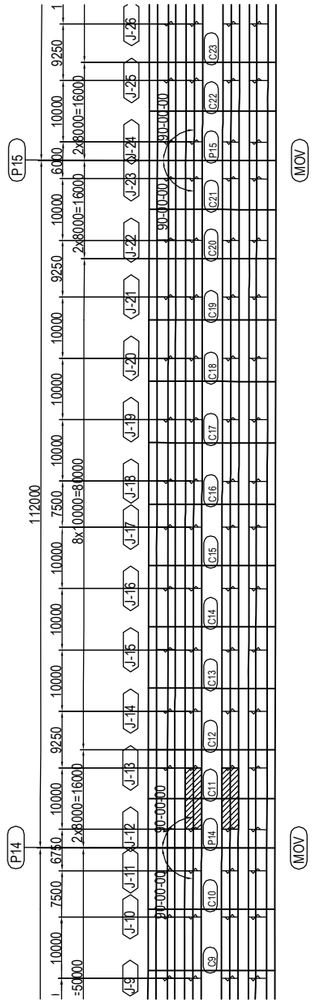
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (12)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1212

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (13) S=1:60



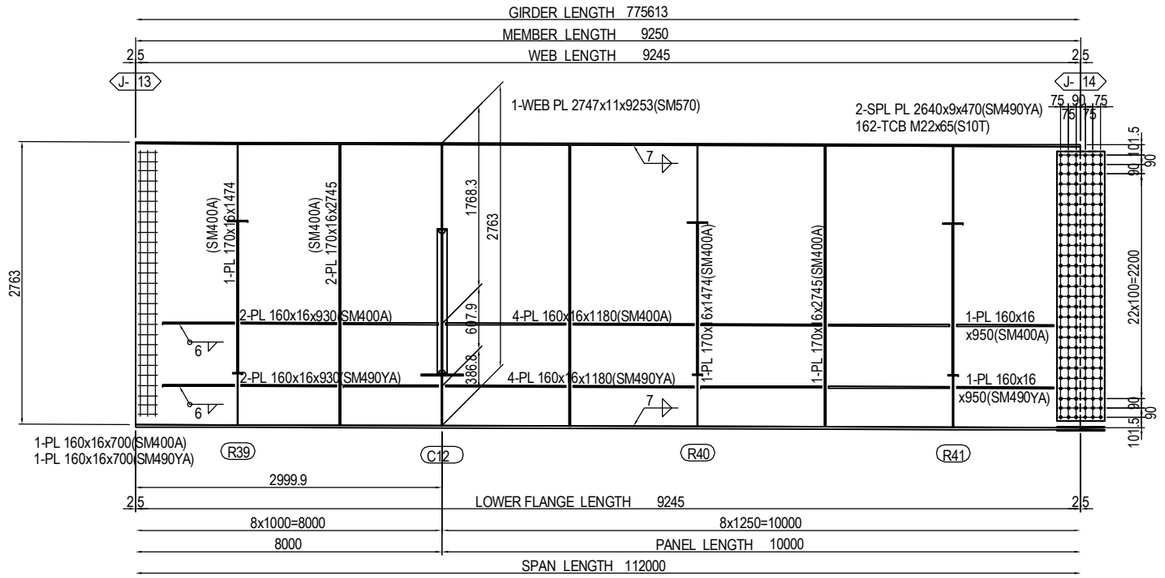
MARKING DIAGRAM



PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (13)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1213

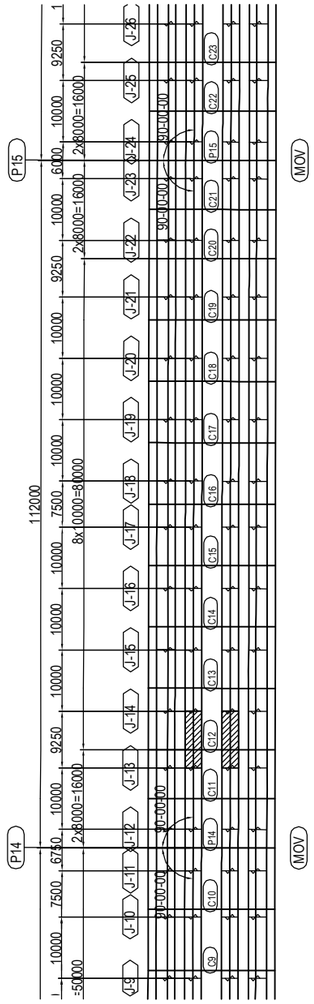
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (14) S=1:60



2-SPL PL 80x9x470(SM490YA)
4-SPL PL 620x9x470(SM490YA)
1-SPL PL 2930x9x470(SM490YA)
180-TCB M22x80(S10T)
1-FILL PL 2930x4.5x233(SS400)

(RIB PLATE per set)
2-SPL PL 160x9x480(SM490YA)
12-TCB M22x75(S10T)

MARKING DIAGRAM

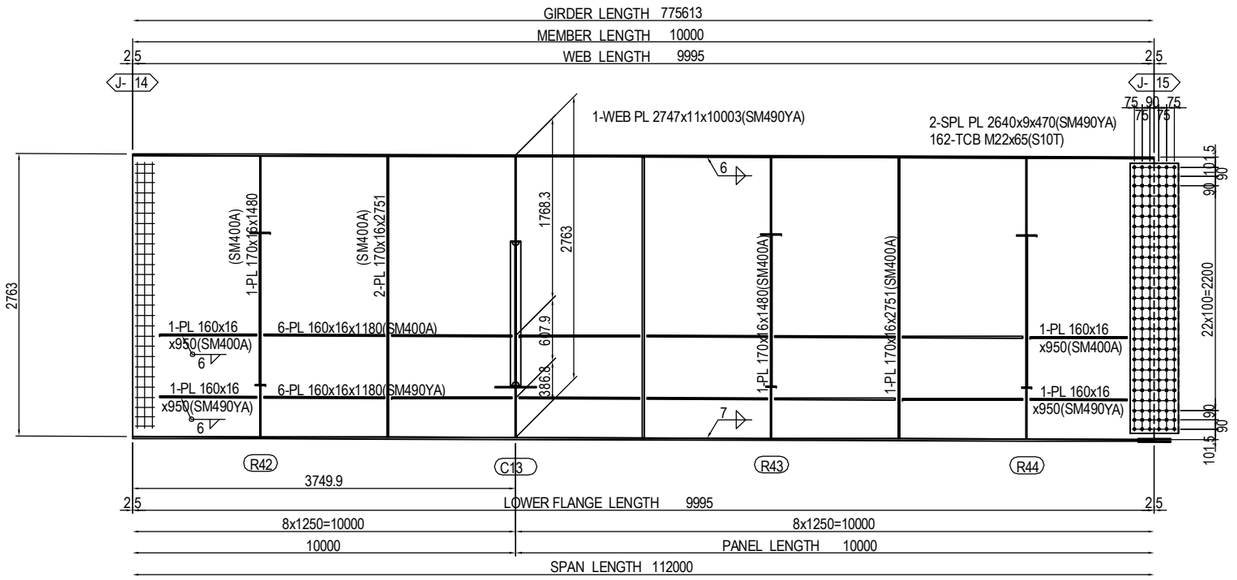


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (14)	2
	DWG No.
	P2-SB-1214

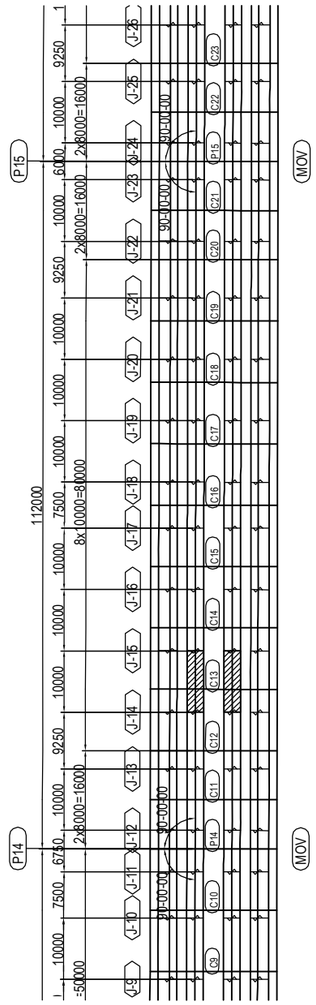
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (15) S=1:60



2-SPL PL 80x9x320(SM490YA)
4-SPL PL 620x9x320(SM490YA)
1-SPL PL 2930x9x320(SM490YA)
120-TCB M22x75(S10T)
1-FILL PL 2930x2.3x158(SS400)

(RIB PLATE per set)
2-SPL PL 160x11x480(SM490YA)
12-TCB M22x80(S10T)

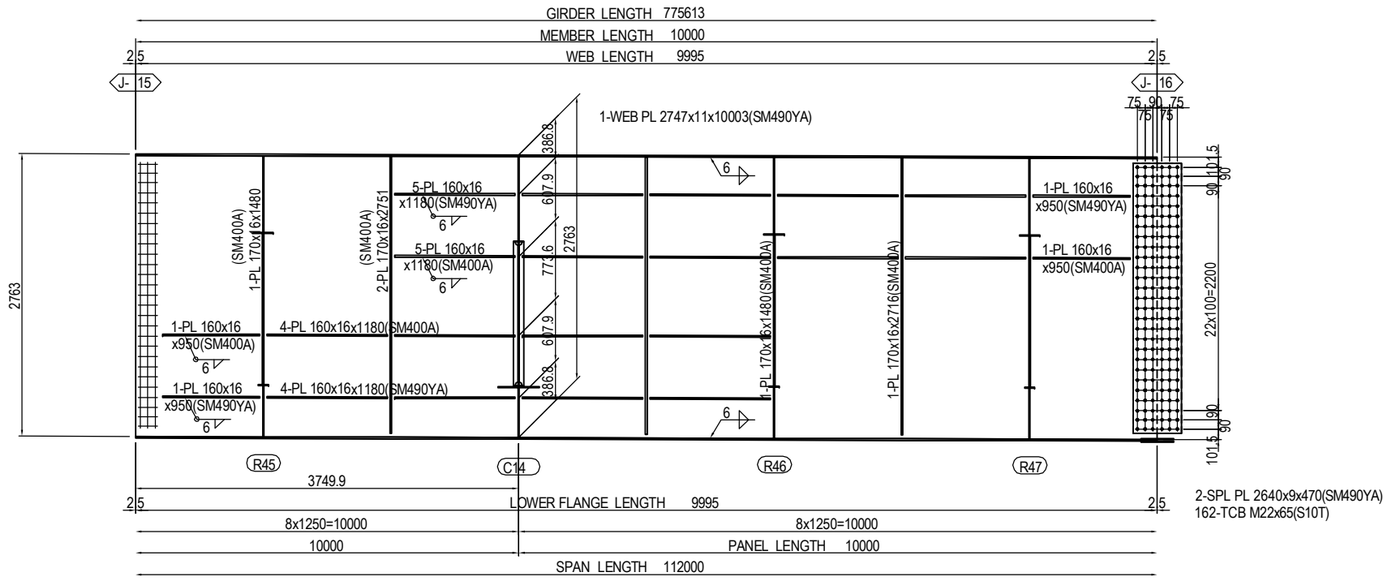
MARKING DIAGRAM

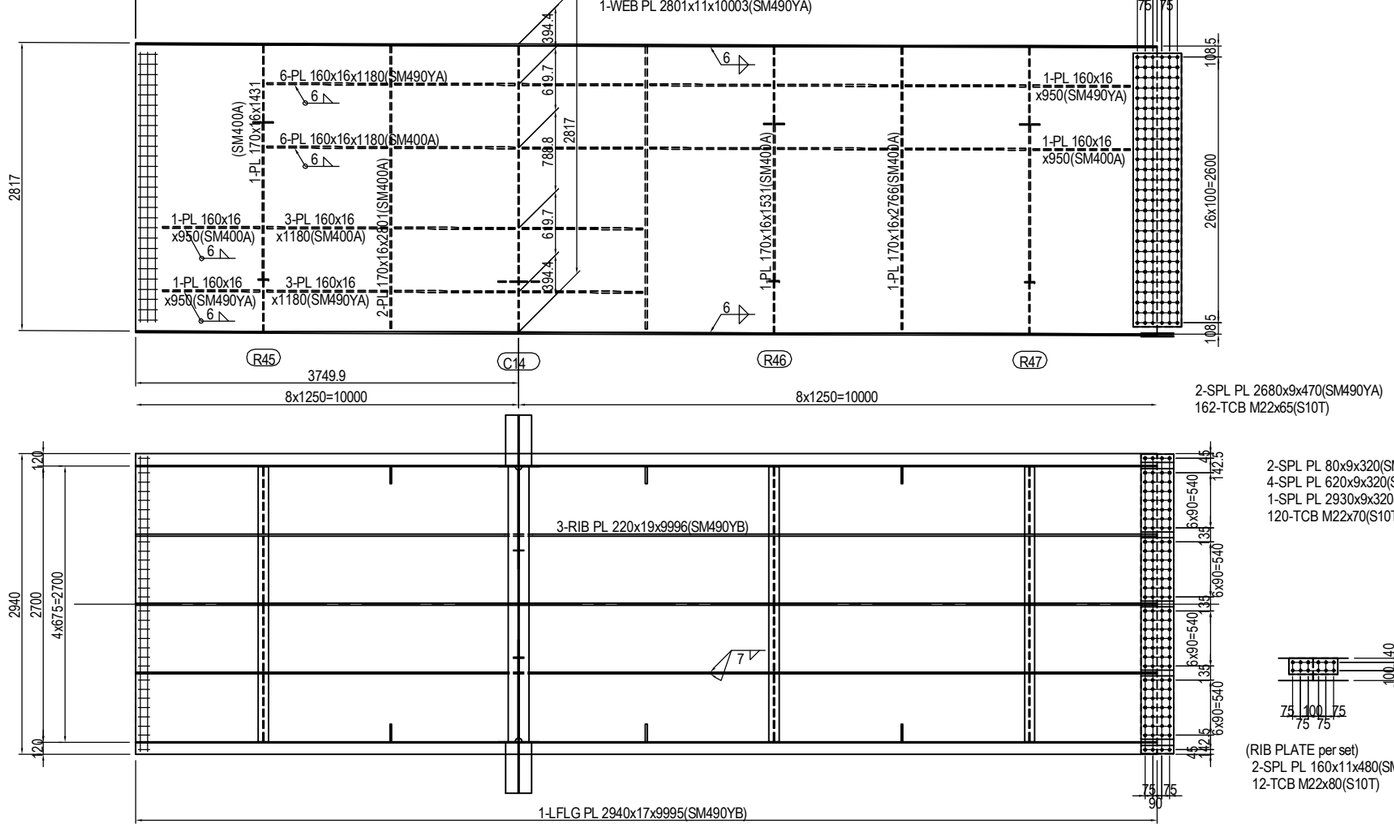


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

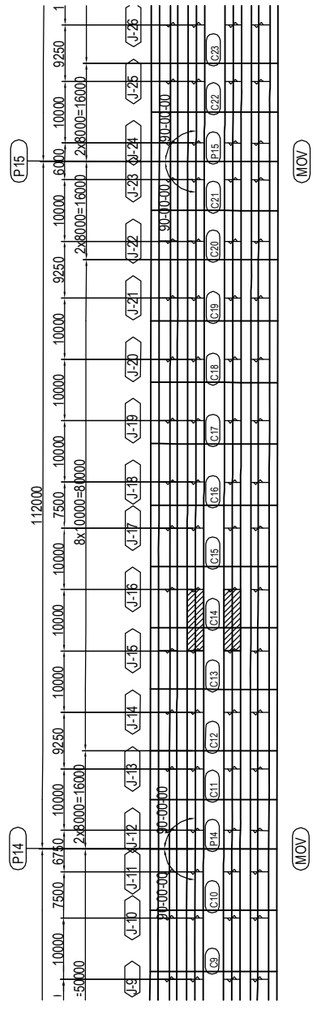
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (15)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1215

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (16) S=1:60





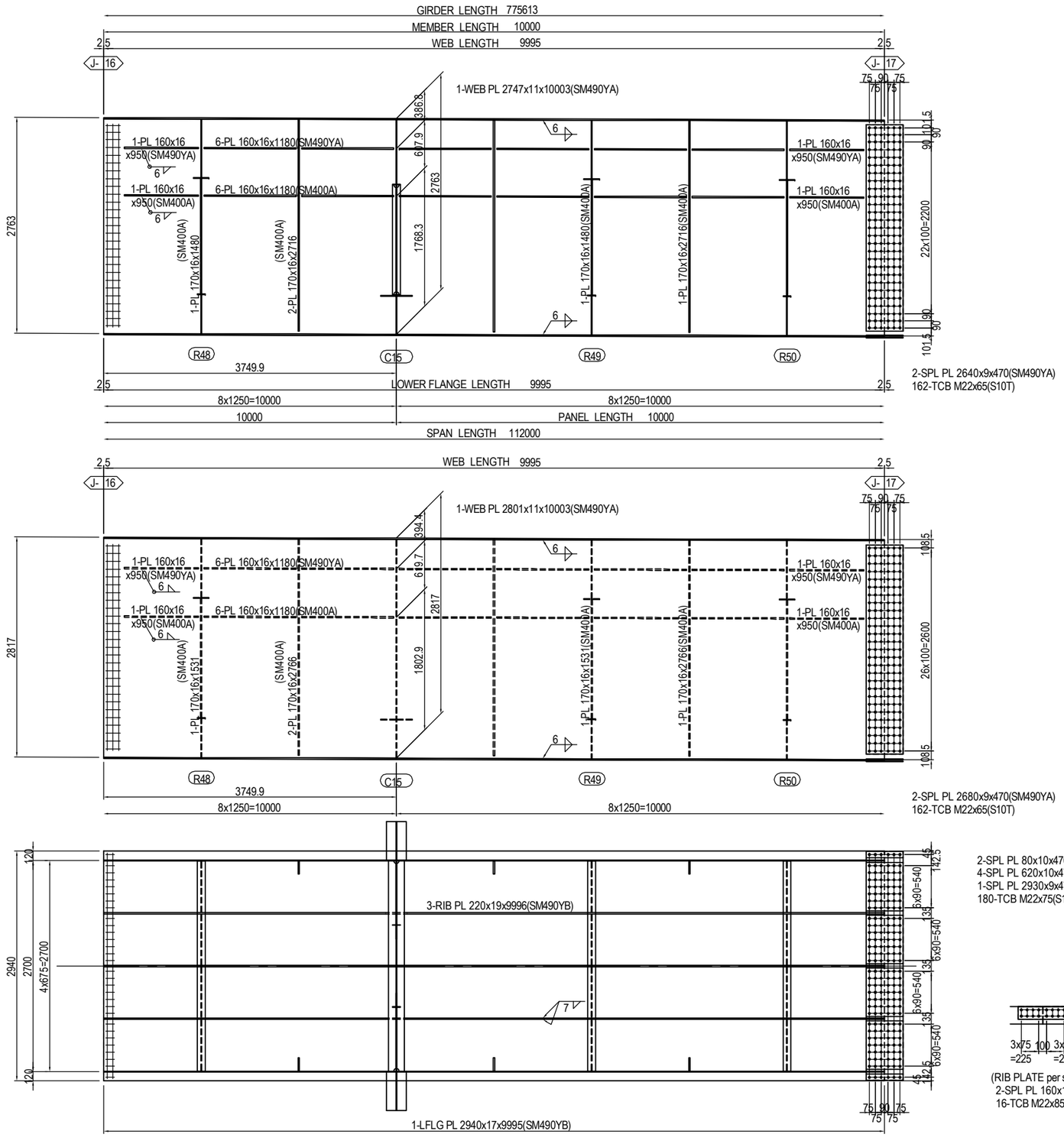
MARKING DIAGRAM



PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (16)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1216

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (17) S=1:60



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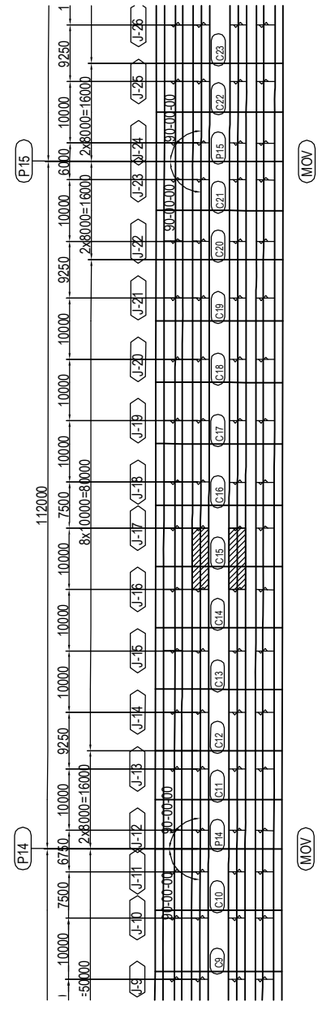
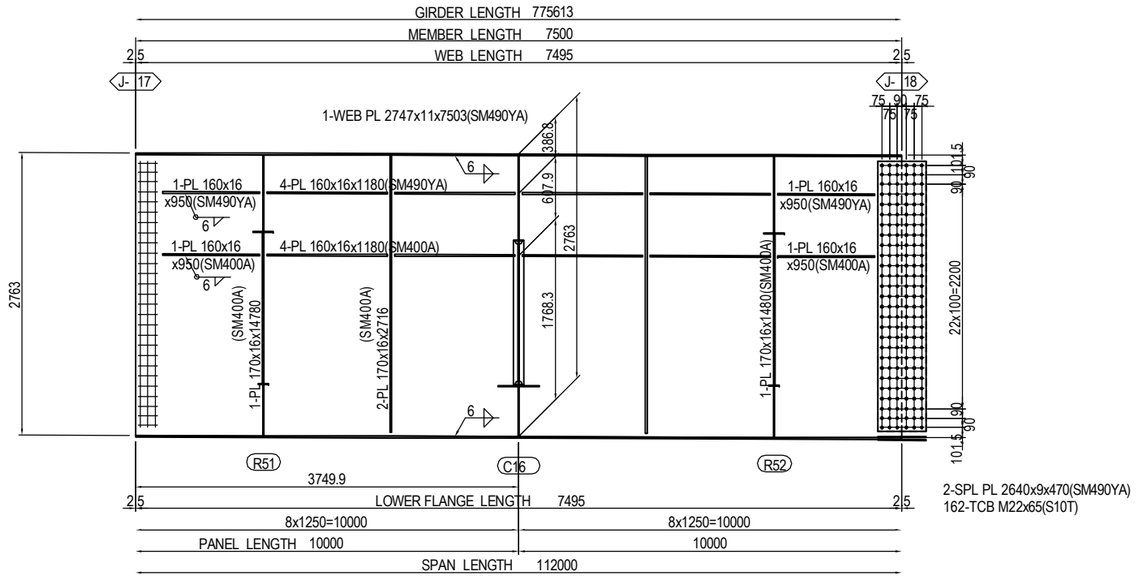
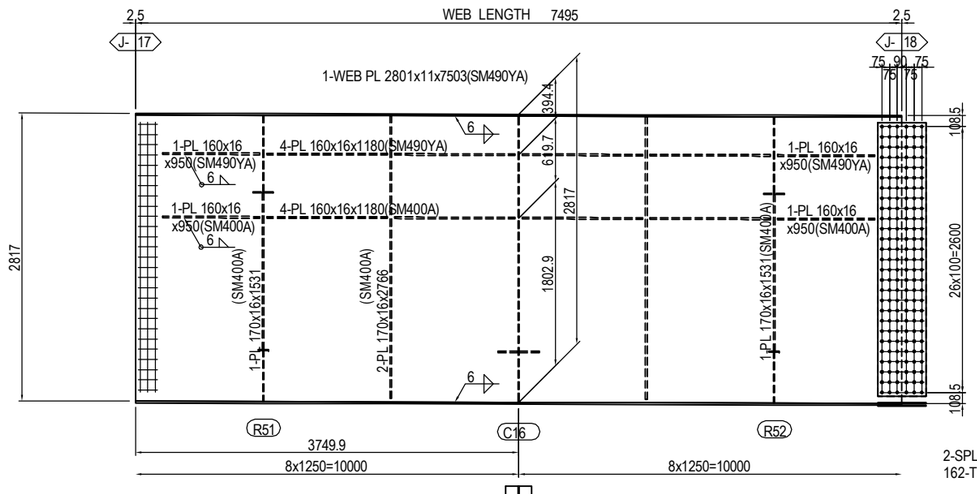
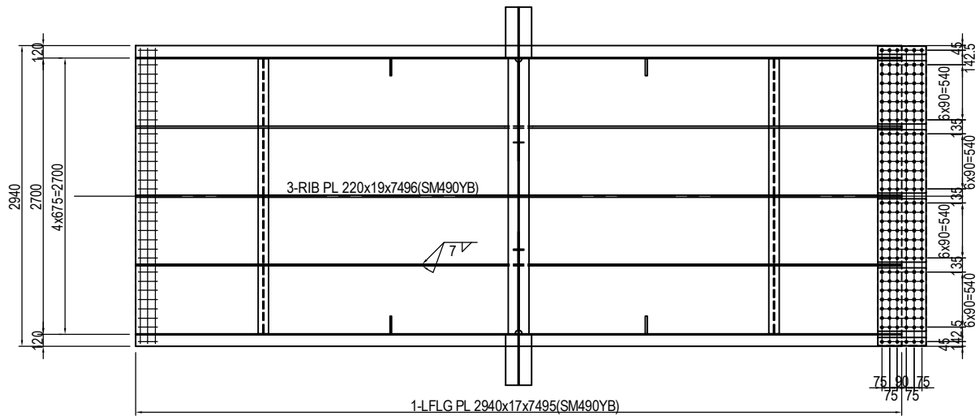


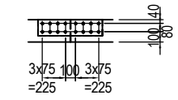
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (17)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1217

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (18) S=1:60

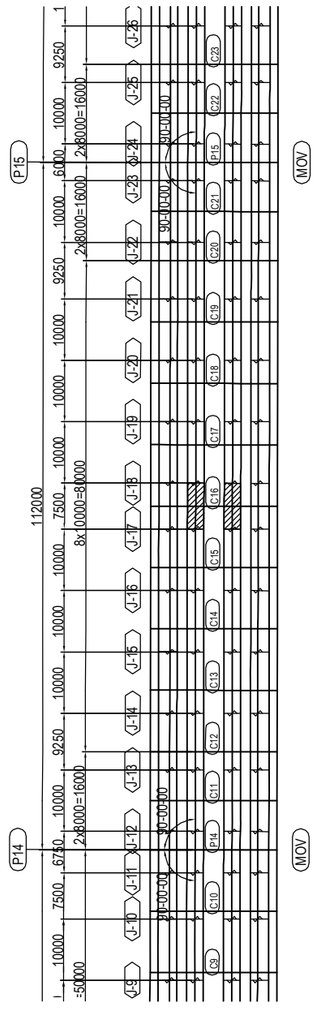








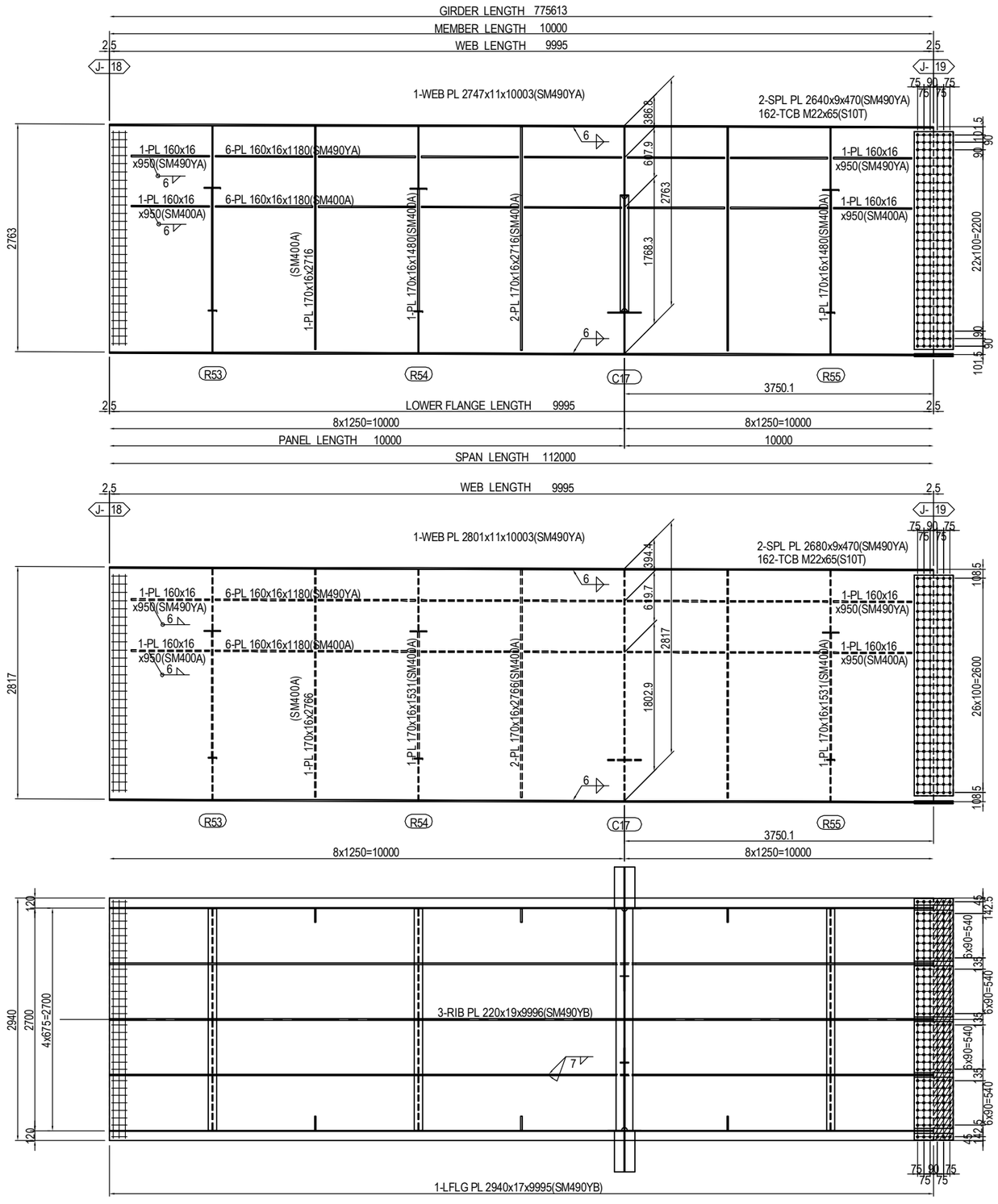
MARKING DIAGRAM

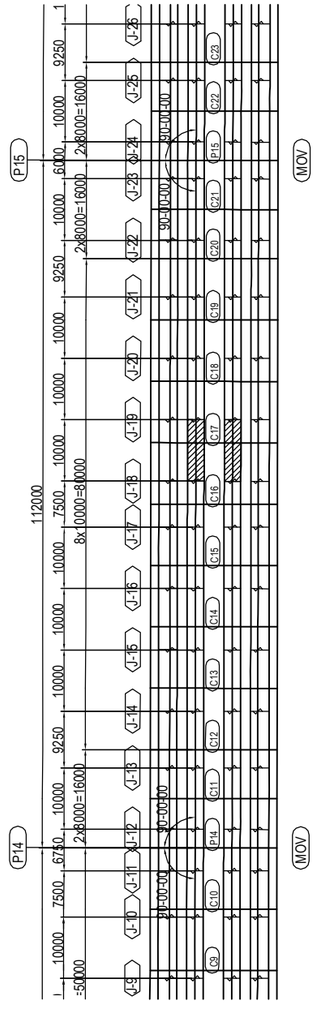


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

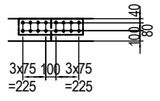
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (18)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1218

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (19) S=1:60





2-SPL PL 80x9x470(SM490YA)
4-SPL PL 620x9x470(SM490YA)
1-SPL PL 2930x9x470(SM490YA)
180-TCB M22x75(S10T)
1-FILL PL 2930x2.3x233(SS400)



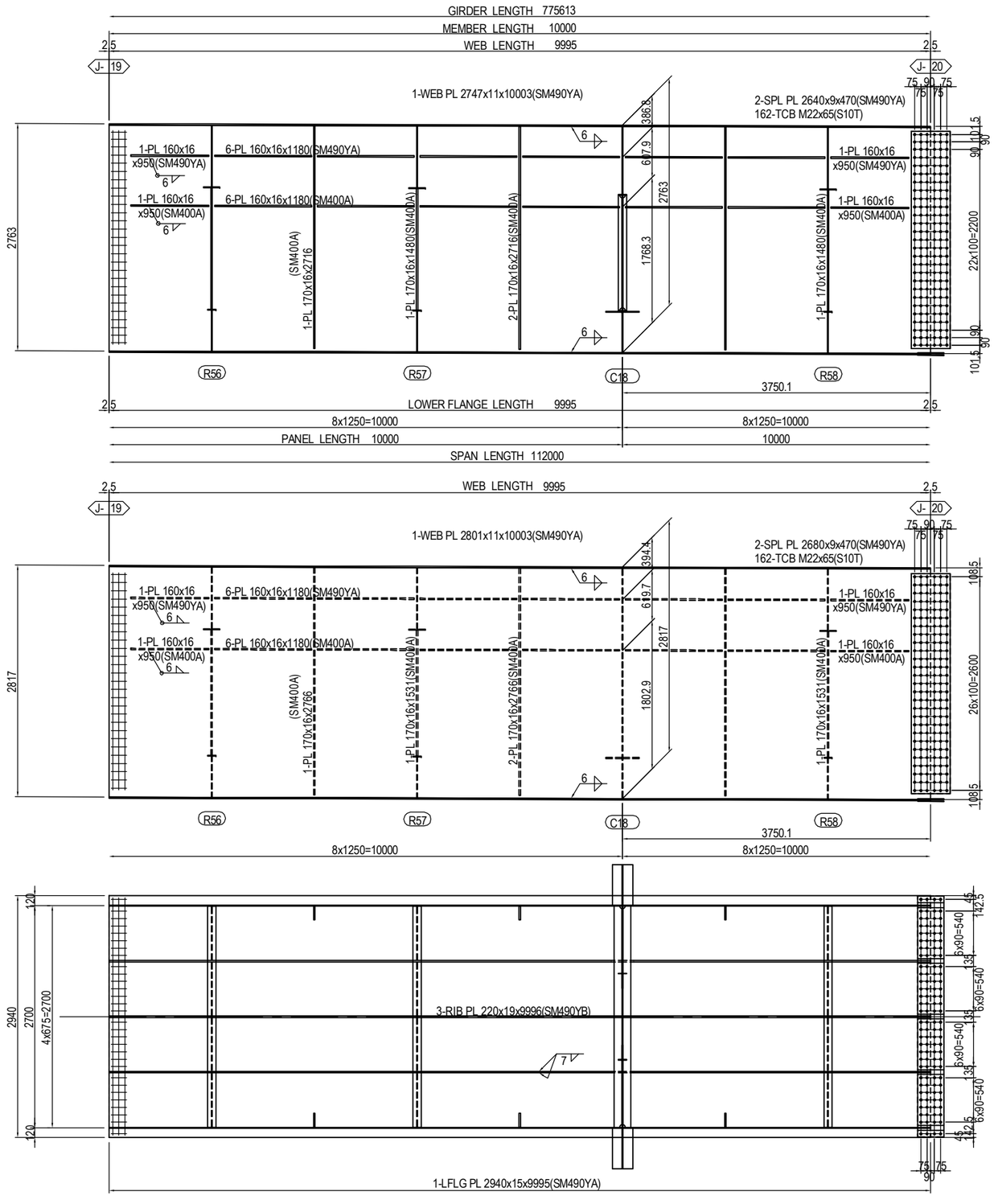
(RIB PLATE per set)
2-SPL PL 160x14x630(SM490YA)
16-TCB M22x85(S10T)

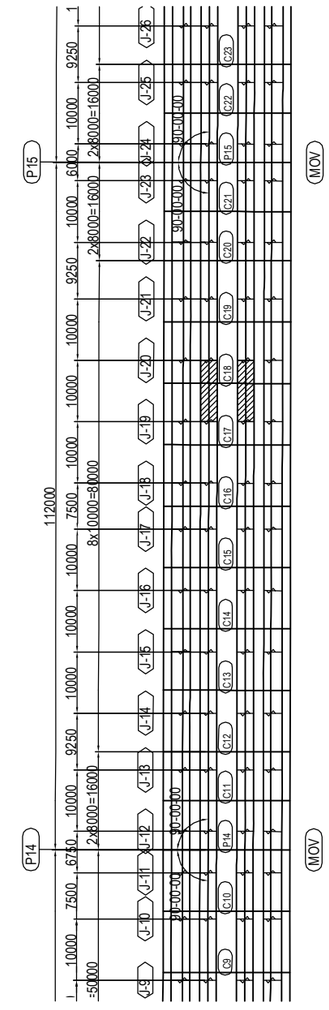
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

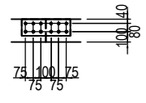
DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (19)	2
	DWG No.
	P2-SB-1219

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (20) S=1:60





2-SPL PL 80x9x320(SM490YA)
4-SPL PL 620x9x320(SM490YA)
1-SPL PL 2930x9x320(SM490YA)
120-TCB M22x70(S10T)



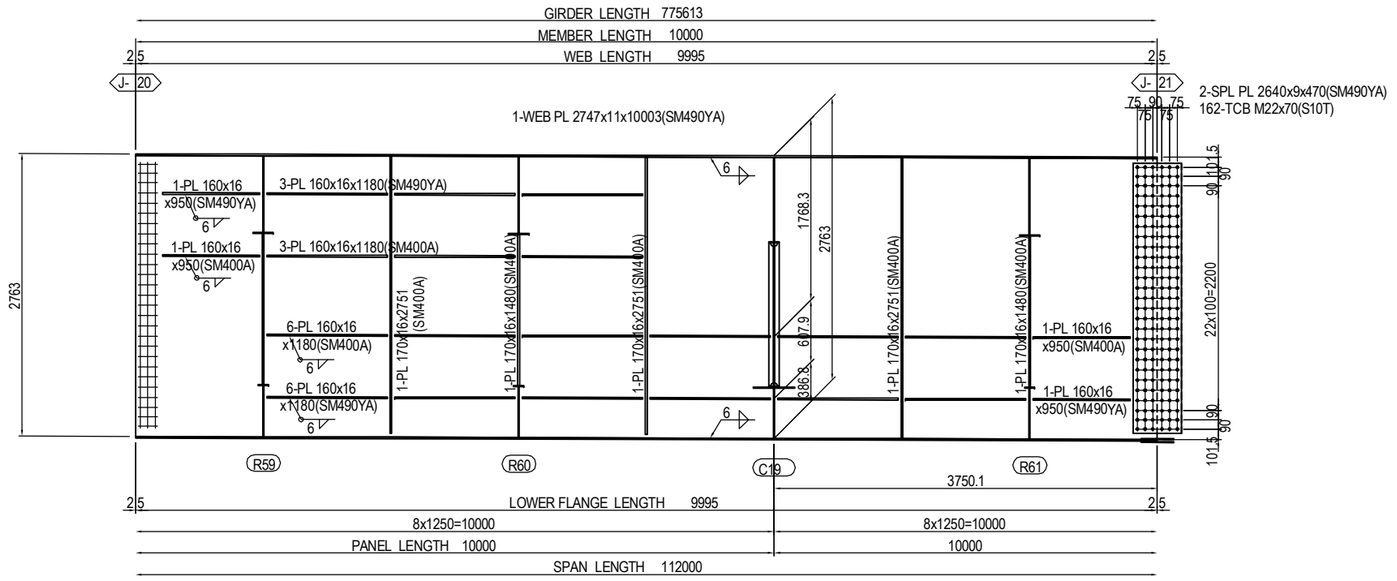
(RIB PLATE per set)
2-SPL PL 160x11x480(SM490YA)
12-TCB M22x80(S10T)

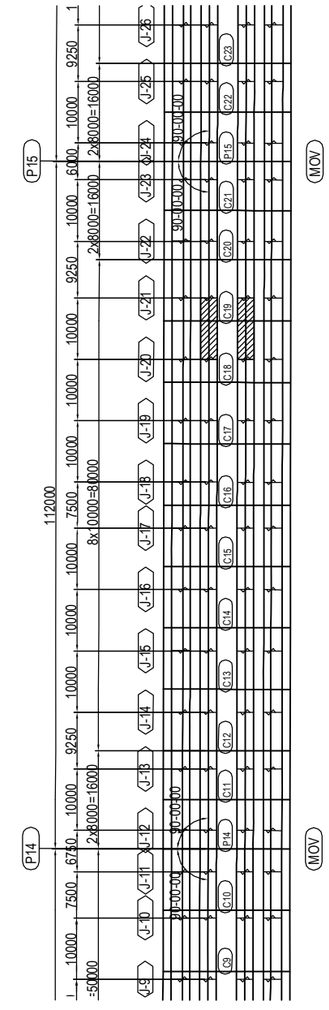
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (20)	2
	DWG No.
	P2-SB-1220

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (21) S=1:60



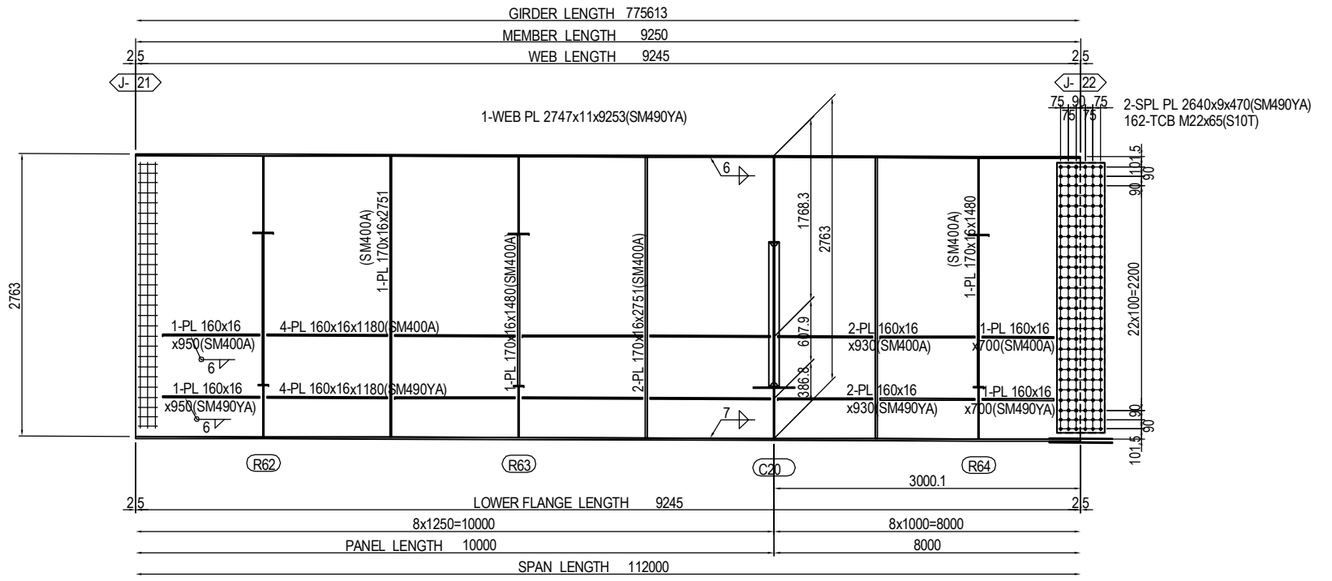


2-SPL PL 80x9x320(SM490YA)
4-SPL PL 620x9x320(SM490YA)
1-SPL PL 2930x9x320(SM490YA)
120-TCB M22x75(S10T)
1-FILL PL 2930x4.5x158(SS400)

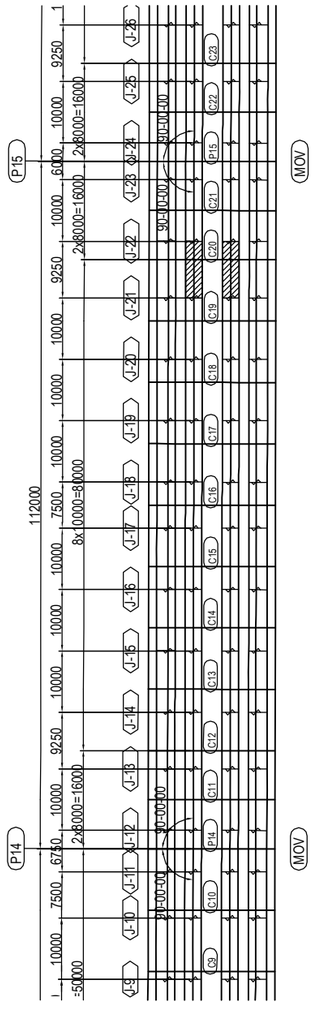
(RIB PLATE per set)
2-SPL PL 160x11x480(SM490YA)
12-TCB M22x80(S10T)

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME / SIGNATURE / DATE	DRAWING TITLE / PACKAGE
				PREPARED BY: S. IMADA 15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (21)
				CHECKED BY: T. HAYAKAWA 20 Jun.2017	PACKAGE: 2
				APPROVED BY: Y. SANO 21 Jun.2017	DWG No.: P2-SB-1221

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (22) S=1:60



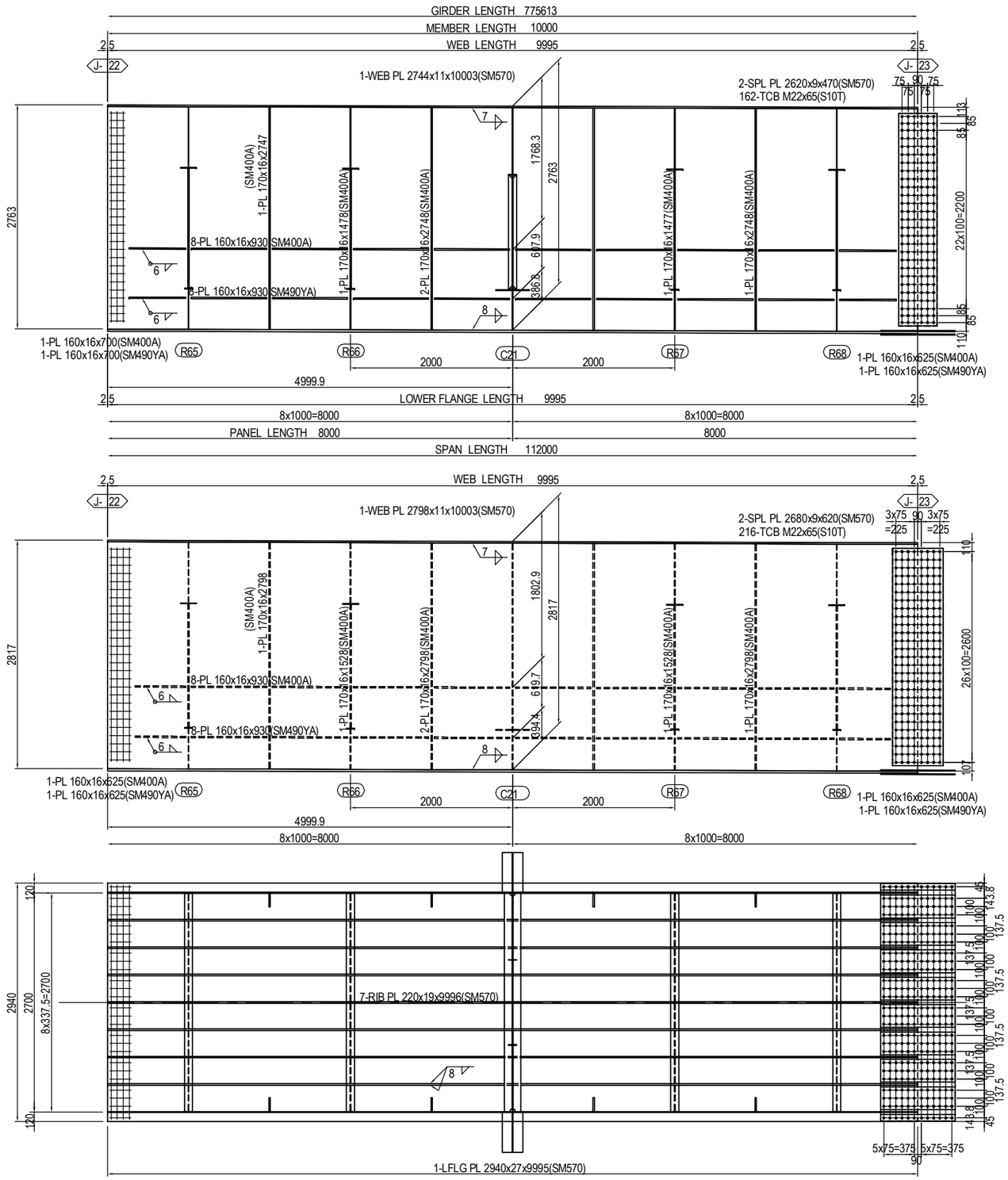
MARKING DIAGRAM



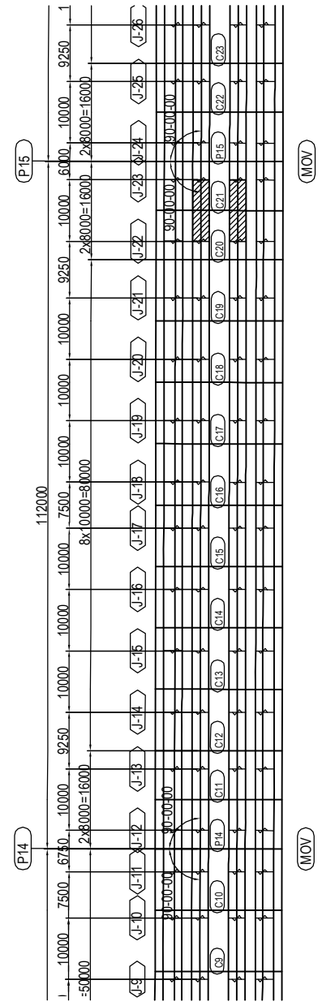
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (22)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1222

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (23) S=1:60



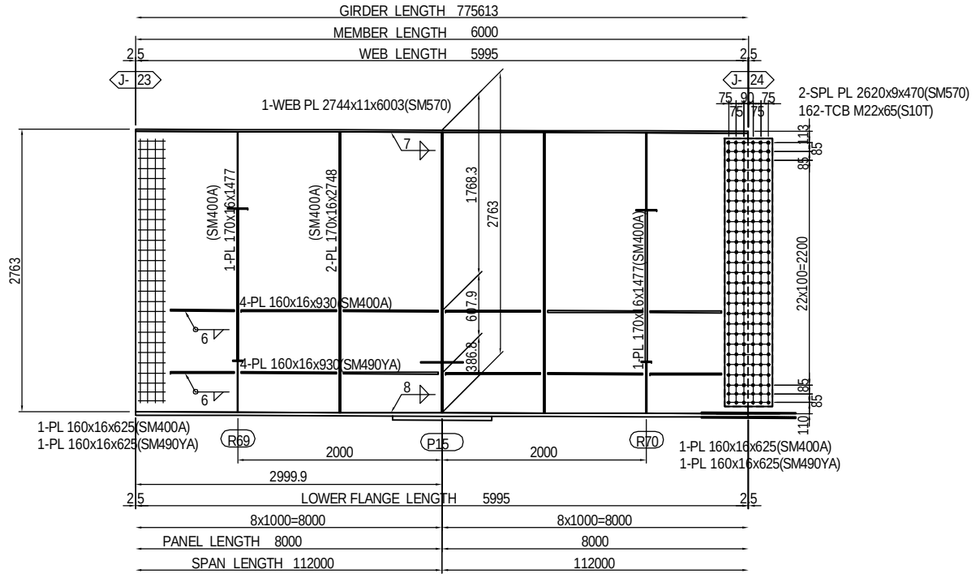
MARKING DIAGRAM

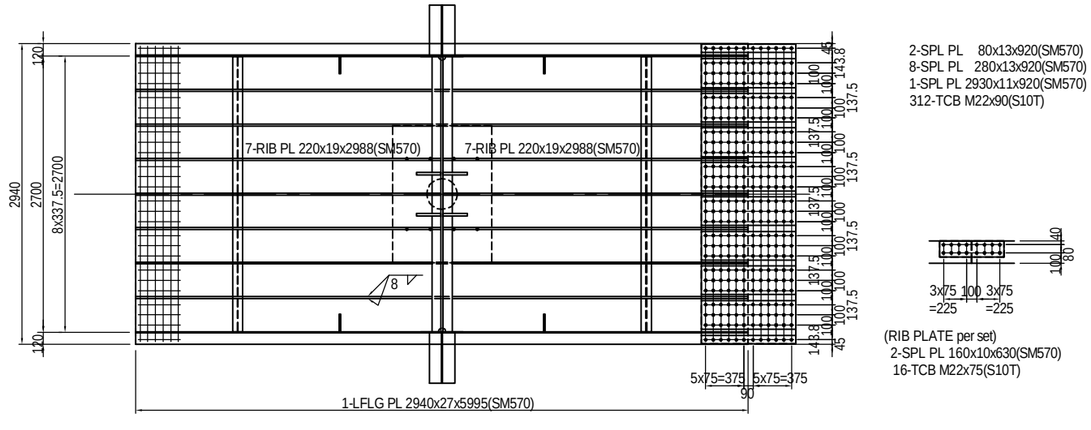


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (23)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1223

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (24) S=1:60

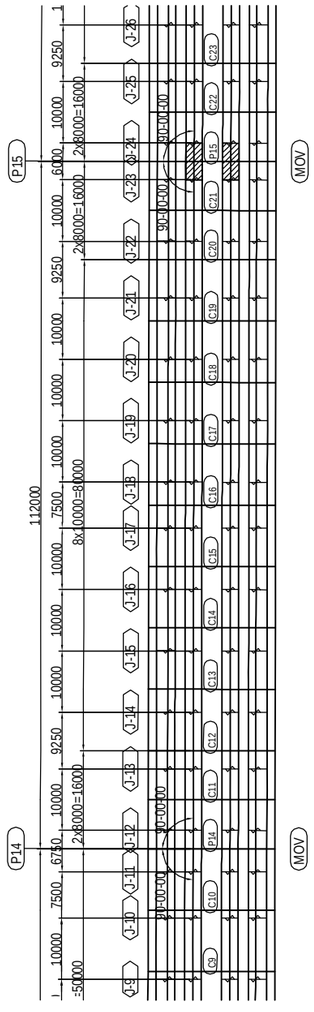




2-SPL PL 80x13x920(SM570)
8-SPL PL 280x13x920(SM570)
1-SPL PL 2930x11x920(SM570)
312-TCB M22x90(S10T)

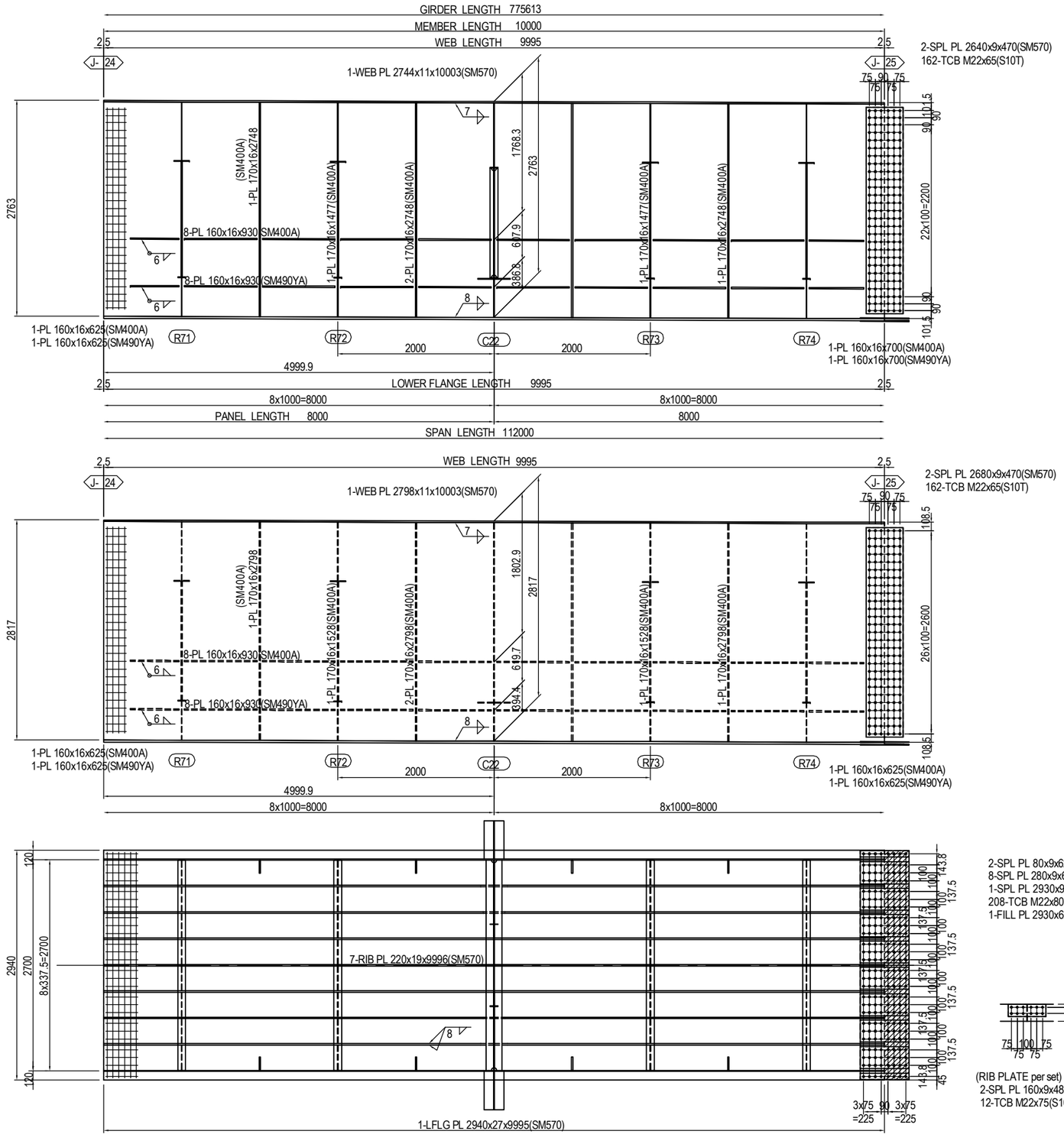
(RIB PLATE per set)
2-SPL PL 160x10x630(SM570)
16-TCB M22x75(S10T)

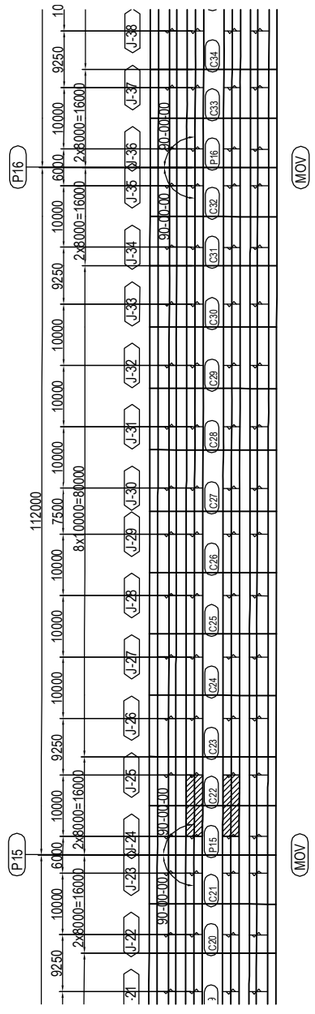
MARKING DIAGRAM



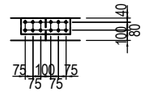
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (24)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1224

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (25) S=1:60





2-SPL PL 80x9x620(SM570)
8-SPL PL 280x9x620(SM570)
1-SPL PL 2930x9x620(SM570)
208-TCB M22x80(S10T)
1-FILL PL 2930x6x308(SS400)



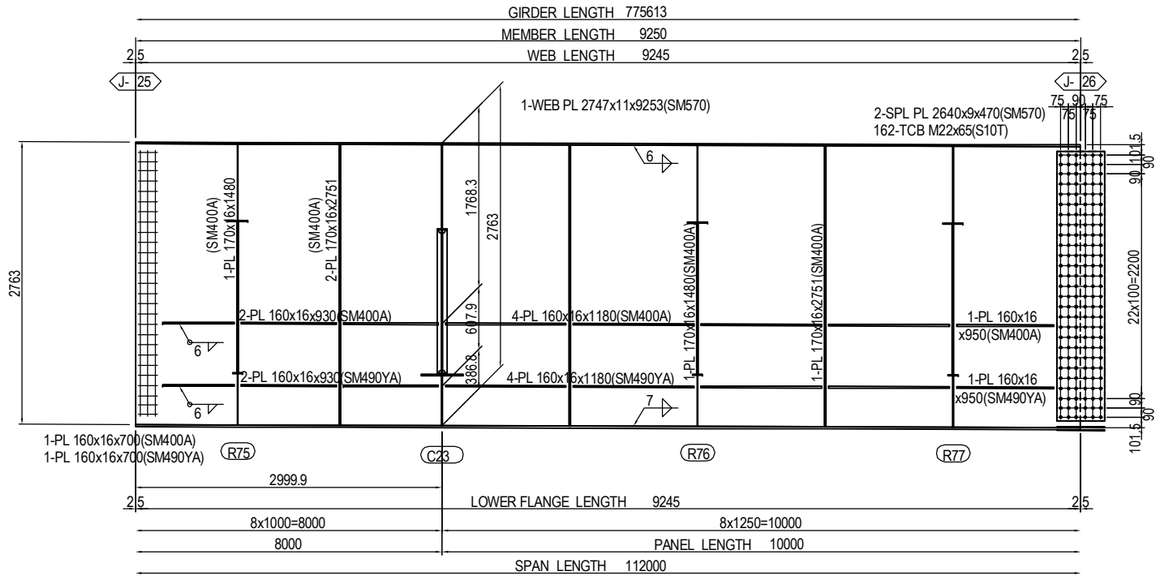
(RIB PLATE per set)
2-SPL PL 160x9x480(SM570)
12-TCB M22x75(S10T)

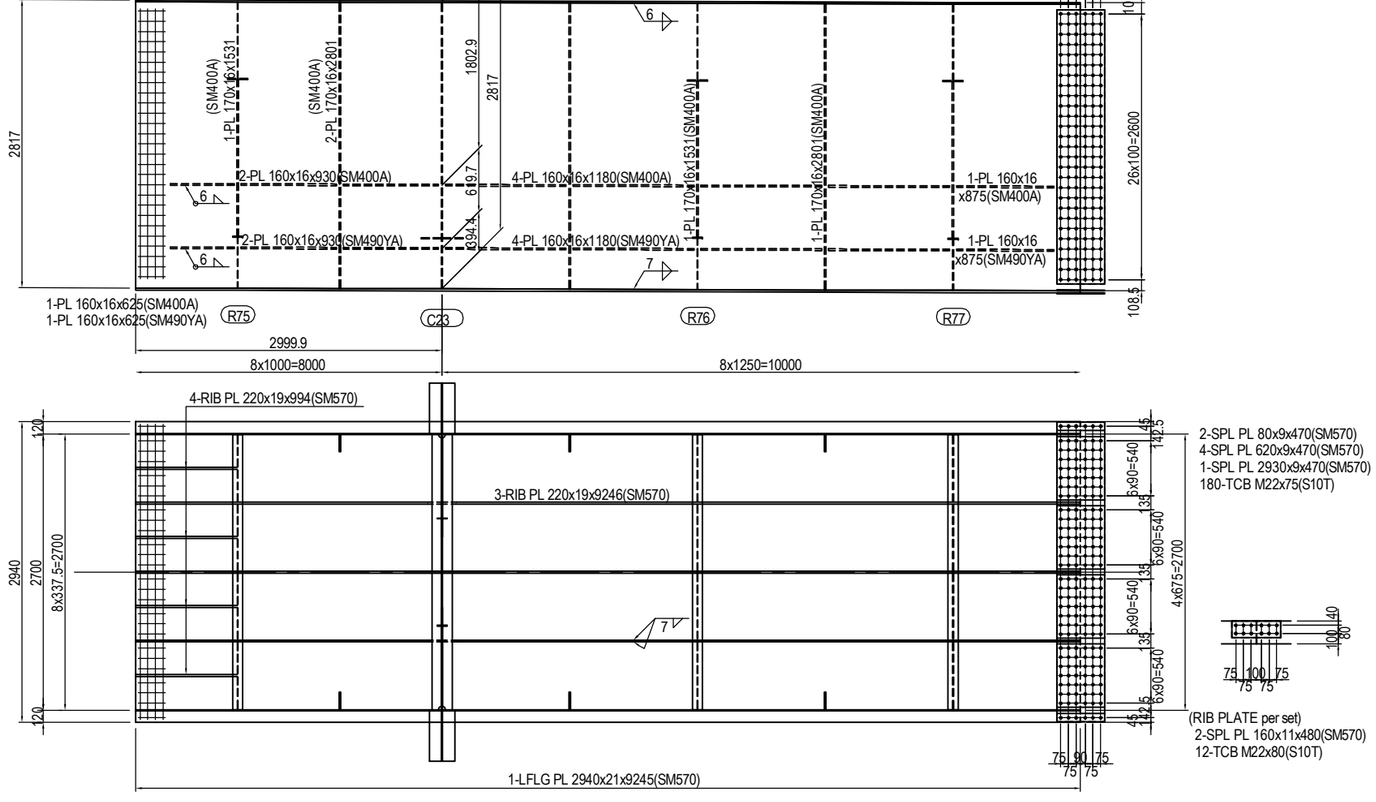
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

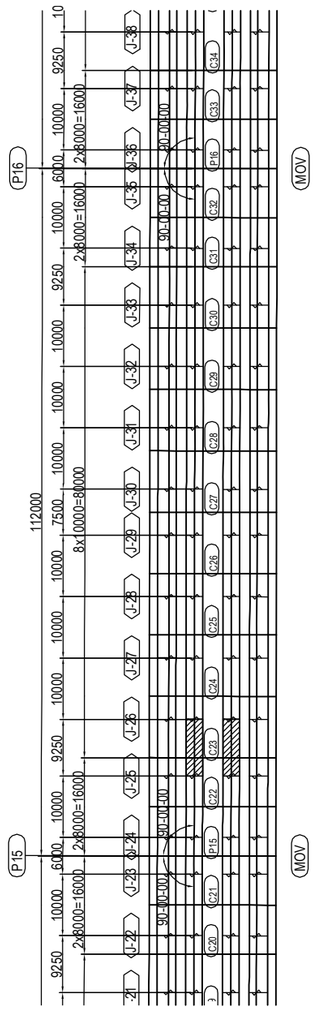
DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (25)	2
	DWG No.
	P2-SB-1225

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (26) S=1:60





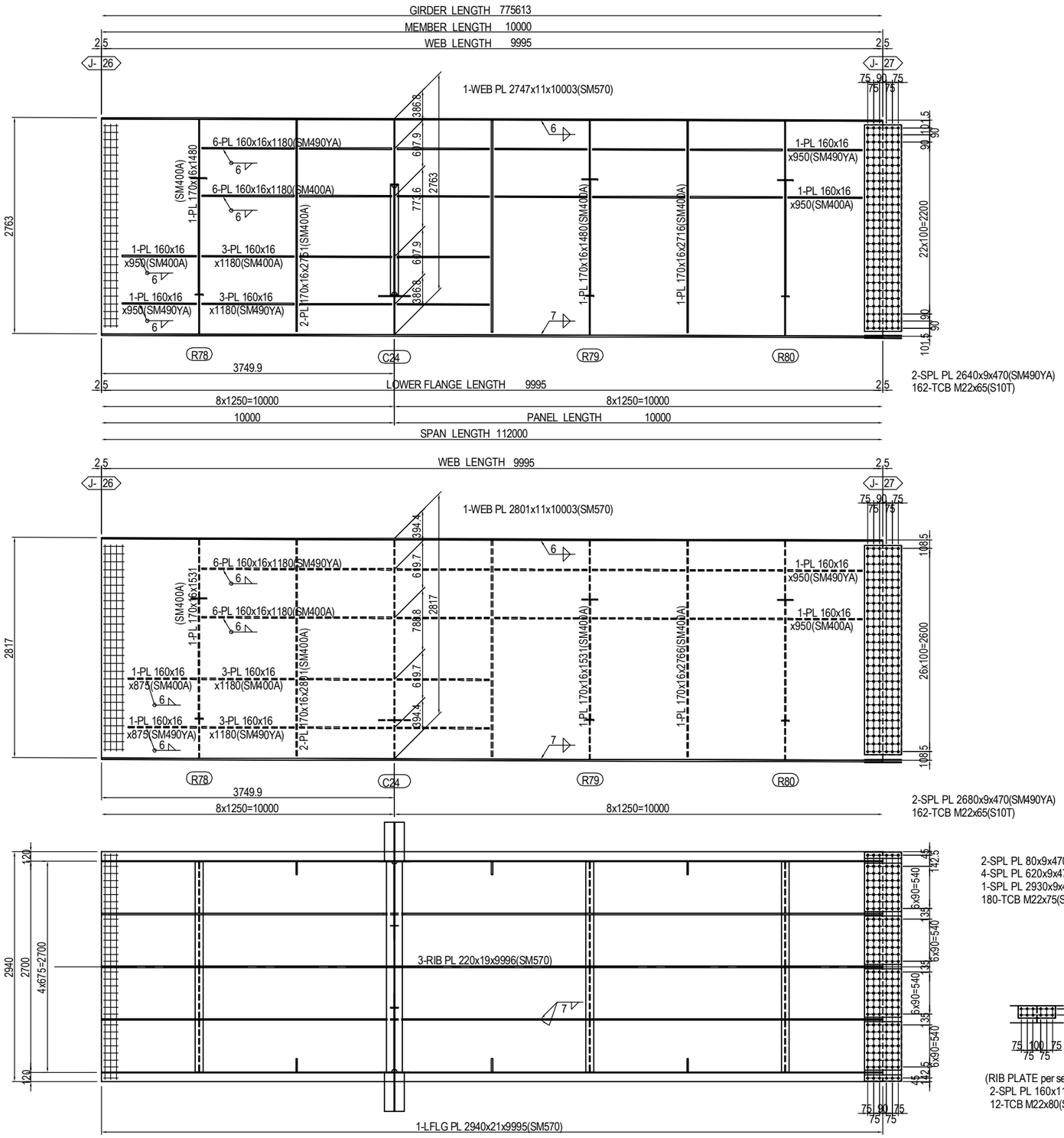
MARKING DIAGRAM



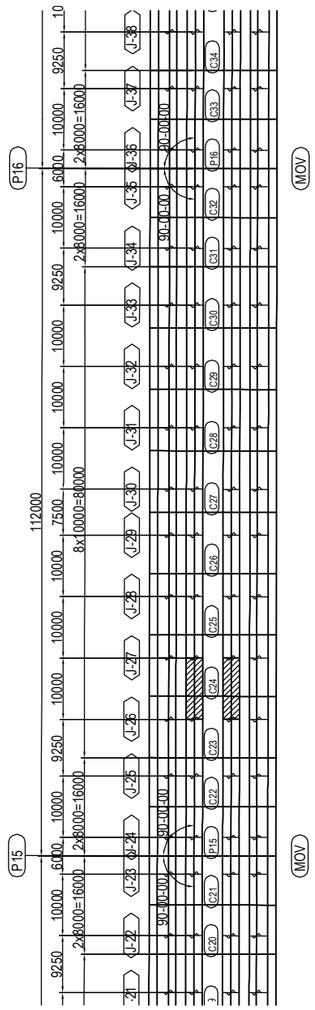
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (26)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1226

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (27) S=1:60

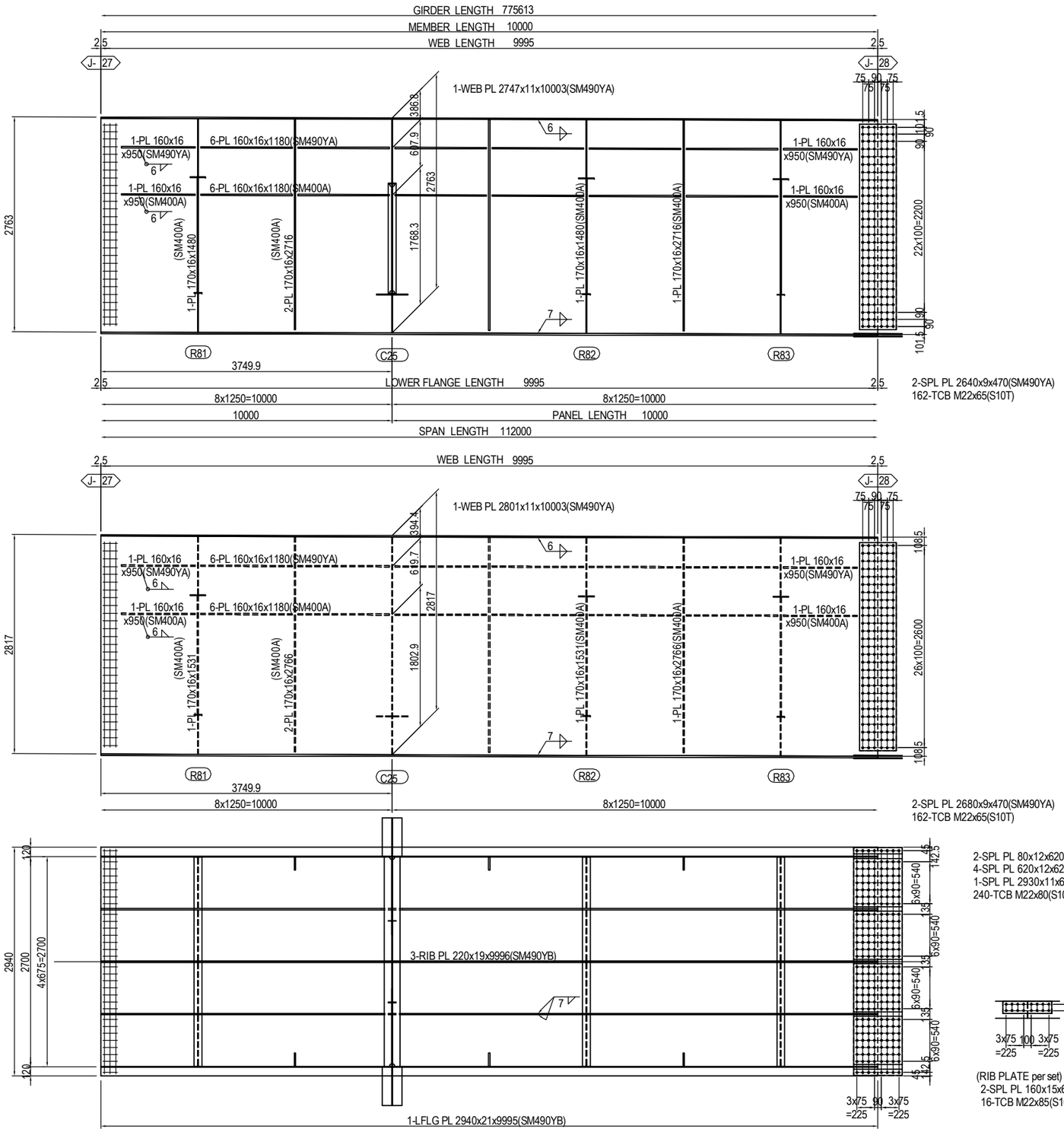


MARKING DIAGRAM

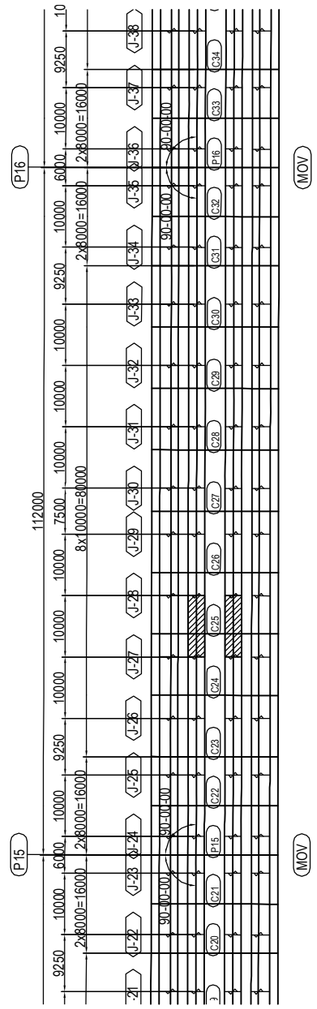


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (27)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1227

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (28) S=1:60

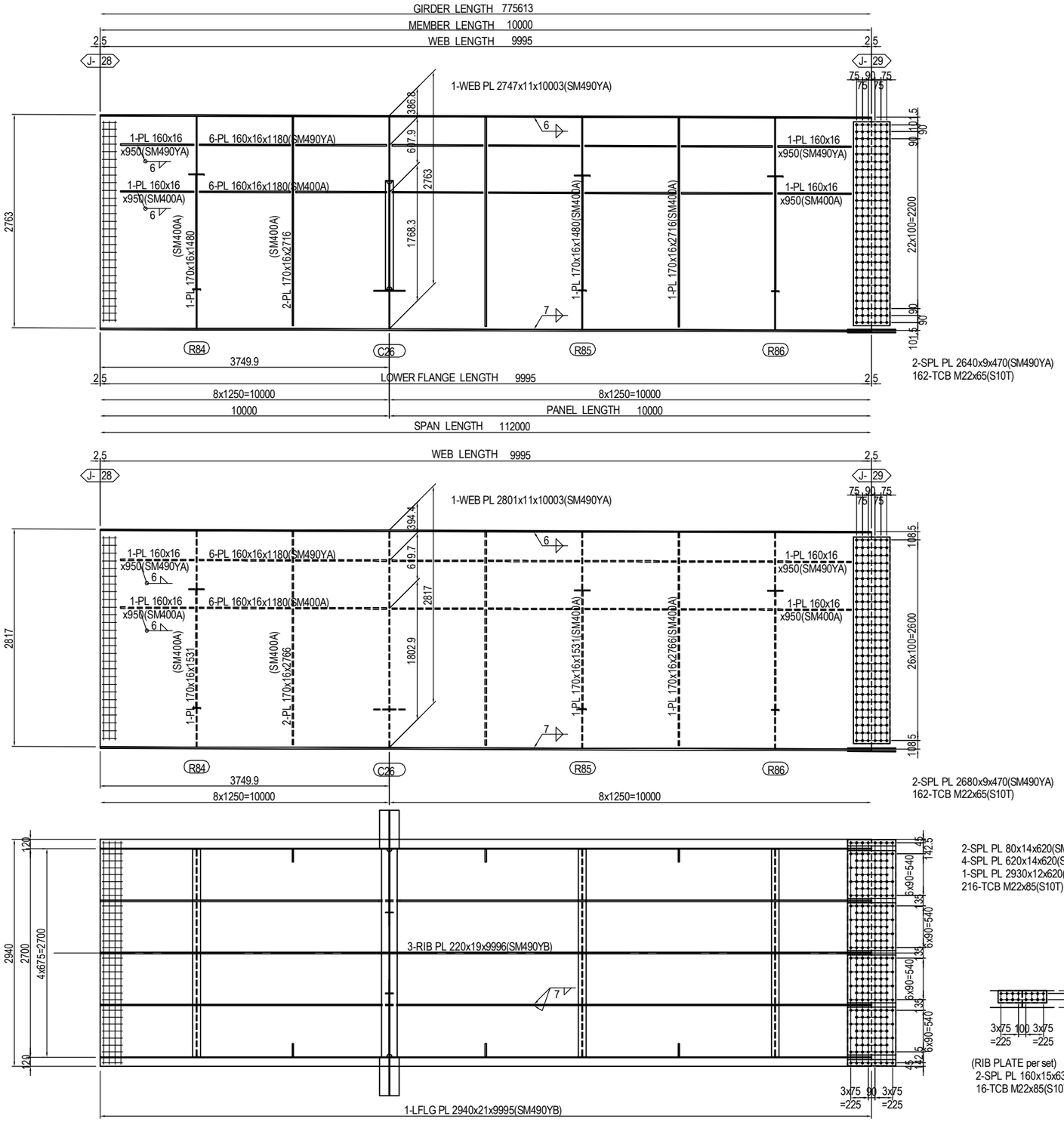


MARKING DIAGRAM

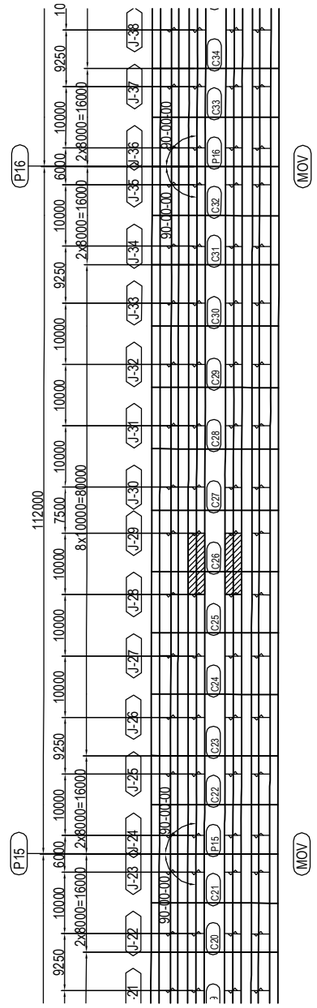


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (28)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1228

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (29) S=1:60



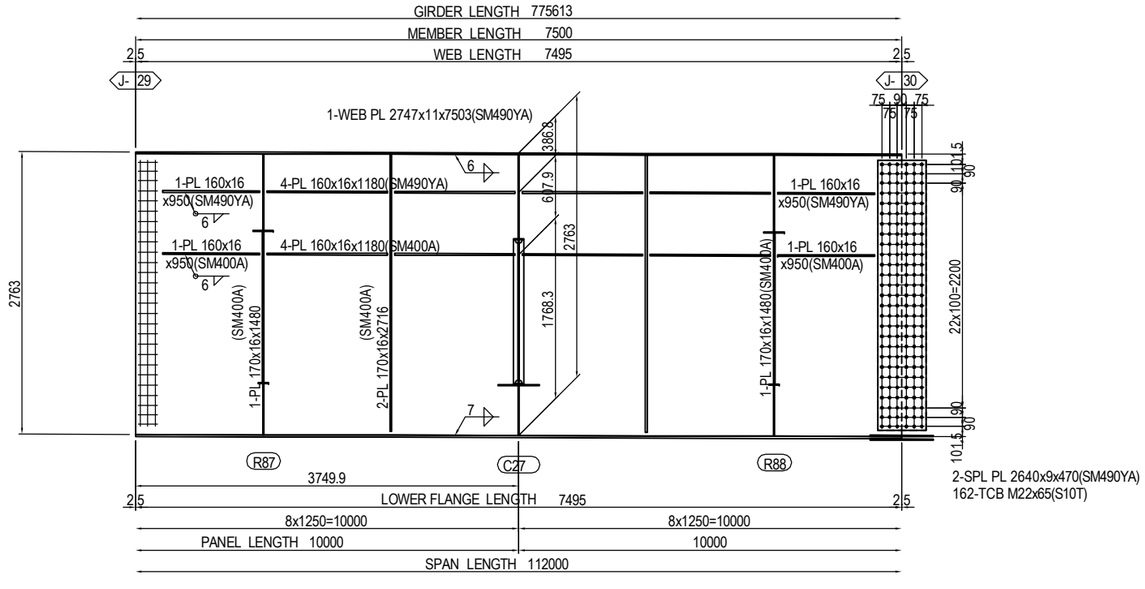
MARKING DIAGRAM

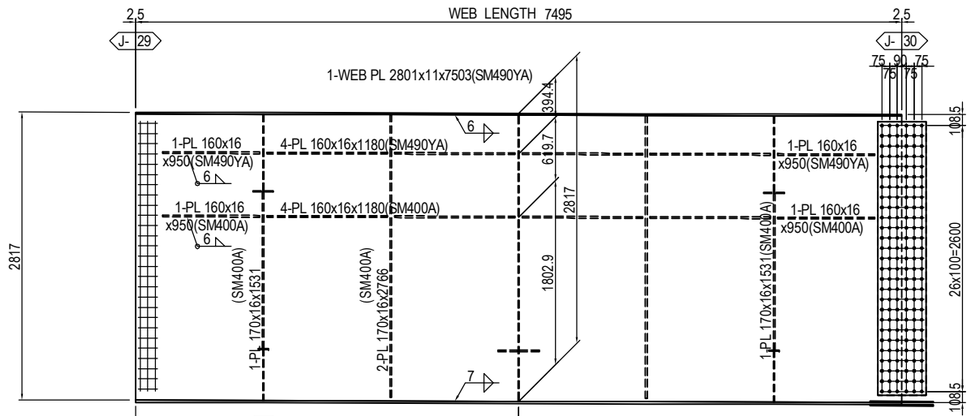


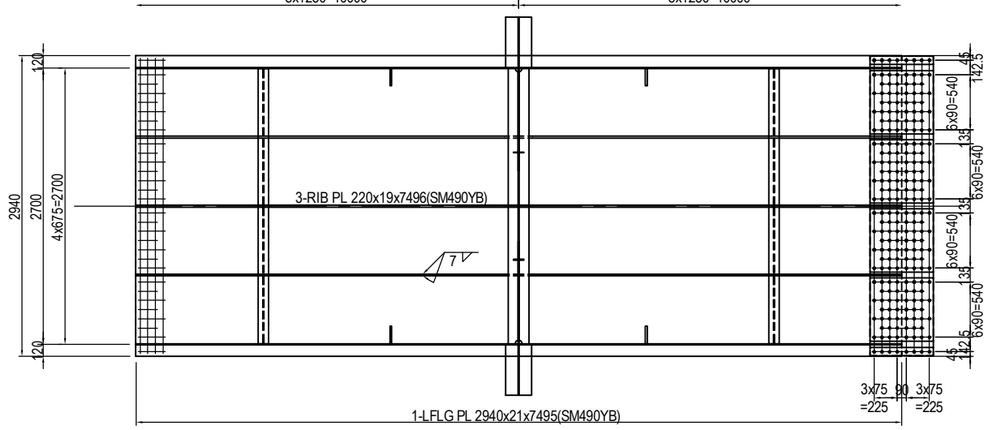
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (29)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1229

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (30) S=1:60







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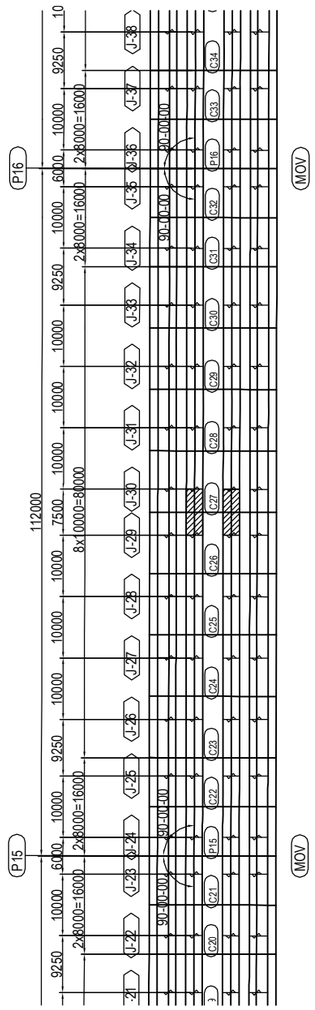
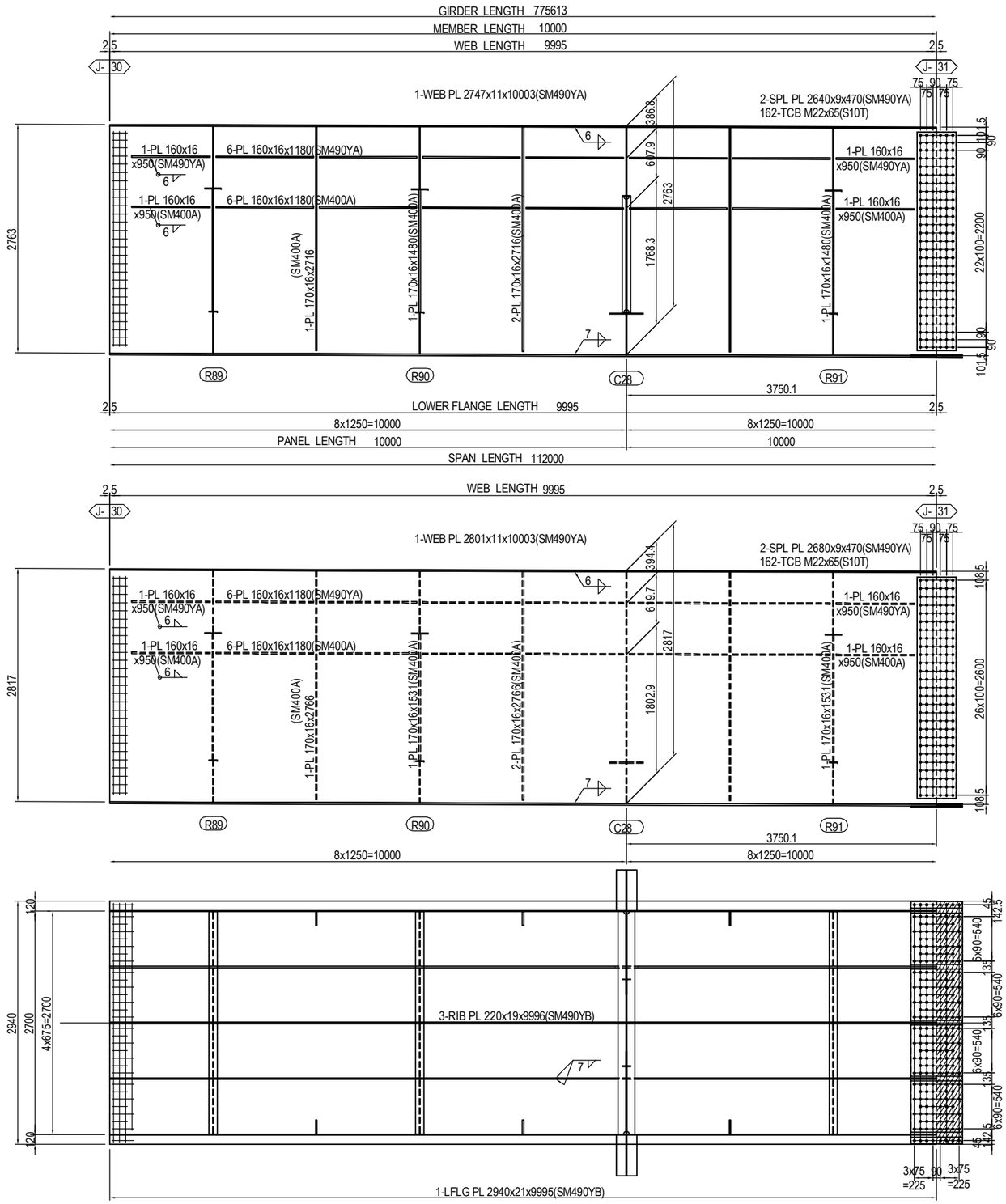


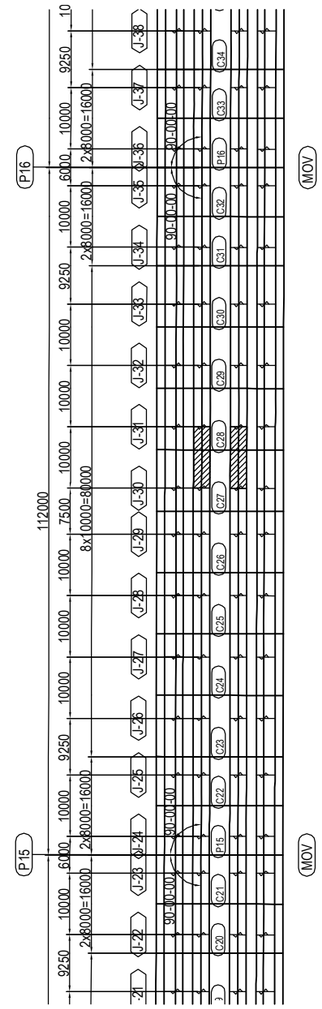
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (30)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1230

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (31) S=1:60

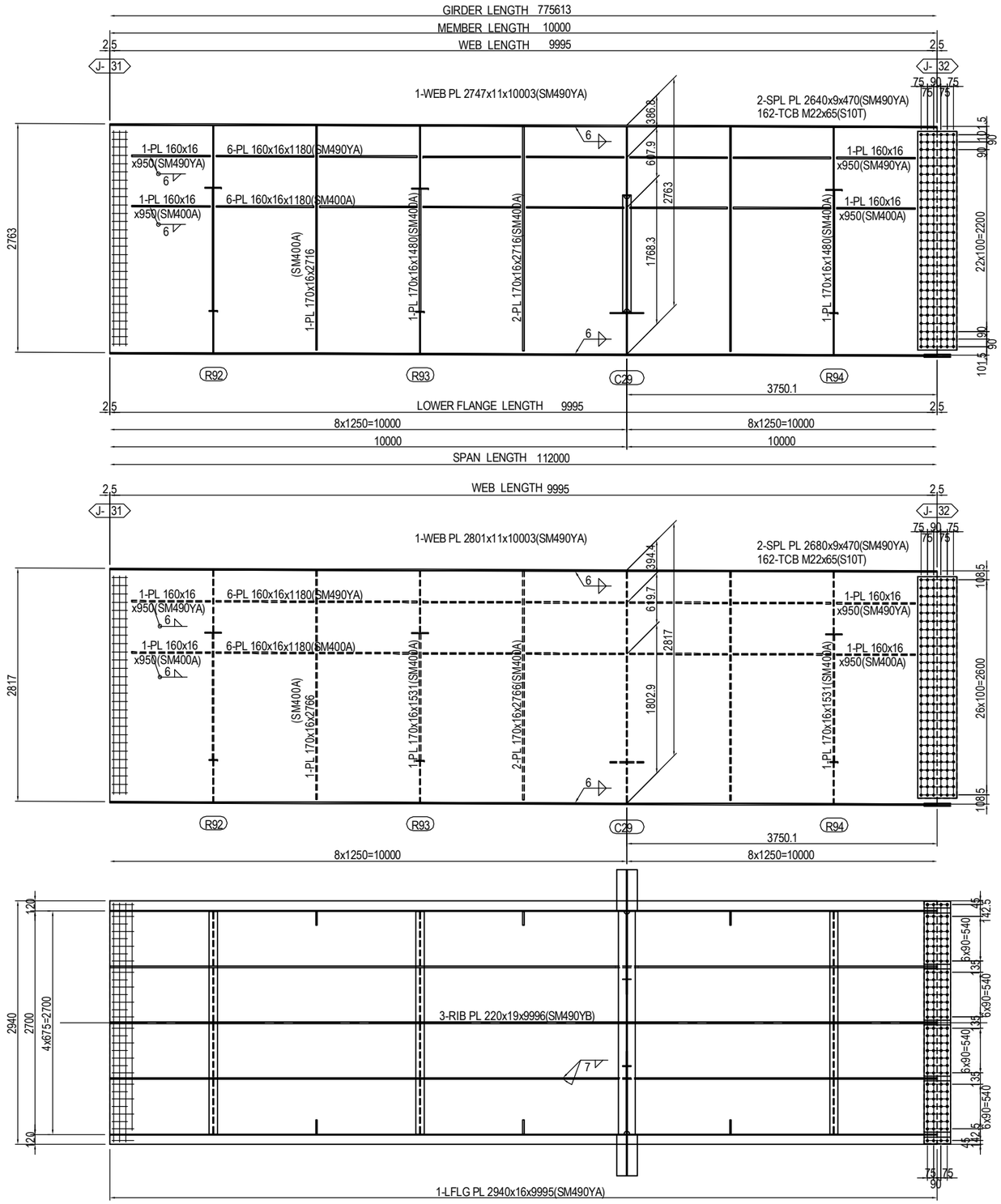


MARKING DIAGRAM

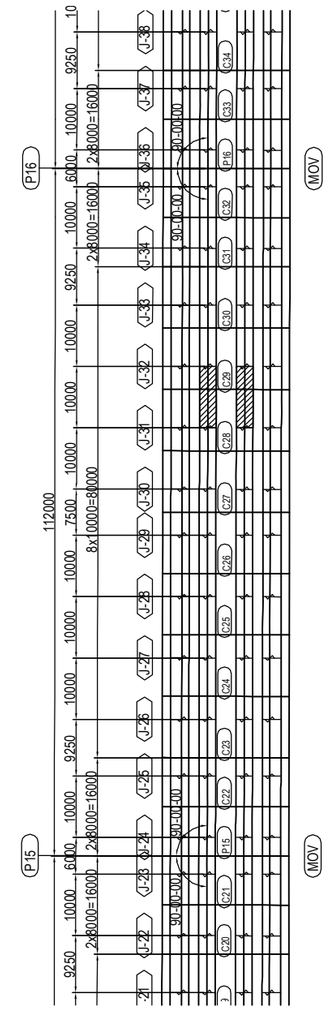


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (31)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1231

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (32) S=1:60



MARKING DIAGRAM

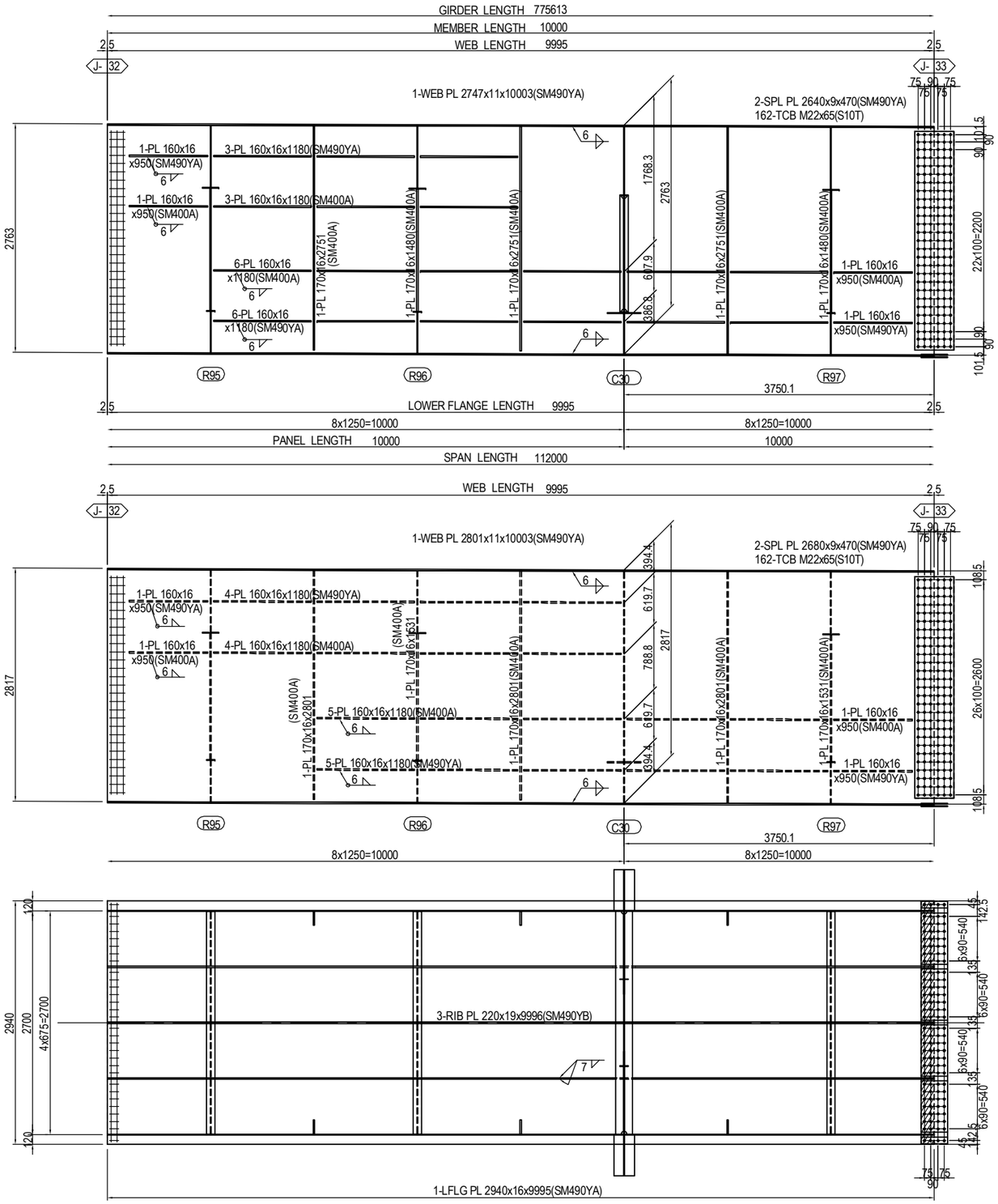


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (32)	2
	DWG No.
	P2-SB-1232

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (33) S=1:60



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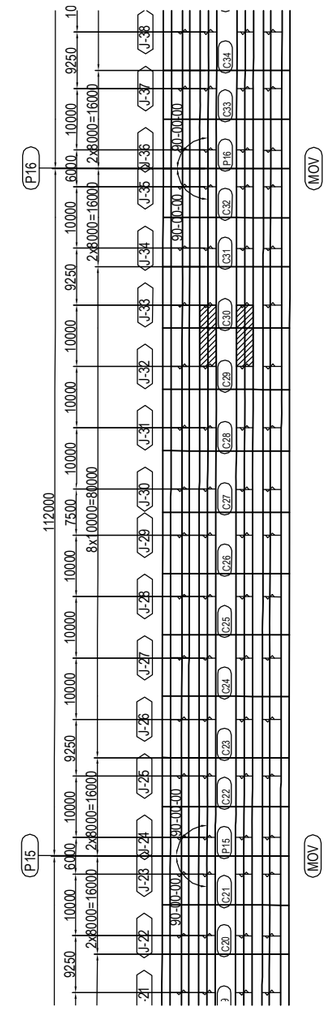
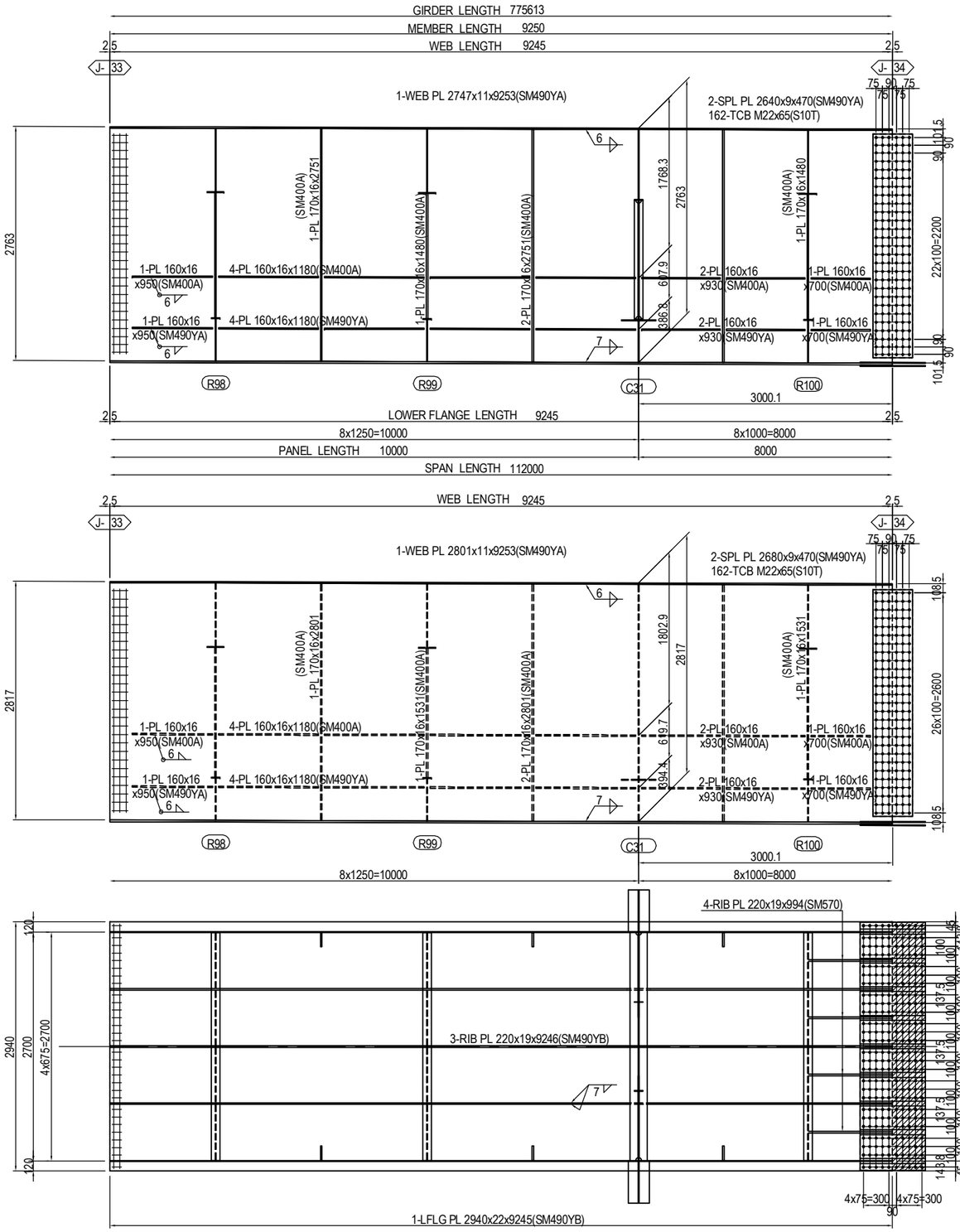


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (33)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1233

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (34) S=1:60



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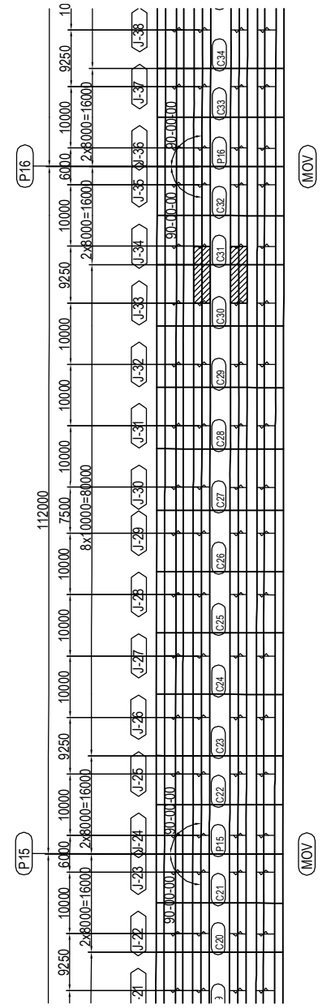


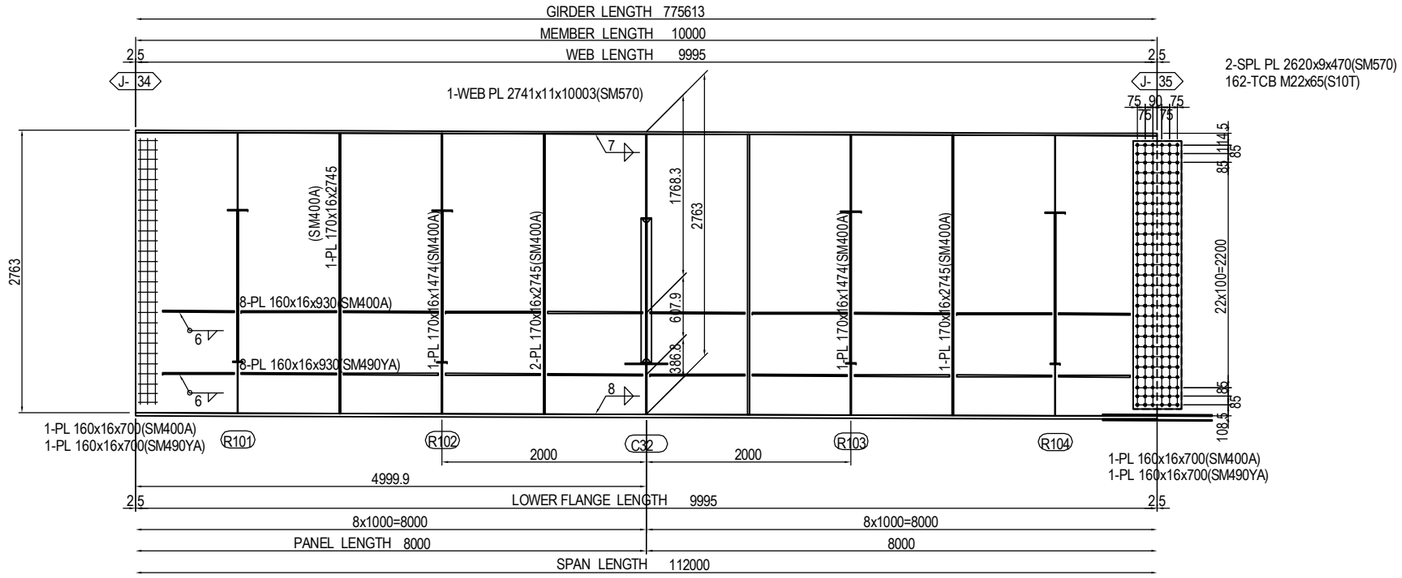
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME / SIGNATURE / DATE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA 15 Jun.2017
				CHECKED BY	T. HAYAKAWA 20 Jun.2017
				APPROVED BY	Y. SANO 21 Jun.2017

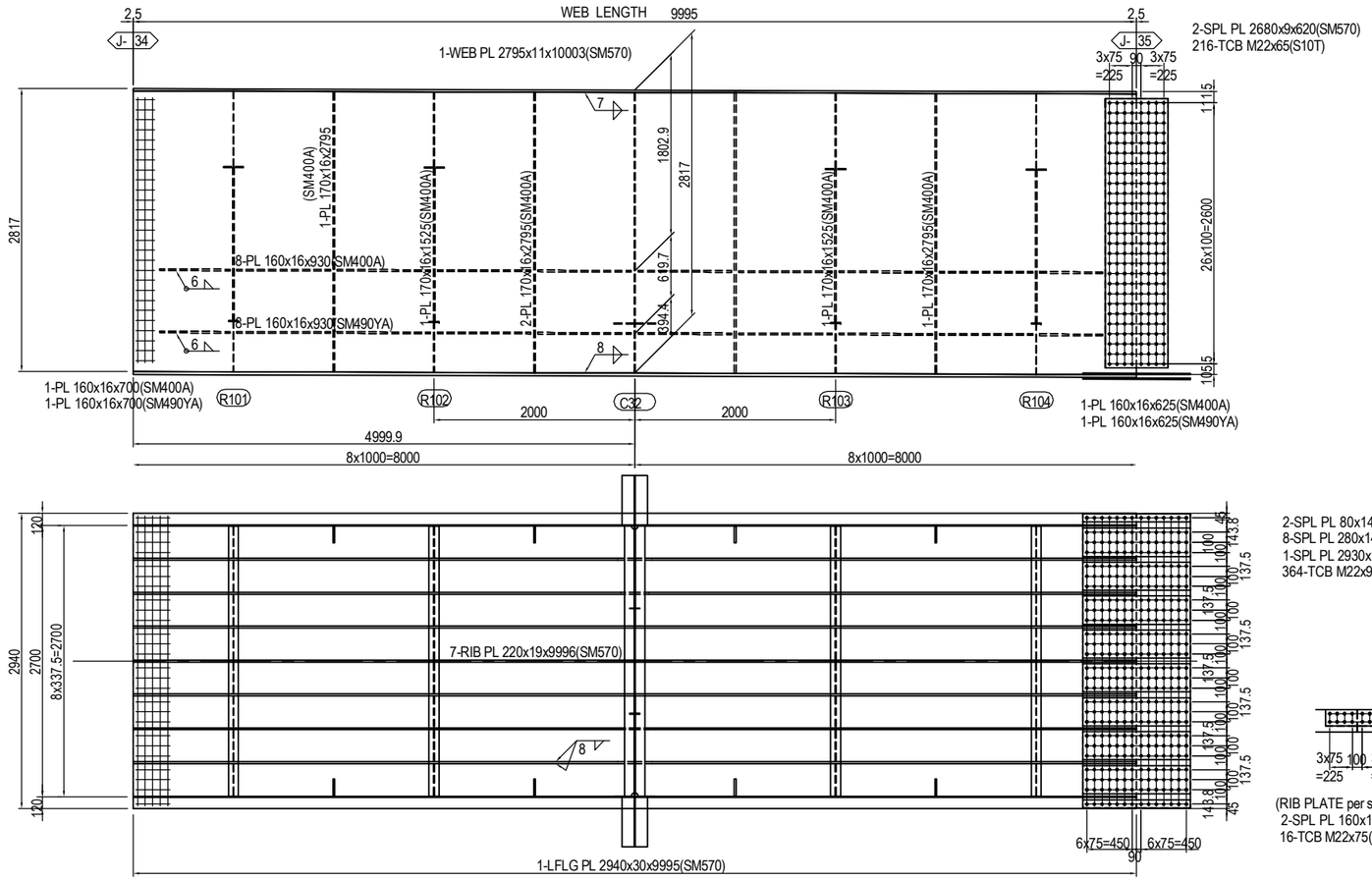
DRAWING TITLE: DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (34)

PACKAGE: 2

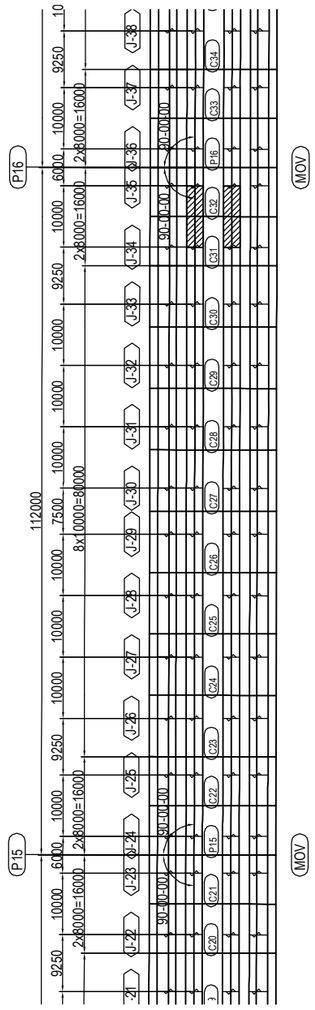
DWG No.: P2-SB-1234

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (35) S=1:60





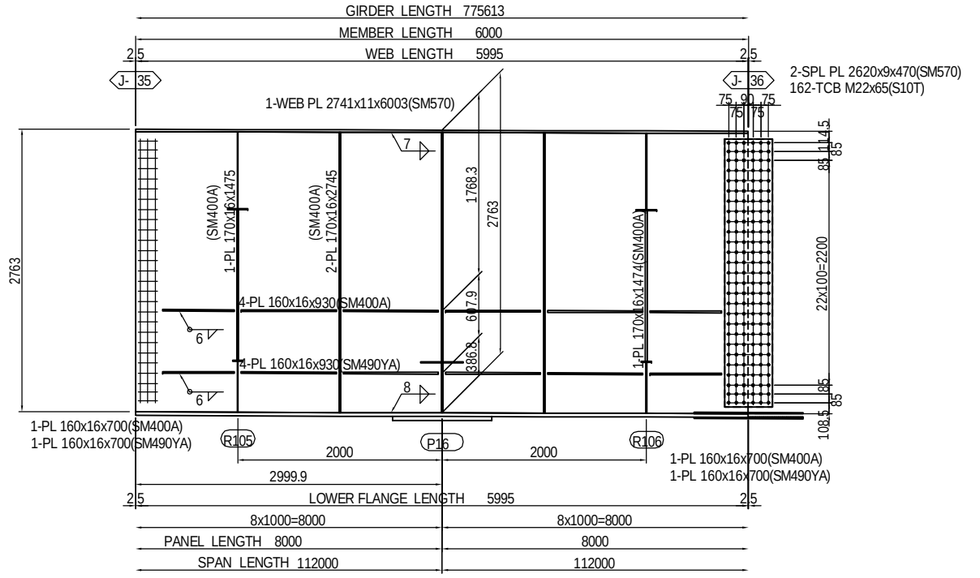
MARKING DIAGRAM



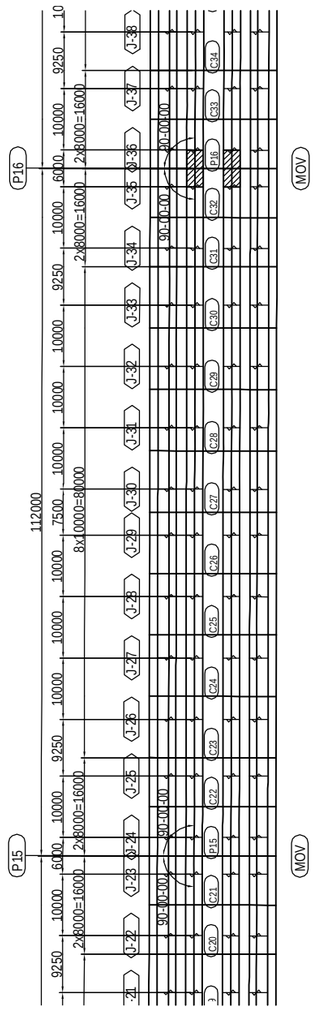
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (35)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1235

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (36) S=1:60

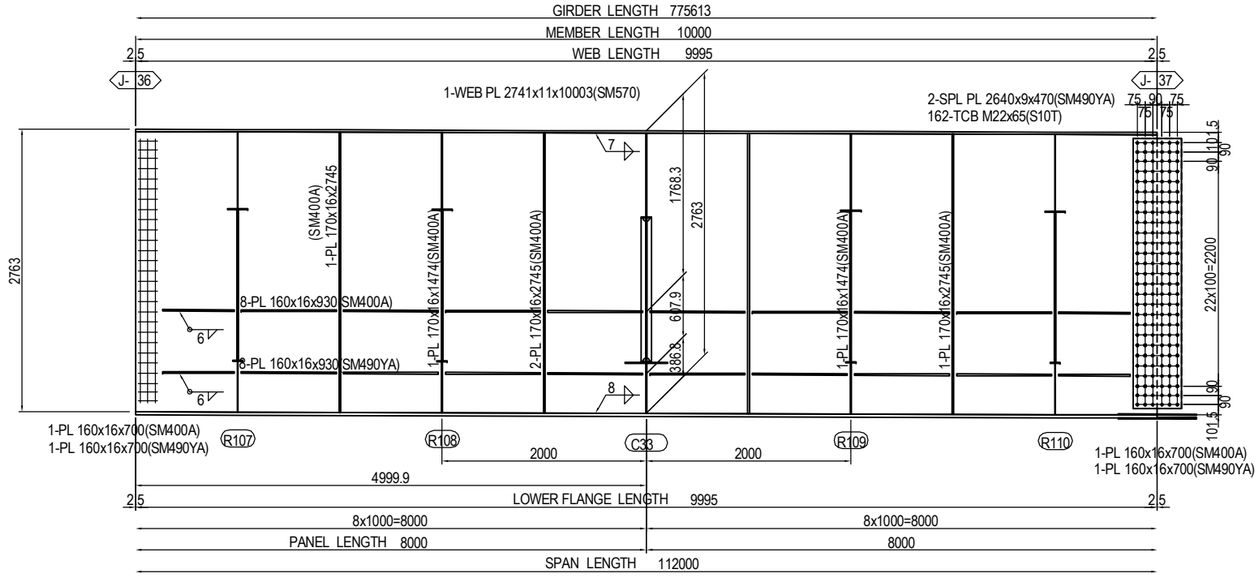


MARKING DIAGRAM

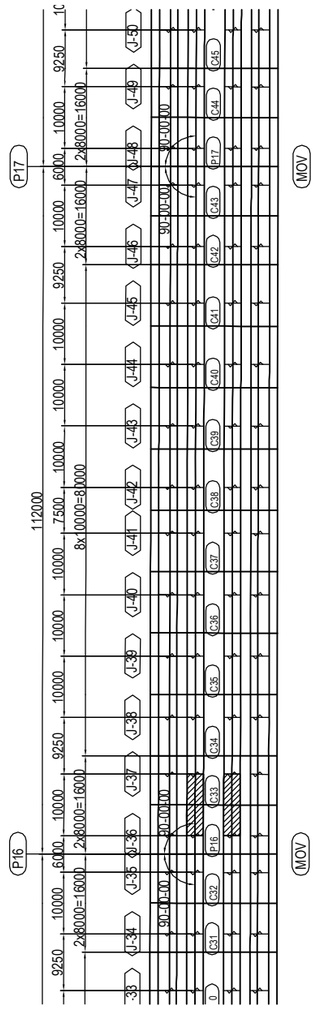


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (36)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1236

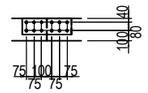
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (37) S=1:60



MARKING DIAGRAM



2-SPL PL 80x10x770(SM490YA)
8-SPL PL 280x10x770(SM490YA)
1-SPL PL 2930x9x770(SM490YA)
260-TCB M22x85(S10T)
1-FILL PL 2930x6x383(SS400)



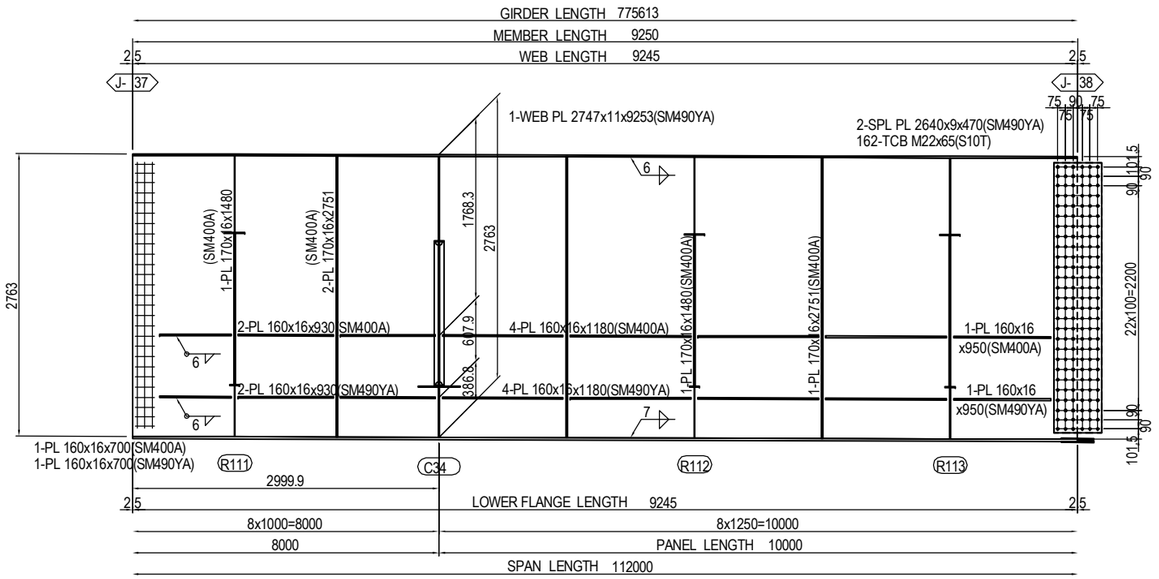
(RIB PLATE per set)
2-SPL PL 160x10x480(SM490YA)
12-TCB M22x75(S10T)

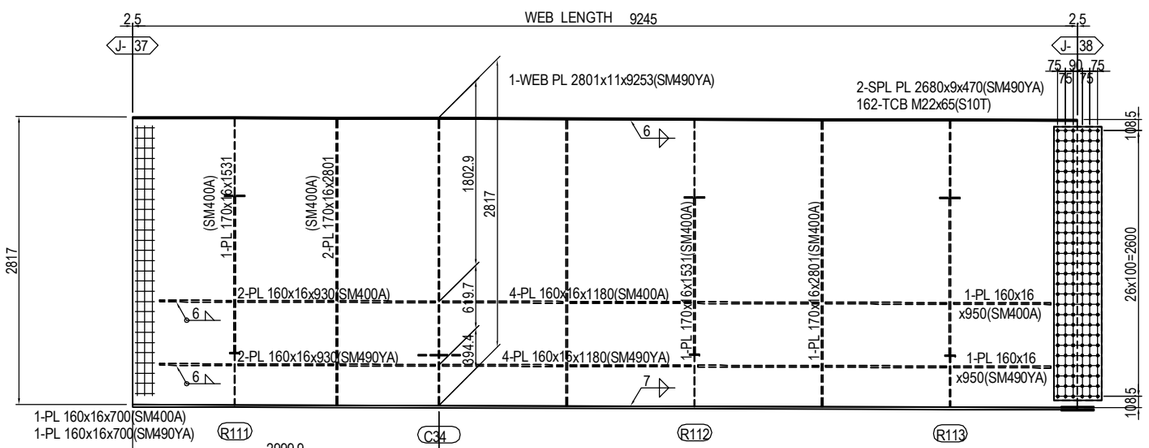
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

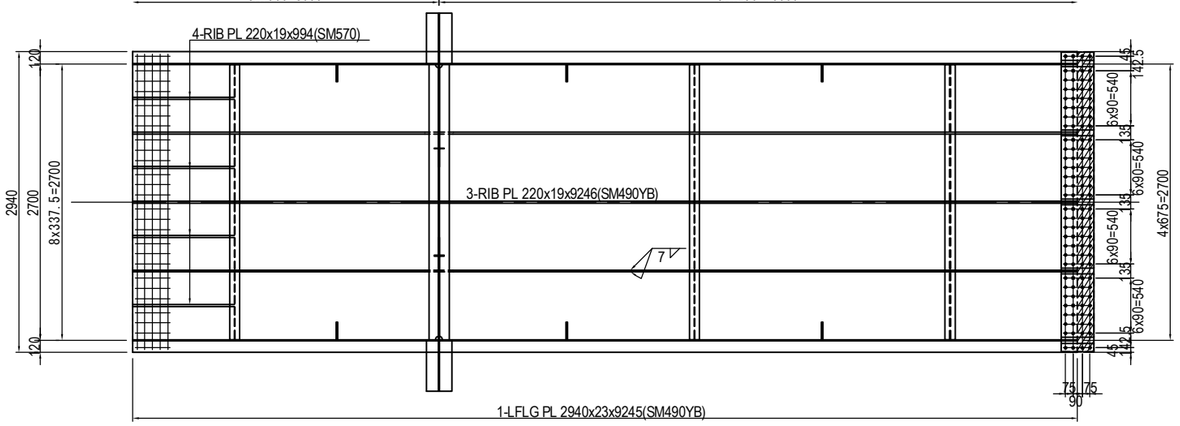
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (37)	2
	DWG No.
	P2-SB-1237

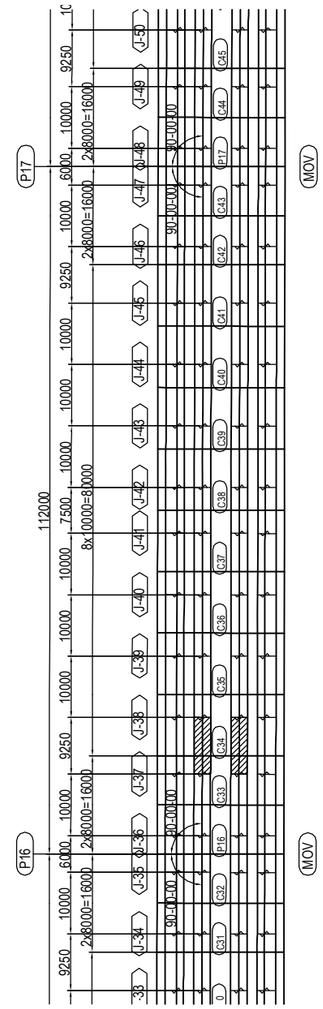
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (38) S=1:60







MARKING DIAGRAM

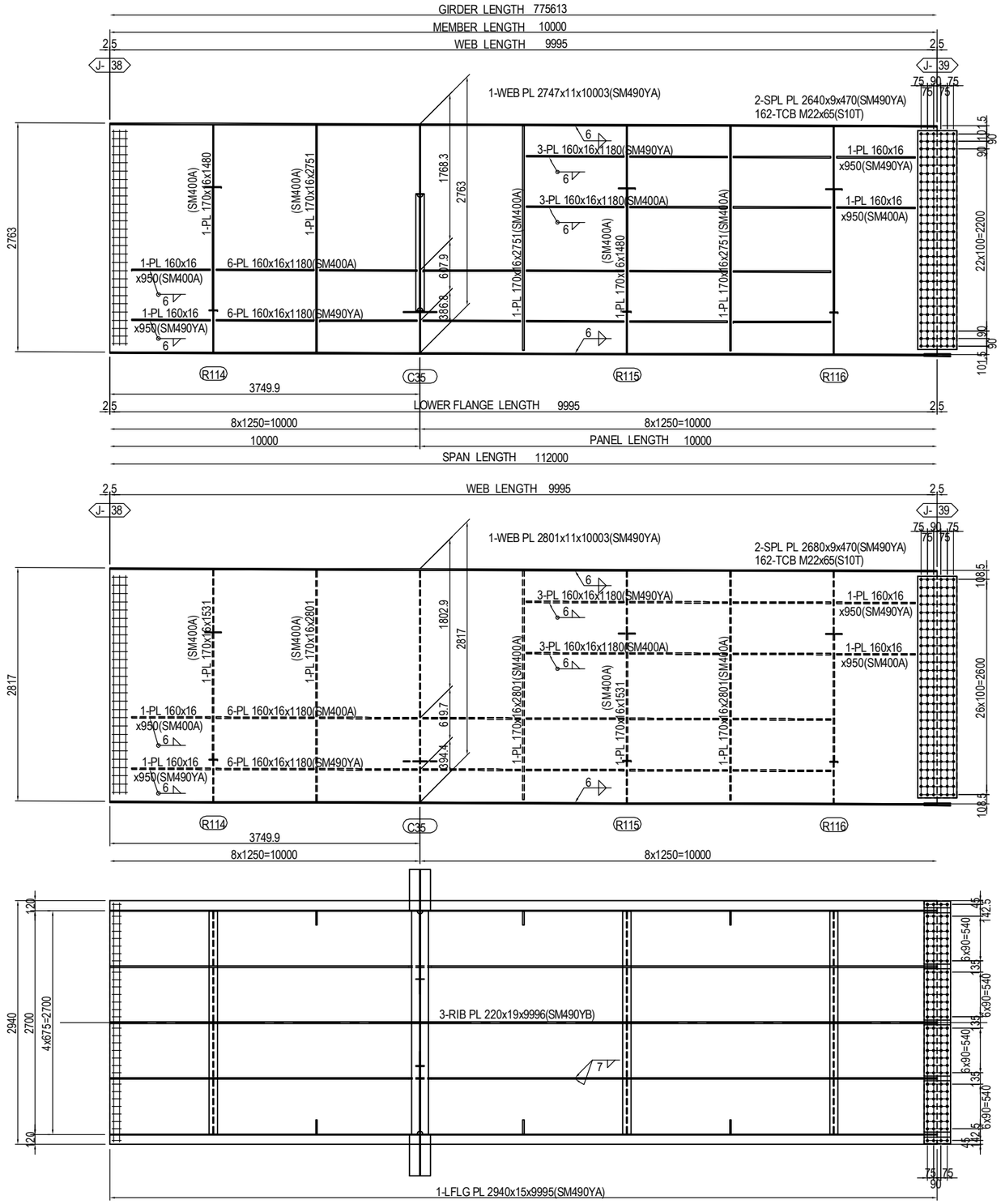


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

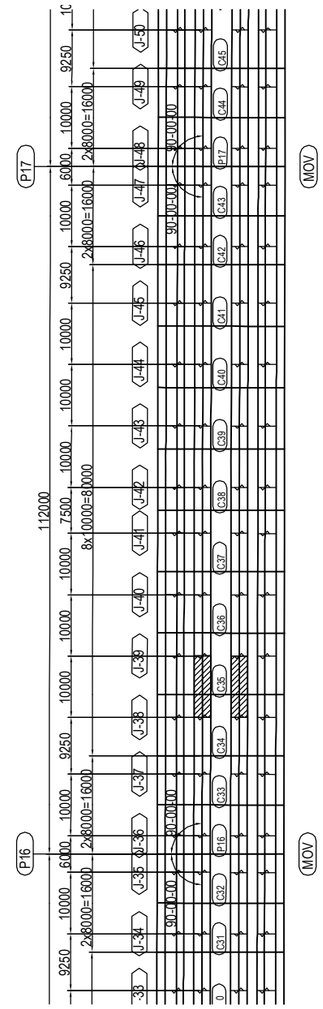
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (38)	2
	DWG No.
	P2-SB-1238

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (39) S=1:60



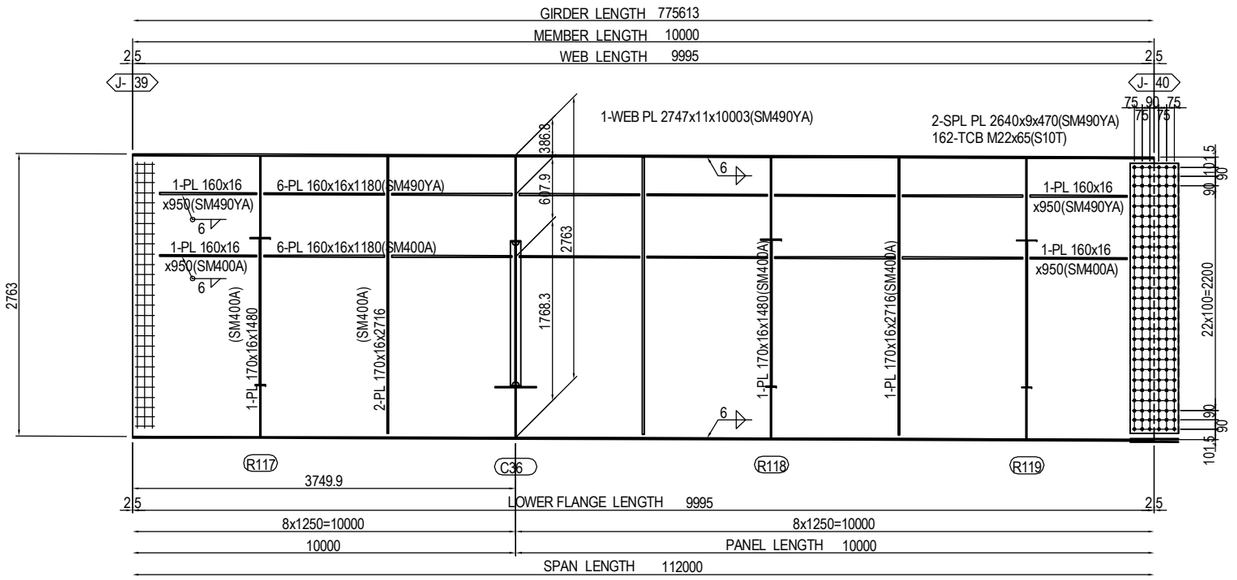
MARKING DIAGRAM



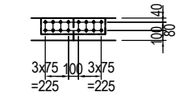
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (39)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1239

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (40) S=1:60

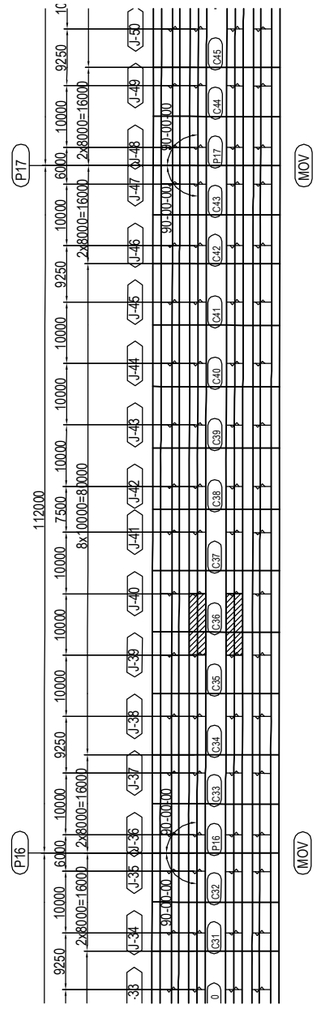


2-SPL PL 80x9x470(SM490YA)
4-SPL PL 620x9x470(SM490YA)
1-SPL PL 2930x9x470(SM490YA)
180-TCB M22x75(S10T)
1-FILL PL 2930x4.5x233(SS400)



(RIB PLATE per set)
2-SPL PL 160x15x630(SM490YA)
16-TCB M22x85(S10T)

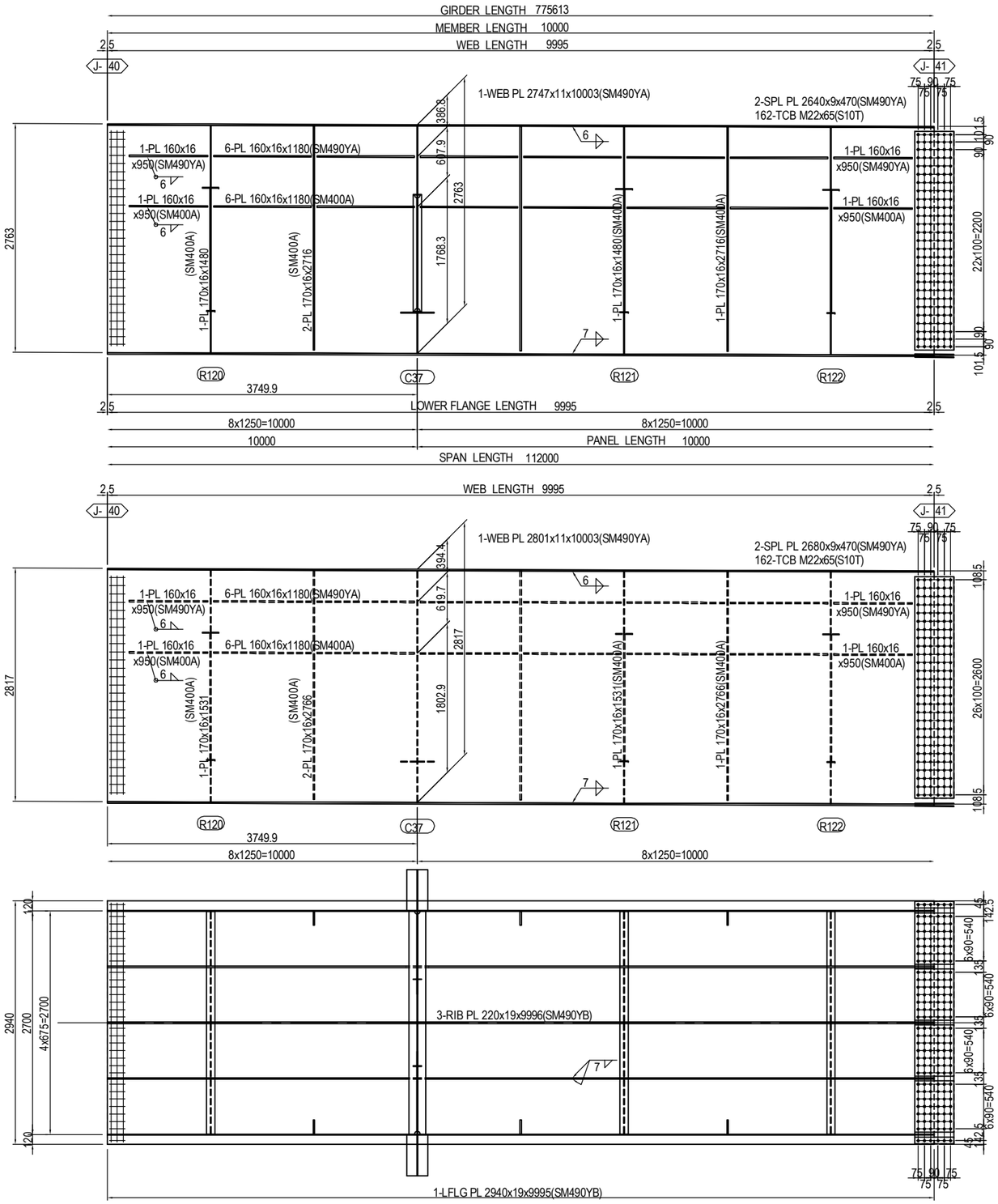
MARKING DIAGRAM



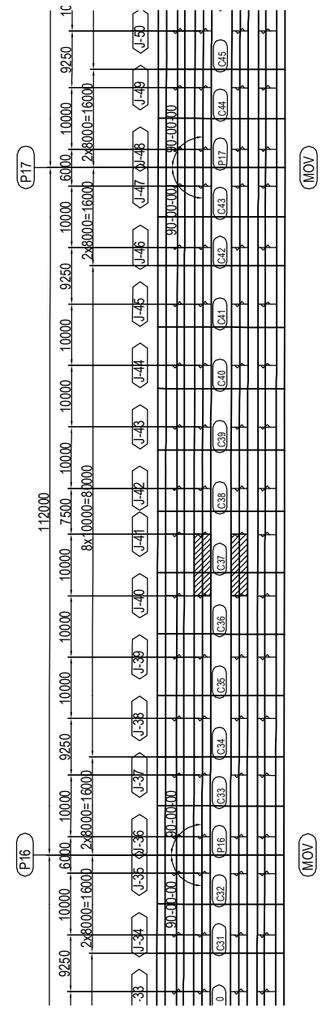
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (40)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1240

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (41) S=1:60



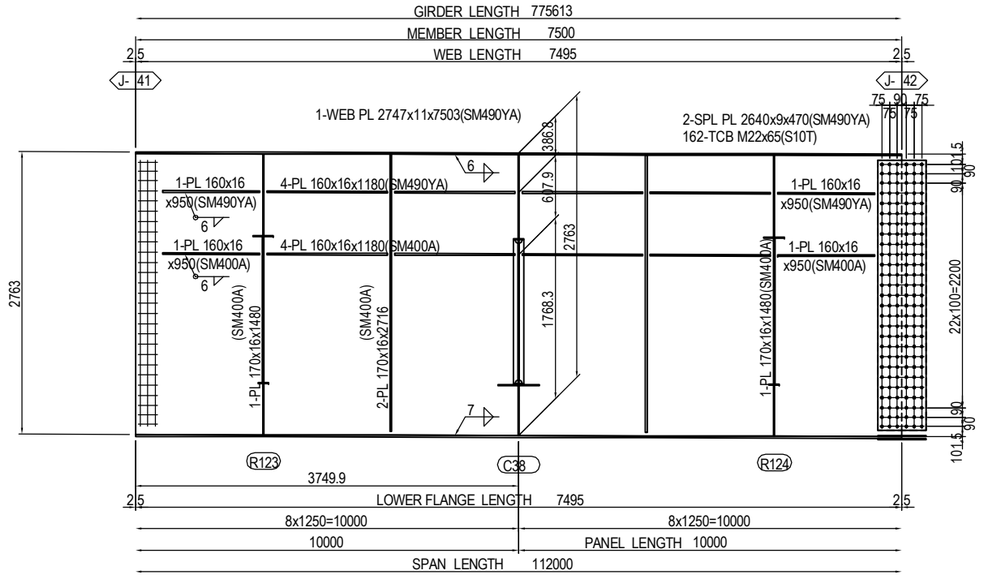
MARKING DIAGRAM



PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (41)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1241

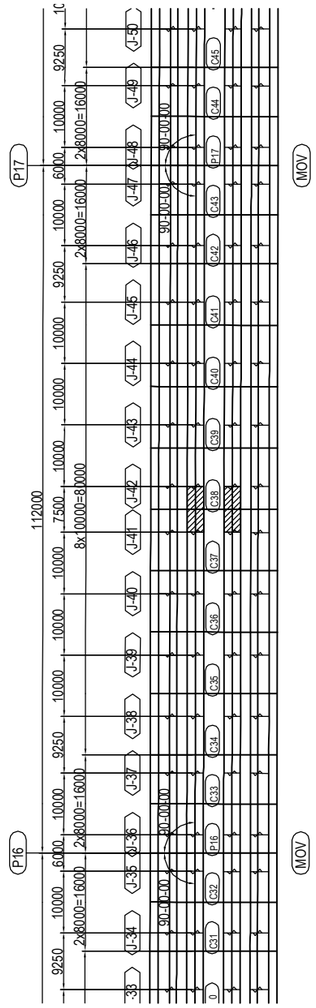
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (42) S=1:60



2-SPL PL 80x11x470(SM490YA)
4-SPL PL 620x11x470(SM490YA)
1-SPL PL 2930x10x470(SM490YA)
180-TCB M22x75(S10T)

(RIB PLATE per set)
2-SPL PL 160x15x630(SM490YA)
16-TCB M22x85(S10T)

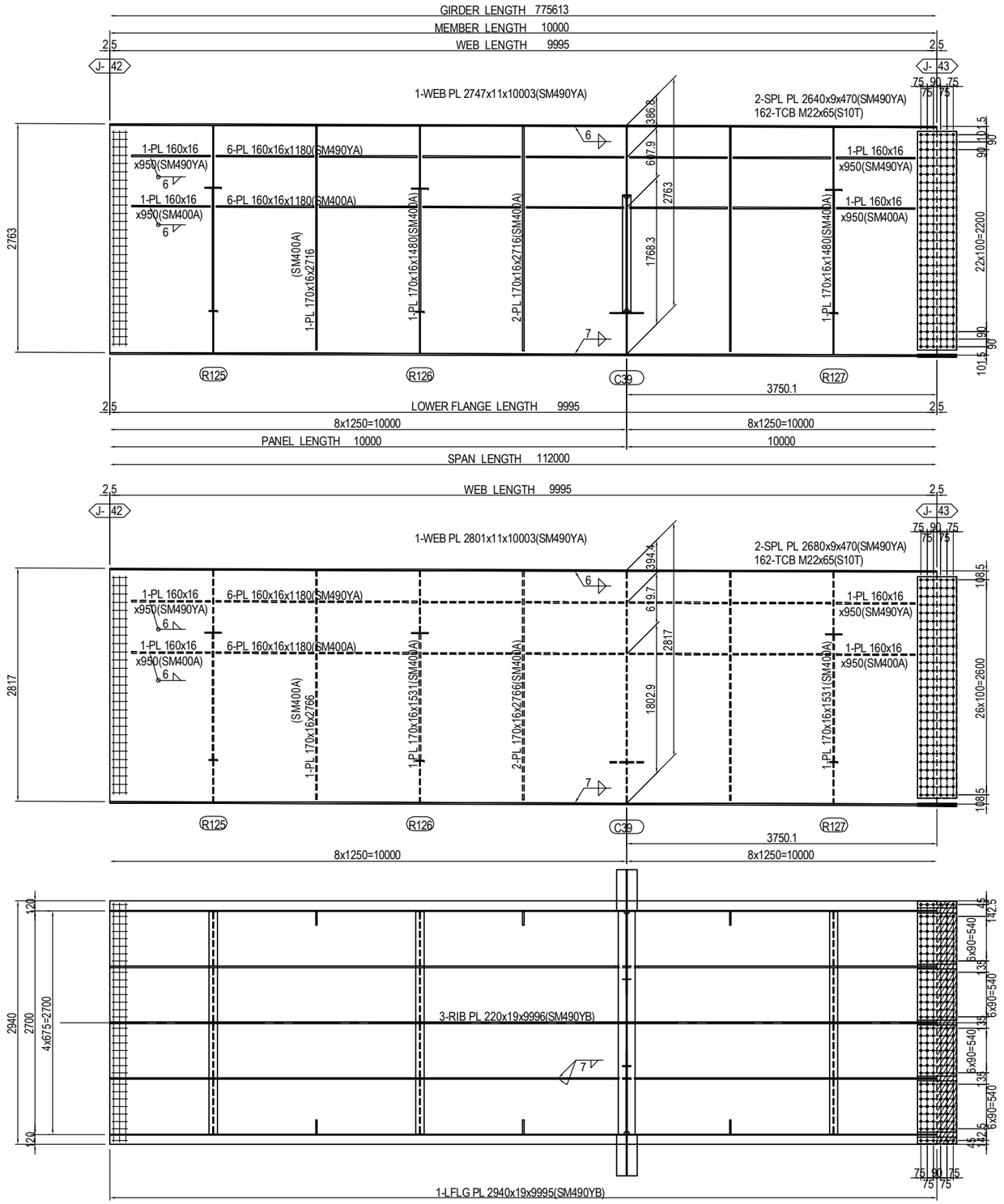
MARKING DIAGRAM



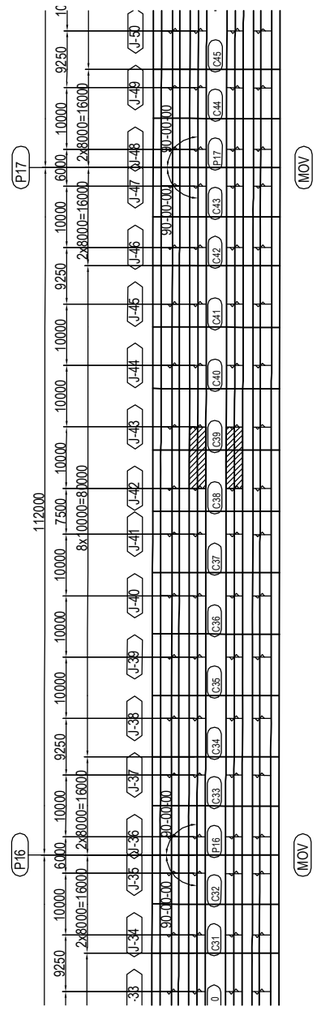
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (42)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1242

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (43) S=1:60



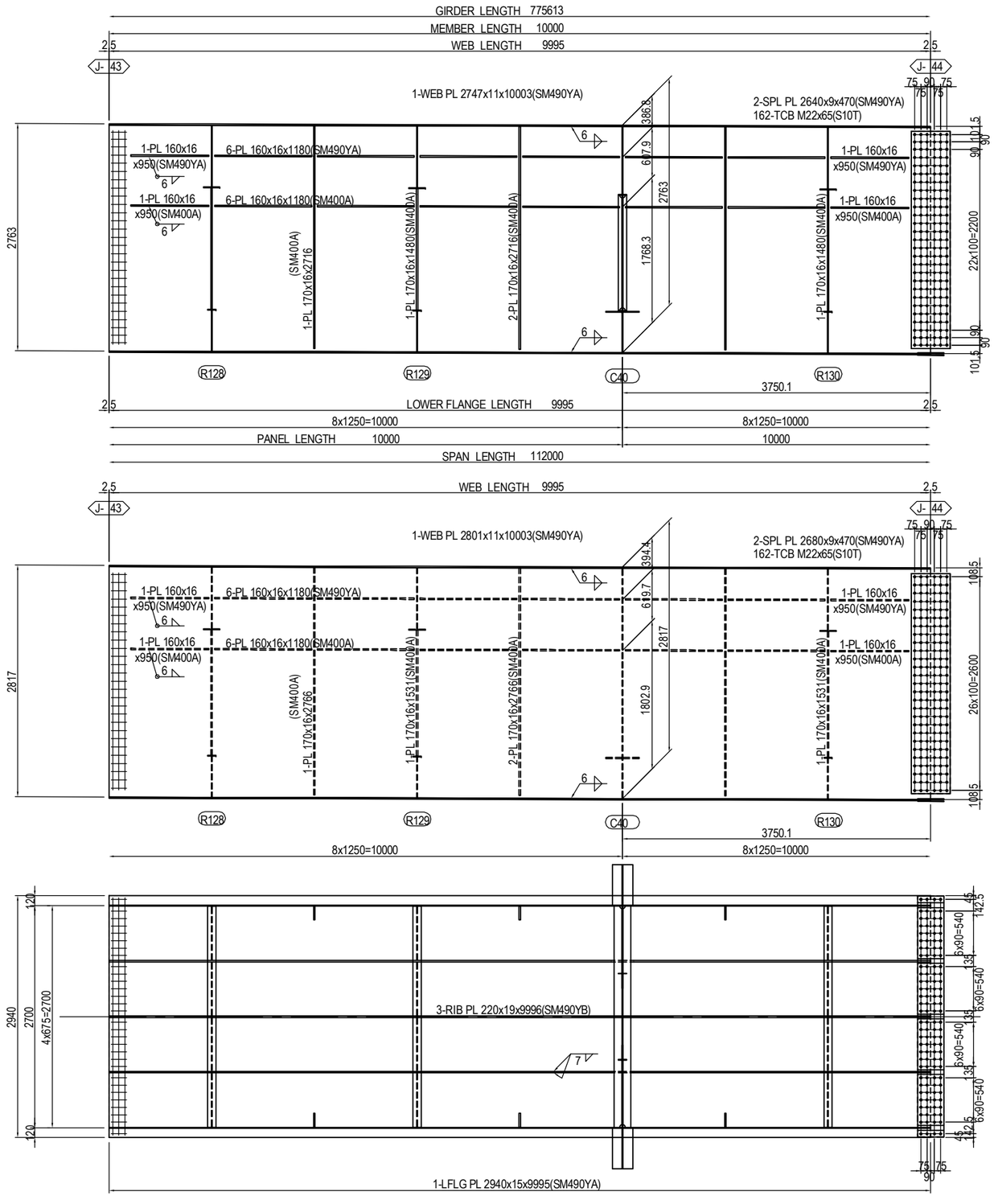
MARKING DIAGRAM



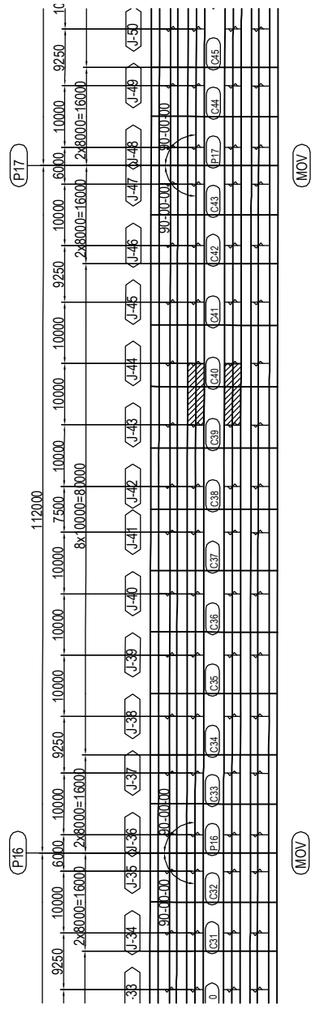
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (43)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1243

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (44) S=1:60



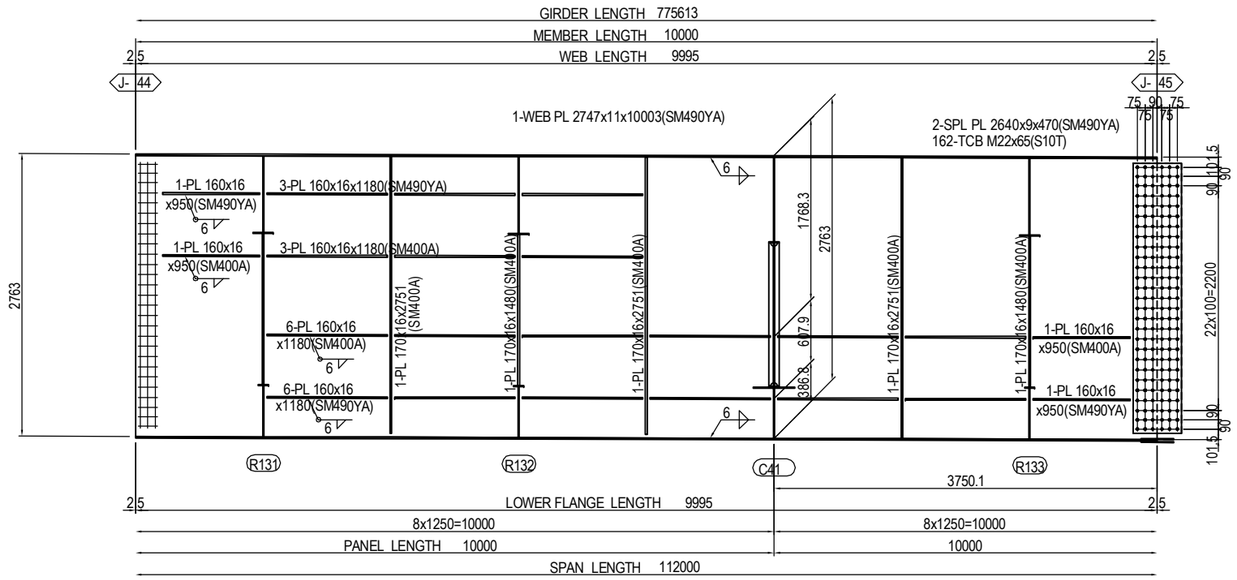
MARKING DIAGRAM



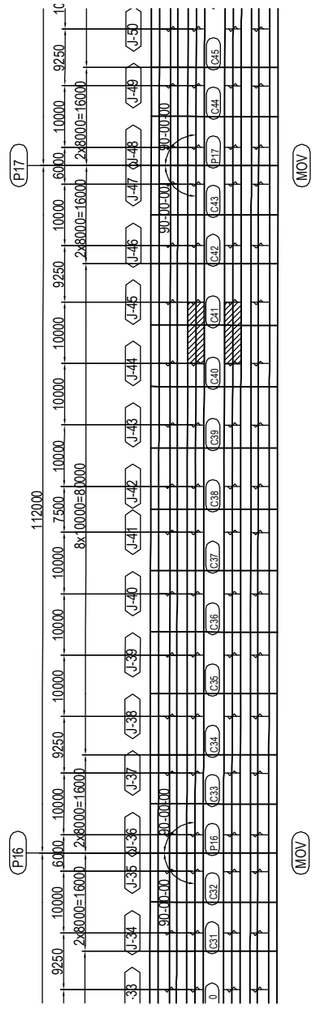
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (44)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1244

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (45) S=1:60



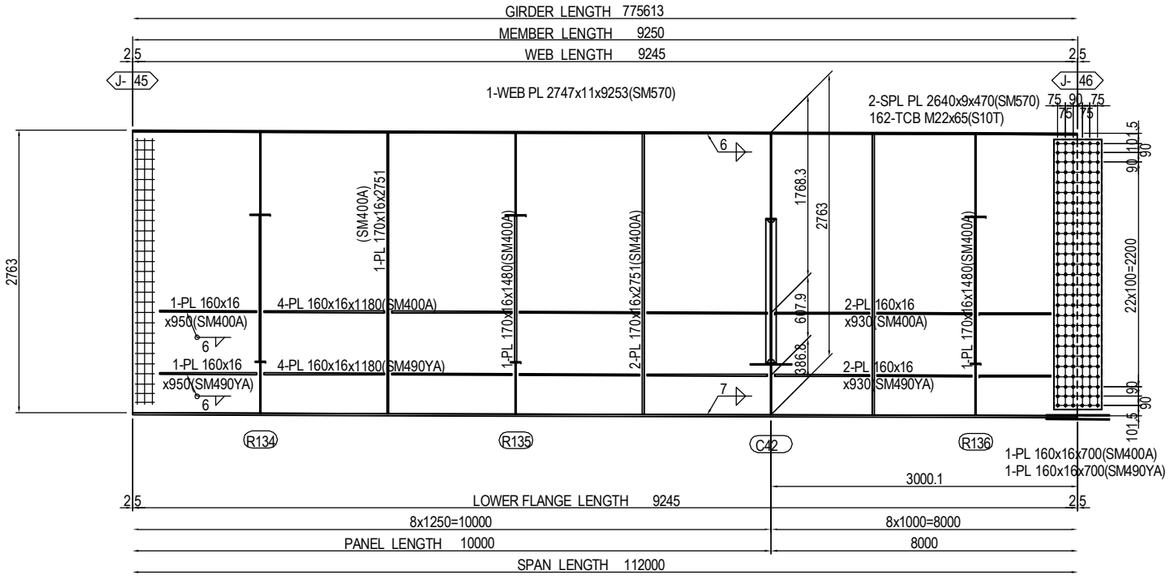
MARKING DIAGRAM



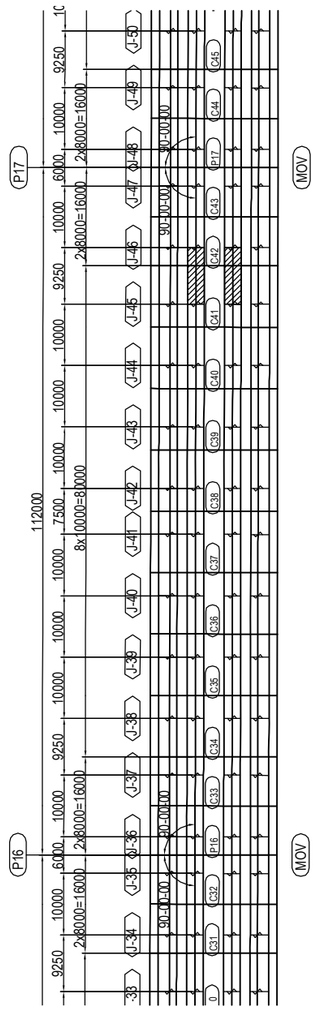
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (45)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1245

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (46) S=1:60



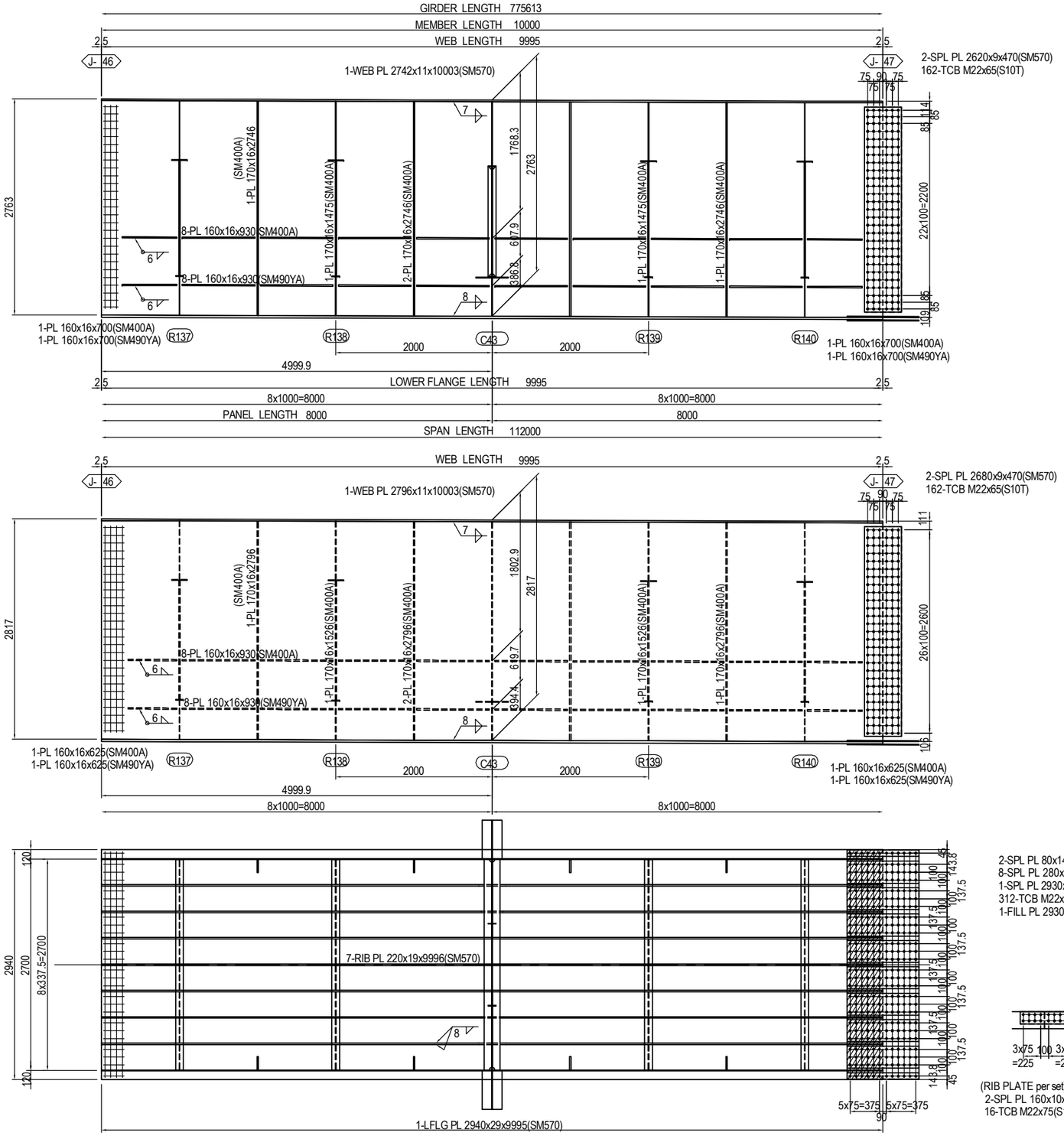
MARKING DIAGRAM

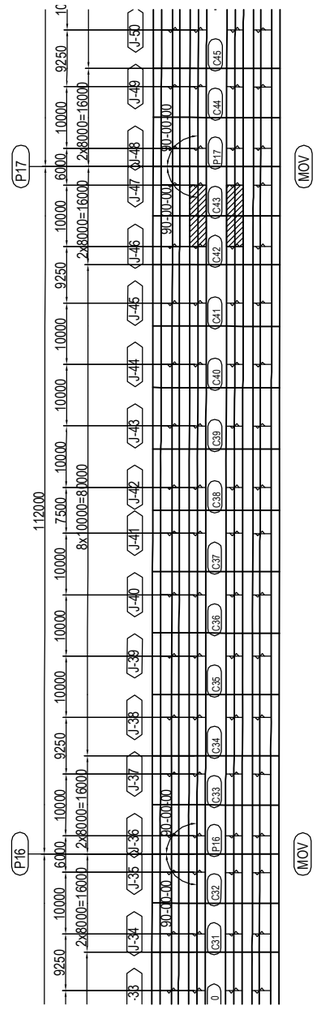


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

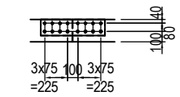
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (46)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1246

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (47) S=1:60





2-SPL PL 80x14x920(SM570)
8-SPL PL 280x14x920(SM570)
1-SPL PL 2930x11x920(SM570)
312-TCB M22x95(S10T)
1-FILL PL 2930x2.3x458(SS400)

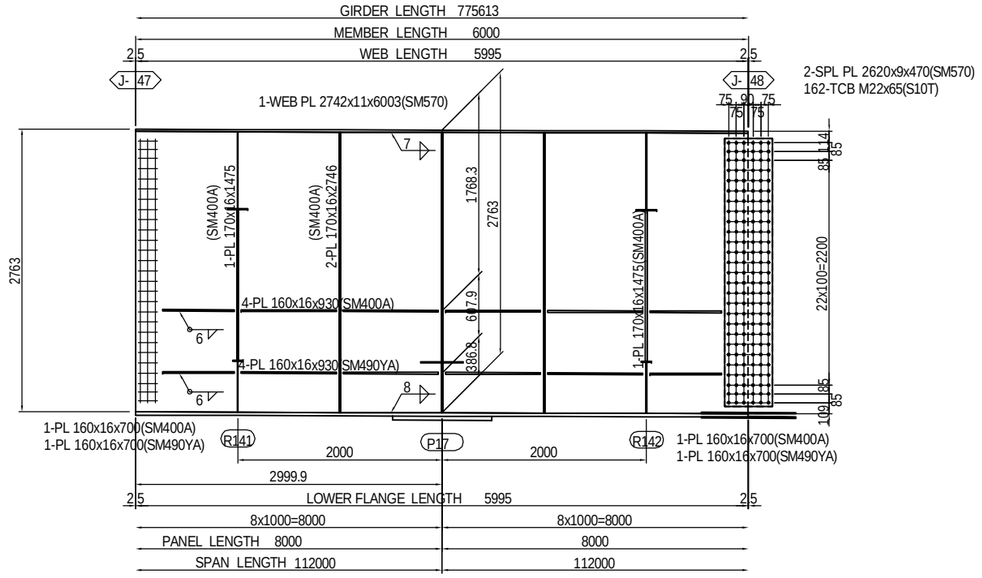


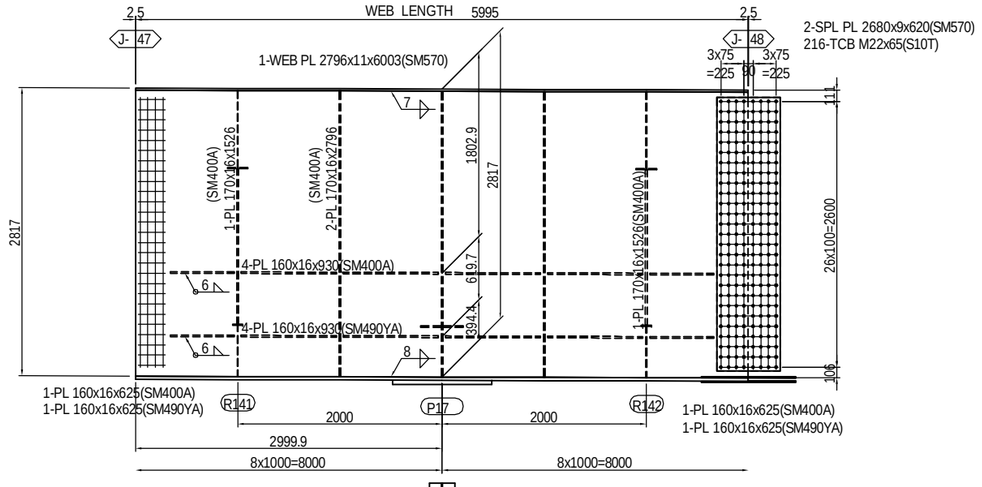
(RIB PLATE per set)
2-SPL PL 160x10x630(SM570)
16-TCB M22x75(S10T)

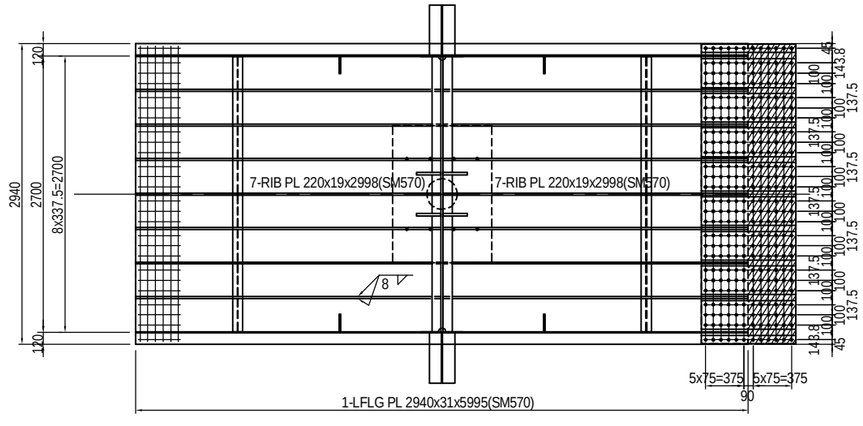
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (47)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1247

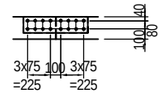
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (48) S=1:60





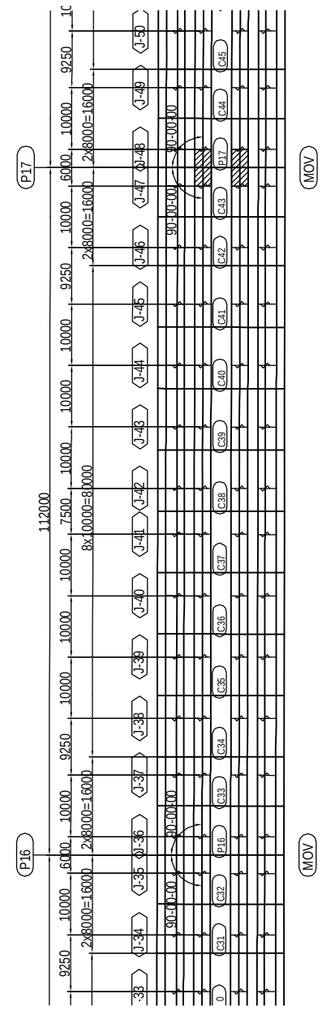


2-SPL PL 80x13x920(SM570)
8-SPL PL 280x13x920(SM570)
1-SPL PL 2930x12x920(SM570)
312-TCB M22x95(S10T)
1-FILL PL 2930x3.2x458(SS400)



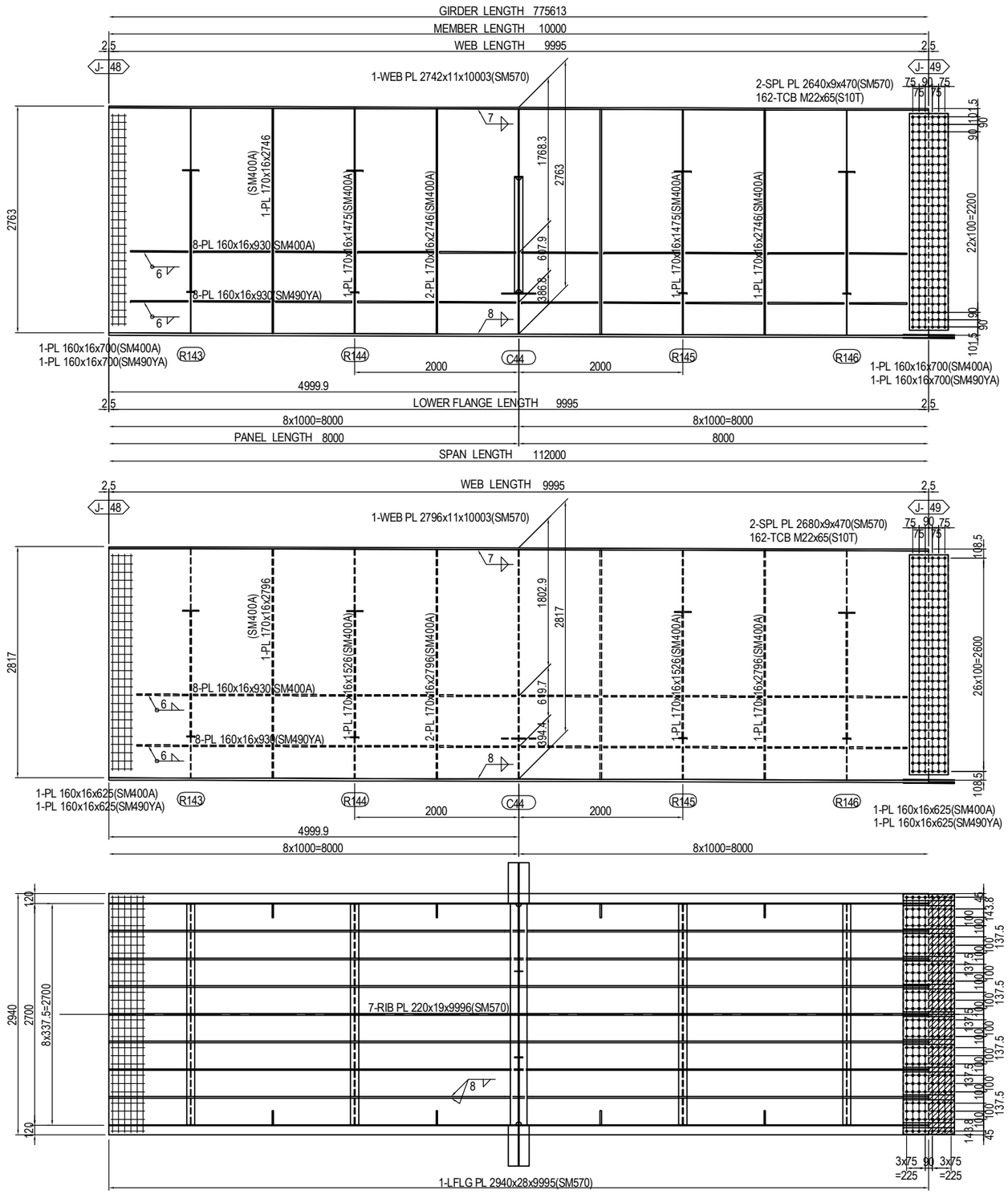
(RIB PLATE per set)
2-SPL PL 160x11x630(SM570)
16-TCB M22x80(S10T)

MARKING DIAGRAM

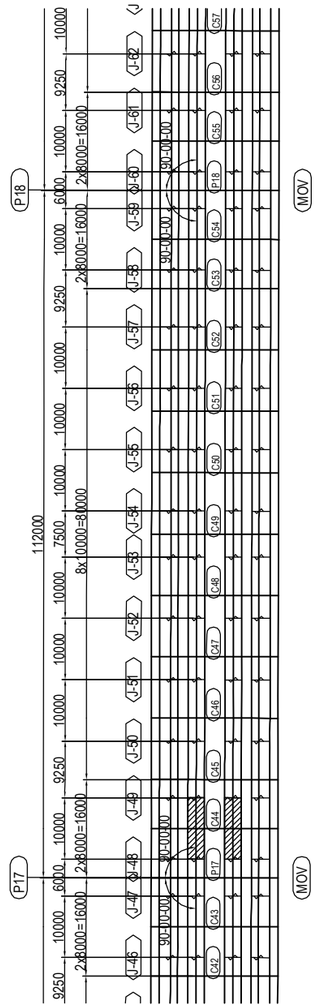


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (48)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1248

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (49) S=1:60



MARKING DIAGRAM



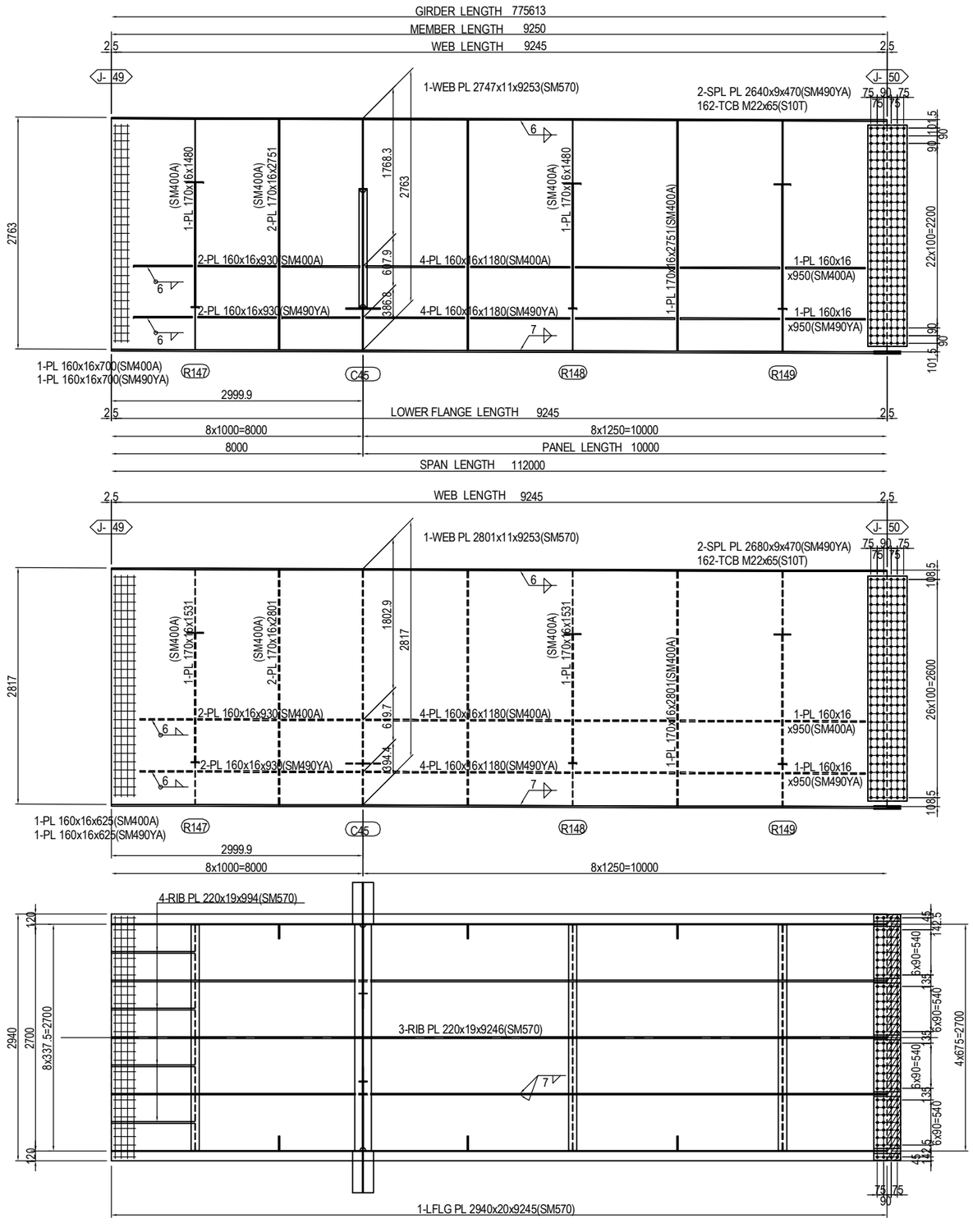
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME	SIGNATURE / DATE
				PREPARED BY	S. IMADA — 15 Jun.2017
				CHECKED BY	T. HAYAKAWA — 20 Jun.2017
				APPROVED BY	Y. SANO — 21 Jun.2017

DRAWING TITLE: DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (49)

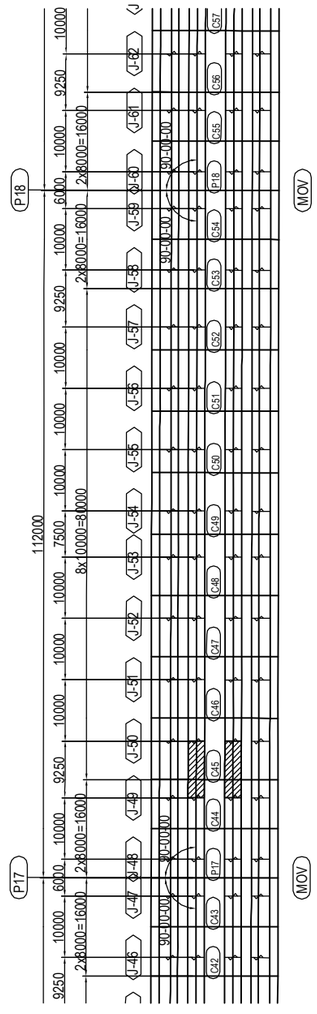
PACKAGE: 2

DWG No.: P2-SB-1249

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (50) S=1:60

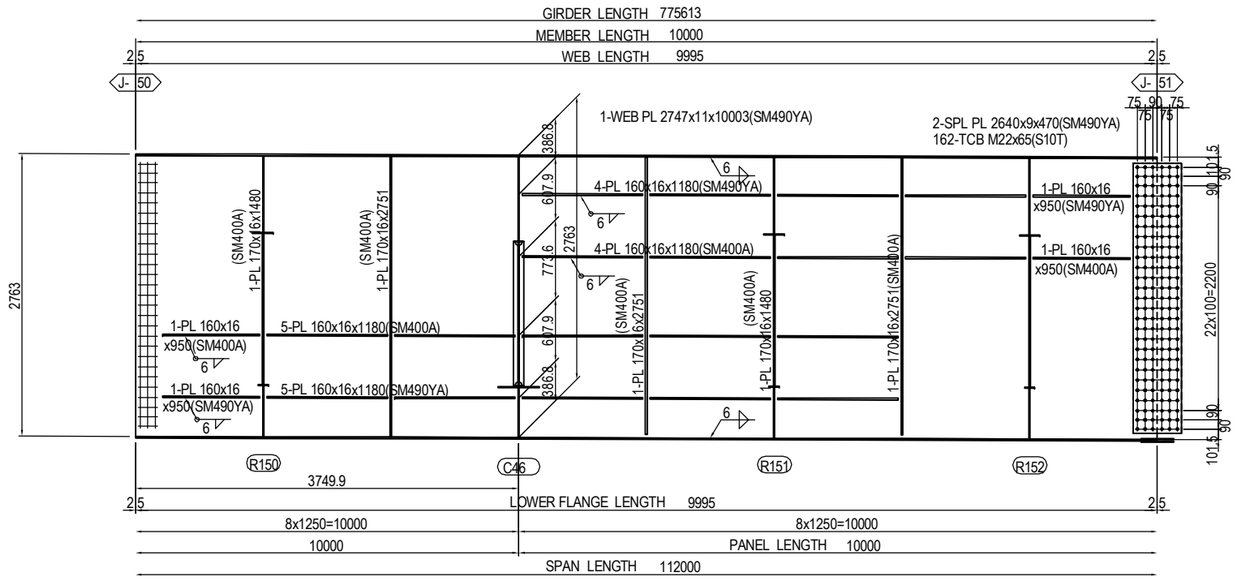


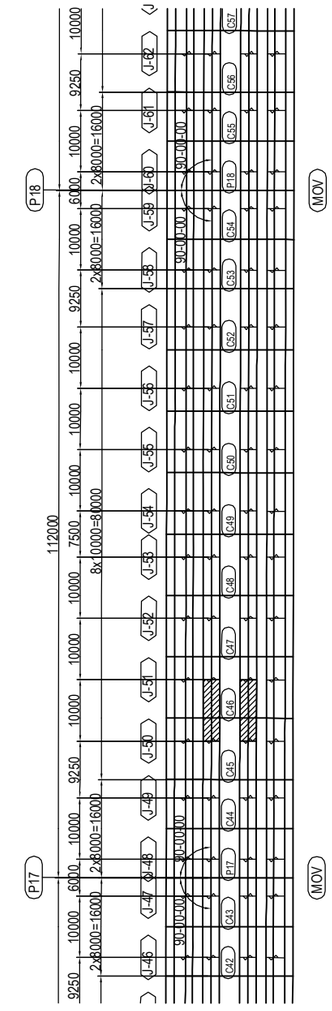
MARKING DIAGRAM



PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (50)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1250

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (51) S=1:60





2-SPL PL 80x9x320(SM490YA)
4-SPL PL 620x9x320(SM490YA)
1-SPL PL 2930x9x320(SM490YA)
120-TCB M22x75(S10T)
1-FILL PL 2930x3.2x158(SS400)

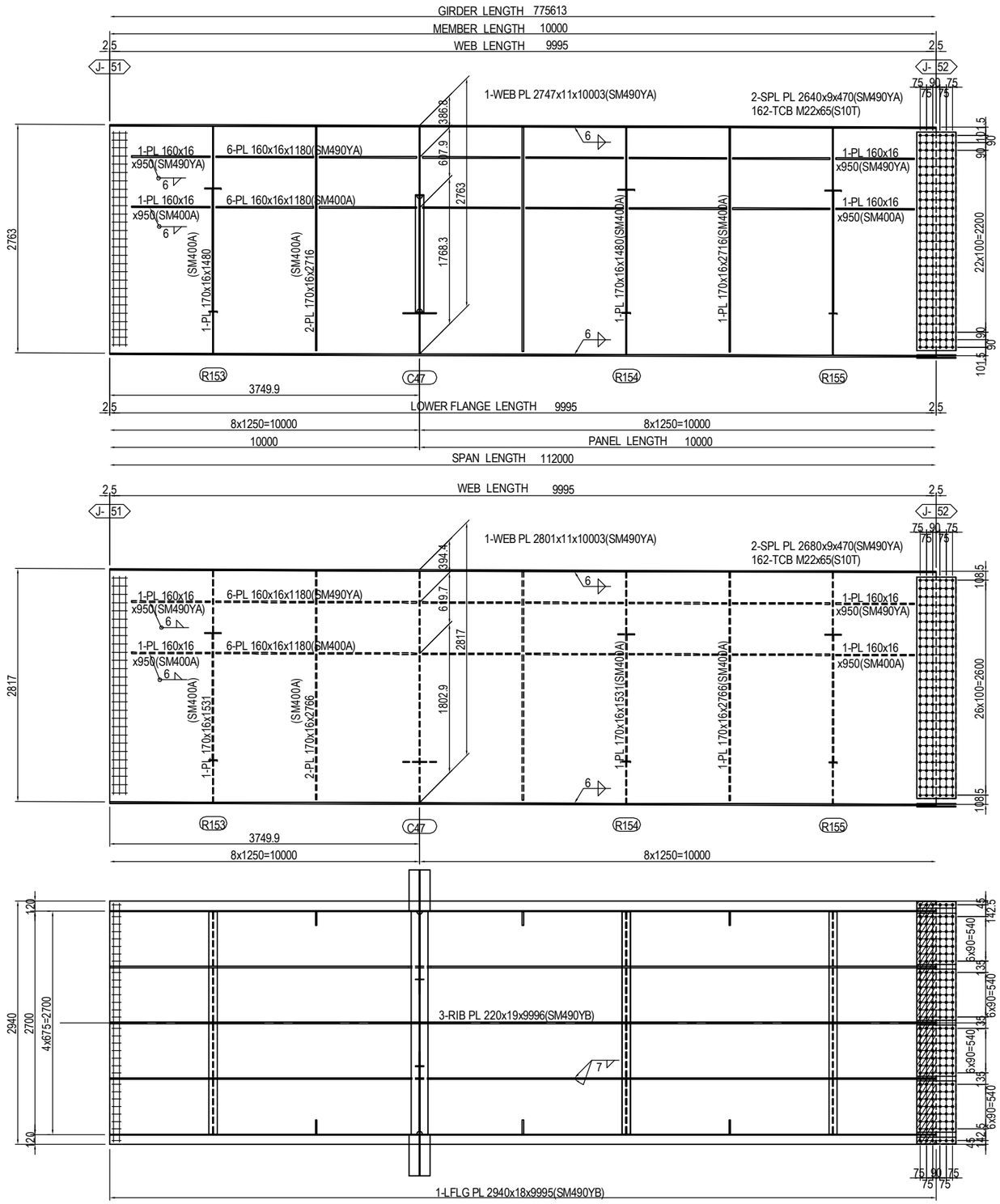
(RIB PLATE per set)
2-SPL PL 160x11x480(SM490YA)
12-TCB M22x80(S10T)

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

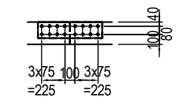
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (51)	2
	DWG No.
	P2-SB-1251

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (52) S=1:60

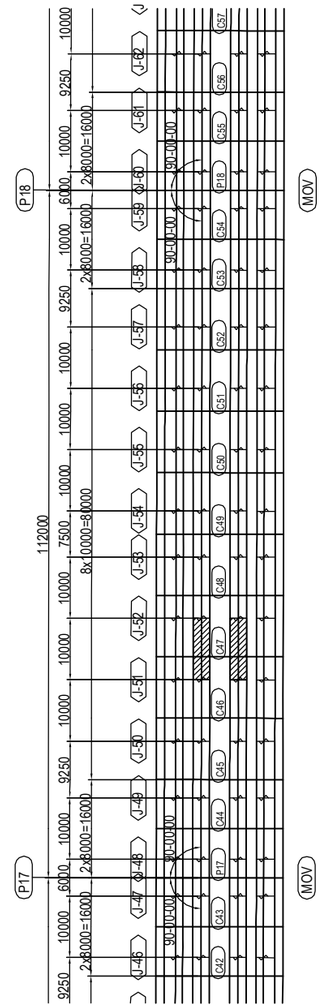


2-SPL PL 80x10x470(SM490YA)
4-SPL PL 620x10x470(SM490YA)
1-SPL PL 2930x9x470(SM490YA)
180-TCB M22x80(S10T)
1-FILL PL 2930x4.5x233(SS400)



(RIB PLATE per set)
2-SPL PL 160x14x630(SM490YA)
16-TCB M22x85(S10T)

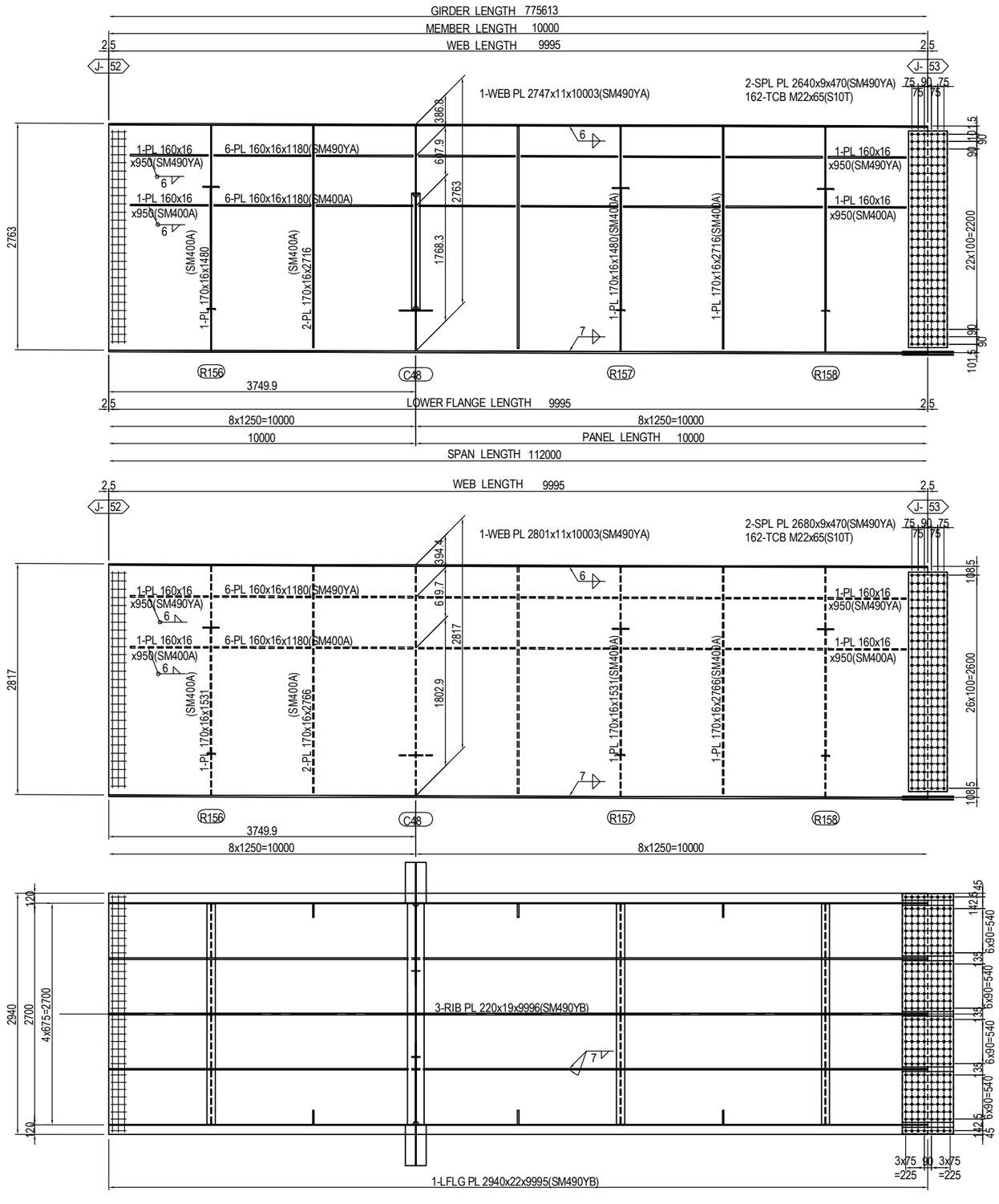
MARKING DIAGRAM



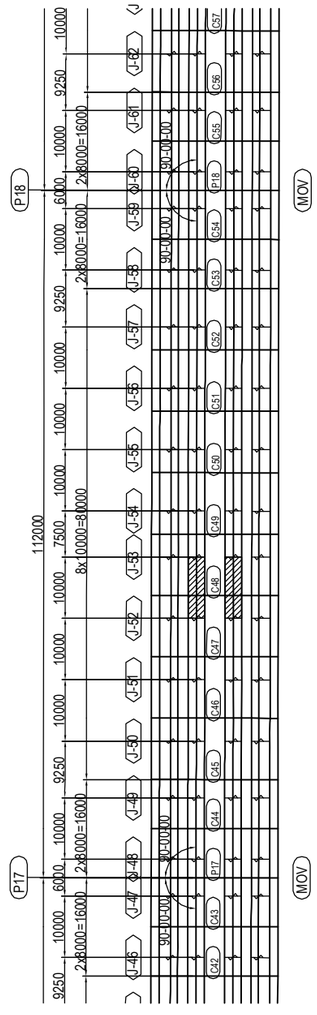
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (52)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1252

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (53) S=1:60



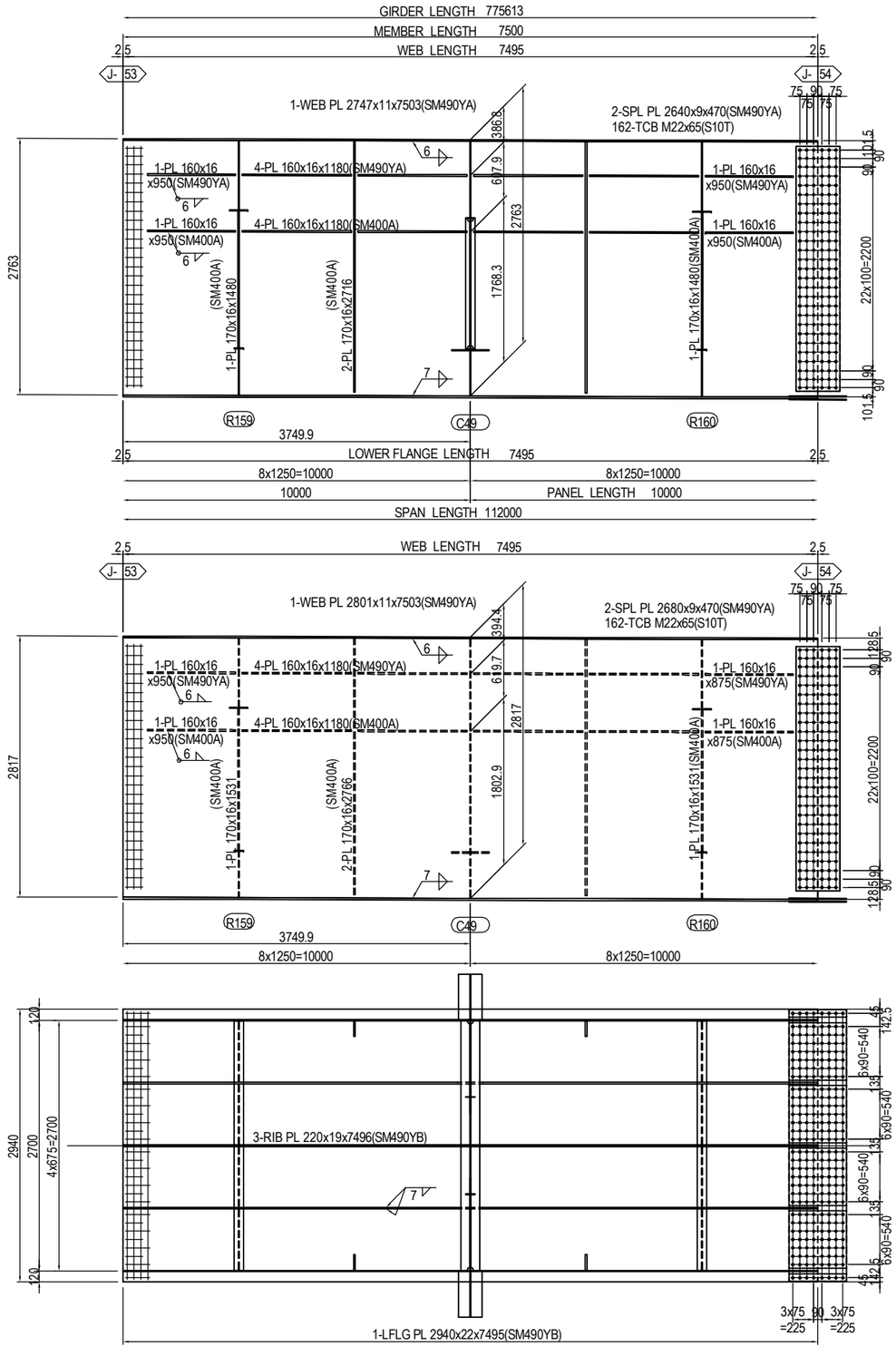
MARKING DIAGRAM



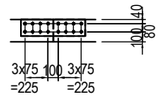
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR, MINISTRY OF CONSTRUCTION, DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. / ORIENTAL CONSULTANTS GLOBAL CO., LTD. / METROPOLITAN EXPRESSWAY COMPANY LIMITED / CHODAI CO.,LTD. / NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (53)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1253

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (54) S=1:60

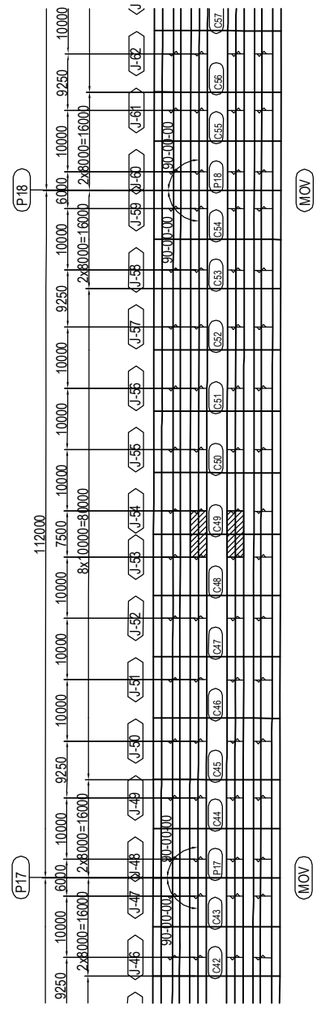


2-SPL PL 80x13x620(SM490YA)
4-SPL PL 620x13x620(SM490YA)
1-SPL PL 2930x11x620(SM490YA)
240-TCB M22x85(S10T)



(RIB PLATE per set)
2-SPL PL 160x15x630(SM490YA)
16-TCB M22x85(S10T)

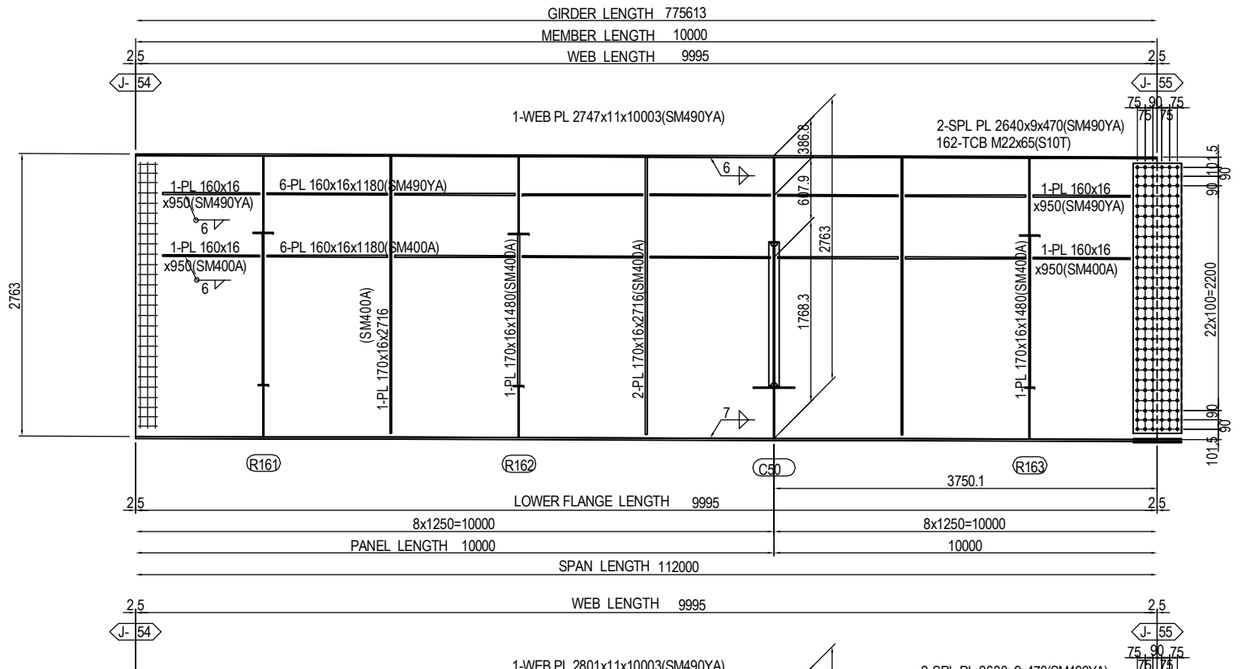
MARKING DIAGRAM

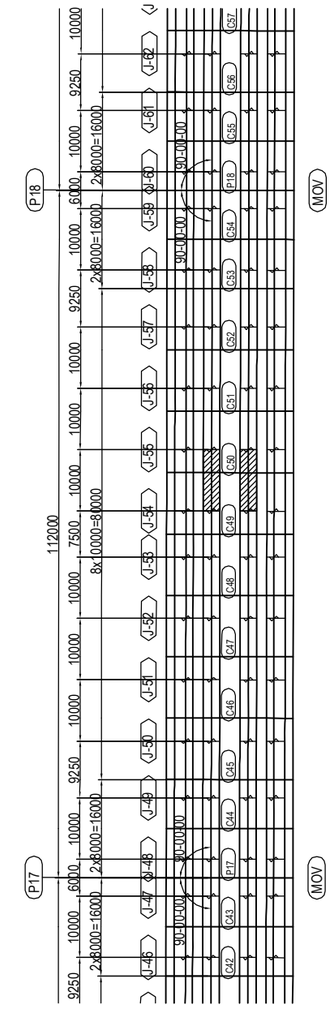


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

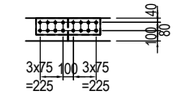
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (54)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1254

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (55) S=1:60





2-SPL PL 80x10x470(SM490YA)
4-SPL PL 620x10x470(SM490YA)
1-SPL PL 2930x9x470(SM490YA)
180-TCB M22x80(S10T)
1-FILL PL 2930x4.5x233(SS400)

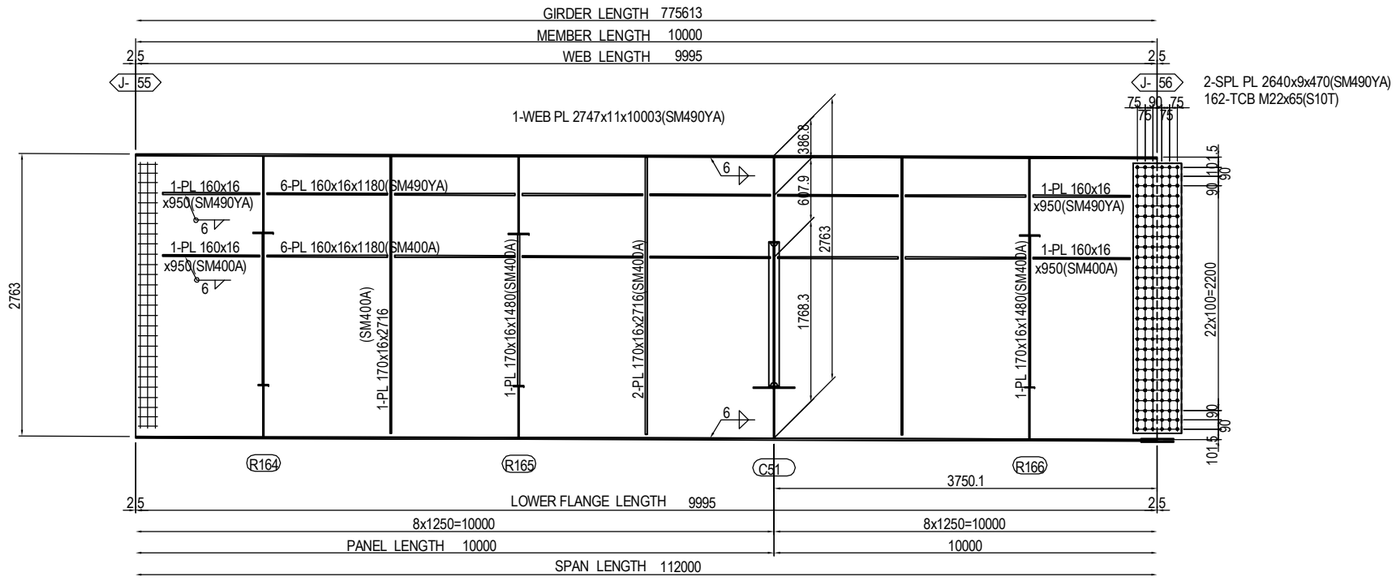


(RIB PLATE per set)
2-SPL PL 160x15x630(SM490YA)
16-TCB M22x85(S10T)

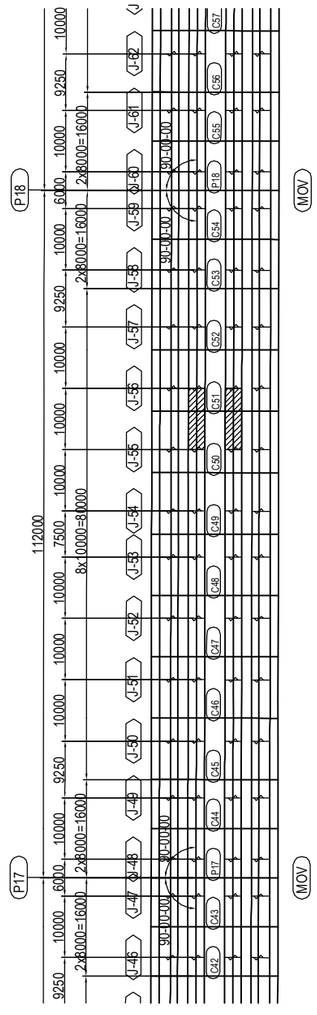
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (55)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1255

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (56) S=1:60



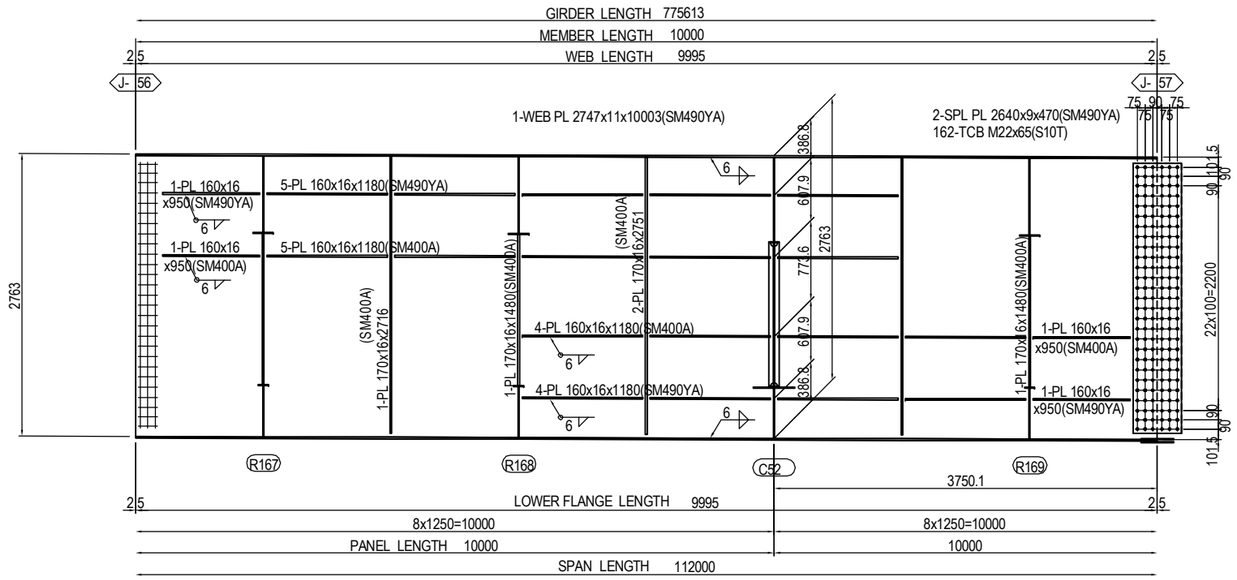
MARKING DIAGRAM

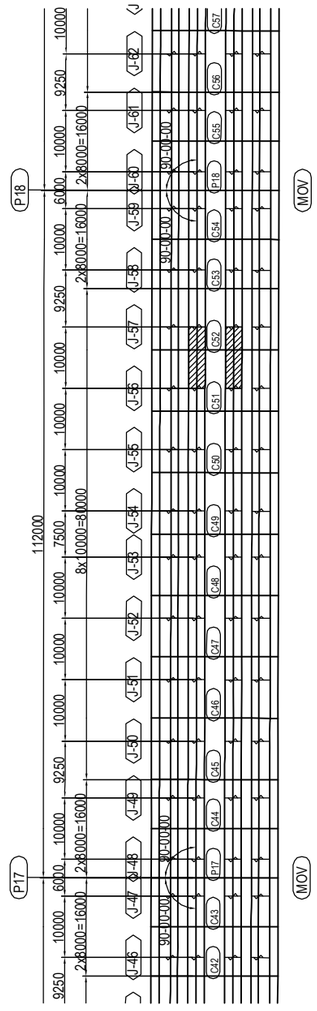


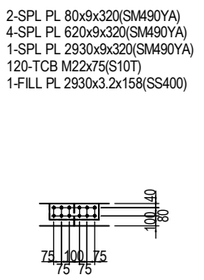
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR, MINISTRY OF CONSTRUCTION, DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. / ORIENTAL CONSULTANTS GLOBAL CO., LTD. / METROPOLITAN EXPRESSWAY COMPANY LIMITED / CHODAI CO.,LTD. / NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (56)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1256

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (57) S=1:60







2-SPL PL 80x9x320(SM490YA)
4-SPL PL 620x9x320(SM490YA)
1-SPL PL 2930x9x320(SM490YA)
120-TCB M22x75(S10T)
1-FILL PL 2930x3.2x158(SS400)

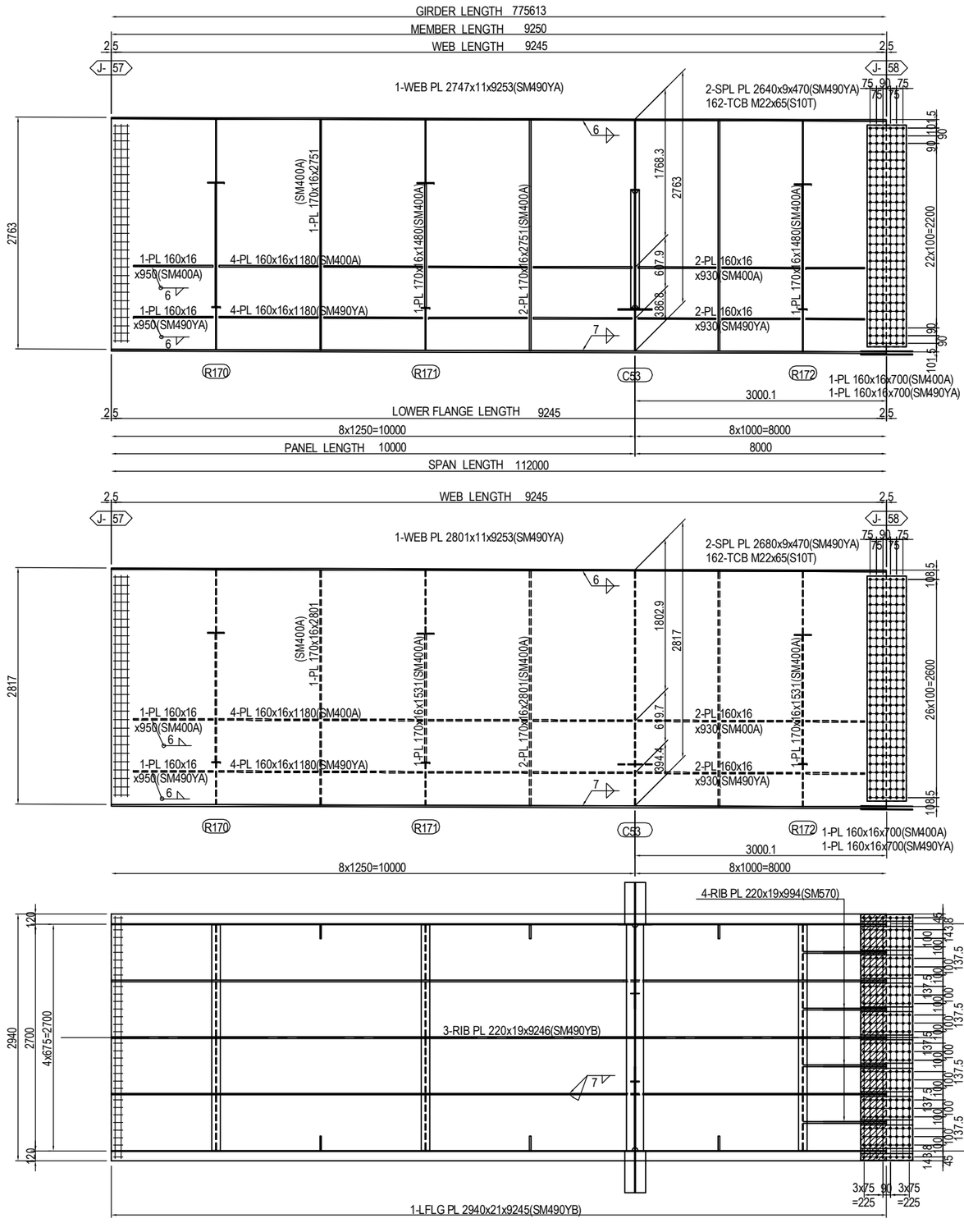
(RIB PLATE per set)
2-SPL PL 160x11x480(SM490YA)
12-TCB M22x80(S10T)

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

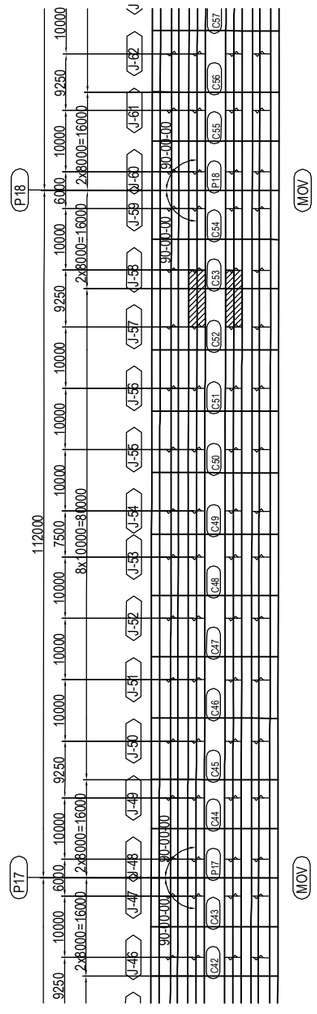
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (57)	2
	DWG No.
	P2-SB-1257

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (58) S=1:60

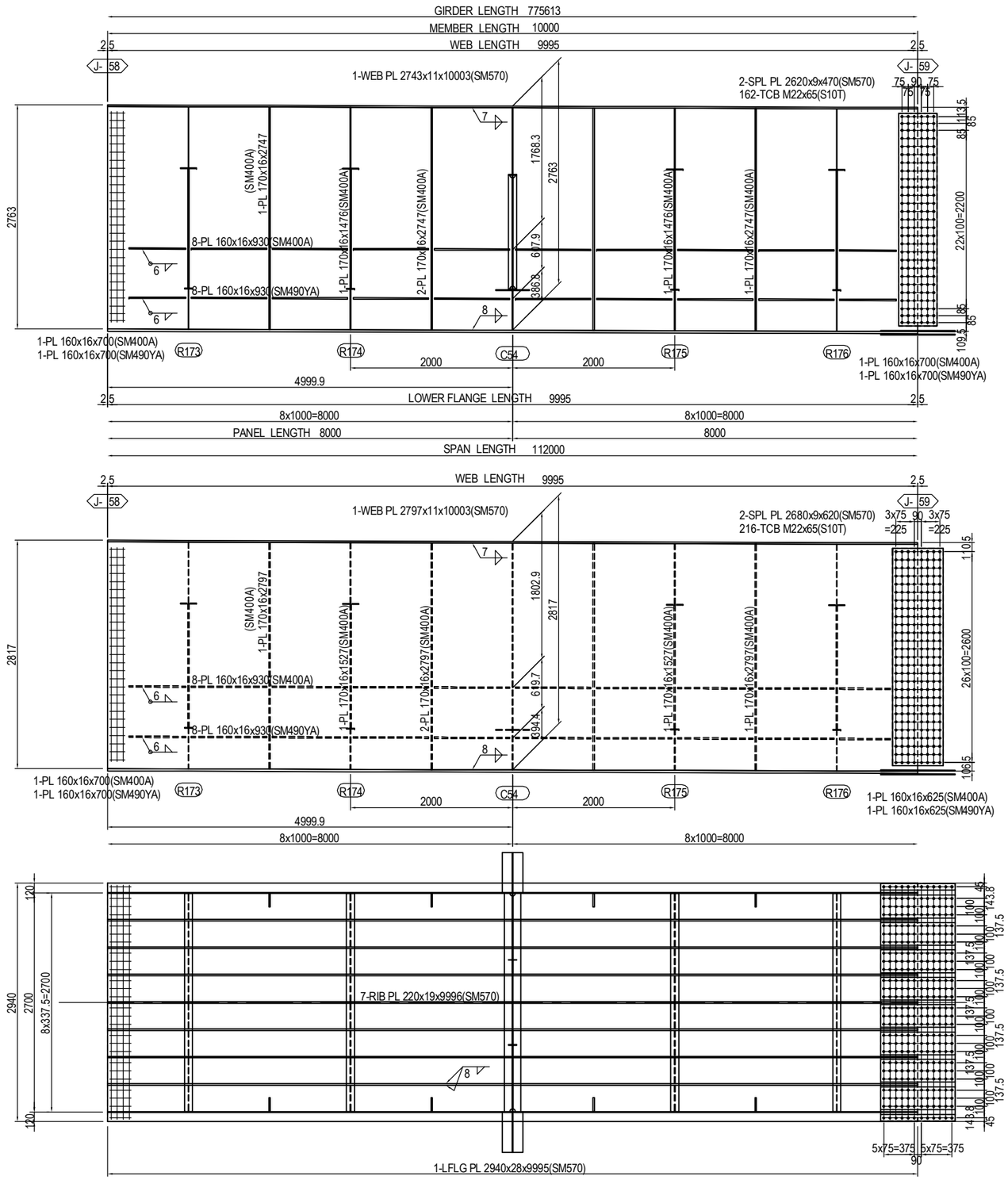


MARKING DIAGRAM

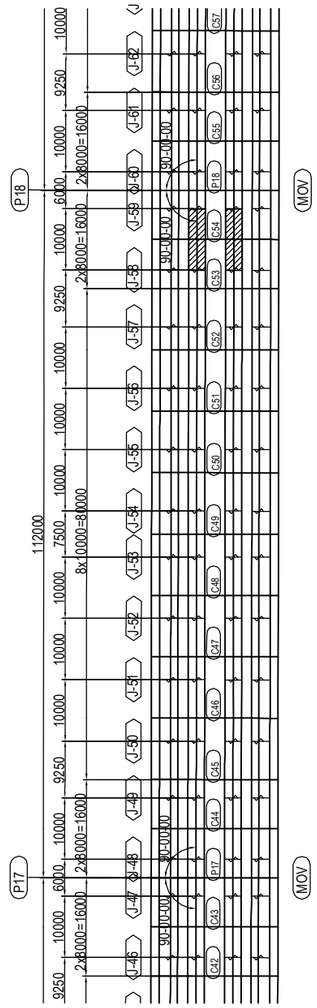


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME / SIGNATURE / DATE	DRAWING TITLE / PACKAGE
				PREPARED BY: S. IMADA 15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (58)
				CHECKED BY: T. HAYAKAWA 20 Jun.2017	PACKAGE: 2
				APPROVED BY: Y. SANO 21 Jun.2017	DWG No.: P2-SB-1258

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (59) S=1:60

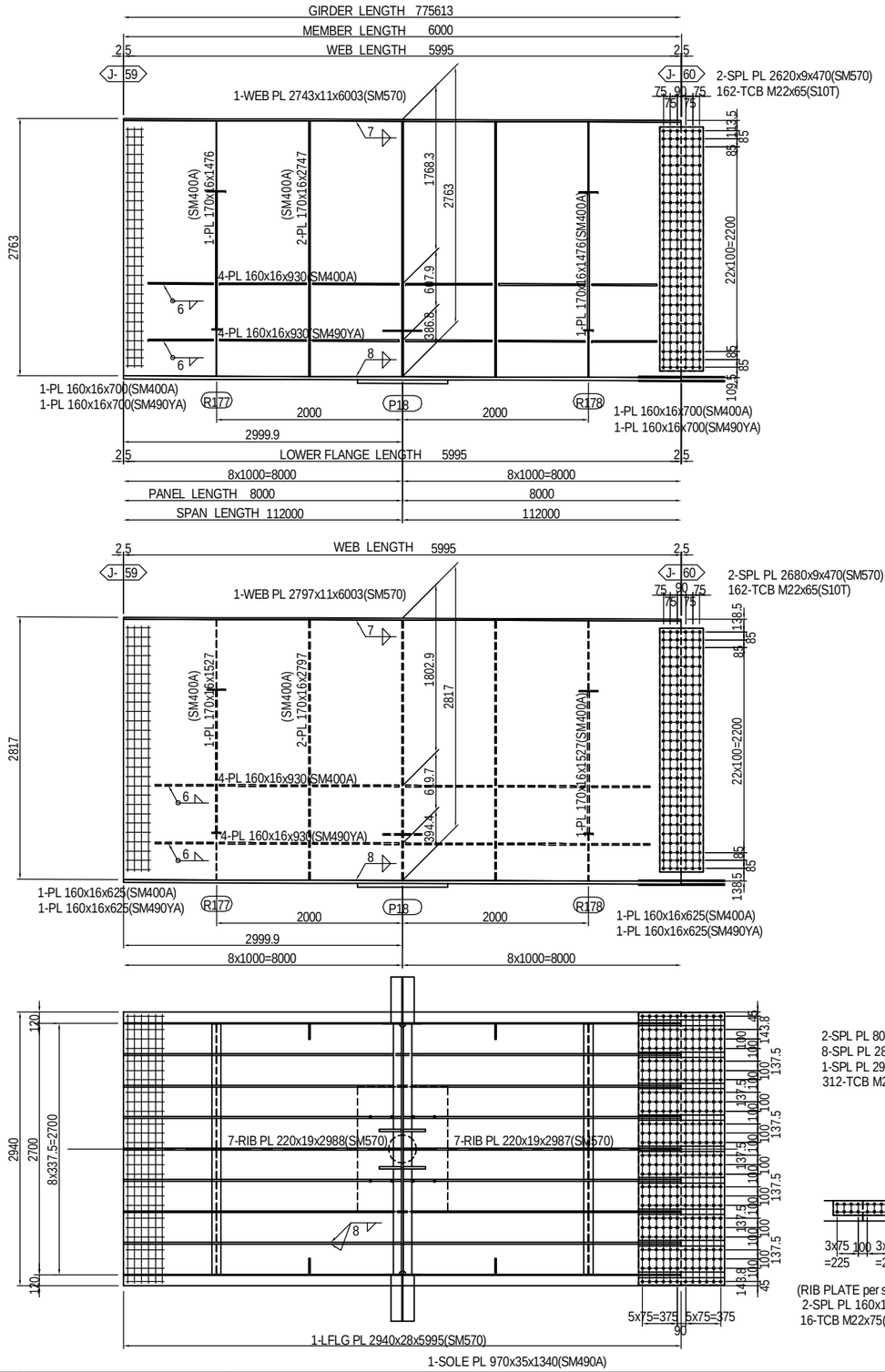


MARKING DIAGRAM

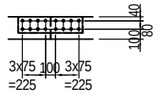


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR, MINISTRY OF CONSTRUCTION, DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. / ORIENTAL CONSULTANTS GLOBAL CO., LTD. / METROPOLITAN EXPRESSWAY COMPANY LIMITED / CHODAI CO.,LTD. / NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (59)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1259

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (60) S=1:60

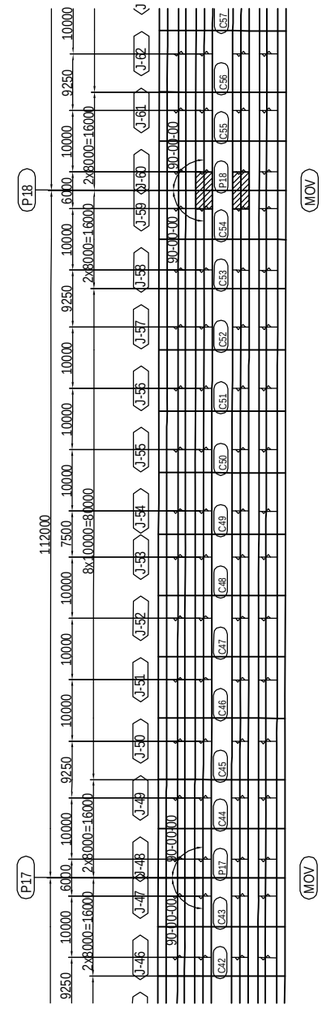


2-SPL PL 80x13x920(SM570)
8-SPL PL 280x13x920(SM570)
1-SPL PL 2930x11x920(SM570)
312-TCB M22x90(S10T)



(RIB PLATE per set)
2-SPL PL 160x10x630(SM570)
16-TCB M22x75(S10T)

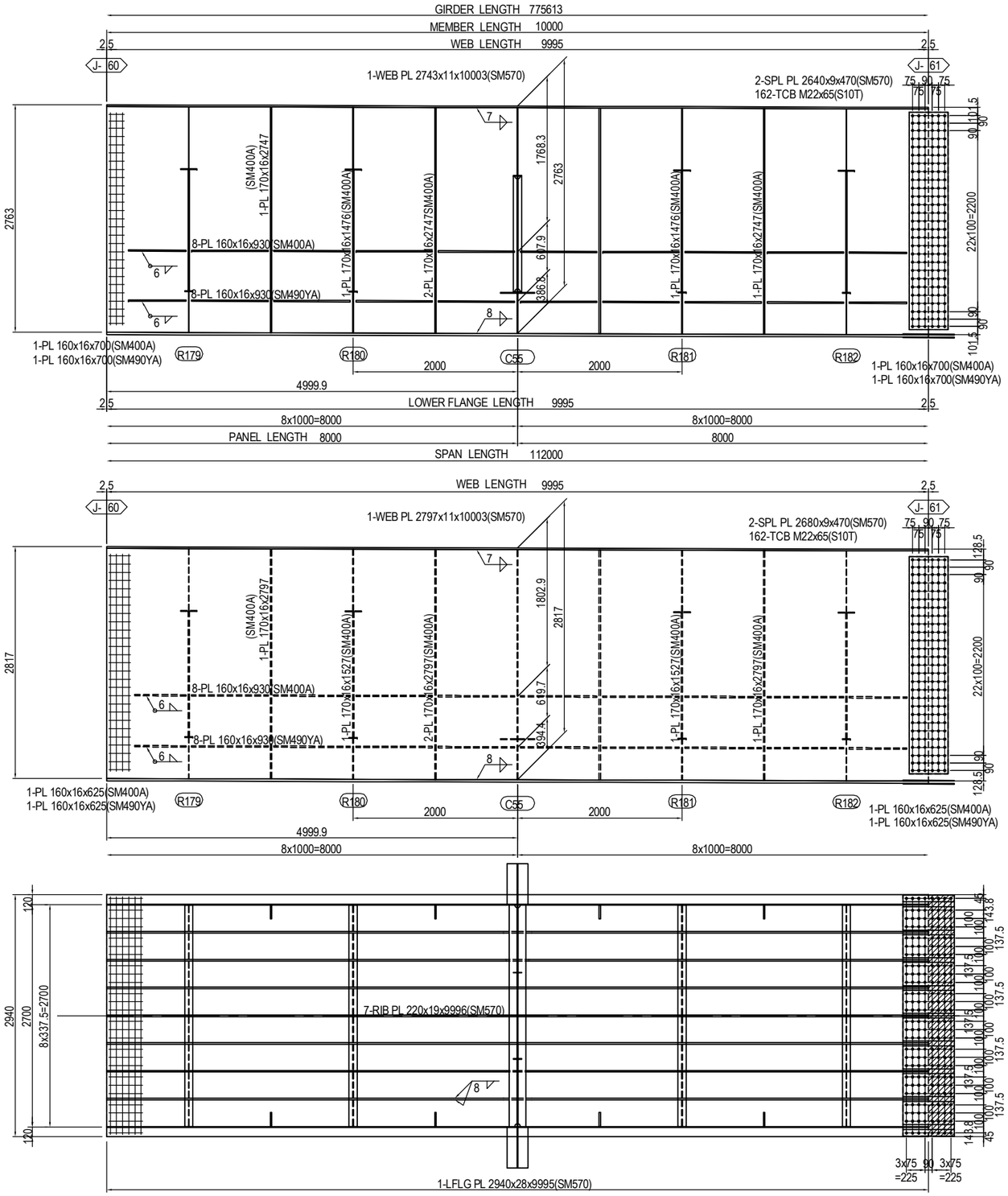
MARKING DIAGRAM



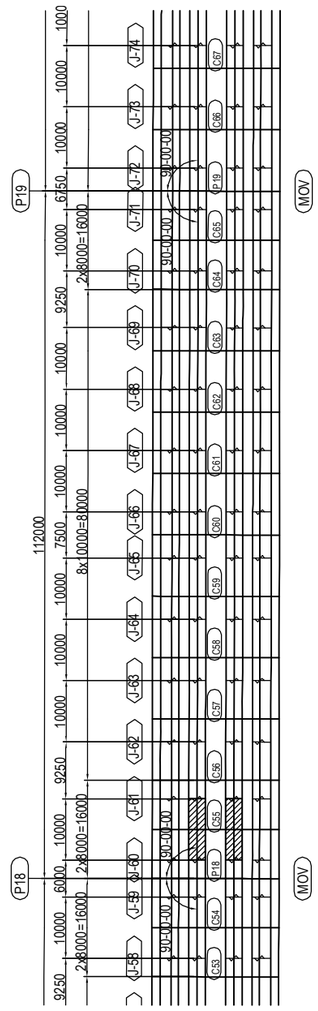
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (60)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1260

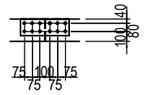
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (61) S=1:60



MARKING DIAGRAM



2-SPL PL 80x9x620(SM570)
8-SPL PL 280x9x620(SM570)
1-SPL PL 2930x9x620(SM570)
208-TCB M22x85(S10T)
1-FILL PL 2930x8x308(SS400)



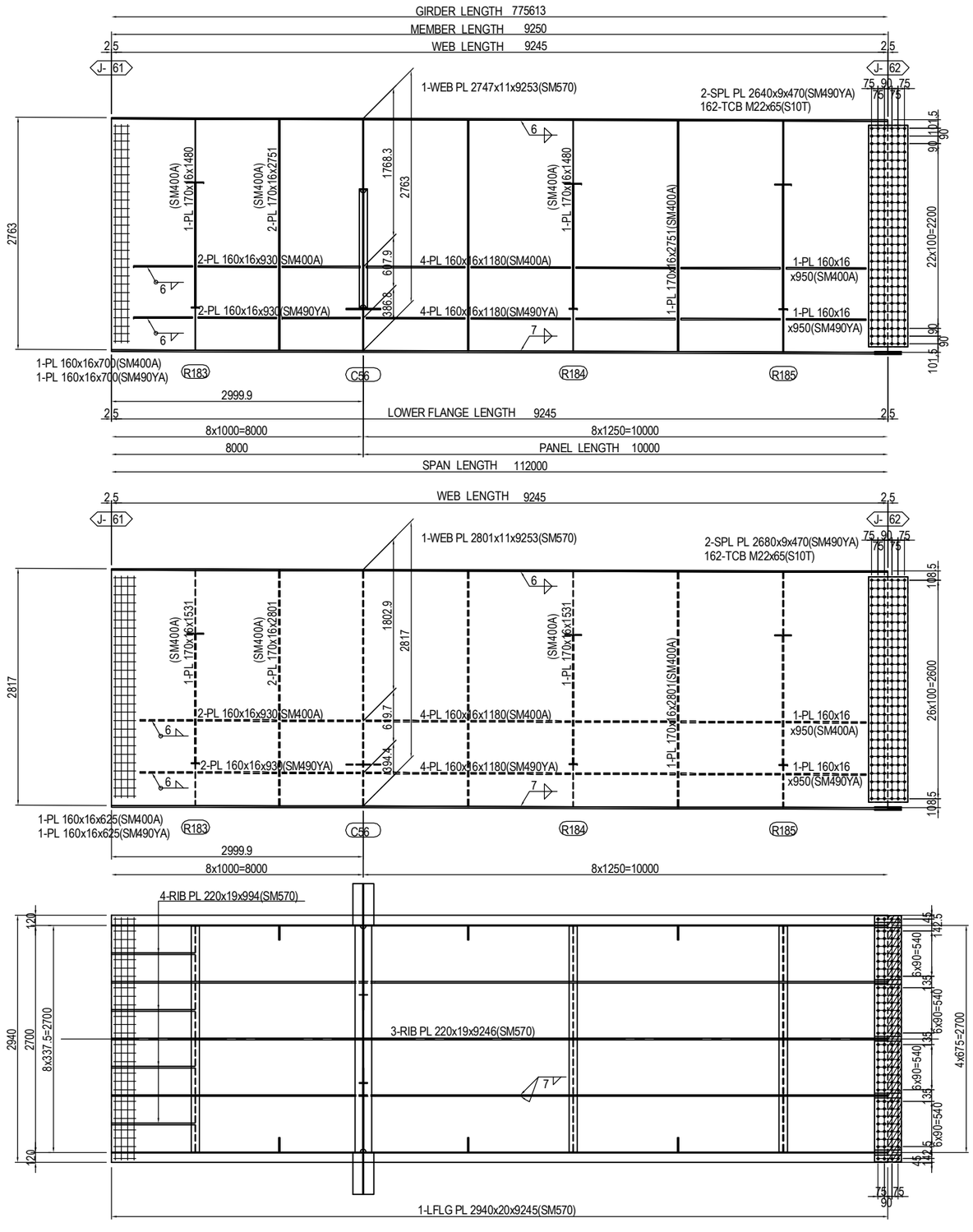
(RIB PLATE per set)
2-SPL PL 160x9x480(SM570)
12-TCB M22x75(S10T)

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

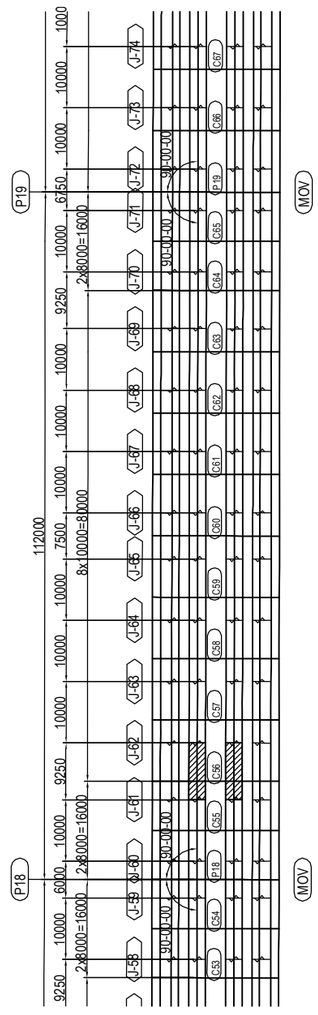
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (61)
PACKAGE	2
DWG No.	P2-SB-1261

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (62) S=1:60



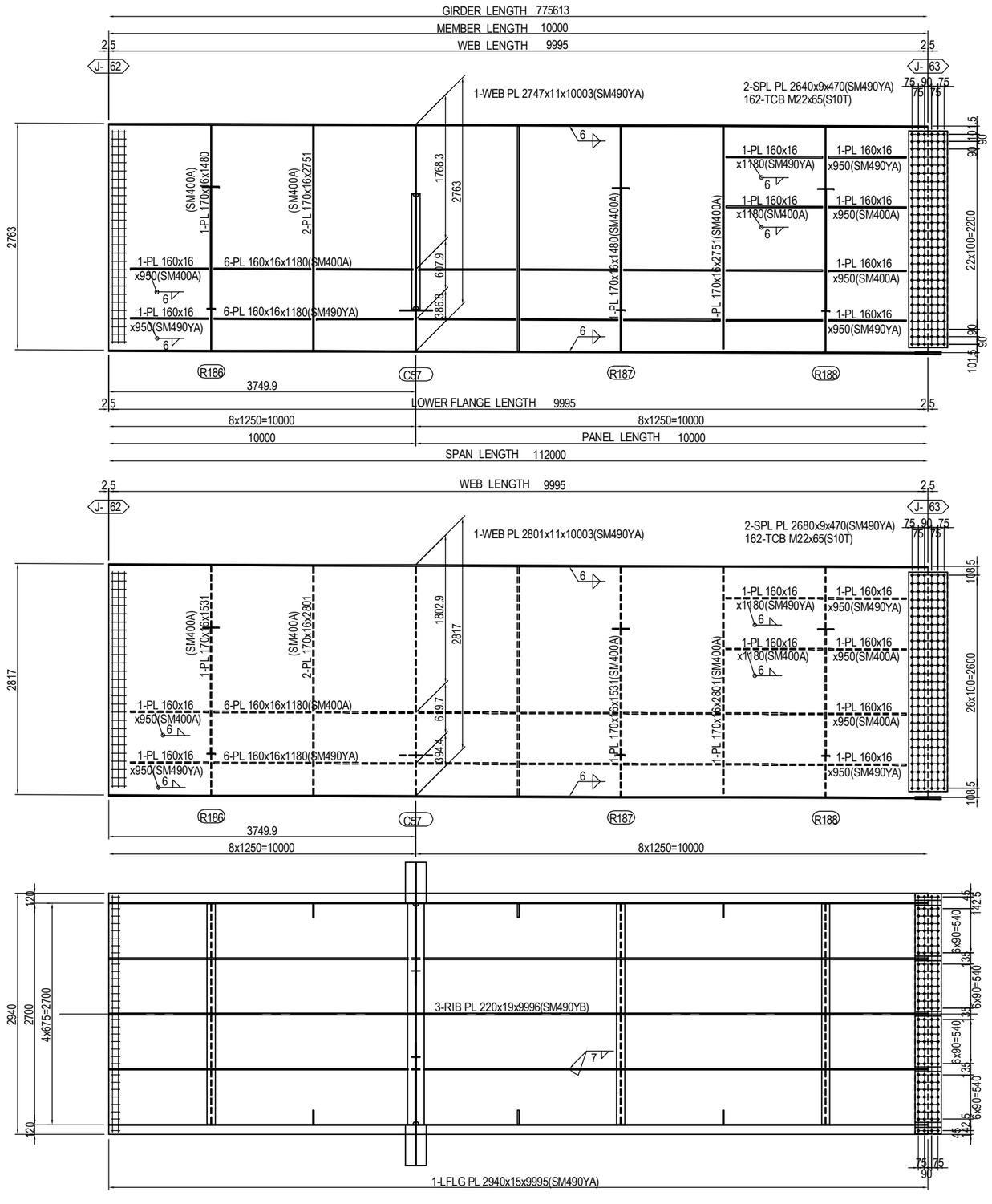
MARKING DIAGRAM



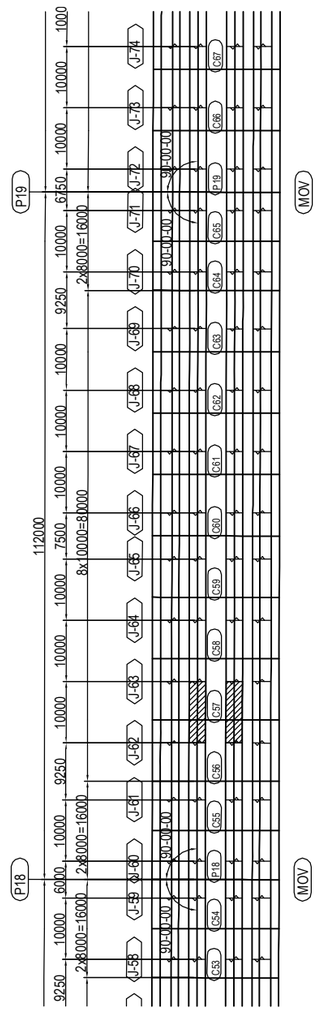
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (62)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1262

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (63) S=1:60

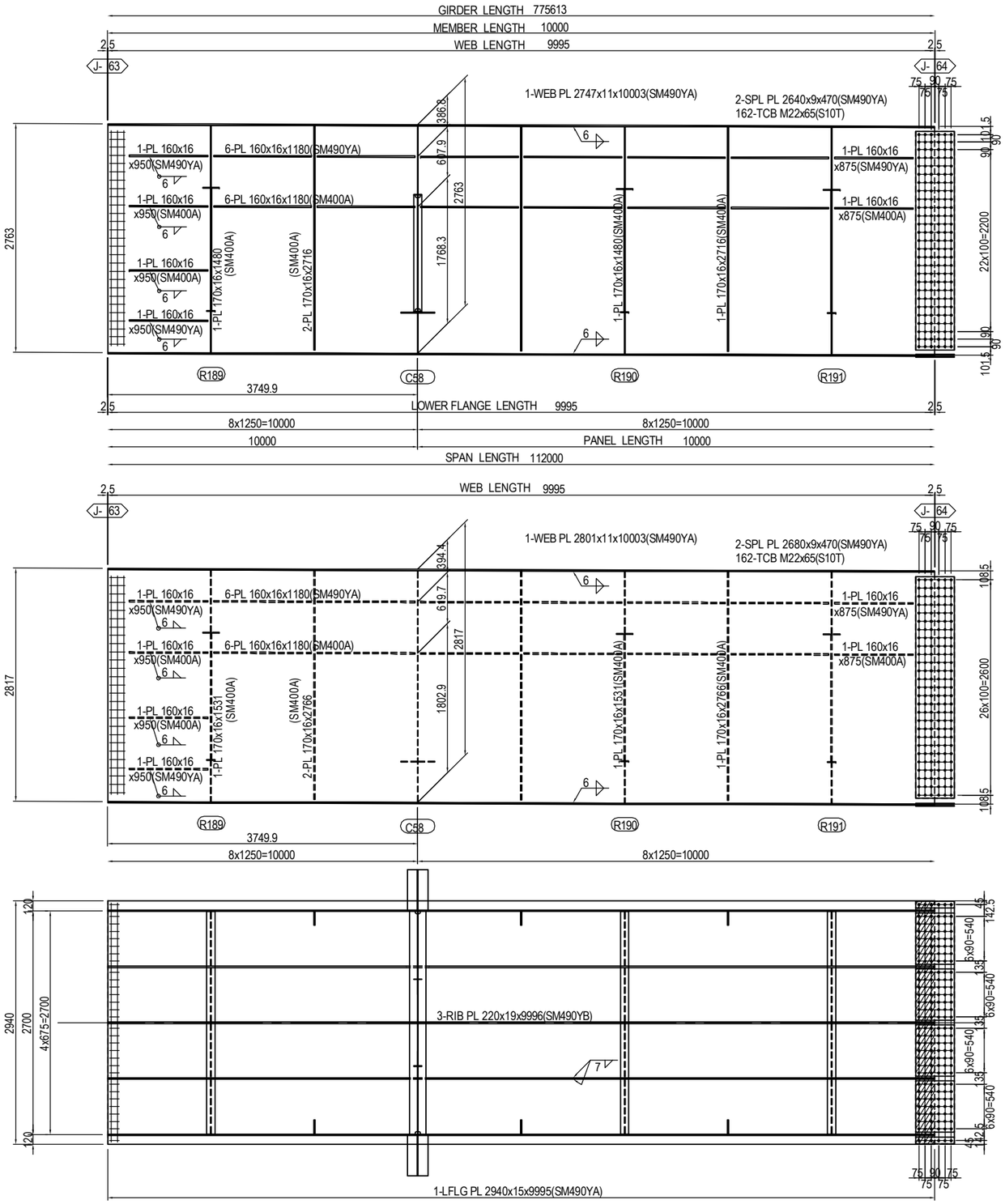


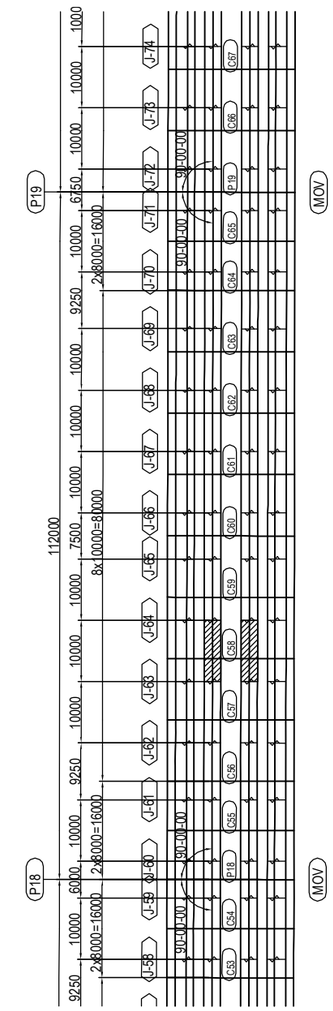
MARKING DIAGRAM



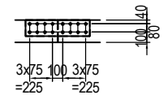
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (63)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1263

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (64) S=1:60





2-SPL PL 80x9x470(SM490YA)
4-SPL PL 620x9x470(SM490YA)
1-SPL PL 2930x9x470(SM490YA)
180-TCB M22x75(S10T)
1-FILL PL 2930x4.5x233(SS400)



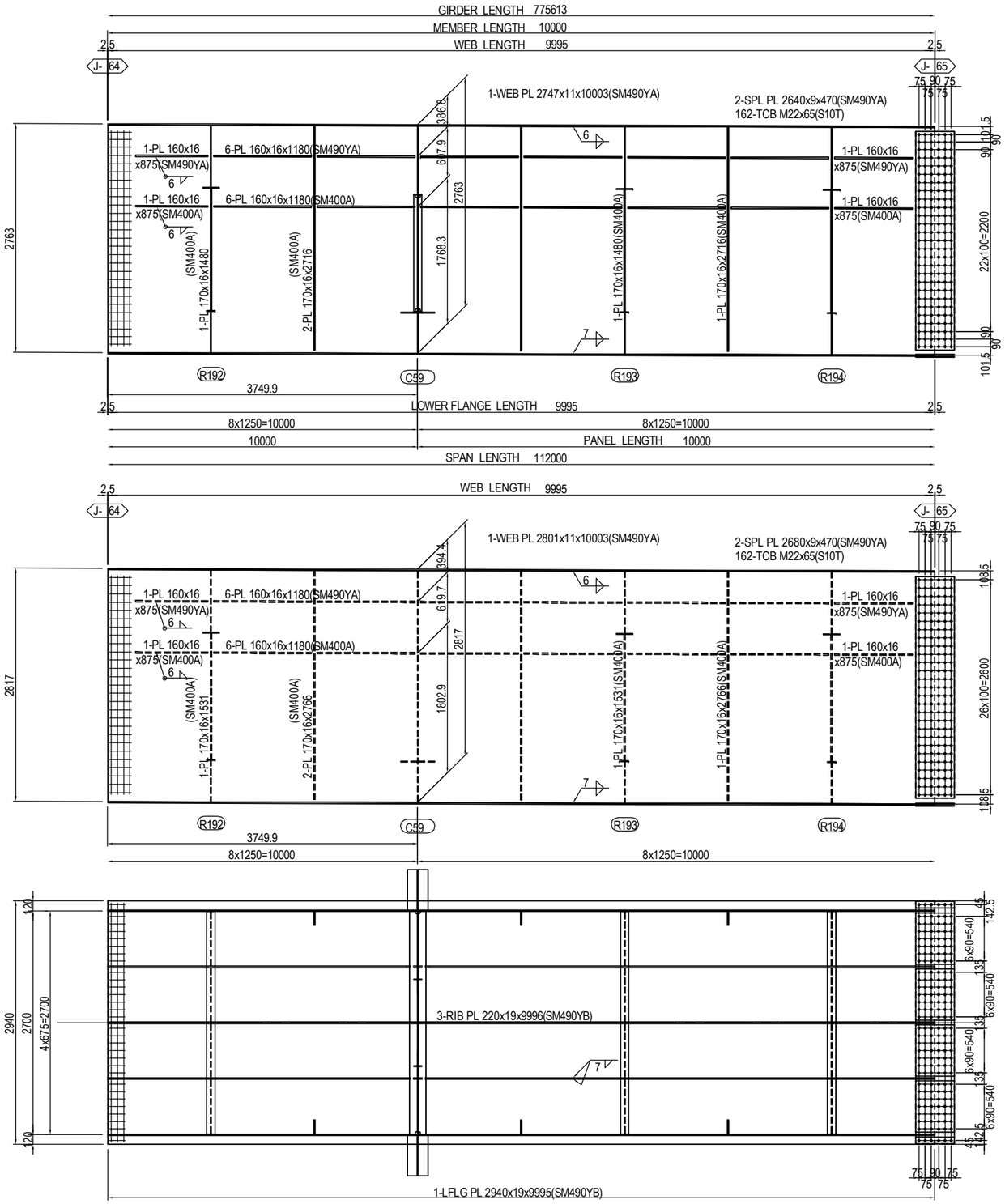
(RIB PLATE per set)
2-SPL PL 160x14x630(SM490YA)
16-TCB M22x85(S10T)

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

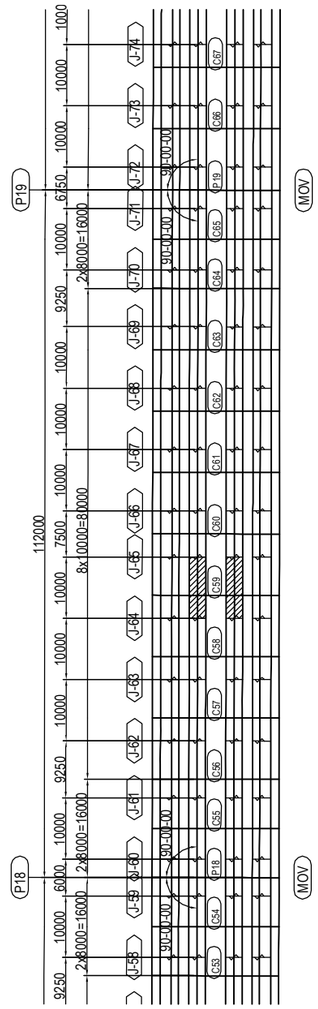
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (64)	2
	DWG No.
	P2-SB-1264

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (65) S=1:60



MARKING DIAGRAM

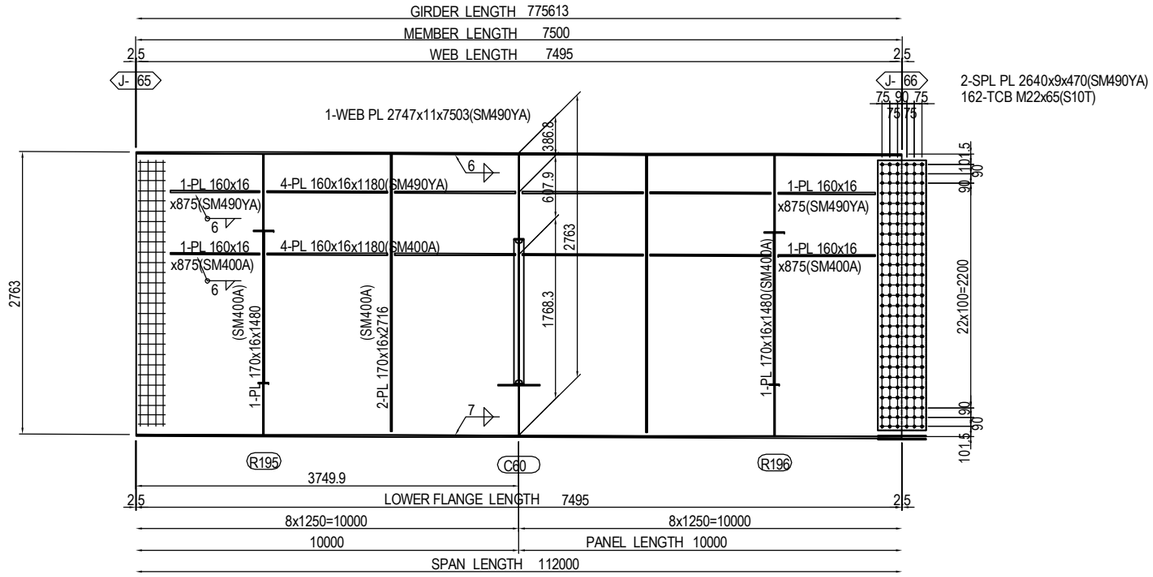


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

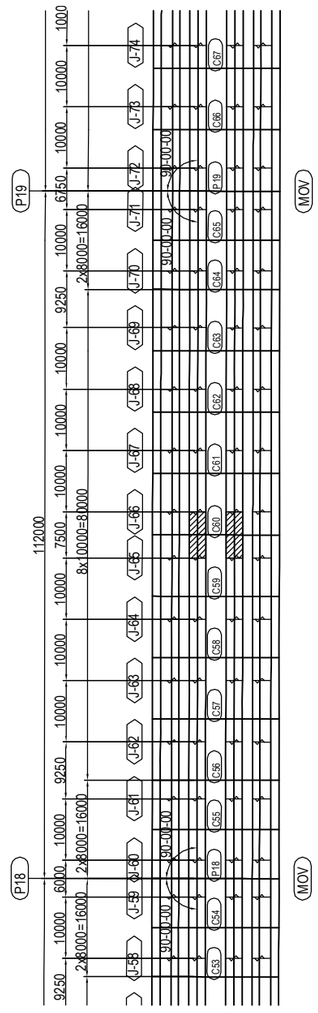
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (65)	2
	DWG No.
	P2-SB-1265

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (66) S=1:60



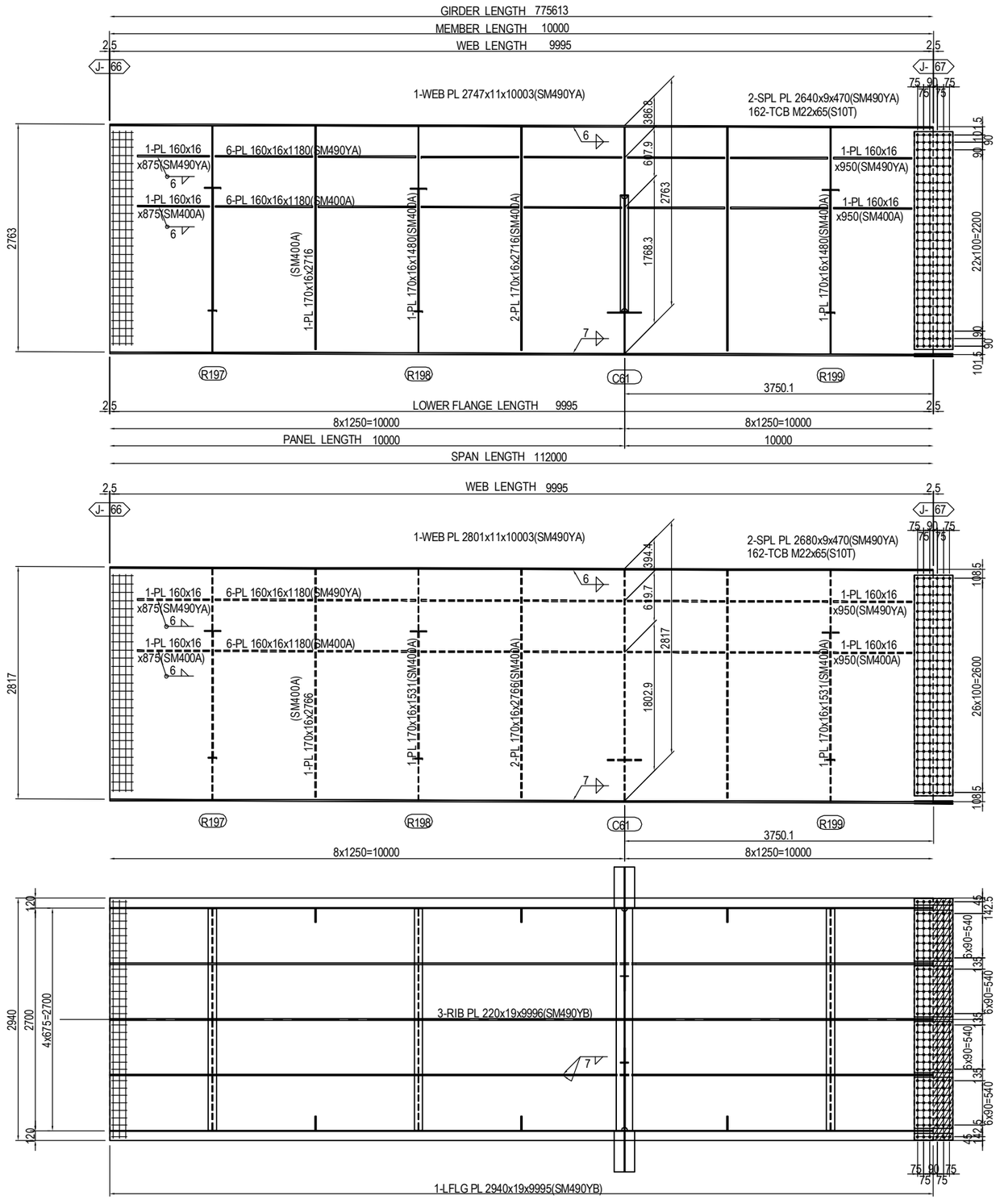
MARKING DIAGRAM



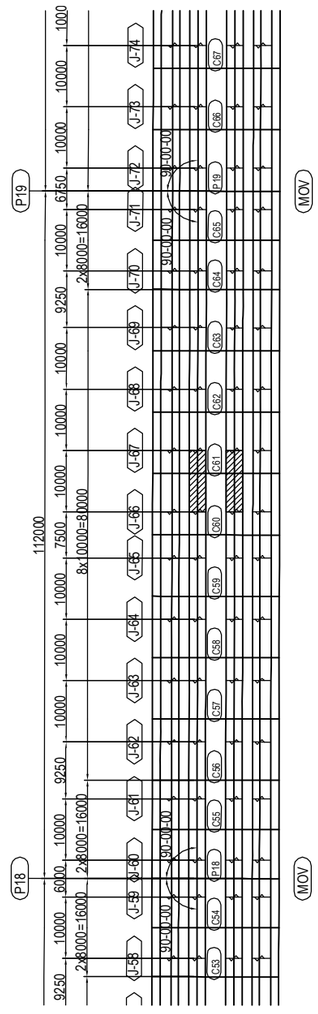
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (66)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1266

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (67) S=1:60

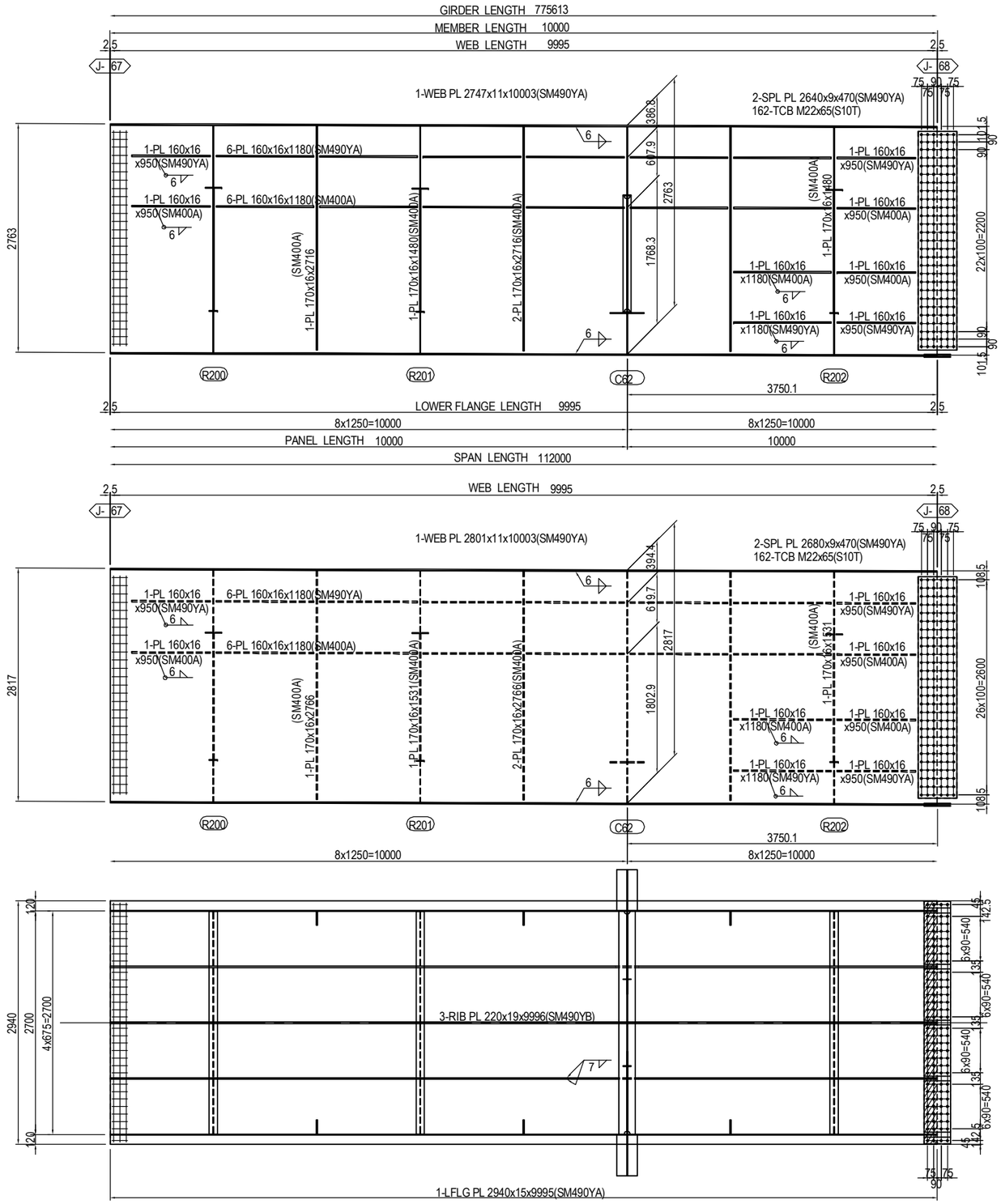


MARKING DIAGRAM

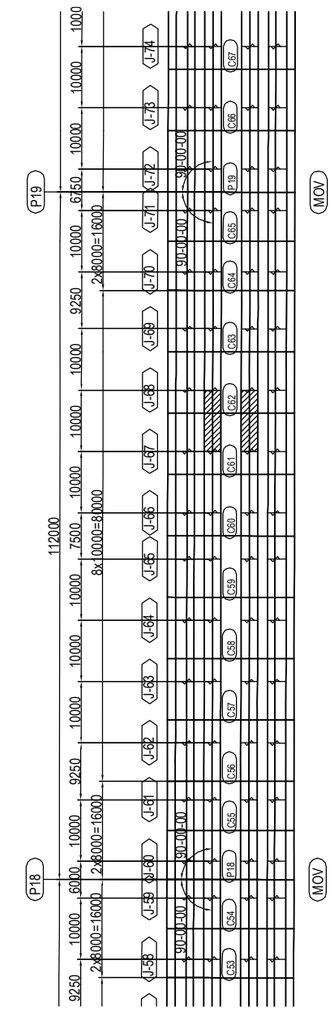


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (67)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1267

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (68) S=1:60



MARKING DIAGRAM

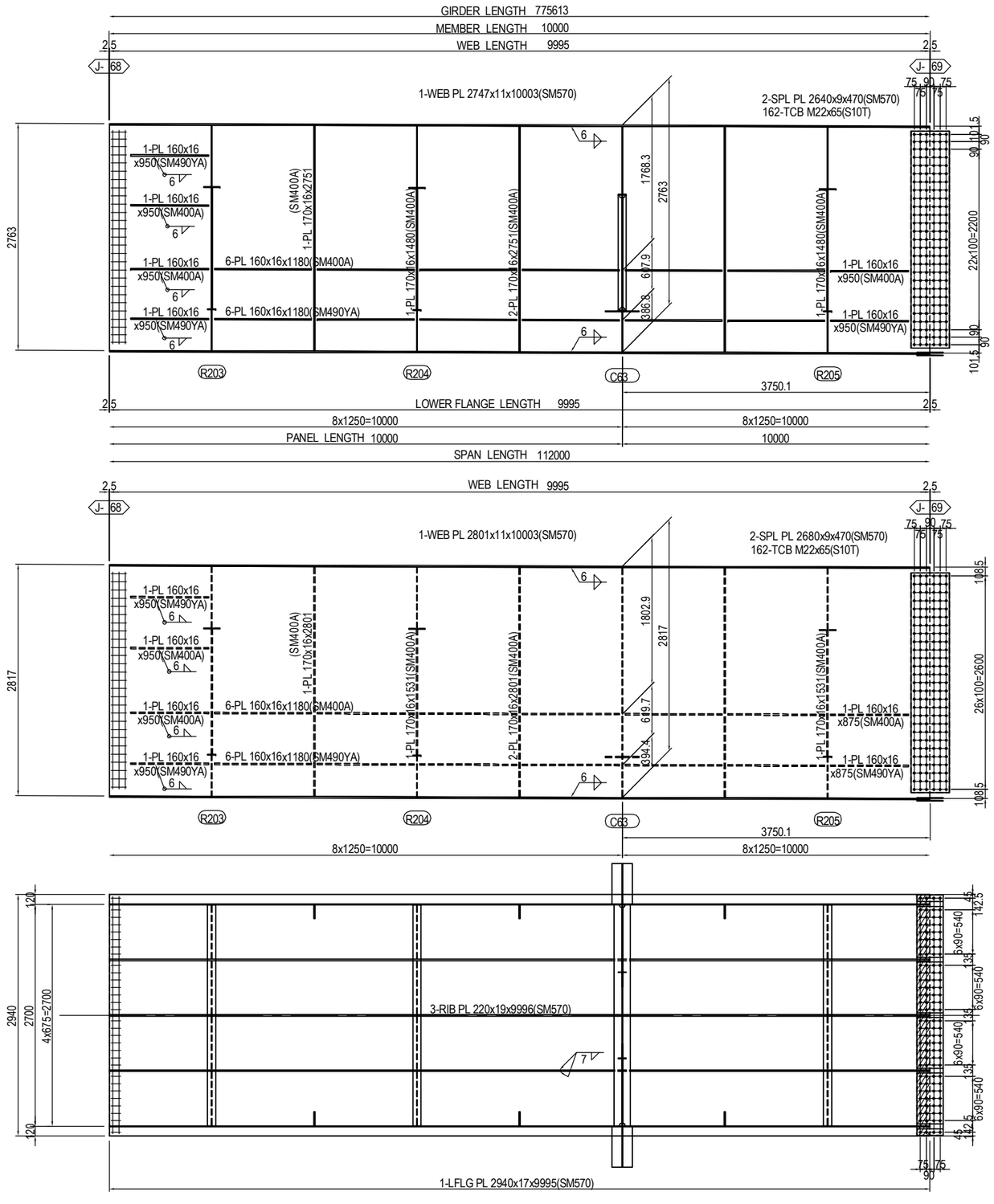


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

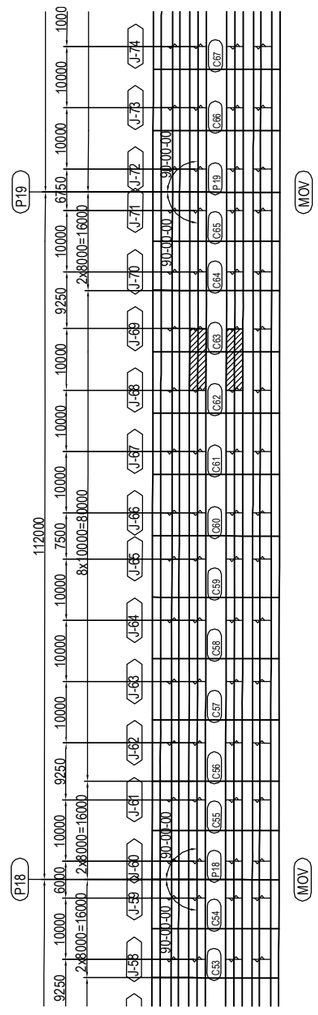
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (68)	2
	DWG No.
	P2-SB-1268

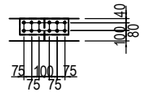
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (69) S=1:60



MARKING DIAGRAM



2-SPL PL 80x9x320(SM570)
4-SPL PL 620x9x320(SM570)
1-SPL PL 2930x9x320(SM570)
120-TCB M22x80(S10T)
1-FILL PL 2930x6x158(SS400)



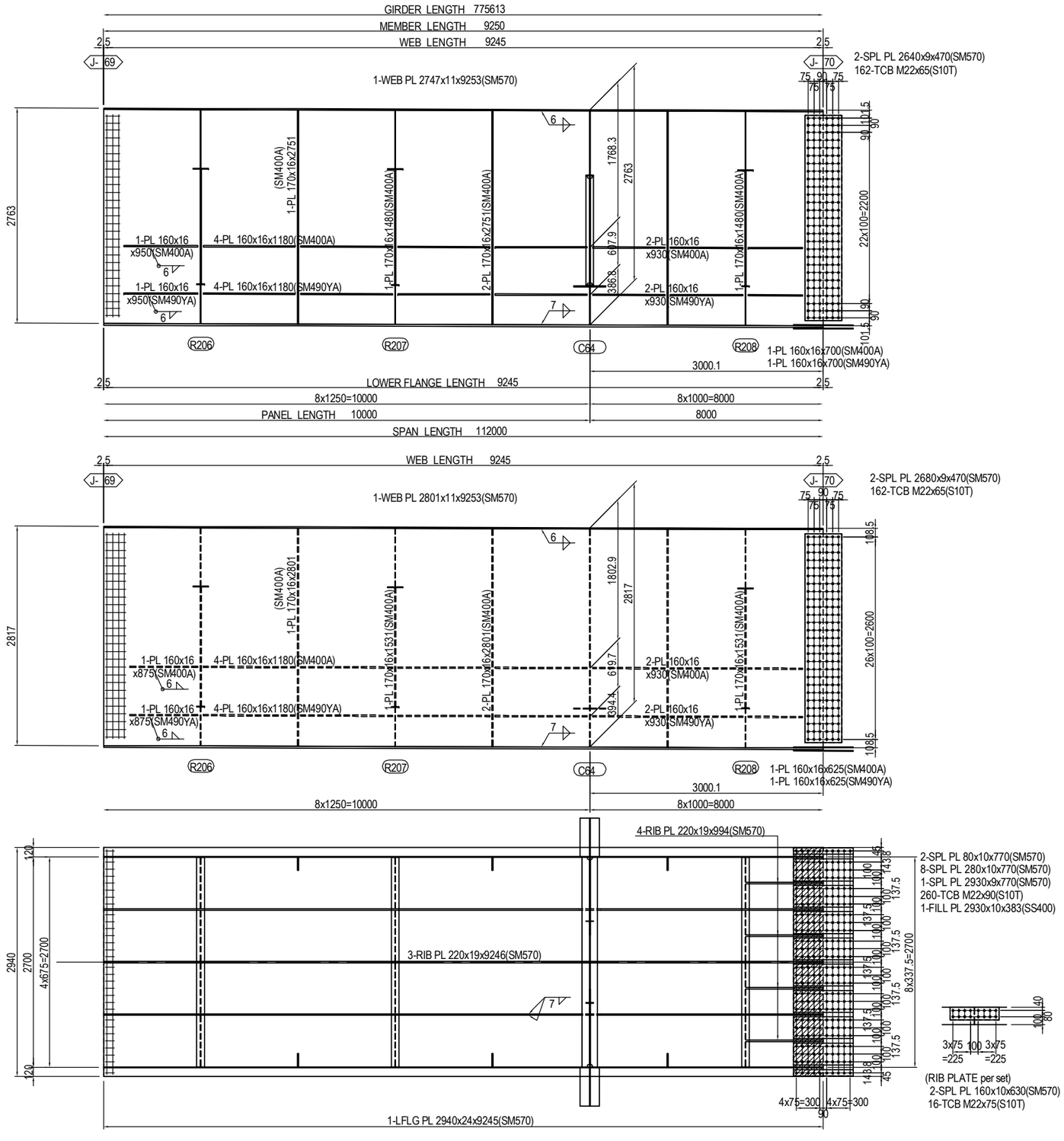
(RIB PLATE per set)
2-SPL PL 160x9x480(SM570)
12-TCB M22x75(S10T)

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

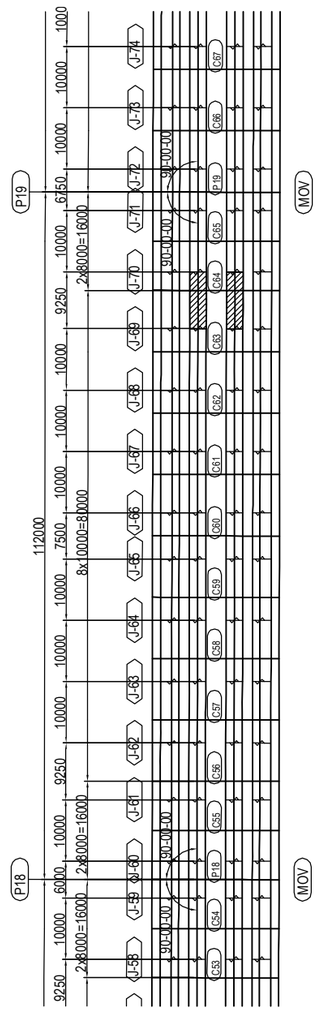
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (69)	2
	DWG No.
	P2-SB-1269

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (70) S=1:60



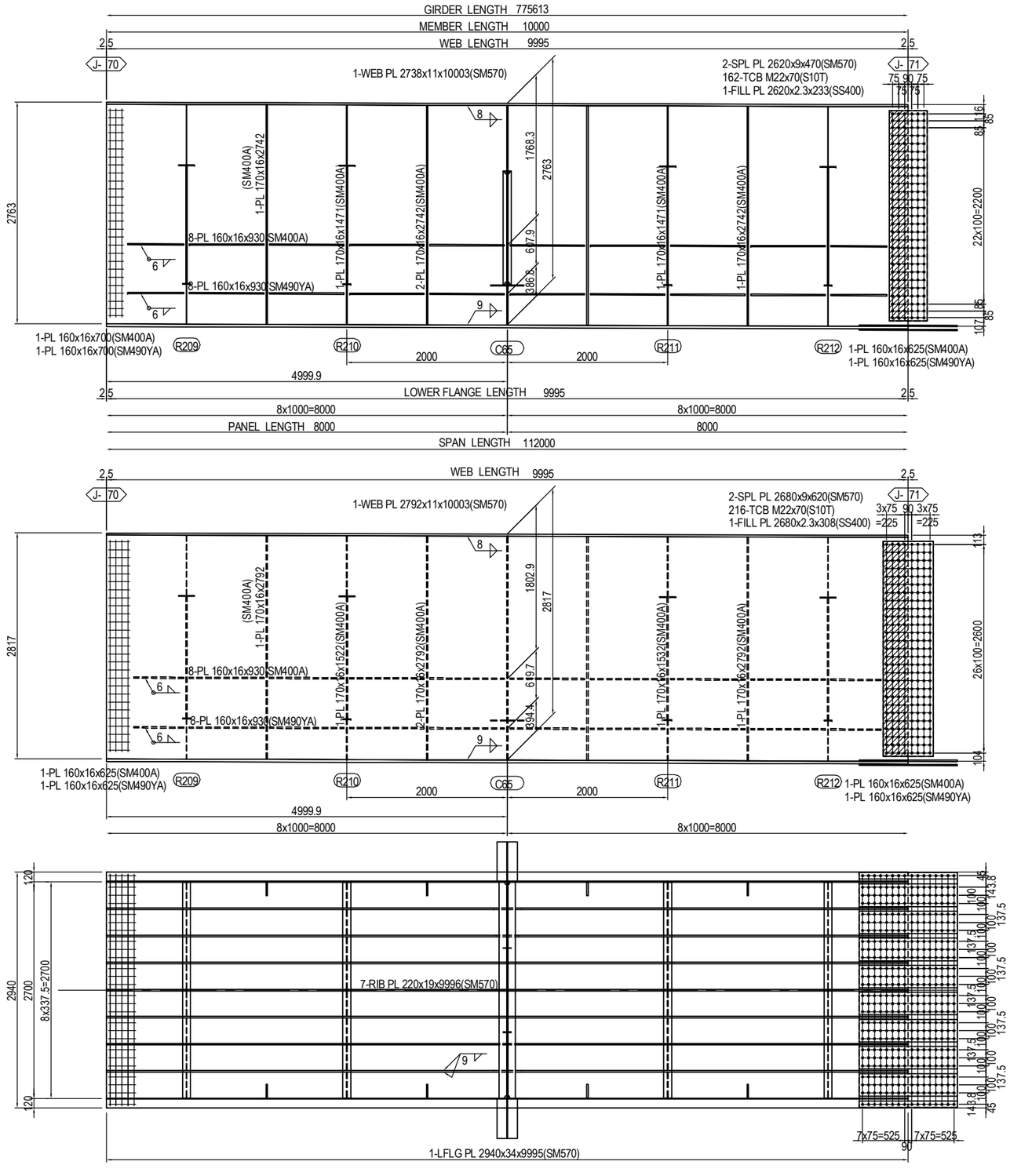
MARKING DIAGRAM

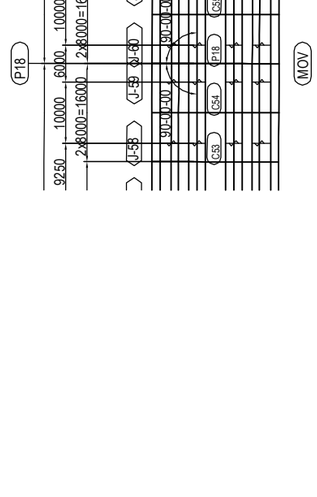


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

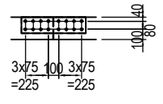
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (70)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1270

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (71) S=1:60





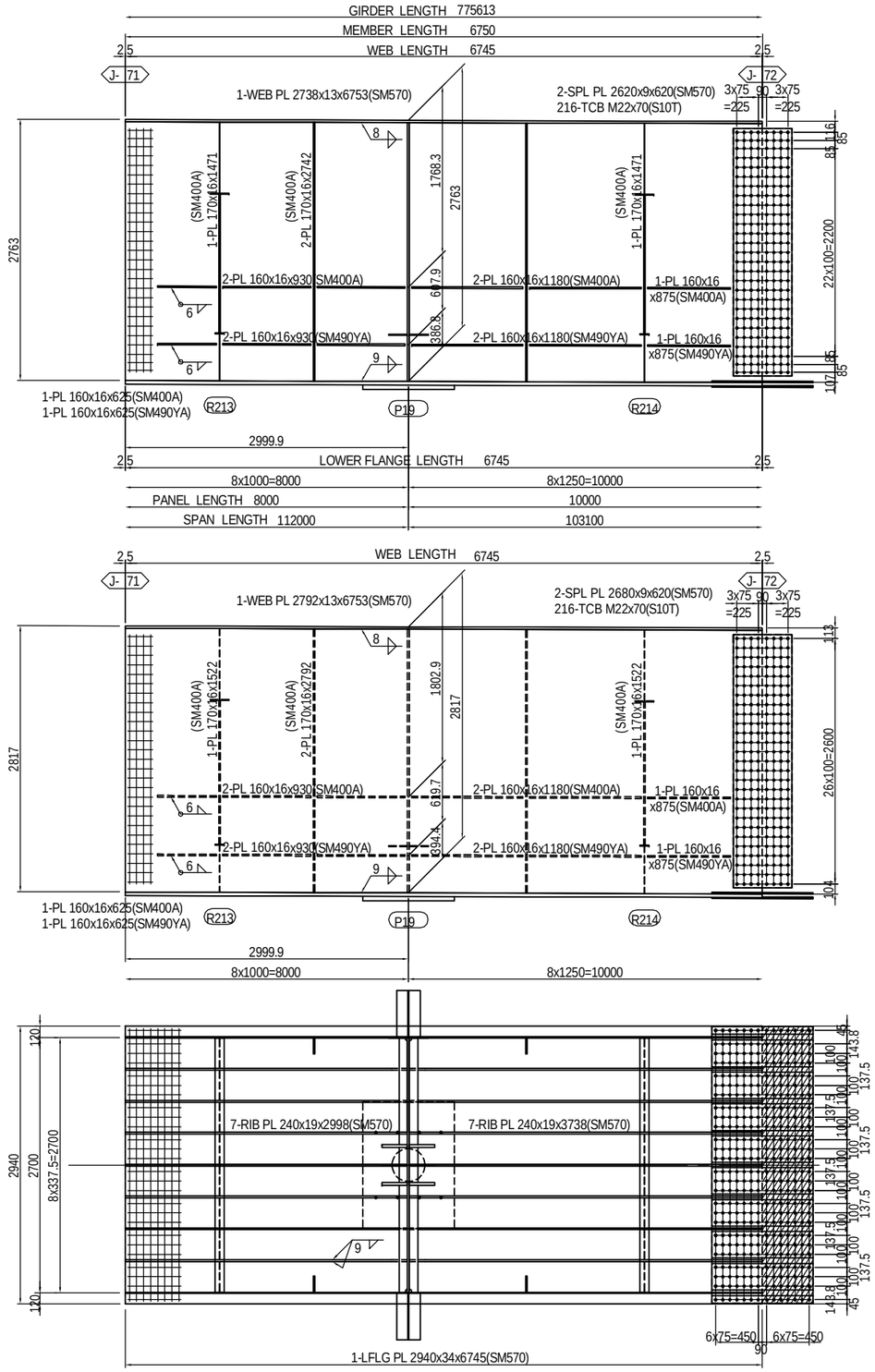
2-SPL PL 80x17x1220(SM570)
8-SPL PL 280x17x1220(SM570)
1-SPL PL 2930x13x1220(SM570)
416-TCB M22x105(S10T)



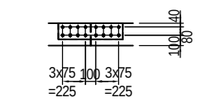
(RIB PLATE per set)
2-SPL PL 160x11x630(SM570)
16-TCB M22x80(S10T)

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (71)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1271

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (72) S=1:60

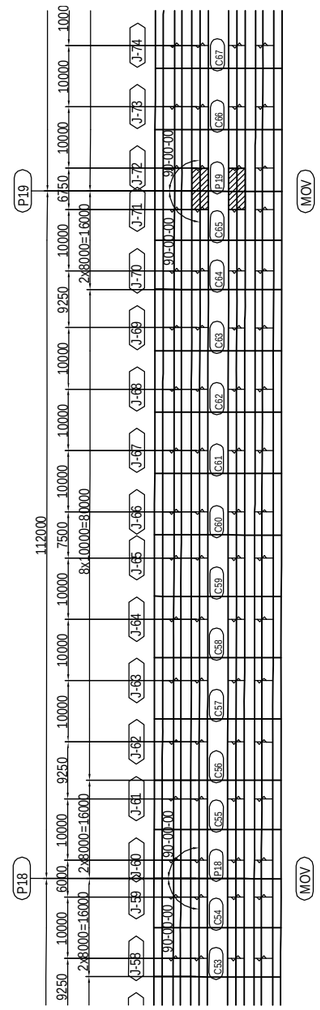


2-SPL PL 80x16x1070(SM570)
8-SPL PL 280x16x1070(SM570)
1-SPL PL 2930x13x1070(SM570)
364-TCB M22x100(S10T)
1-FILL PL 2930x2.3x533(SS400)



(RIB PLATE per set)
2-SPL PL 160x10x630(SM570)
16-TCB M22x75(S10T)

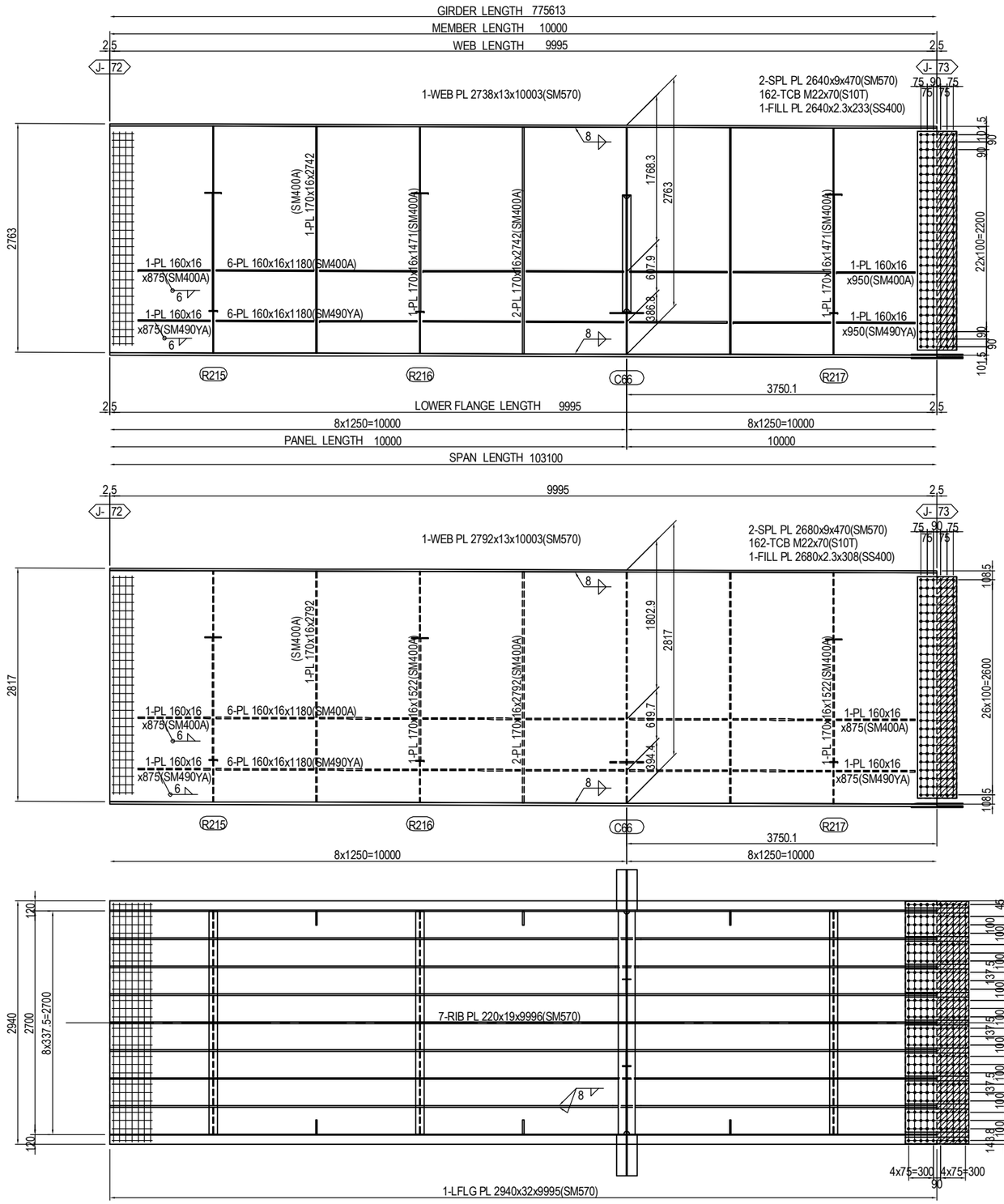
MARKING DIAGRAM



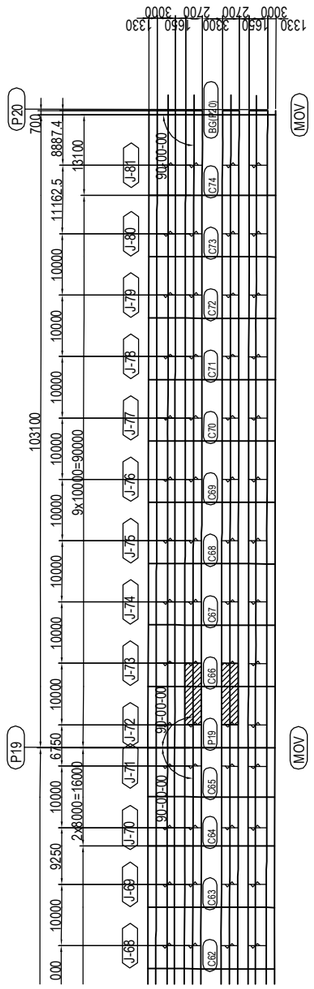
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (72)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1272

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (73) S=1:60



MARKING DIAGRAM

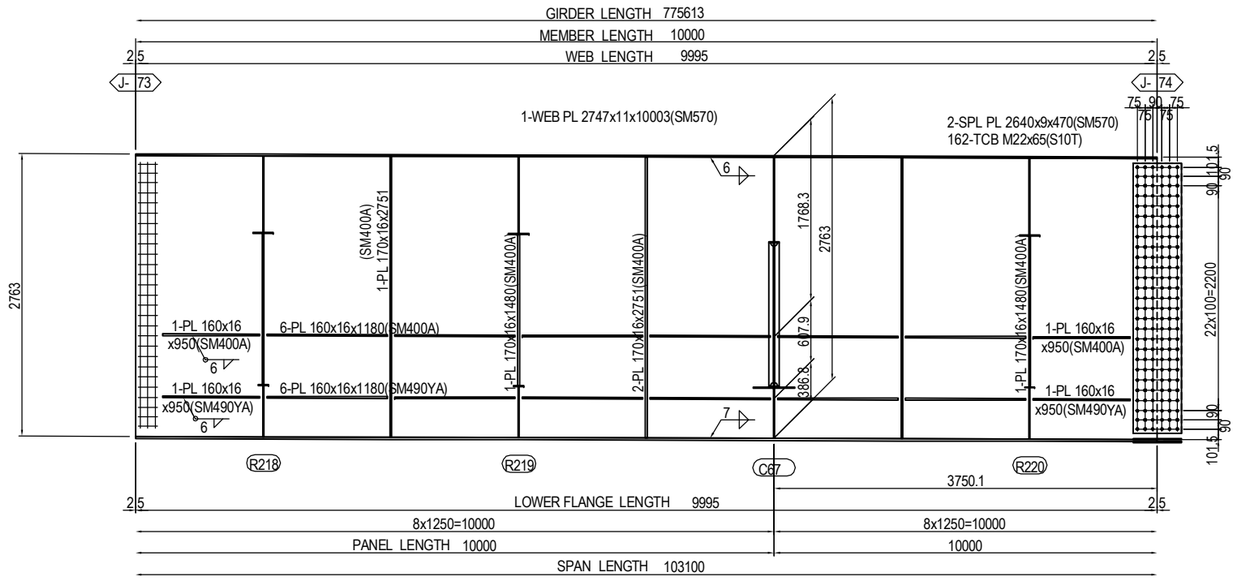


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR, MINISTRY OF CONSTRUCTION, DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. / ORIENTAL CONSULTANTS GLOBAL CO., LTD. / METROPOLITAN EXPRESSWAY COMPANY LIMITED / CHODAI CO.,LTD. / NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

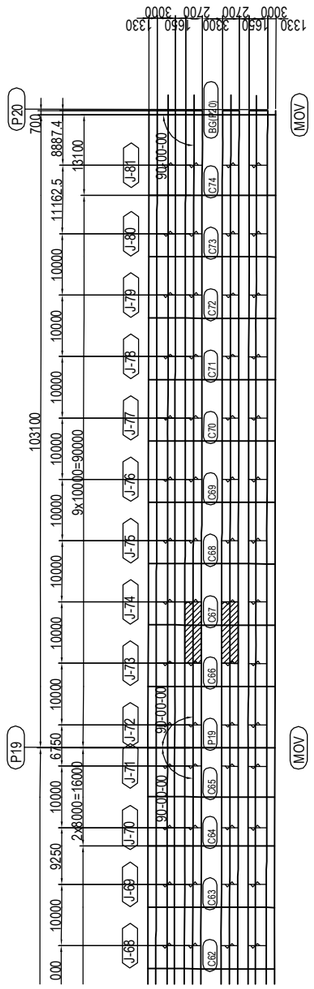
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (73)	2
	DWG No.
	P2-SB-1273

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (74) S=1:60

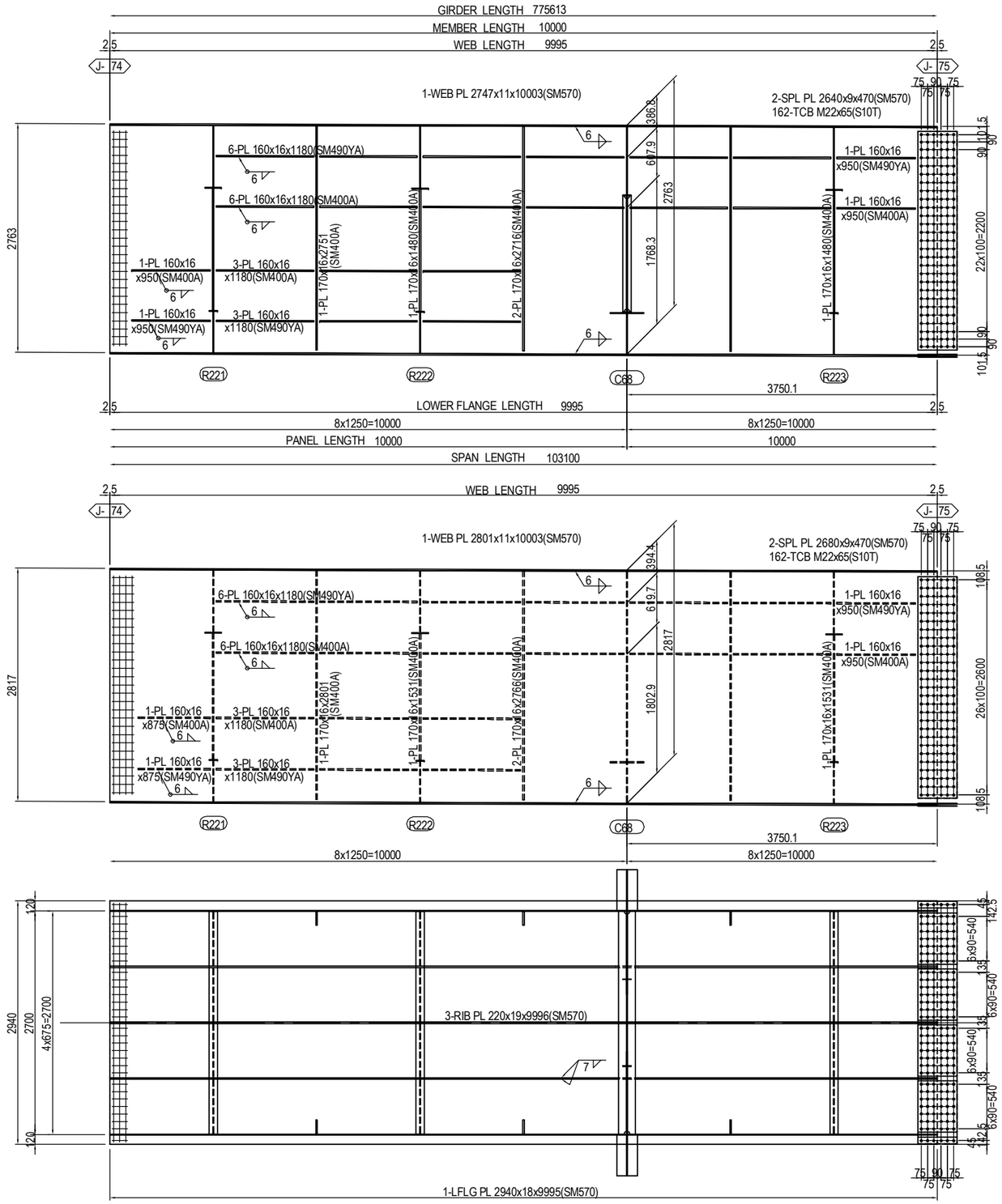


MARKING DIAGRAM

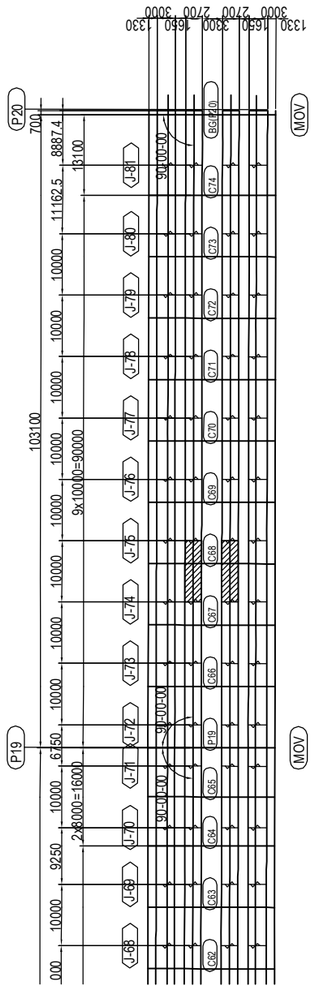


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (74)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1274

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (75) S=1:60



MARKING DIAGRAM

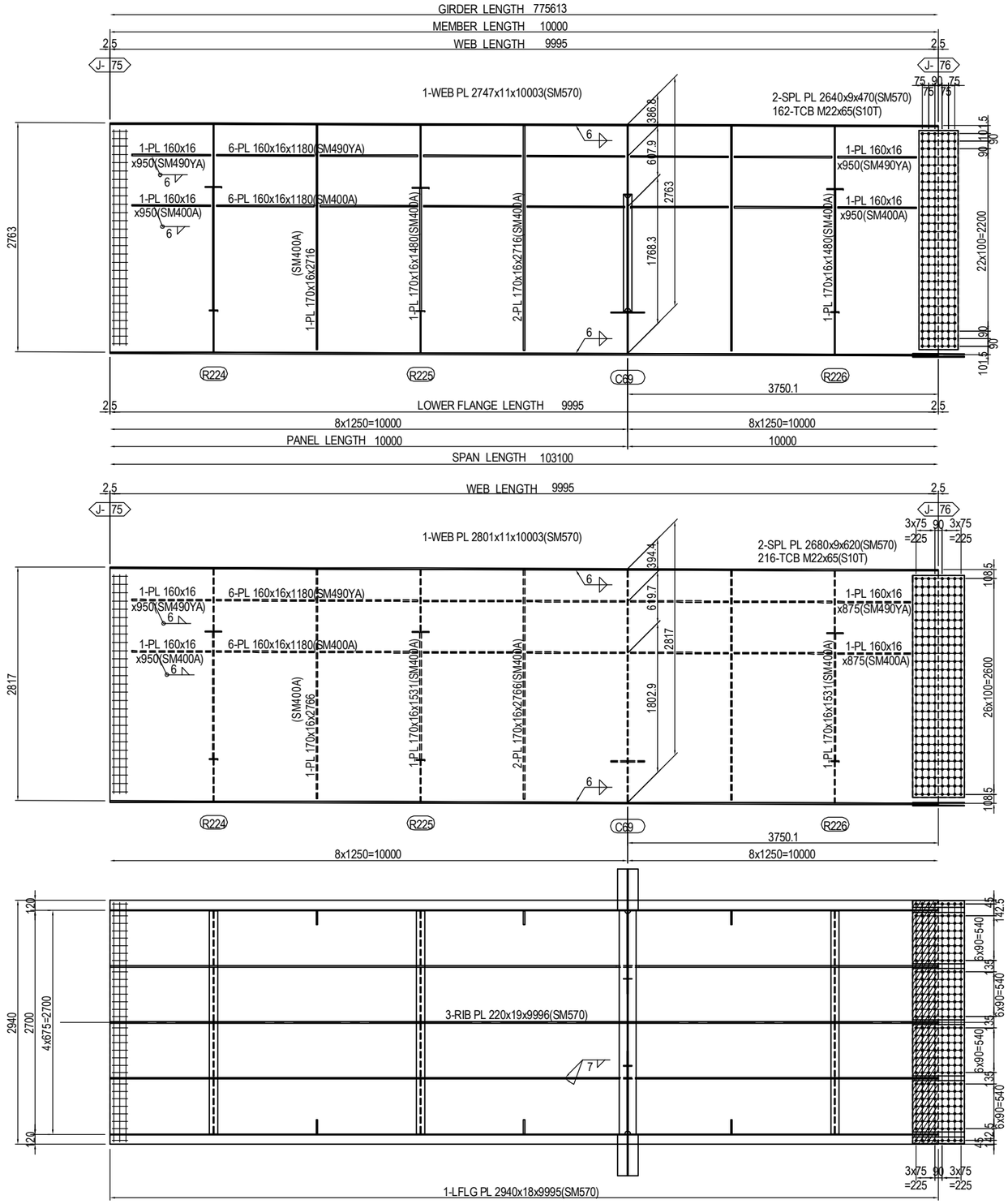


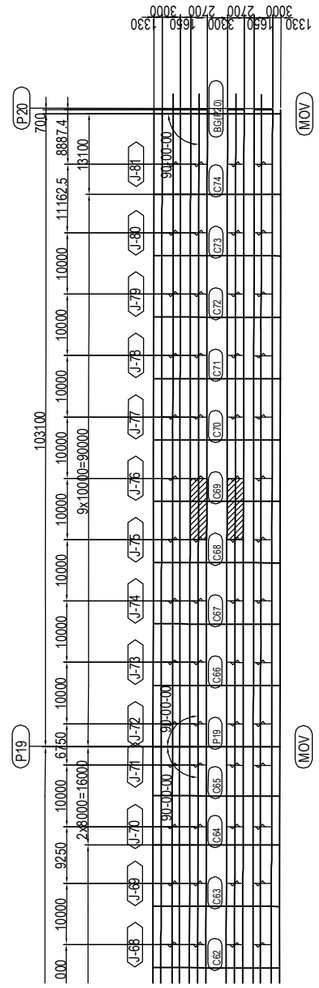
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (75)	2
	DWG No.
	P2-SB-1275

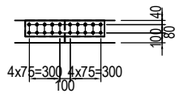
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (76) S=1:60





MARKING DIAGRAM

2-SPL PL 80x11x620(SM570)
4-SPL PL 620x11x620(SM570)
1-SPL PL 2930x9x620(SM570)
240-TCB M22x80(S10T)
1-FILL PL 2930x4.5x308(SS400)



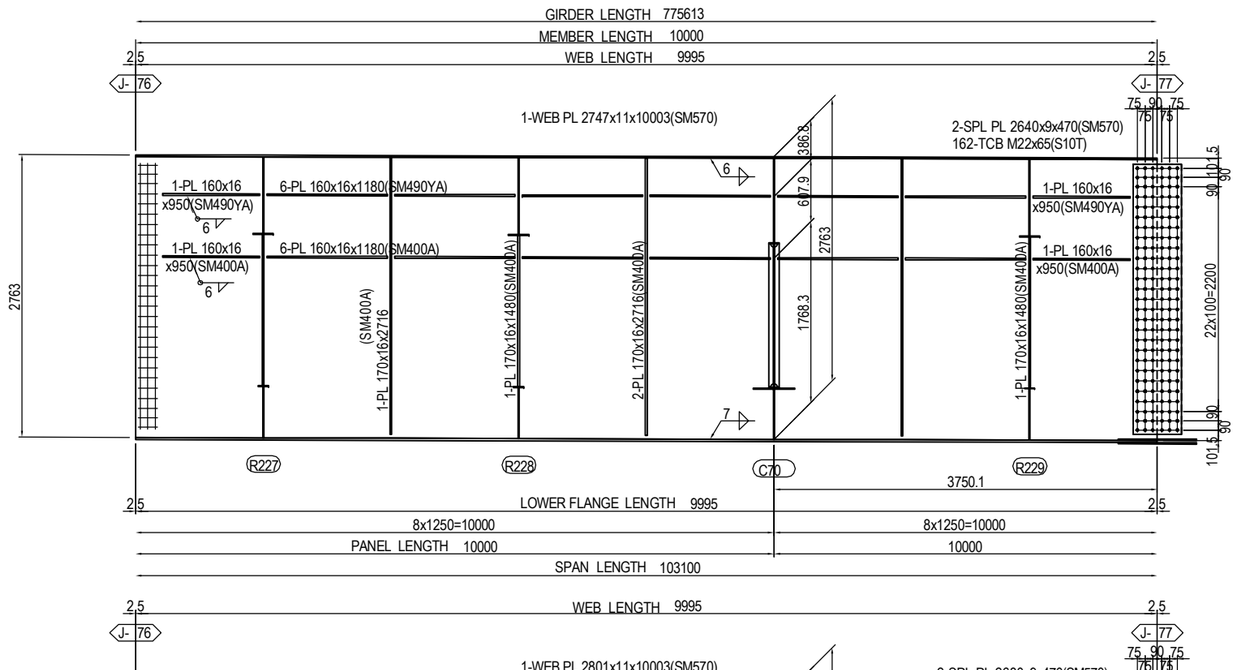
(RIB PLATE per set)
2-SPL PL 160x15x780(SM570)
20-TCB M22x85(S10T)

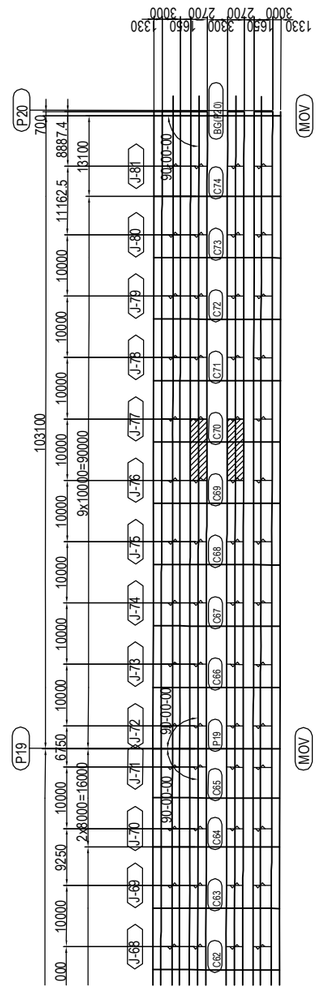
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (76)	2
	DWG No.
	P2-SB-1276

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (77) S=1:60



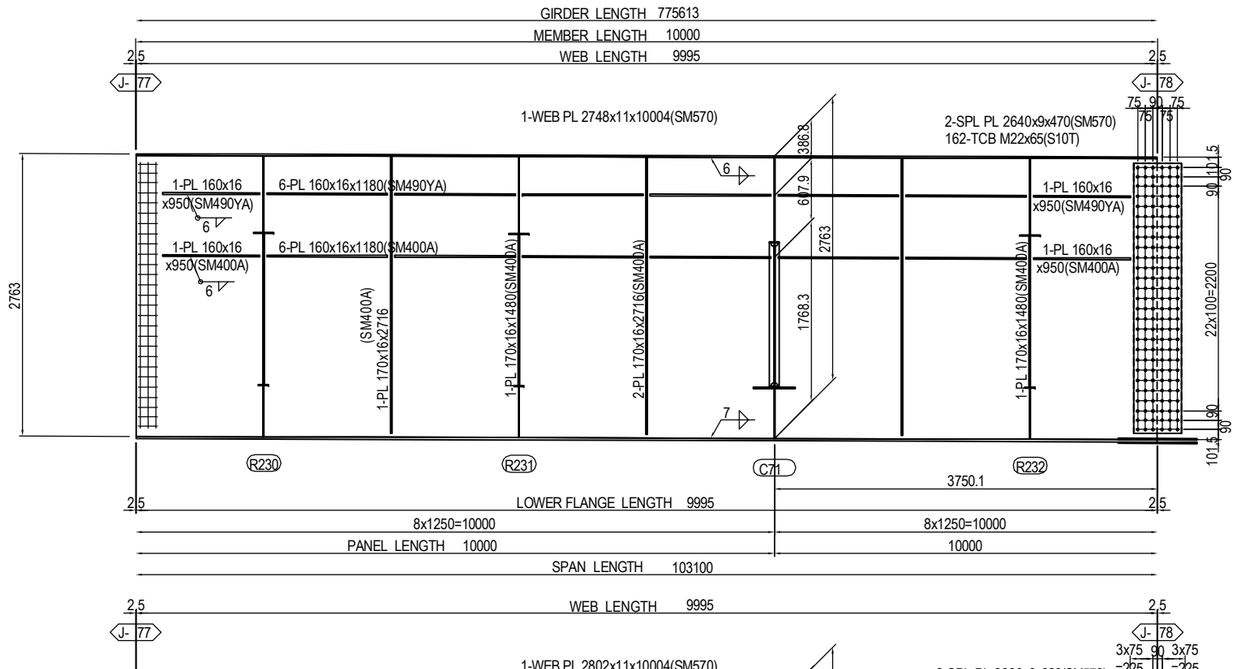


2-SPL PL 80x13x770(SM570)
4-SPL PL 620x13x770(SM570)
1-SPL PL 2930x12x770(SM570)
300-TCB M22x85(S10T)

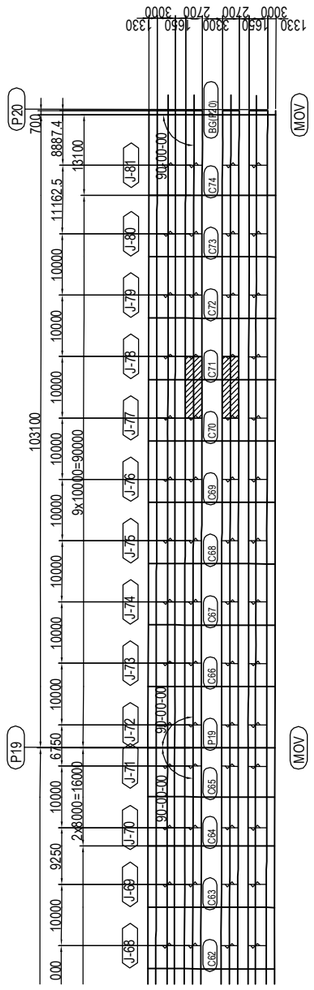
(RIB PLATE per set)
2-SPL PL 160x15x780(SM570)
20-TCB M22x85(S10T)

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (77)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1277

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (78) S=1:60



MARKING DIAGRAM

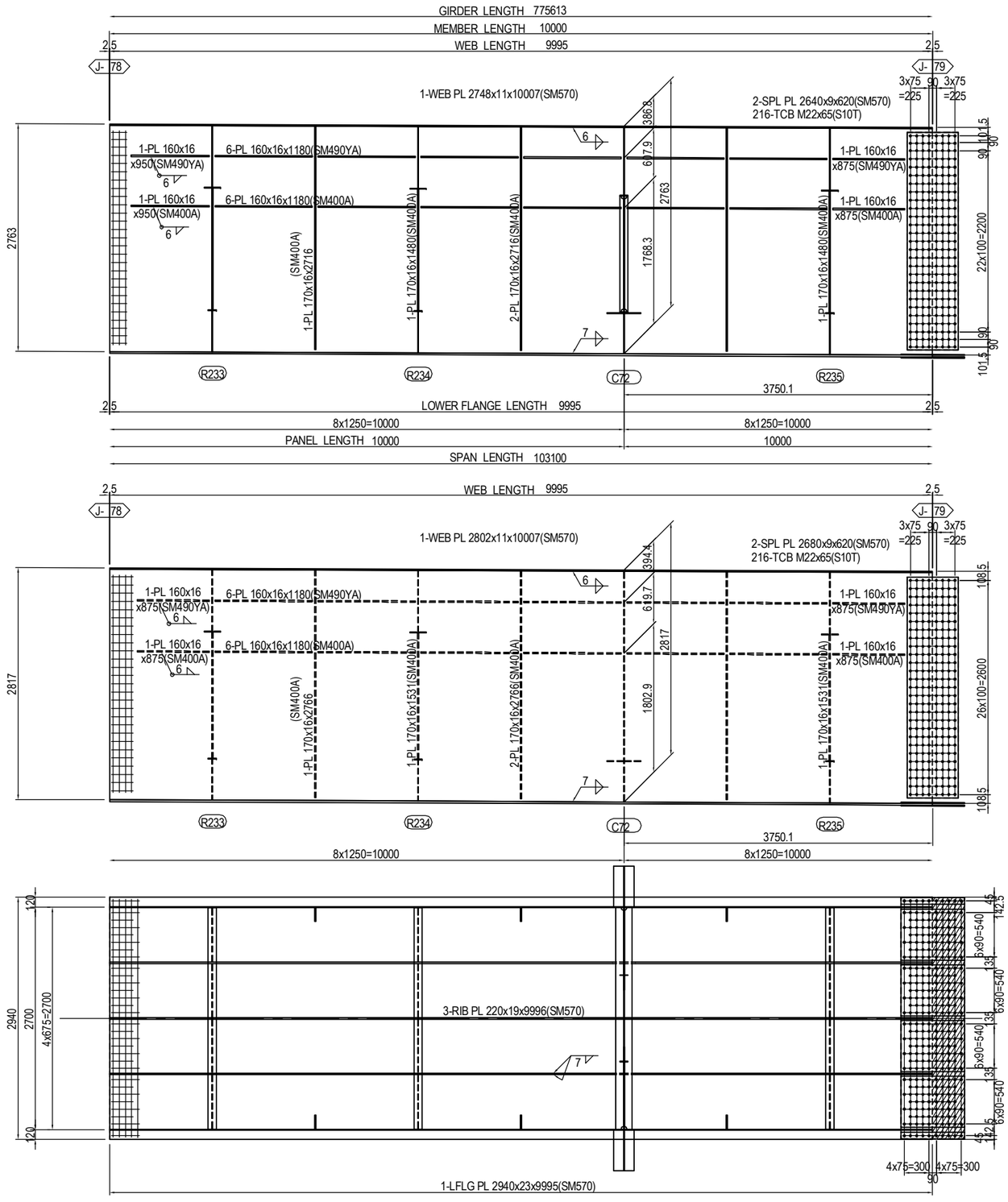


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

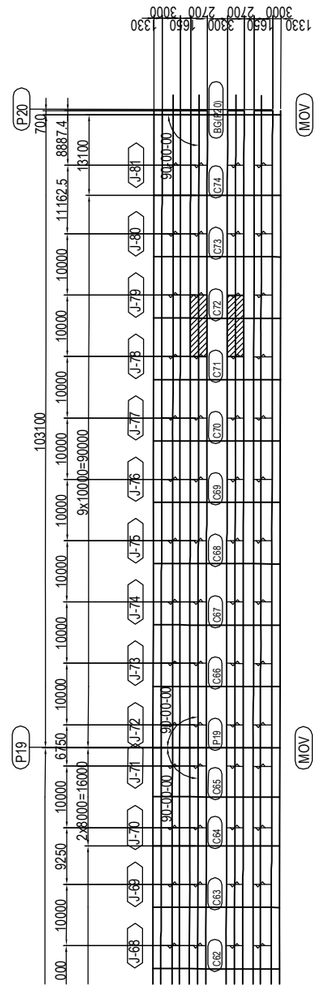
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (78)	2
	DWG No.
	P2-SB-1278

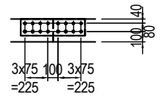
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (79) S=1:60



MARKING DIAGRAM



2-SPL PL 80x12x770(SM570)
4-SPL PL 620x12x770(SM570)
1-SPL PL 2930x11x770(SM570)
276-TCB M22x85(S10T)
1-FILL PL 2930x3.2x383(SS400)



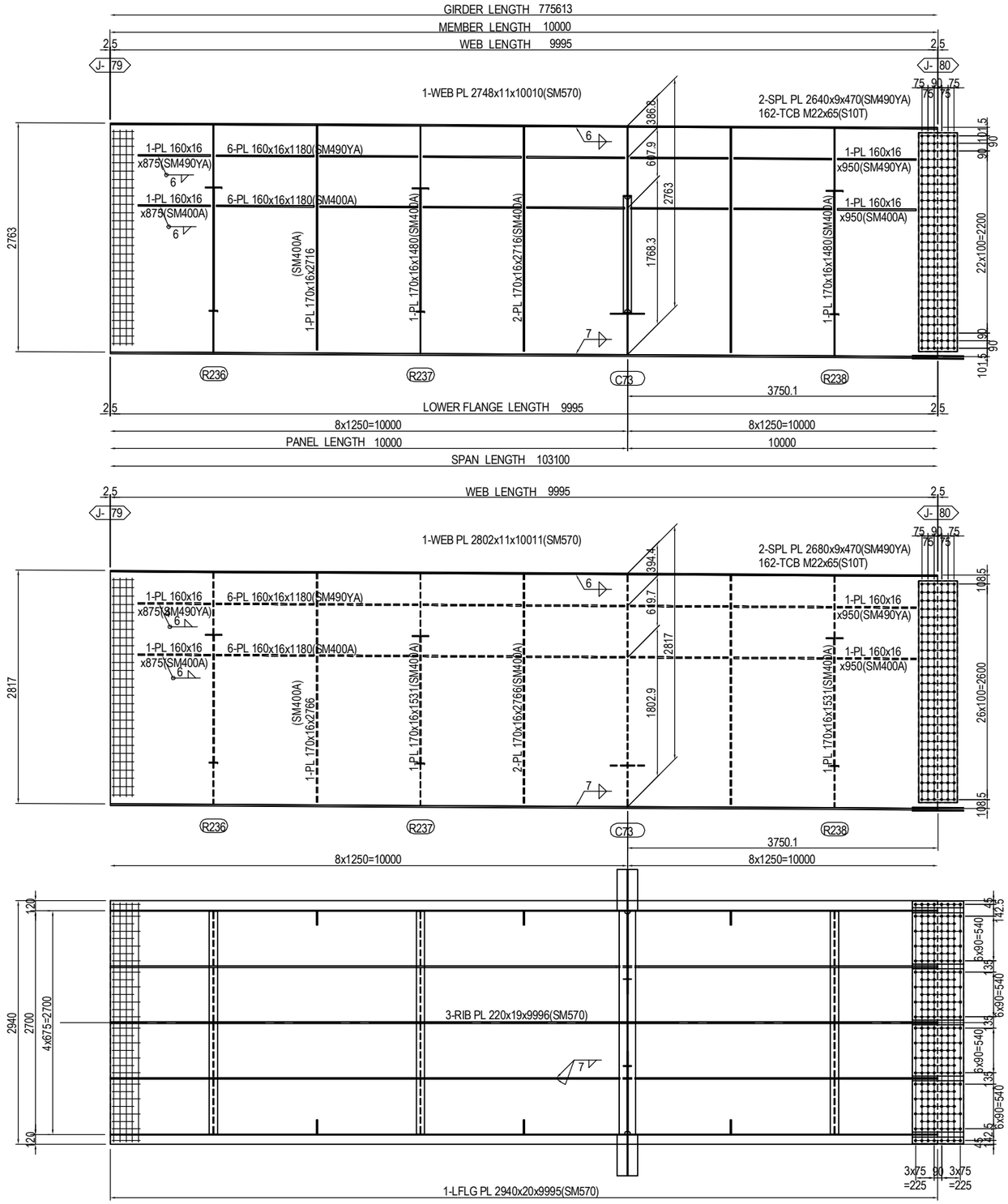
(RIB PLATE per set)
2-SPL PL 160x14x630(SM570)
16-TCB M22x85(S10T)

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

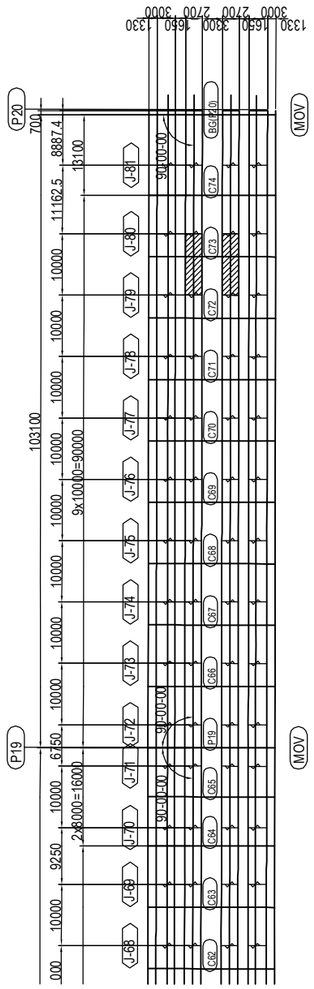
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (79)	2
	DWG No.
	P2-SB-1279

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (80) S=1:60



MARKING DIAGRAM

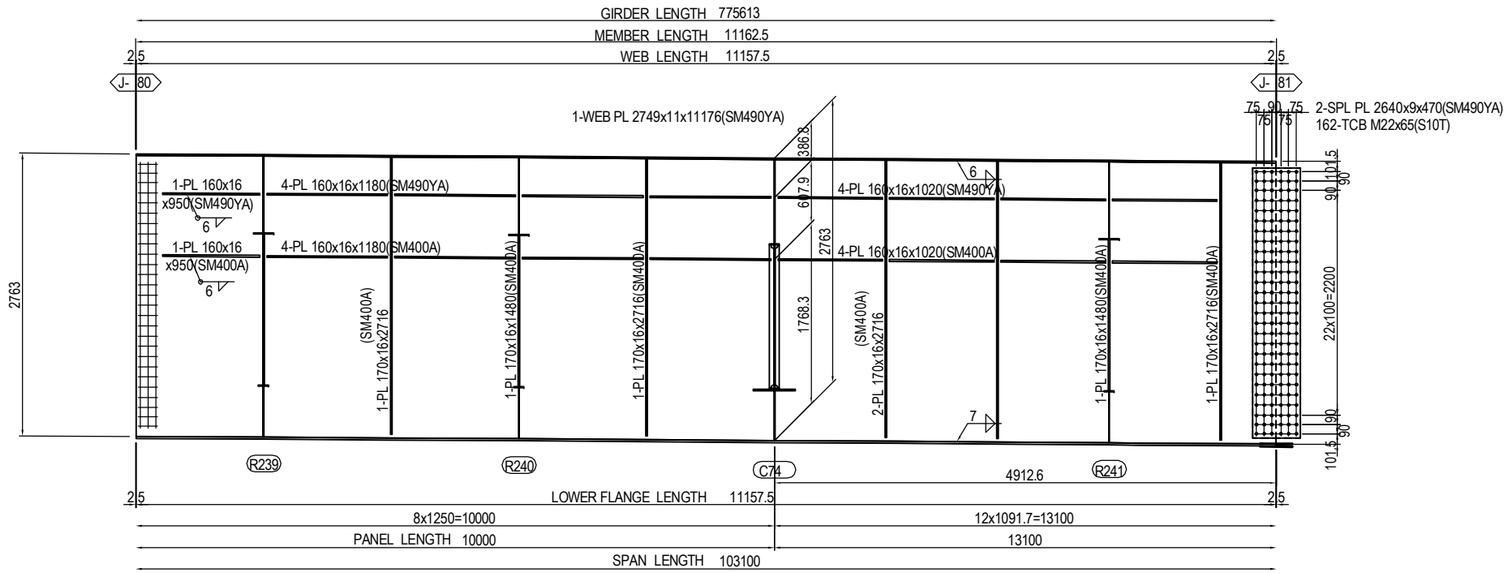


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

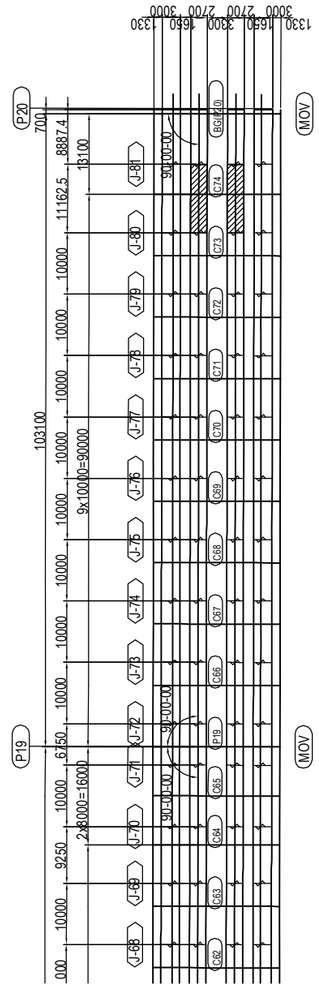
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (80)	2
	DWG No.
	P2-SB-1280

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (81) S=1:60



MARKING DIAGRAM

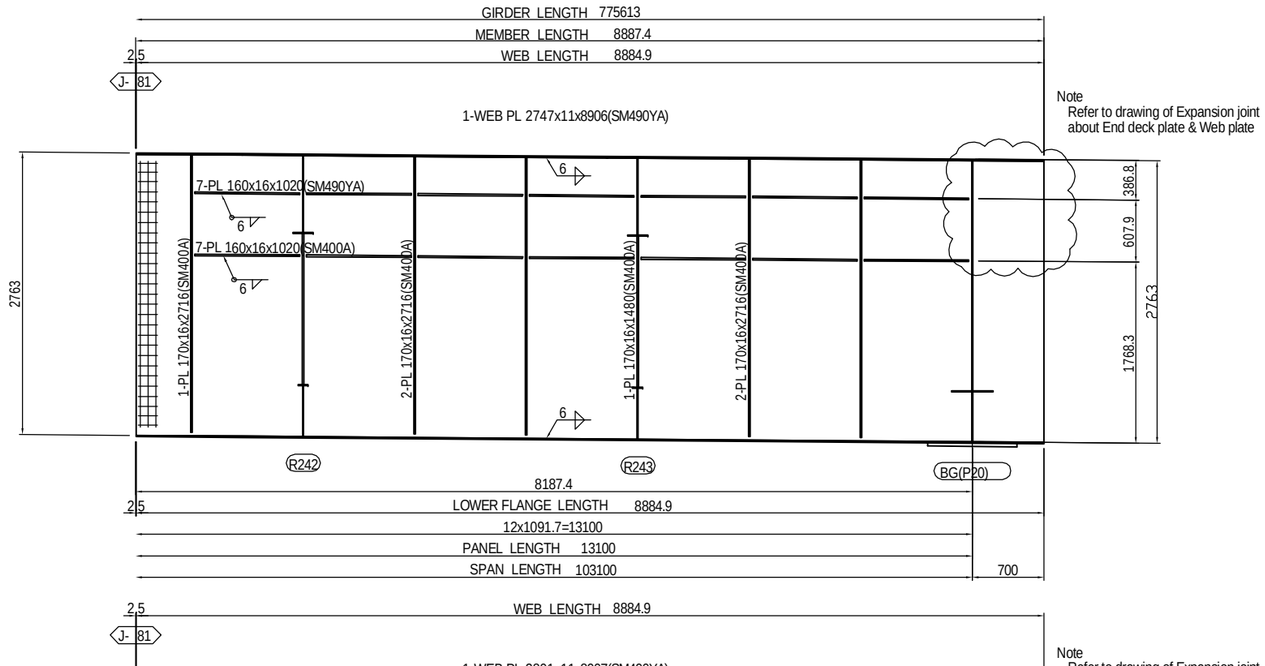


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

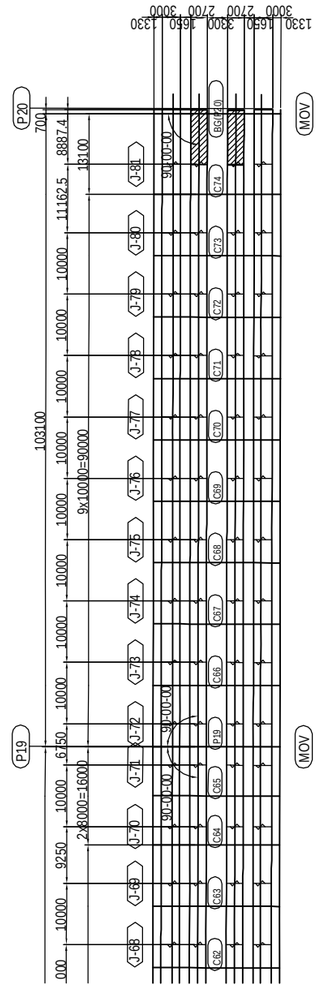
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (81)	2
	DWG No.
	P2-SB-1281

DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (82) S=1:60



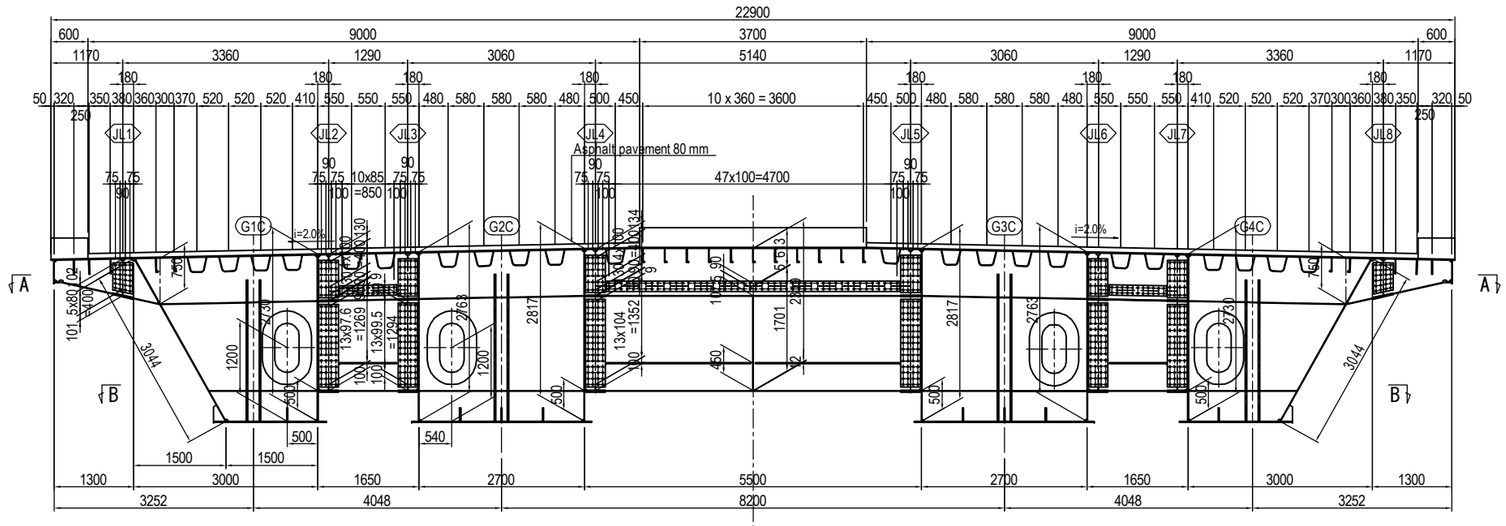
MARKING DIAGRAM



PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MAIN GIRDER G2,G3 (P13-P20) (82)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1282

DETAIL OF END DIAPHRAGM AND CROSS GIRDER (1) (P13) S=1:100



1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 594 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

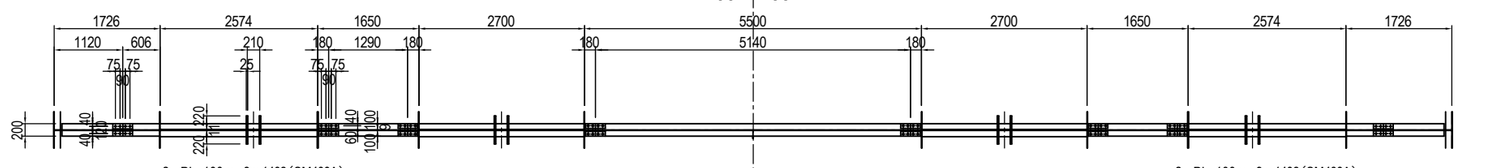
1 - DIA PL 2714 x 11 x 2980 (SM400A)
4 - VSTIFF PL 220 x 25 x 2300 (SM400A)

1 - WEB PL 2218 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1643 x 9 x 1285 (SM400A)
1 - WEB PL 2243 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1349 (SS400)
2 - SPL PL 320 x 9 x 1374 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2801 x 11 x 2690 (SM400A)
4 - VSTIFF PL 220 x 25 x 2400 (SM400A)

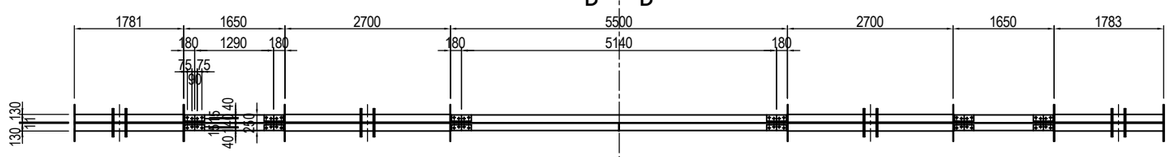
1 - WEB PL 2305 x 9 x 172 (SM400A)
1 - WEB PL 613 x 9 x 5135 (SM400A)
1 - WEB PL 1701 x 9 x 5135 (SM400A)
1 - WEB PL 2305 x 9 x 172 (SM400A)
2 - HSTIFF PL 140 x 11 x 2350 (SM400A)
1 - VSTIFF PL 130 x 11 x 1542 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
4 - SPL PL 320 x 9 x 1432 (SS400)
2 - SPL PL 170 x 9 x 4780 (SS400)
256 - TCB M22 x 65 (S10T)

A – A



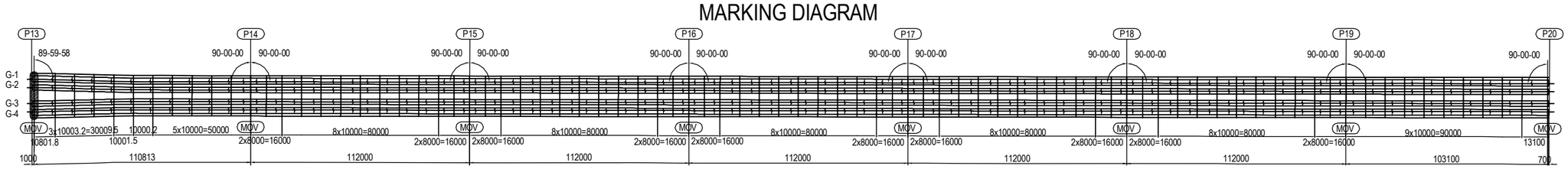
2 - PL 100 x 9 x 1403 (SM400A)
2 - PL 100 x 9 x 185 (SM400A)
2 - PL 100 x 9 x 926 (SM400A)
4 - PL 100 x 9 x 1228 (SM400A)
2 - PL 100 x 9 x 185 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)
2 - PL 100 x 9 x 172 (SM400A)
2 - PL 100 x 9 x 5135 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)
4 - PL 100 x 9 x 1228 (SM400A)
2 - PL 100 x 9 x 185 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)
2 - PL 100 x 9 x 1403 (SM400A)
2 - PL 100 x 9 x 185 (SM400A)
2 - PL 100 x 9 x 926 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

B – B



2 - PL 130 x 12 x 609 (SM400A)
2 - PL 130 x 12 x 185 (SM400A)
2 - PL 130 x 12 x 926 (SM400A)
4 - PL 130 x 12 x 1228 (SM400A)
2 - PL 130 x 12 x 185 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)
1 - FLG PL 250 x 12 x 172 (SM400A)
1 - FLG PL 250 x 12 x 5135 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)
4 - PL 130 x 12 x 1228 (SM400A)
2 - PL 130 x 12 x 185 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)
2 - PL 130 x 12 x 609 (SM400A)
2 - PL 130 x 12 x 185 (SM400A)
2 - PL 130 x 12 x 926 (SM400A)

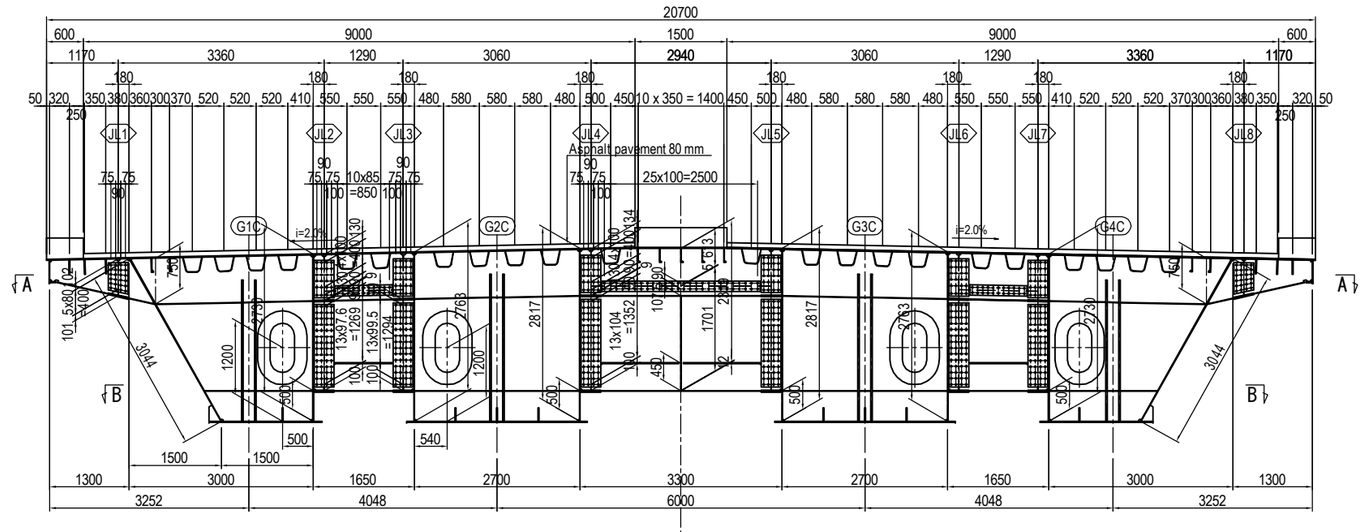
MARKING DIAGRAM



PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF END DIAPHRAGM AND CROSS GIRDER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1301

DETAIL OF END DIAPHRAGM AND CROSS GIRDER (2) (P20) S=1:100



1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 594 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2714 x 11 x 2980 (SM400A)
4 - VSTIFF PL 230 x 22 x 2300 (SM400A)

1 - WEB PL 2218 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1643 x 9 x 1285 (SM400A)
1 - WEB PL 2243 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1349 (SS400)
2 - SPL PL 320 x 9 x 1374 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2801 x 11 x 2690 (SM400A)
4 - VSTIFF PL 230 x 22 x 2400 (SM400A)

1 - WEB PL 2305 x 9 x 172 (SM400A)
1 - WEB PL 613 x 9 x 2935 (SM400A)
1 - WEB PL 1701 x 9 x 2935 (SM400A)
1 - WEB PL 2305 x 9 x 172 (SM400A)
2 - HSTIFF PL 140 x 11 x 1250 (SM400A)
1 - VSTIFF PL 130 x 11 x 1542 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
4 - SPL PL 320 x 9 x 1432 (SS400)
2 - SPL PL 170 x 9 x 2580 (SS400)
212 - TCB M22 x 65 (S10T)

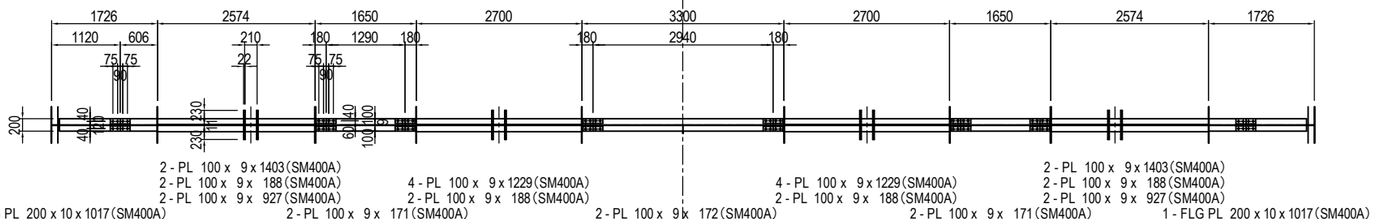
1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 594 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2714 x 11 x 2980 (SM400A)
4 - VSTIFF PL 230 x 22 x 2300 (SM400A)

1 - WEB PL 2218 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1643 x 9 x 1285 (SM400A)
1 - WEB PL 2243 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1349 (SS400)
2 - SPL PL 320 x 9 x 1374 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2801 x 11 x 2690 (SM400A)
4 - VSTIFF PL 230 x 22 x 2400 (SM400A)

A – A



2 - PL 100 x 9 x 1403 (SM400A)
2 - PL 100 x 9 x 188 (SM400A)
2 - PL 100 x 9 x 927 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

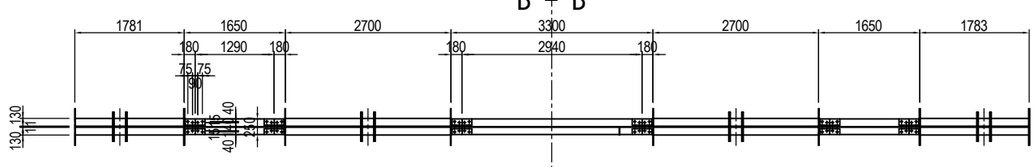
4 - PL 100 x 9 x 1229 (SM400A)
2 - PL 100 x 9 x 188 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 100 x 9 x 1229 (SM400A)
2 - PL 100 x 9 x 188 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
2 - PL 100 x 9 x 2935 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 100 x 9 x 1229 (SM400A)
2 - PL 100 x 9 x 188 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 1403 (SM400A)
2 - PL 100 x 9 x 188 (SM400A)
2 - PL 100 x 9 x 927 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

B – B



2 - PL 130 x 12 x 612 (SM400A)
2 - PL 130 x 12 x 188 (SM400A)
2 - PL 130 x 12 x 927 (SM400A)

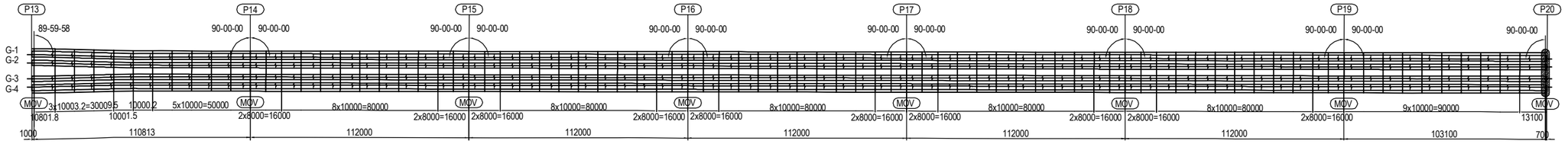
4 - PL 130 x 12 x 1229 (SM400A)
2 - PL 130 x 12 x 188 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 130 x 12 x 1229 (SM400A)
2 - PL 130 x 12 x 188 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
1 - FLG PL 250 x 12 x 2935 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 130 x 12 x 1229 (SM400A)
2 - PL 130 x 12 x 188 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 12 x 612 (SM400A)
2 - PL 130 x 12 x 188 (SM400A)
2 - PL 130 x 12 x 927 (SM400A)

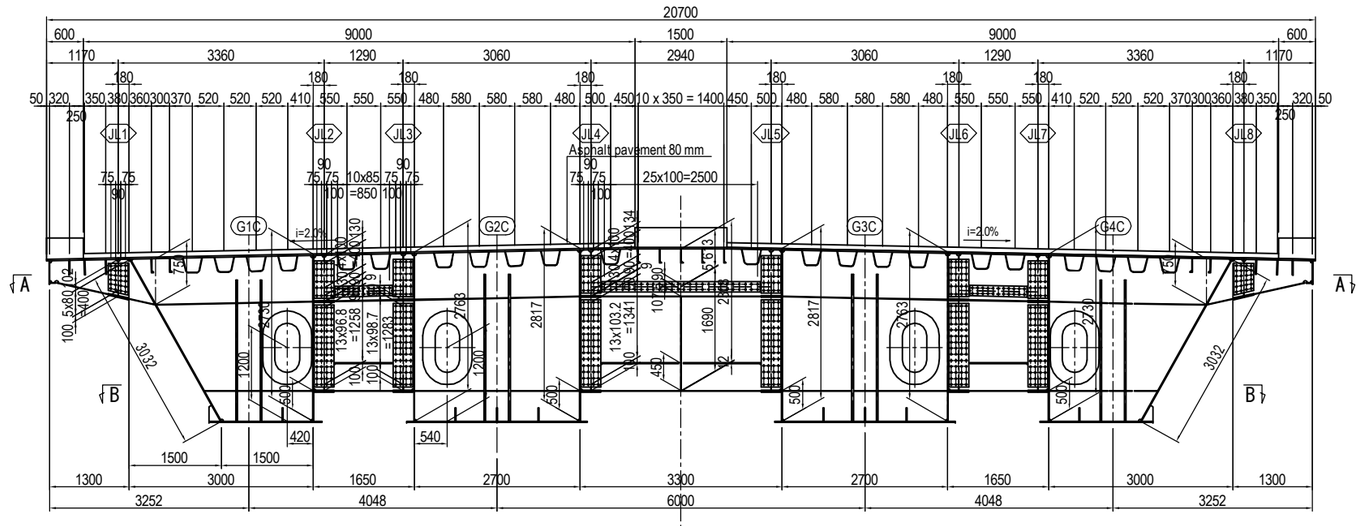
MARKING DIAGRAM



PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF END DIAPHRAGM AND CROSS GIRDER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1302

DETAIL OF MEDIAN SUPPORT DIAPHRAGM AND CROSS GIRDER(1) (P14) S=1:100



1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 597 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2703 x 19 x 2974 (SM490YB)
4 - VSTIFF PL 270 x 30 x 2300 (SM490YB)

1 - WEB PL 2207 x 9 x 169 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1632 x 9 x 1285 (SM400A)
1 - WEB PL 2236 x 9 x 170 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1338 (SS400)
2 - SPL PL 320 x 9 x 1363 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2790 x 19 x 2690 (SM490YB)
4 - VSTIFF PL 270 x 30 x 2400 (SM490YB)

1 - WEB PL 2294 x 9 x 170 (SM400A)
1 - WEB PL 613 x 9 x 2935 (SM400A)
1 - WEB PL 1690 x 9 x 2935 (SM400A)
1 - WEB PL 2294 x 9 x 170 (SM400A)
2 - HSTIFF PL 140 x 11 x 1250 (SM400A)
1 - VSTIFF PL 130 x 11 x 1531 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
4 - SPL PL 320 x 9 x 1421 (SS400)
2 - SPL PL 170 x 9 x 2580 (SS400)
212 - TCB M22 x 65 (S10T)

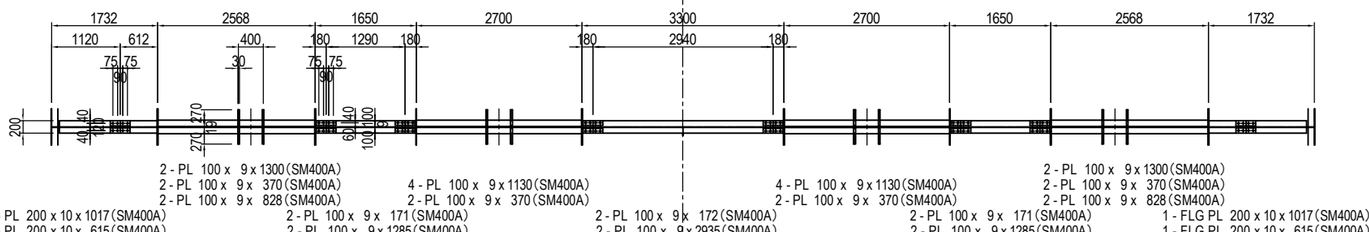
1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 597 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2703 x 19 x 2974 (SM490YB)
4 - VSTIFF PL 270 x 30 x 2300 (SM490YB)

1 - WEB PL 2207 x 9 x 169 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1632 x 9 x 1285 (SM400A)
1 - WEB PL 2236 x 9 x 170 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1338 (SS400)
2 - SPL PL 320 x 9 x 1363 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2790 x 19 x 2690 (SM490YB)
4 - VSTIFF PL 270 x 30 x 2400 (SM490YB)

A – A



2 - PL 100 x 9 x 1300 (SM400A)
2 - PL 100 x 9 x 370 (SM400A)
2 - PL 100 x 9 x 828 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

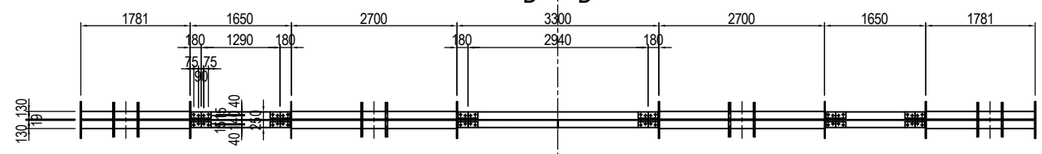
4 - PL 100 x 9 x 1130 (SM400A)
2 - PL 100 x 9 x 370 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 172 (SM400A)
2 - PL 100 x 9 x 2935 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 100 x 9 x 1130 (SM400A)
2 - PL 100 x 9 x 370 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 1300 (SM400A)
2 - PL 100 x 9 x 370 (SM400A)
2 - PL 100 x 9 x 828 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

B – B



2 - PL 130 x 12 x 513 (SM400A)
2 - PL 130 x 12 x 370 (SM400A)
2 - PL 130 x 12 x 828 (SM400A)

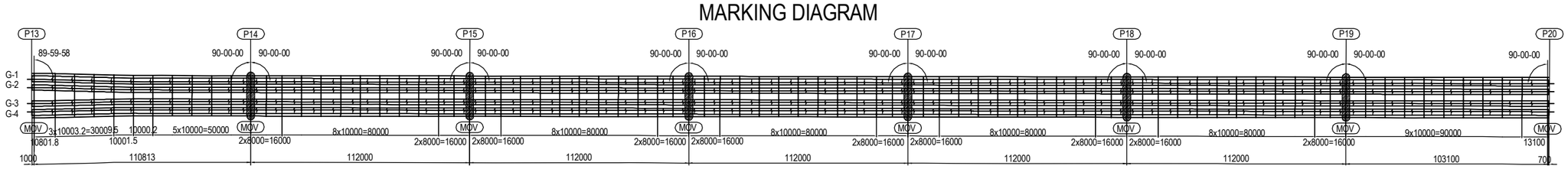
4 - PL 130 x 12 x 1130 (SM400A)
2 - PL 130 x 12 x 370 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

1 - FLG PL 250 x 12 x 172 (SM400A)
1 - FLG PL 250 x 12 x 2935 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 130 x 12 x 1130 (SM400A)
2 - PL 130 x 12 x 370 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

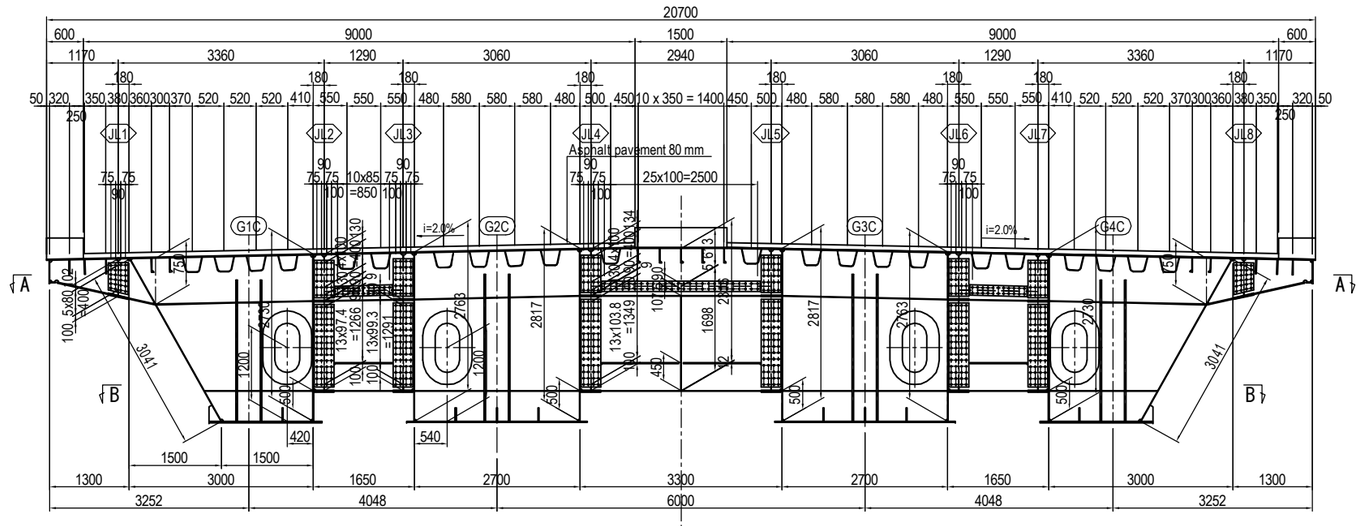
2 - PL 130 x 12 x 513 (SM400A)
2 - PL 130 x 12 x 370 (SM400A)
2 - PL 130 x 12 x 828 (SM400A)

MARKING DIAGRAM



PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MEDIAN SUPPORT DIAPHRAGM AND CROSS GIRDER (1)	2
				CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1311

DETAIL OF MEDIAN SUPPORT DIAPHRAGM AND CROSS GIRDER(2) (P15) S=1:100



1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 597 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2711 x 19 x 2979 (SM490YB)
4 - VSTIFF PL 240 x 27 x 2300 (SM490YB)

1 - WEB PL 2215 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1632 x 9 x 1285 (SM400A)
1 - WEB PL 2236 x 9 x 170 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1340 (SS400)
2 - SPL PL 320 x 9 x 1371 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2798 x 19 x 2690 (SM490YB)
4 - VSTIFF PL 240 x 27 x 2400 (SM490YB)

1 - WEB PL 2302 x 9 x 172 (SM400A)
1 - WEB PL 613 x 9 x 2935 (SM400A)
1 - WEB PL 1698 x 9 x 2935 (SM400A)
1 - WEB PL 2302 x 9 x 172 (SM400A)
2 - HSTIFF PL 140 x 11 x 1250 (SM400A)
1 - VSTIFF PL 130 x 11 x 1539 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
4 - SPL PL 320 x 9 x 1429 (SS400)
2 - SPL PL 170 x 9 x 2580 (SS400)
212 - TCB M22 x 65 (S10T)

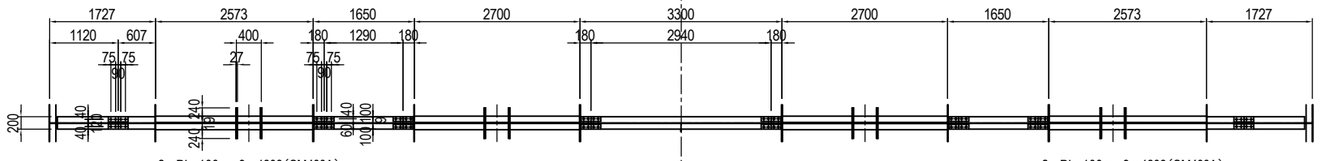
1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 597 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2711 x 19 x 2979 (SM490YB)
4 - VSTIFF PL 240 x 27 x 2300 (SM490YB)

1 - WEB PL 2215 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1632 x 9 x 1285 (SM400A)
1 - WEB PL 2236 x 9 x 170 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1340 (SS400)
2 - SPL PL 320 x 9 x 1371 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2798 x 19 x 2690 (SM490YB)
4 - VSTIFF PL 240 x 27 x 2400 (SM490YB)

A – A



2 - PL 100 x 9 x 1306 (SM400A)
2 - PL 100 x 9 x 373 (SM400A)
2 - PL 100 x 9 x 829 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 617 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

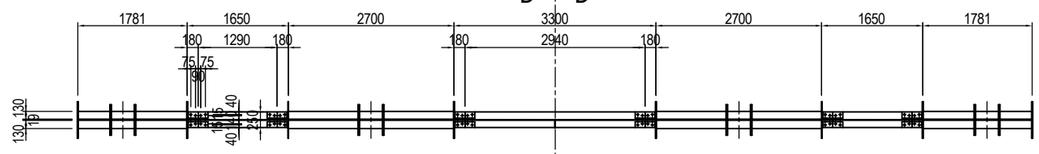
4 - PL 100 x 9 x 1132 (SM400A)
2 - PL 100 x 9 x 373 (SM400A)
2 - PL 100 x 9 x 169 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 170 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 170 (SM400A)
2 - PL 100 x 9 x 2935 (SM400A)
2 - PL 100 x 9 x 170 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 100 x 9 x 1132 (SM400A)
2 - PL 100 x 9 x 373 (SM400A)
2 - PL 100 x 9 x 169 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 170 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 1306 (SM400A)
2 - PL 100 x 9 x 373 (SM400A)
2 - PL 100 x 9 x 829 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 617 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

B – B



2 - PL 130 x 12 x 514 (SM400A)
2 - PL 130 x 12 x 373 (SM400A)
2 - PL 130 x 12 x 829 (SM400A)

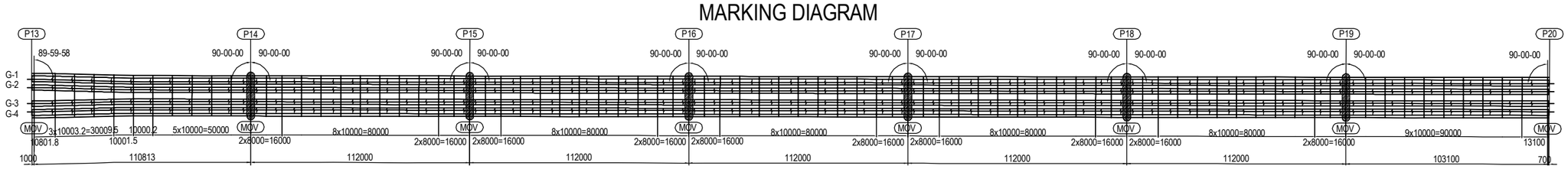
4 - PL 130 x 12 x 1132 (SM400A)
2 - PL 130 x 12 x 373 (SM400A)
1 - FLG PL 250 x 12 x 169 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 170 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

1 - FLG PL 250 x 12 x 170 (SM400A)
1 - FLG PL 250 x 12 x 2935 (SM400A)
1 - FLG PL 250 x 12 x 170 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 130 x 12 x 1132 (SM400A)
2 - PL 130 x 12 x 373 (SM400A)
1 - FLG PL 250 x 12 x 169 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 170 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 12 x 514 (SM400A)
2 - PL 130 x 12 x 373 (SM400A)
2 - PL 130 x 12 x 829 (SM400A)

MARKING DIAGRAM

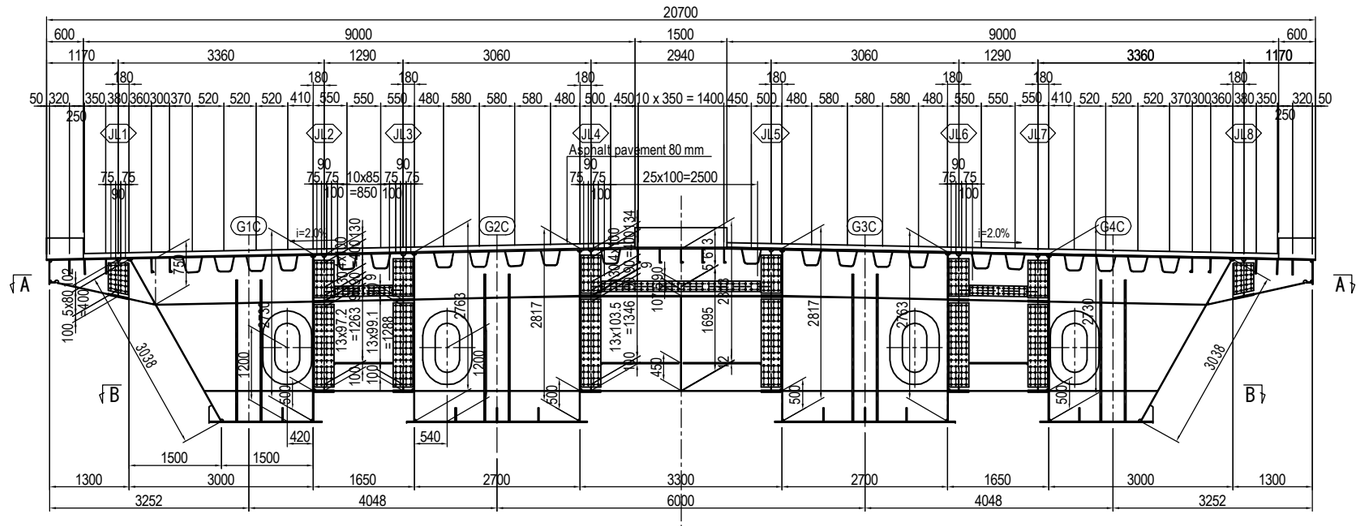


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	DRAWING TITLE: DETAIL OF MEDIAN SUPPORT DIAPHRAGM AND CROSS GIRDER (2)	PACKAGE: 2

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DWG No. P2-SB-1312

DETAIL OF MEDIAN SUPPORT DIAPHRAGM AND CROSS GIRDER(3) (P16) S=1:100



1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 597 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2708 x 19 x 2977 (SM490YB)
4 - VSTIFF PL 240 x 27 x 2300 (SM490YB)

1 - WEB PL 2212 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1637 x 9 x 1285 (SM400A)
1 - WEB PL 2241 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1343 (SS400)
2 - SPL PL 320 x 9 x 1368 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2795 x 19 x 2690 (SM490YB)
4 - VSTIFF PL 240 x 27 x 2400 (SM490YB)

1 - WEB PL 2299 x 9 x 172 (SM400A)
1 - WEB PL 613 x 9 x 2935 (SM400A)
1 - WEB PL 1695 x 9 x 2935 (SM400A)
1 - WEB PL 2299 x 9 x 172 (SM400A)
2 - HSTIFF PL 140 x 11 x 1250 (SM400A)
1 - VSTIFF PL 130 x 11 x 1536 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
4 - SPL PL 320 x 9 x 1426 (SS400)
2 - SPL PL 170 x 9 x 2580 (SS400)
212 - TCB M22 x 65 (S10T)

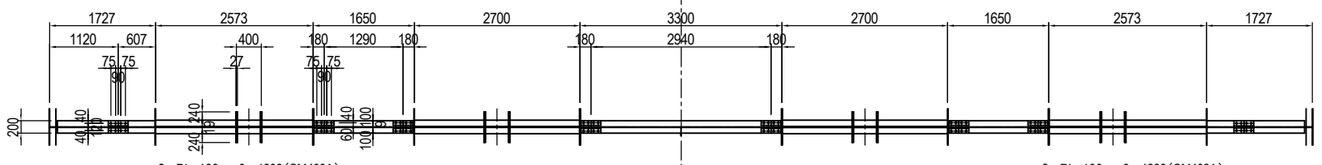
1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 597 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2708 x 19 x 2977 (SM490YB)
4 - VSTIFF PL 240 x 27 x 2300 (SM490YB)

1 - WEB PL 2212 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1637 x 9 x 1285 (SM400A)
1 - WEB PL 2241 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1343 (SS400)
2 - SPL PL 320 x 9 x 1368 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2795 x 19 x 2690 (SM490YB)
4 - VSTIFF PL 240 x 27 x 2400 (SM490YB)

A – A



2 - PL 100 x 9 x 1306 (SM400A)
2 - PL 100 x 9 x 373 (SM400A)
2 - PL 100 x 9 x 829 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 617 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

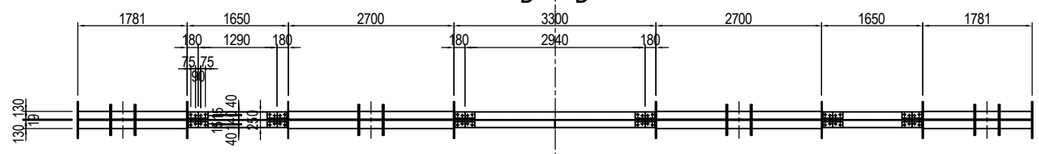
4 - PL 100 x 9 x 1132 (SM400A)
2 - PL 100 x 9 x 373 (SM400A)
2 - PL 100 x 9 x 169 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 170 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 170 (SM400A)
2 - PL 100 x 9 x 2935 (SM400A)
2 - PL 100 x 9 x 170 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 100 x 9 x 1132 (SM400A)
2 - PL 100 x 9 x 373 (SM400A)
2 - PL 100 x 9 x 169 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 170 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 1306 (SM400A)
2 - PL 100 x 9 x 373 (SM400A)
2 - PL 100 x 9 x 829 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 617 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

B – B



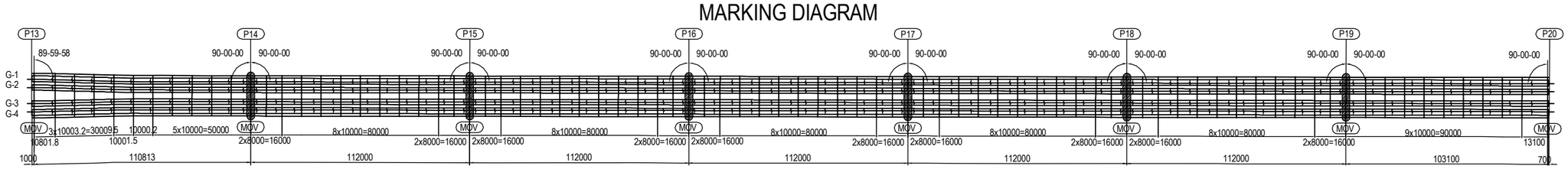
2 - PL 130 x 12 x 514 (SM400A)
2 - PL 130 x 12 x 373 (SM400A)
2 - PL 130 x 12 x 829 (SM400A)
1 - FLG PL 250 x 12 x 169 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 170 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 130 x 12 x 1132 (SM400A)
2 - PL 130 x 12 x 373 (SM400A)
1 - FLG PL 250 x 12 x 170 (SM400A)
1 - FLG PL 250 x 12 x 2935 (SM400A)
1 - FLG PL 250 x 12 x 170 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 130 x 12 x 1132 (SM400A)
2 - PL 130 x 12 x 373 (SM400A)
1 - FLG PL 250 x 12 x 169 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 170 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 12 x 514 (SM400A)
2 - PL 130 x 12 x 373 (SM400A)
2 - PL 130 x 12 x 829 (SM400A)

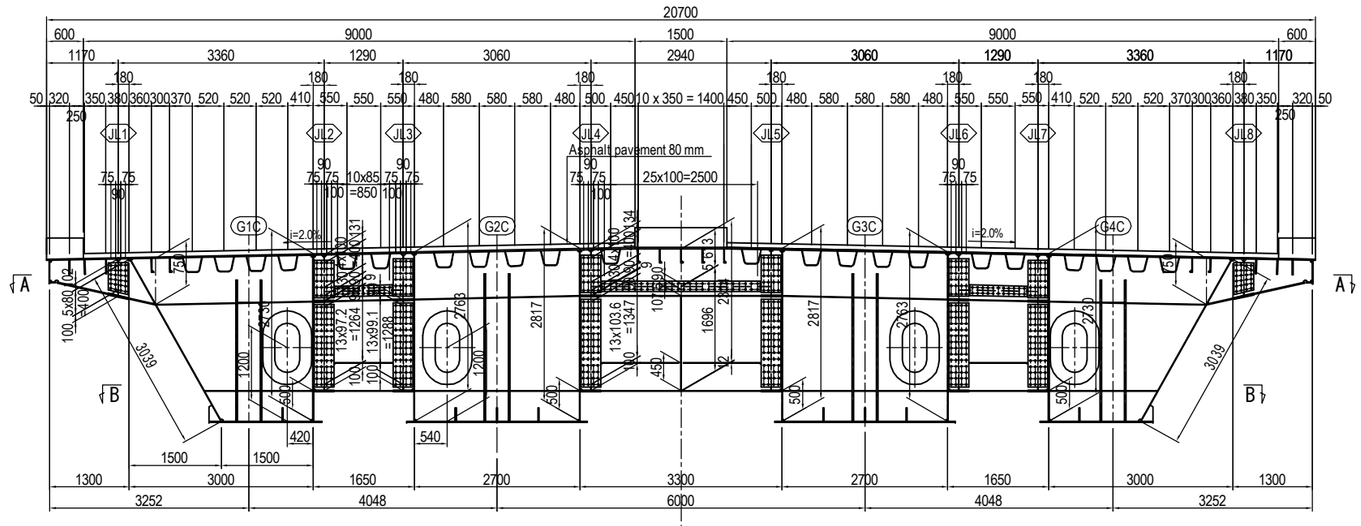
MARKING DIAGRAM



PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MEDIAN SUPPORT DIAPHRAGM AND CROSS GIRDER (3)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1313

DETAIL OF MEDIAN SUPPORT DIAPHRAGM AND CROSS GIRDER(4) (P17) S=1:100



1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 597 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2709 x 19 x 2978 (SM490YB)
4 - VSTIFF PL 240 x 27 x 2300 (SM490YB)

1 - WEB PL 2213 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1638 x 9 x 1285 (SM400A)
1 - WEB PL 2242 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1343 (SS400)
2 - SPL PL 320 x 9 x 1368 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2796 x 19 x 2690 (SM490YB)
4 - VSTIFF PL 240 x 27 x 2400 (SM490YB)

1 - WEB PL 2300 x 9 x 172 (SM400A)
1 - WEB PL 613 x 9 x 2935 (SM400A)
1 - WEB PL 1696 x 9 x 2935 (SM400A)
1 - WEB PL 2300 x 9 x 172 (SM400A)
2 - HSTIFF PL 140 x 11 x 1250 (SM400A)
1 - VSTIFF PL 130 x 11 x 1537 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
4 - SPL PL 320 x 9 x 1427 (SS400)
2 - SPL PL 170 x 9 x 2580 (SS400)
212 - TCB M22 x 65 (S10T)

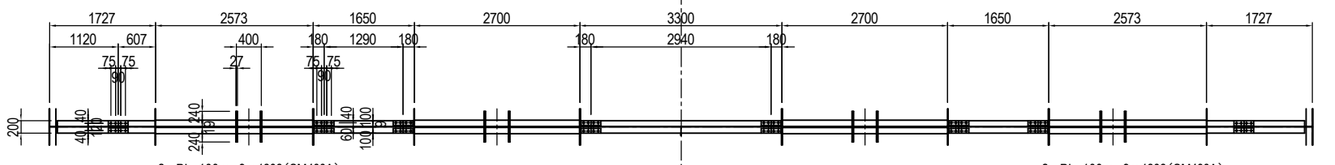
1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 597 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2709 x 19 x 2978 (SM490YB)
4 - VSTIFF PL 240 x 27 x 2300 (SM490YB)

1 - WEB PL 2213 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1638 x 9 x 1285 (SM400A)
1 - WEB PL 2242 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1343 (SS400)
2 - SPL PL 320 x 9 x 1368 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2796 x 19 x 2690 (SM490YB)
4 - VSTIFF PL 240 x 27 x 2400 (SM490YB)

A – A



2 - PL 100 x 9 x 1306 (SM400A)
2 - PL 100 x 9 x 373 (SM400A)
2 - PL 100 x 9 x 829 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 618 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

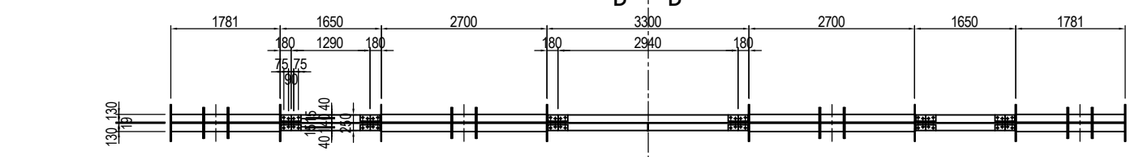
4 - PL 100 x 9 x 1132 (SM400A)
2 - PL 100 x 9 x 373 (SM400A)
2 - PL 100 x 9 x 169 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 170 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 170 (SM400A)
2 - PL 100 x 9 x 2935 (SM400A)
2 - PL 100 x 9 x 170 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 100 x 9 x 1132 (SM400A)
2 - PL 100 x 9 x 373 (SM400A)
2 - PL 100 x 9 x 169 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 170 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 1306 (SM400A)
2 - PL 100 x 9 x 373 (SM400A)
2 - PL 100 x 9 x 829 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 618 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

B – B



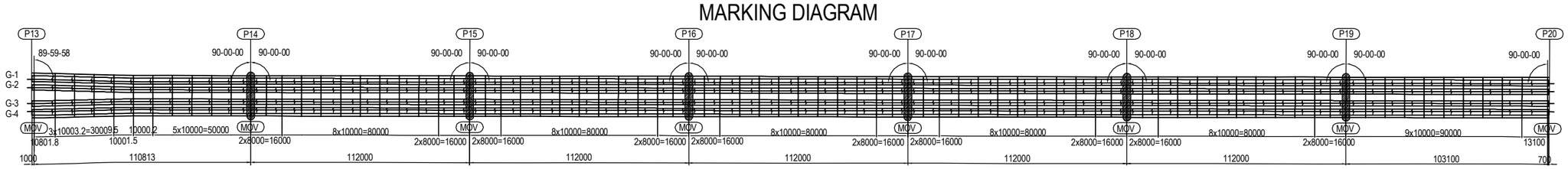
2 - PL 130 x 12 x 514 (SM400A)
2 - PL 130 x 12 x 373 (SM400A)
2 - PL 130 x 12 x 829 (SM400A)
1 - FLG PL 250 x 12 x 169 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 170 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 130 x 12 x 1132 (SM400A)
2 - PL 130 x 12 x 373 (SM400A)
1 - FLG PL 250 x 12 x 170 (SM400A)
1 - FLG PL 250 x 12 x 2935 (SM400A)
1 - FLG PL 250 x 12 x 170 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 130 x 12 x 1132 (SM400A)
2 - PL 130 x 12 x 373 (SM400A)
1 - FLG PL 250 x 12 x 169 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 170 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 12 x 514 (SM400A)
2 - PL 130 x 12 x 373 (SM400A)
2 - PL 130 x 12 x 829 (SM400A)

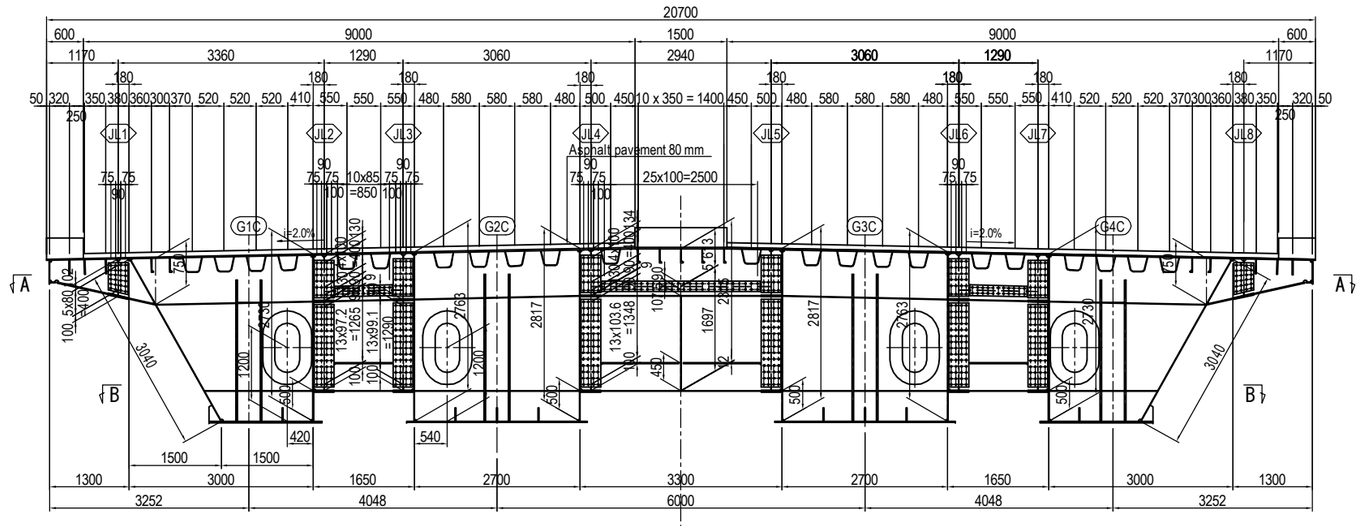
MARKING DIAGRAM



PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	DRAWING TITLE: DETAIL OF MEDIAN SUPPORT DIAPHRAGM AND CROSS GIRDER (4)	PACKAGE: 2 / DWG No.: P2-SB-1314

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DETAIL OF MEDIAN SUPPORT DIAPHRAGM AND CROSS GIRDER(5) (P18) S=1:100



1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 597 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2710 x 19 x 2978 (SM490YB)
4 - VSTIFF PL 240 x 27 x 2300 (SM490YB)

1 - WEB PL 2214 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1639 x 9 x 1285 (SM400A)
1 - WEB PL 2243 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1345 (SS400)
2 - SPL PL 320 x 9 x 1370 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2797 x 19 x 2690 (SM490YB)
4 - VSTIFF PL 240 x 27 x 2400 (SM490YB)

1 - WEB PL 2301 x 9 x 172 (SM400A)
1 - WEB PL 613 x 9 x 2935 (SM400A)
1 - WEB PL 1697 x 9 x 2935 (SM400A)
1 - WEB PL 2301 x 9 x 172 (SM400A)
2 - HSTIFF PL 140 x 11 x 1250 (SM400A)
1 - VSTIFF PL 130 x 11 x 1538 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
4 - SPL PL 320 x 9 x 1428 (SS400)
2 - SPL PL 170 x 9 x 2580 (SS400)
212 - TCB M22 x 65 (S10T)

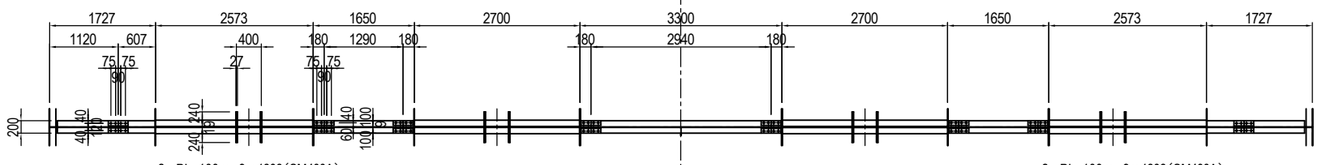
1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 597 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2710 x 19 x 2978 (SM490YB)
4 - VSTIFF PL 240 x 27 x 2300 (SM490YB)

1 - WEB PL 2214 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1639 x 9 x 1285 (SM400A)
1 - WEB PL 2243 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1345 (SS400)
2 - SPL PL 320 x 9 x 1370 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2797 x 19 x 2690 (SM490YB)
4 - VSTIFF PL 240 x 27 x 2400 (SM490YB)

A – A



2 - PL 100 x 9 x 1306 (SM400A)
2 - PL 100 x 9 x 373 (SM400A)
2 - PL 100 x 9 x 829 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 618 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

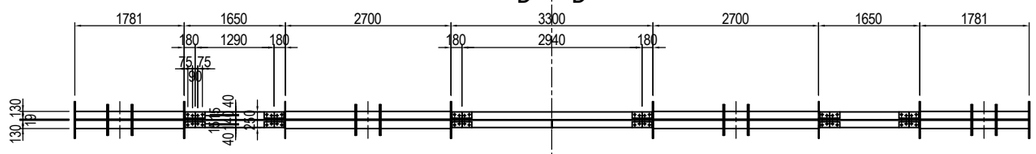
4 - PL 100 x 9 x 1132 (SM400A)
2 - PL 100 x 9 x 373 (SM400A)
2 - PL 100 x 9 x 169 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 170 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 170 (SM400A)
2 - PL 100 x 9 x 2935 (SM400A)
2 - PL 100 x 9 x 170 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 100 x 9 x 1132 (SM400A)
2 - PL 100 x 9 x 373 (SM400A)
2 - PL 100 x 9 x 169 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 170 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 1306 (SM400A)
2 - PL 100 x 9 x 373 (SM400A)
2 - PL 100 x 9 x 829 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 618 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

B – B



2 - PL 130 x 12 x 514 (SM400A)
2 - PL 130 x 12 x 373 (SM400A)
2 - PL 130 x 12 x 829 (SM400A)

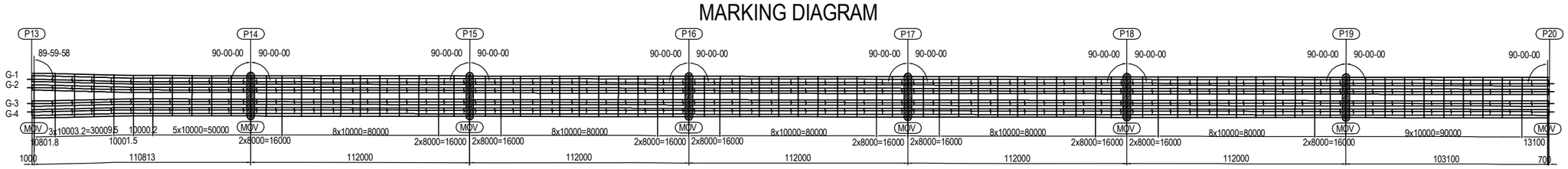
4 - PL 130 x 12 x 1132 (SM400A)
2 - PL 130 x 12 x 373 (SM400A)
1 - FLG PL 250 x 12 x 169 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 170 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

1 - FLG PL 250 x 12 x 170 (SM400A)
1 - FLG PL 250 x 12 x 2935 (SM400A)
1 - FLG PL 250 x 12 x 170 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 130 x 12 x 1132 (SM400A)
2 - PL 130 x 12 x 373 (SM400A)
1 - FLG PL 250 x 12 x 169 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 170 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

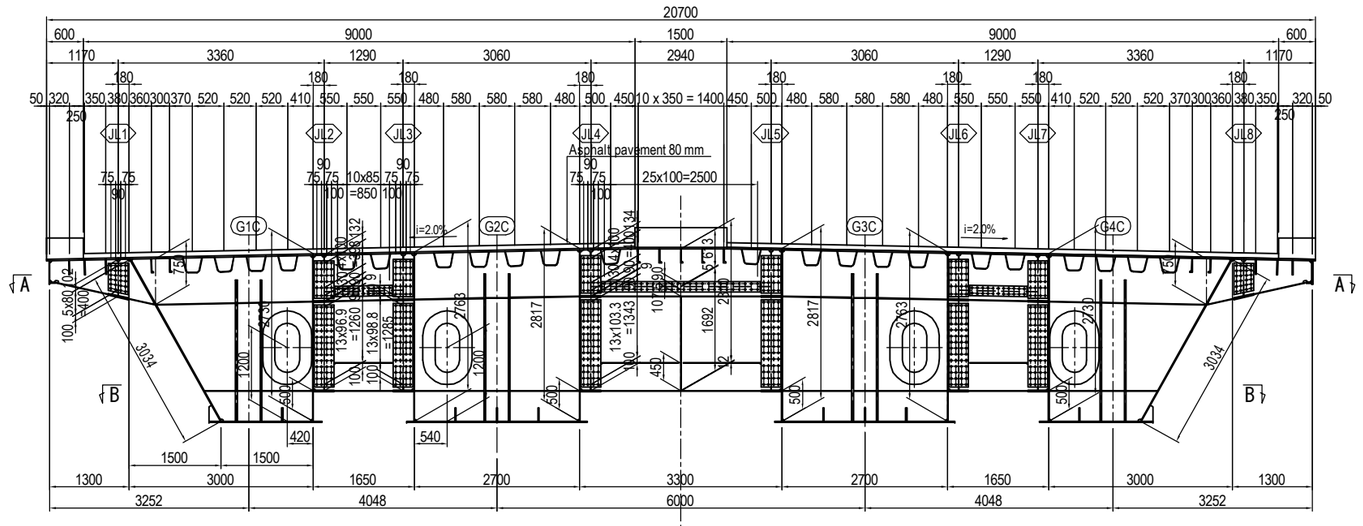
2 - PL 130 x 12 x 514 (SM400A)
2 - PL 130 x 12 x 373 (SM400A)
2 - PL 130 x 12 x 829 (SM400A)

MARKING DIAGRAM



PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF MEDIAN SUPPORT DIAPHRAGM AND CROSS GIRDER (5)	2
				CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1315

DETAIL OF MEDIAN SUPPORT DIAPHRAGM AND CROSS GIRDER(6) (P19) S=1:100



1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 599 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2703 x 19 x 2974 (SM490YB)
4 - VSTIFF PL 270 x 30 x 2300 (SM490YB)

1 - WEB PL 2209 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1634 x 9 x 1285 (SM400A)
1 - WEB PL 2238 x 9 x 170 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1340 (SS400)
2 - SPL PL 320 x 9 x 1365 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2792 x 19 x 2690 (SM490YB)
4 - VSTIFF PL 270 x 30 x 2400 (SM490YB)

1 - WEB PL 2296 x 9 x 170 (SM400A)
1 - WEB PL 613 x 9 x 2935 (SM400A)
1 - WEB PL 1692 x 9 x 2935 (SM400A)
1 - WEB PL 2296 x 9 x 170 (SM400A)
2 - HSTIFF PL 140 x 11 x 1250 (SM400A)
1 - VSTIFF PL 130 x 11 x 1533 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
4 - SPL PL 320 x 9 x 1423 (SS400)
2 - SPL PL 170 x 9 x 2580 (SS400)
212 - TCB M22 x 65 (S10T)

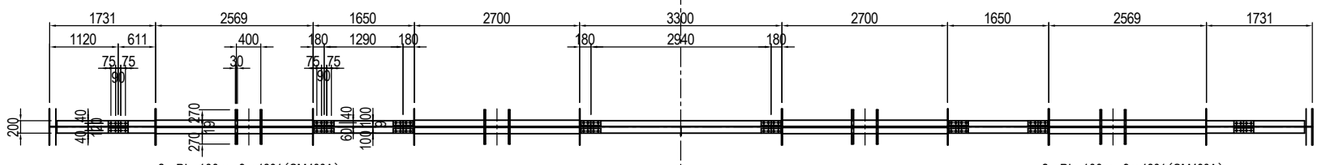
1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 599 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2703 x 19 x 2974 (SM490YB)
4 - VSTIFF PL 270 x 30 x 2300 (SM490YB)

1 - WEB PL 2209 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1634 x 9 x 1285 (SM400A)
1 - WEB PL 2238 x 9 x 170 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1340 (SS400)
2 - SPL PL 320 x 9 x 1365 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2792 x 19 x 2690 (SM490YB)
4 - VSTIFF PL 270 x 30 x 2400 (SM490YB)

A – A



2 - PL 100 x 9 x 1301 (SM400A)
2 - PL 100 x 9 x 370 (SM400A)
2 - PL 100 x 9 x 828 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 620 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

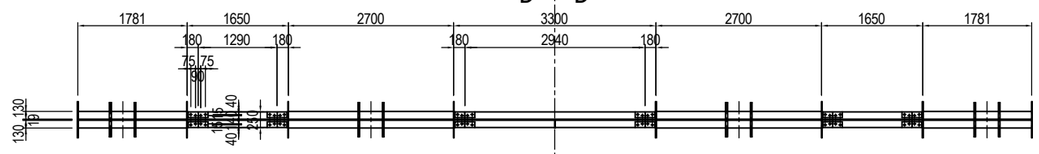
4 - PL 100 x 9 x 1130 (SM400A)
2 - PL 100 x 9 x 370 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 170 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 100 x 9 x 1130 (SM400A)
2 - PL 100 x 9 x 370 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
2 - PL 100 x 9 x 2935 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 1301 (SM400A)
2 - PL 100 x 9 x 370 (SM400A)
2 - PL 100 x 9 x 828 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 170 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 620 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

B – B



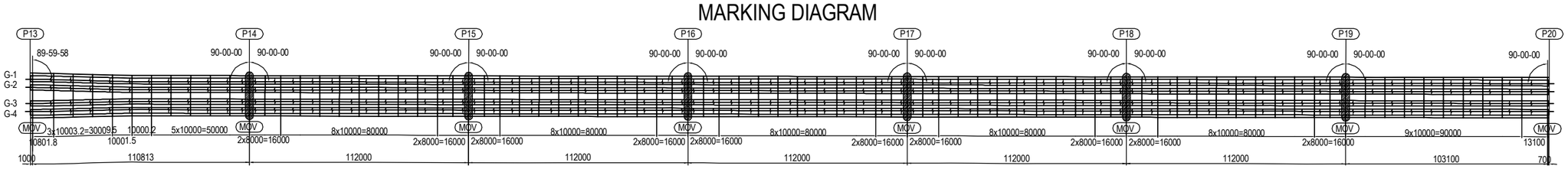
2 - PL 130 x 12 x 513 (SM400A)
2 - PL 130 x 12 x 370 (SM400A)
2 - PL 130 x 12 x 828 (SM400A)

4 - PL 130 x 12 x 1130 (SM400A)
2 - PL 130 x 12 x 370 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 170 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

4 - PL 130 x 12 x 1130 (SM400A)
2 - PL 130 x 12 x 370 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
1 - FLG PL 250 x 12 x 2935 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 12 x 513 (SM400A)
2 - PL 130 x 12 x 370 (SM400A)
2 - PL 130 x 12 x 828 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 170 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

MARKING DIAGRAM



PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	DRAWING TITLE: DETAIL OF MEDIAN SUPPORT DIAPHRAGM AND CROSS GIRDER (6)	PACKAGE: 2

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DWG No. P2-SB-1316

DETAIL OF CROSS GIRDER (1) (C1) S=1:100

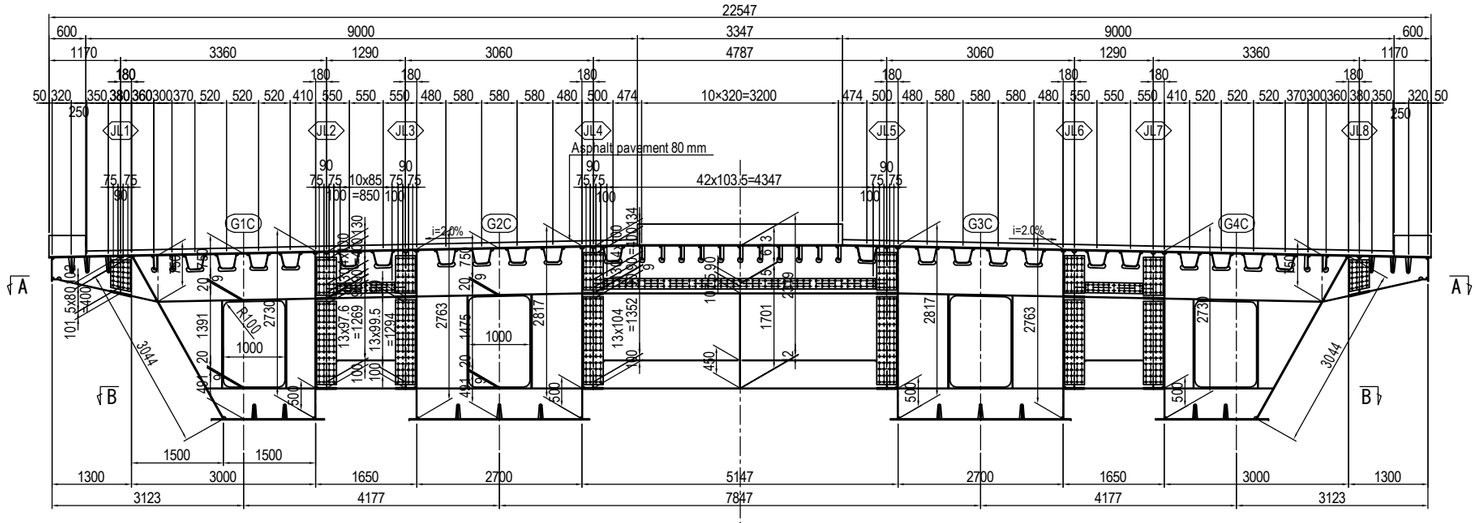
1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 594 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2714 x 9 x 2980 (SM400A)
2 - PL 200 x 9 x 1425 (SM400A)
2 - PL 200 x 9 x 1446 (SM400A)

1 - WEB PL 2218 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1643 x 9 x 1285 (SM400A)
1 - WEB PL 2243 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1349 (SS400)
2 - SPL PL 320 x 9 x 1374 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2801 x 9 x 2690 (SM400A)
2 - PL 200 x 9 x 1505 (SM400A)
2 - PL 200 x 9 x 1526 (SM400A)

1 - WEB PL 2305 x 9 x 172 (SM400A)
1 - WEB PL 613 x 9 x 4782 (SM400A)
1 - WEB PL 1701 x 9 x 4782 (SM400A)
1 - WEB PL 2305 x 9 x 172 (SM400A)
2 - HSTIFF PL 140 x 11 x 2174 (SM400A)
1 - VSTIFF PL 130 x 11 x 1542 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
4 - SPL PL 320 x 9 x 1432 (SS400)
2 - SPL PL 170 x 9 x 4427 (SS400)
254 - TCB M22 x 65 (S10T)



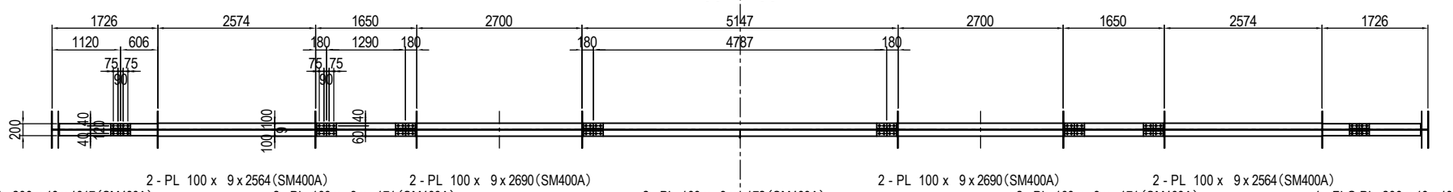
1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 594 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2714 x 9 x 2980 (SM400A)
2 - PL 200 x 9 x 1425 (SM400A)
2 - PL 200 x 9 x 1446 (SM400A)

1 - WEB PL 2218 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1643 x 9 x 1285 (SM400A)
1 - WEB PL 2243 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1349 (SS400)
2 - SPL PL 320 x 9 x 1374 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2801 x 9 x 2690 (SM400A)
2 - PL 200 x 9 x 1505 (SM400A)
2 - PL 200 x 9 x 1526 (SM400A)

A – A



2 - PL 100 x 9 x 2564 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

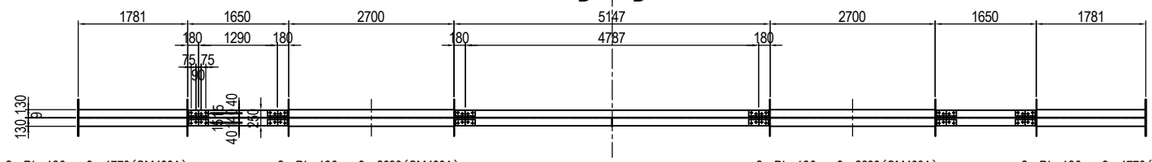
2 - PL 100 x 9 x 2690 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 172 (SM400A)
2 - PL 100 x 9 x 4782 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 2690 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 2564 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

B – B



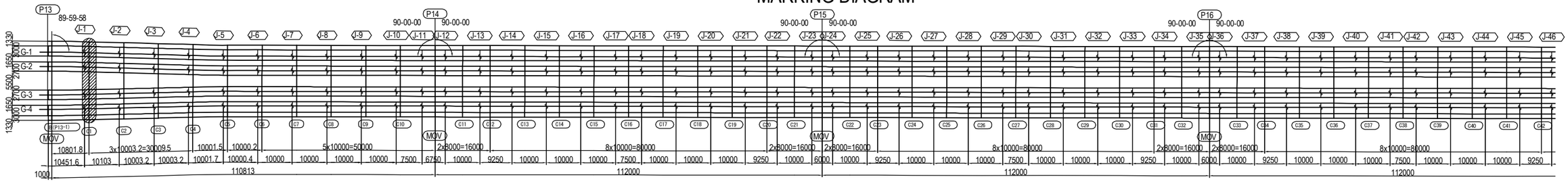
2 - PL 130 x 9 x 1770 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 9 x 2690 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
1 - FLG PL 250 x 12 x 4782 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 9 x 2690 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 9 x 1770 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

MARKING DIAGRAM



PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF CROSS GIRDER (1)	2
	DWG No.
	P2-SB-1321

DETAIL OF CROSS GIRDER (2) (C2) S=1:100

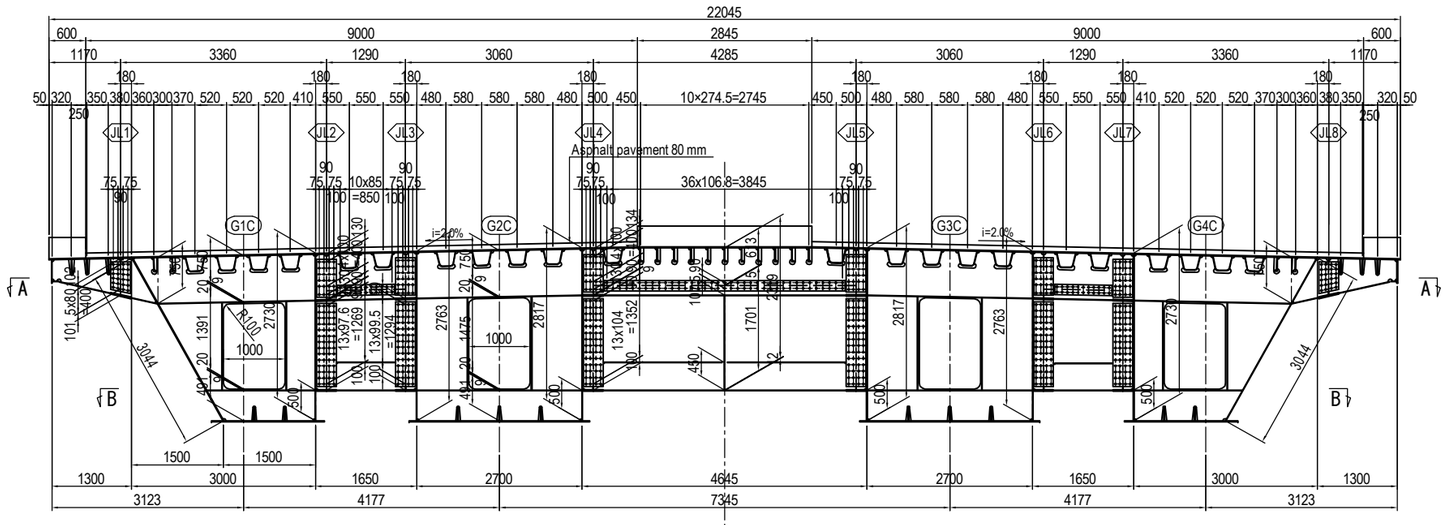
1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 594 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2714 x 9 x 2980 (SM400A)
2 - PL 200 x 9 x 1425 (SM400A)
2 - PL 200 x 9 x 1446 (SM400A)

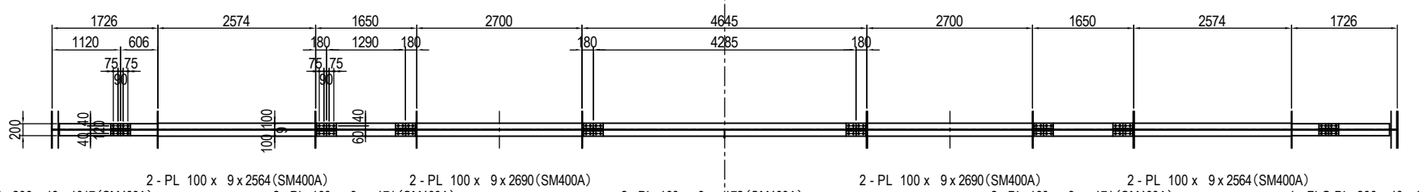
1 - WEB PL 2218 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1643 x 9 x 1285 (SM400A)
1 - WEB PL 2243 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1349 (SS400)
2 - SPL PL 320 x 9 x 1374 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2801 x 9 x 2690 (SM400A)
2 - PL 200 x 9 x 1505 (SM400A)
2 - PL 200 x 9 x 1526 (SM400A)

1 - WEB PL 2305 x 9 x 172 (SM400A)
1 - WEB PL 613 x 9 x 4280 (SM400A)
1 - WEB PL 1701 x 9 x 4280 (SM400A)
1 - WEB PL 2305 x 9 x 172 (SM400A)
2 - HSTIFF PL 140 x 11 x 2174 (SM400A)
1 - VSTIFF PL 130 x 11 x 1542 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
4 - SPL PL 320 x 9 x 1432 (SS400)
2 - SPL PL 170 x 9 x 2825 (SS400)
242 - TCB M22 x 65 (S10T)



A – A



2 - PL 100 x 9 x 2564 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

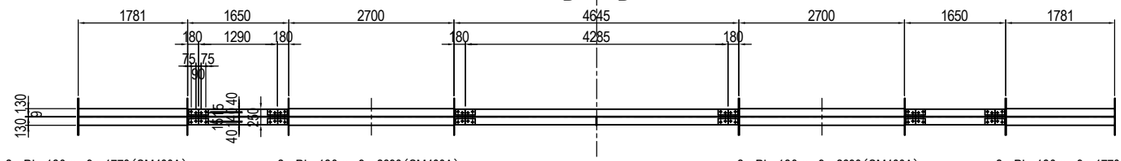
2 - PL 100 x 9 x 2690 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 172 (SM400A)
2 - PL 100 x 9 x 4280 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 2690 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 2564 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

B + B



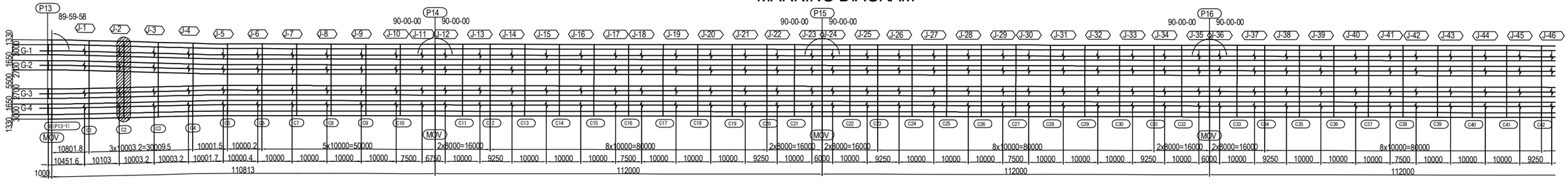
2 - PL 130 x 9 x 1770 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 9 x 2690 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
1 - FLG PL 250 x 12 x 4280 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 9 x 2690 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 9 x 1770 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

MARKING DIAGRAM

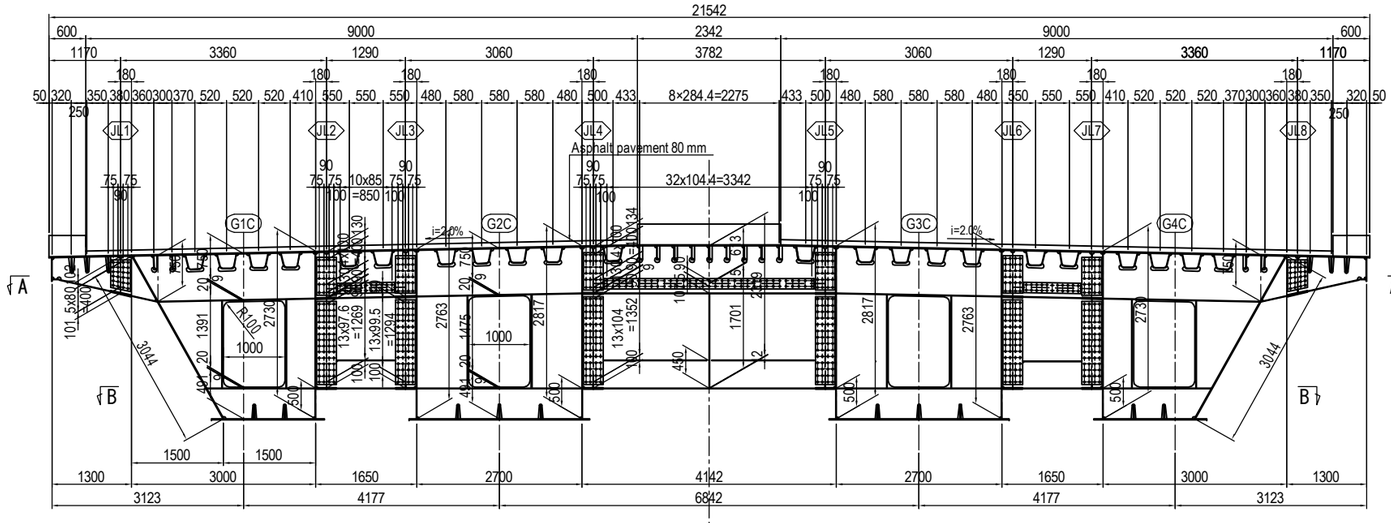


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF CROSS GIRDER (2)	2
	DWG No.
	P2-SB-1322

DETAIL OF CROSS GIRDER (3) (C3) S=1:100



1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 594 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2714 x 9 x 2980 (SM400A)
2 - PL 200 x 9 x 1425 (SM400A)
2 - PL 200 x 9 x 1446 (SM400A)

1 - WEB PL 2218 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1643 x 9 x 1285 (SM400A)
1 - WEB PL 2243 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1349 (SS400)
2 - SPL PL 320 x 9 x 1374 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2801 x 9 x 2690 (SM400A)
2 - PL 200 x 9 x 1505 (SM400A)
2 - PL 200 x 9 x 1526 (SM400A)

1 - WEB PL 2305 x 9 x 172 (SM400A)
1 - WEB PL 613 x 9 x 3777 (SM400A)
1 - WEB PL 1701 x 9 x 3777 (SM400A)
1 - WEB PL 2305 x 9 x 172 (SM400A)
2 - HSTIFF PL 140 x 11 x 2174 (SM400A)
1 - VSTIFF PL 130 x 11 x 1542 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
4 - SPL PL 320 x 9 x 1432 (SS400)
2 - SPL PL 170 x 9 x 3422 (SS400)
234 - TCB M22 x 65 (S10T)

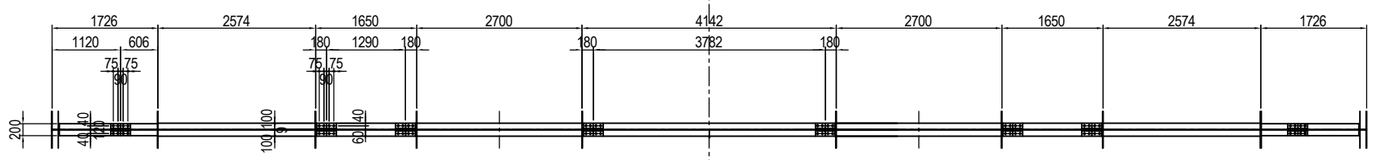
1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 594 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2714 x 9 x 2980 (SM400A)
2 - PL 200 x 9 x 1425 (SM400A)
2 - PL 200 x 9 x 1446 (SM400A)

1 - WEB PL 2218 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1643 x 9 x 1285 (SM400A)
1 - WEB PL 2243 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1349 (SS400)
2 - SPL PL 320 x 9 x 1374 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2801 x 9 x 2690 (SM400A)
2 - PL 200 x 9 x 1505 (SM400A)
2 - PL 200 x 9 x 1526 (SM400A)

A – A



2 - PL 100 x 9 x 2564 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

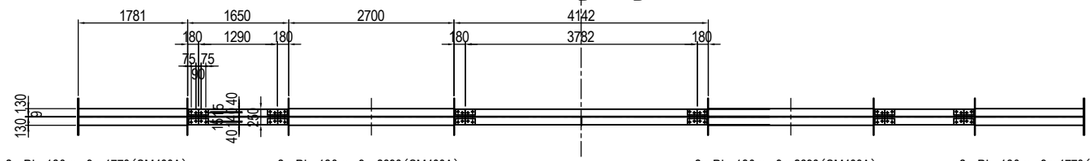
2 - PL 100 x 9 x 2690 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 172 (SM400A)
2 - PL 100 x 9 x 3777 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 2690 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 2564 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

B – B



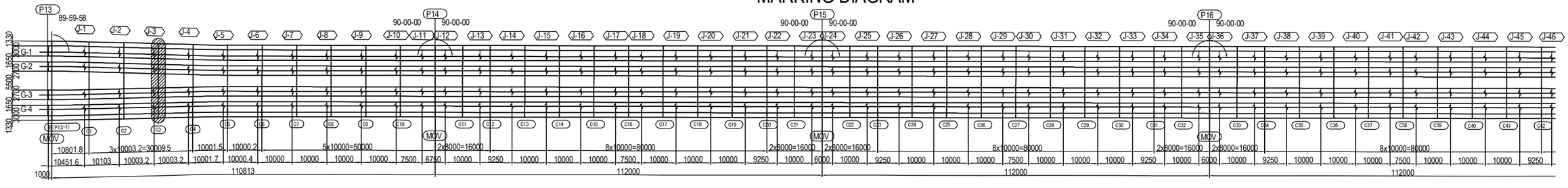
2 - PL 130 x 9 x 1770 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 9 x 2690 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
1 - FLG PL 250 x 12 x 3777 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 9 x 2690 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 9 x 1770 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

MARKING DIAGRAM

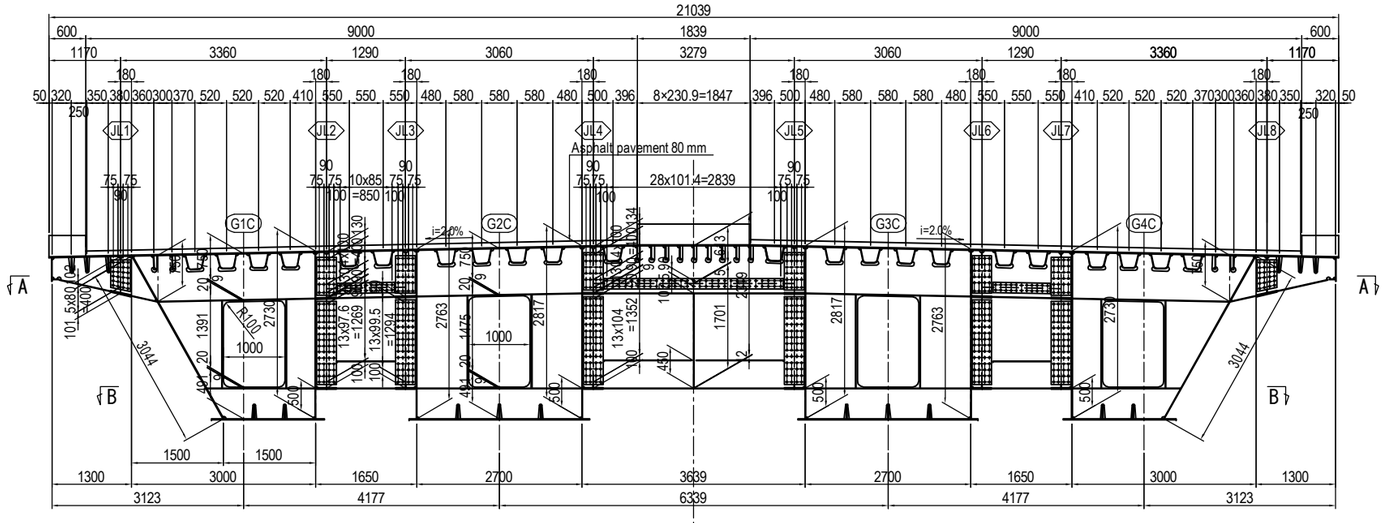


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF CROSS GIRDER (3)	2
	DWG No.
	P2-SB-1323

DETAIL OF CROSS GIRDER (4) (C4) S=1:100



1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 594 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2714 x 9 x 2980 (SM400A)
2 - PL 200 x 9 x 1425 (SM400A)
2 - PL 200 x 9 x 1446 (SM400A)

1 - WEB PL 2218 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1643 x 9 x 1285 (SM400A)
1 - WEB PL 2243 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1349 (SS400)
2 - SPL PL 320 x 9 x 1374 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2801 x 9 x 2690 (SM400A)
2 - PL 200 x 9 x 1505 (SM400A)
2 - PL 200 x 9 x 1526 (SM400A)

1 - WEB PL 2305 x 9 x 172 (SM400A)
1 - WEB PL 613 x 9 x 3274 (SM400A)
1 - WEB PL 1701 x 9 x 3274 (SM400A)
1 - WEB PL 2305 x 9 x 172 (SM400A)
2 - HSTIFF PL 140 x 11 x 2174 (SM400A)
1 - VSTIFF PL 130 x 11 x 1542 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
4 - SPL PL 320 x 9 x 1432 (SS400)
2 - SPL PL 170 x 9 x 2919 (SS400)
226 - TCB M22 x 65 (S10T)

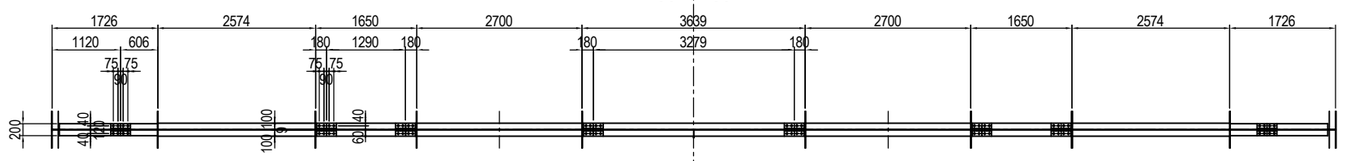
1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 594 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2714 x 9 x 2980 (SM400A)
2 - PL 200 x 9 x 1425 (SM400A)
2 - PL 200 x 9 x 1446 (SM400A)

1 - WEB PL 2218 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1643 x 9 x 1285 (SM400A)
1 - WEB PL 2243 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1349 (SS400)
2 - SPL PL 320 x 9 x 1374 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2801 x 9 x 2690 (SM400A)
2 - PL 200 x 9 x 1505 (SM400A)
2 - PL 200 x 9 x 1526 (SM400A)

A – A



2 - PL 100 x 9 x 2564 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

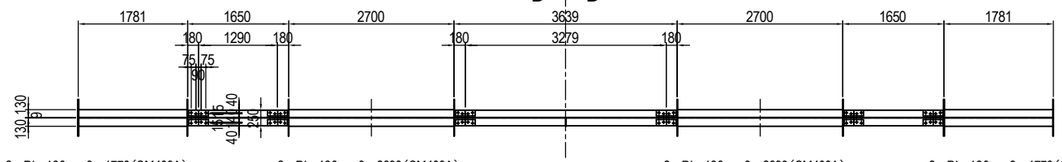
2 - PL 100 x 9 x 2690 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 172 (SM400A)
2 - PL 100 x 9 x 3274 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 2690 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 2564 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

B – B



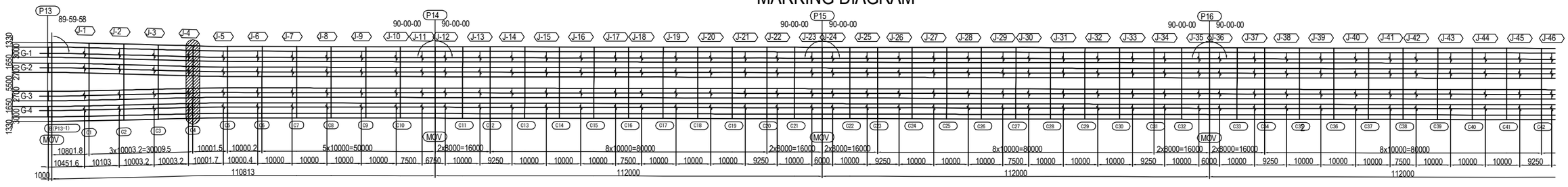
2 - PL 130 x 9 x 1770 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 9 x 2690 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
1 - FLG PL 250 x 12 x 3274 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 9 x 2690 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 9 x 1770 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

MARKING DIAGRAM



PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME / SIGNATURE / DATE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA 15 Jun.2017
				CHECKED BY	T. HAYAKAWA 20 Jun.2017
				APPROVED BY	Y. SANO 21 Jun.2017

DRAWING TITLE: DETAIL OF CROSS GIRDER (4)

PACKAGE: 2

DWG No.: P2-SB-1324

DETAIL OF CROSS GIRDER (5) (C5-C74) S=1:100

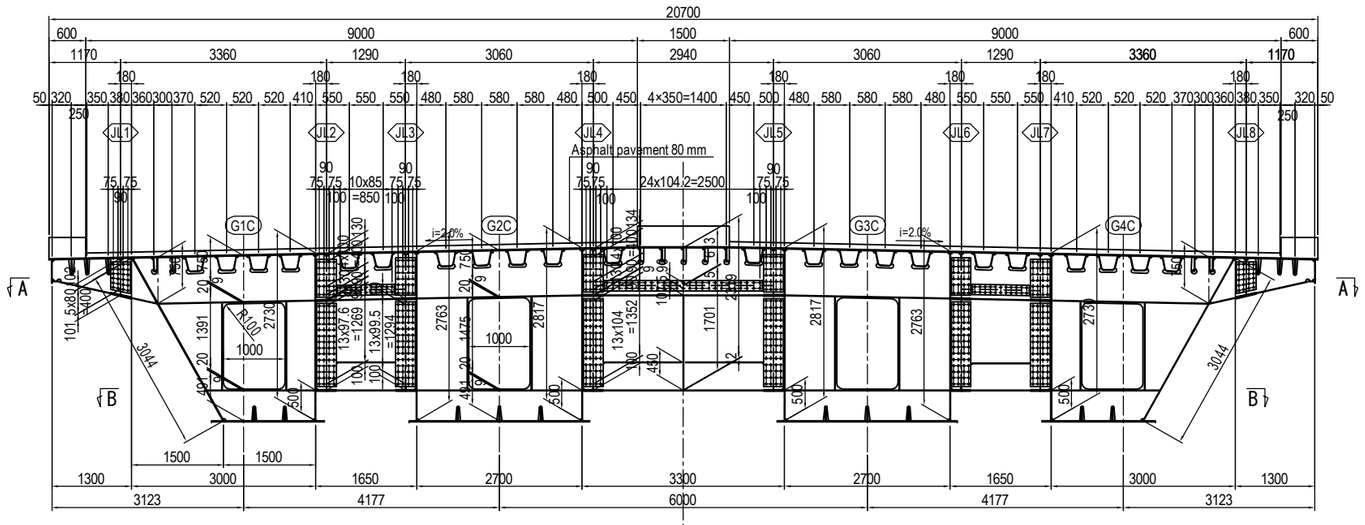
1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 594 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2714 x 9 x 2980 (SM400A)
2 - PL 200 x 9 x 1425 (SM400A)
2 - PL 200 x 9 x 1446 (SM400A)

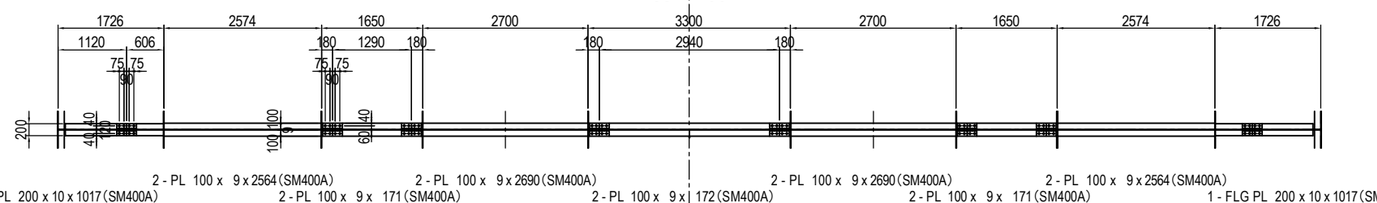
1 - WEB PL 2218 x 9 x 171 (SM400A)
1 - WEB PL 621 x 9 x 1285 (SM400A)
1 - WEB PL 1643 x 9 x 1285 (SM400A)
1 - WEB PL 2243 x 9 x 172 (SM400A)
1 - HSTIFF PL 140 x 11 x 930 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
2 - SPL PL 320 x 9 x 1349 (SS400)
2 - SPL PL 320 x 9 x 1374 (SS400)
2 - SPL PL 170 x 9 x 934 (SS400)
182 - TCB M22 x 65 (S10T)

1 - DIA PL 2801 x 9 x 2690 (SM400A)
2 - PL 200 x 9 x 1505 (SM400A)
2 - PL 200 x 9 x 1526 (SM400A)

1 - WEB PL 2305 x 9 x 172 (SM400A)
1 - WEB PL 613 x 9 x 2935 (SM400A)
1 - WEB PL 1701 x 9 x 2935 (SM400A)
1 - WEB PL 2305 x 9 x 172 (SM400A)
2 - HSTIFF PL 140 x 11 x 2174 (SM400A)
1 - VSTIFF PL 130 x 11 x 1542 (SM400A)
4 - SPL PL 320 x 9 x 610 (SS400)
4 - SPL PL 320 x 9 x 1432 (SS400)
2 - SPL PL 170 x 9 x 2580 (SS400)
218 - TCB M22 x 65 (S10T)



A – A



2 - PL 100 x 9 x 2564 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

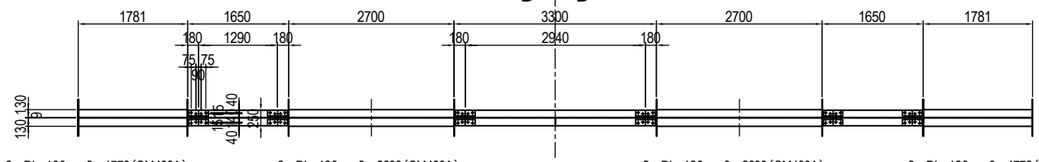
2 - PL 100 x 9 x 2690 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 2690 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
2 - PL 100 x 9 x 2935 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 2690 (SM400A)
2 - PL 100 x 9 x 171 (SM400A)
2 - PL 100 x 9 x 1285 (SM400A)
2 - PL 100 x 9 x 172 (SM400A)
8 - SPL PL 80 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 9 x 2564 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

B – B



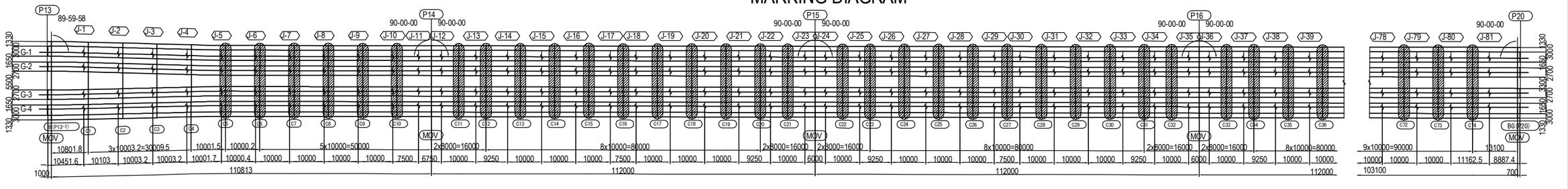
2 - PL 130 x 9 x 1770 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 9 x 2690 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
1 - FLG PL 250 x 12 x 2935 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 9 x 2690 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 130 x 9 x 1770 (SM400A)
1 - FLG PL 250 x 12 x 171 (SM400A)
1 - FLG PL 250 x 12 x 1285 (SM400A)
1 - FLG PL 250 x 12 x 172 (SM400A)
4 - SPL PL 95 x 9 x 320 (SS400)
2 - SPL PL 250 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

MARKING DIAGRAM



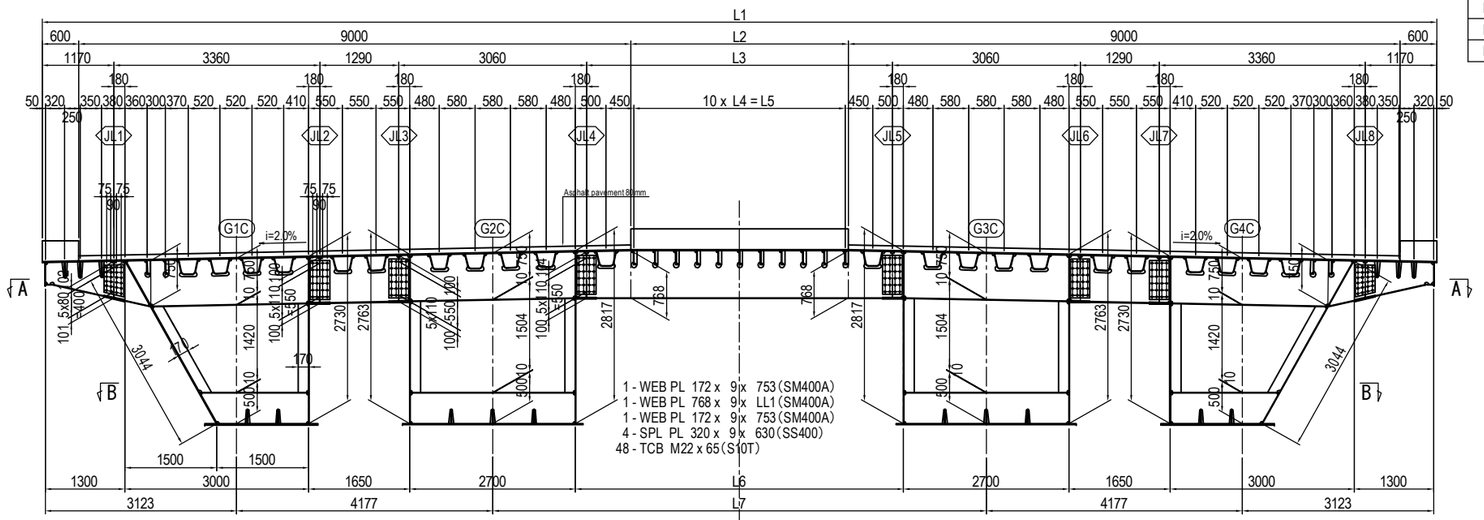
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF CROSS GIRDER (5)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1325

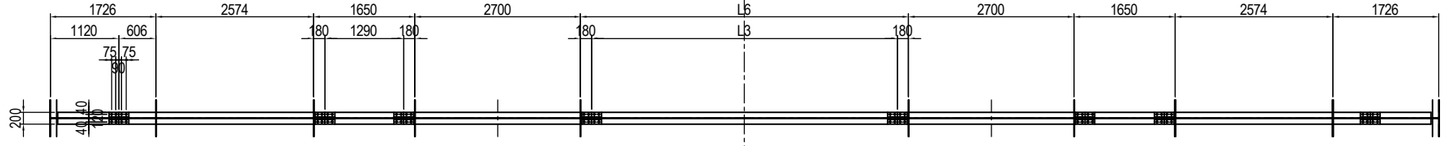
DETAIL OF CORSS BEAM SECTION (1) ,BRACKET S=1:100

	L1	L2	L3	L4	L5	L6	L7	LL1
R1	22876	3676	5116	357.6	3576	5476	8176	5111
R2	22803	3603	5043	350.3	3503	5403	8103	5038
R3	22683	3483	4923	338.3	3383	5283	7983	4918
R4	22422	3222	4662	312.2	3122	5022	7722	4657
R5	22296	3096	4536	299.6	2996	4896	7596	4531
R6	22170	2970	4410	287.0	2870	4770	7470	4405

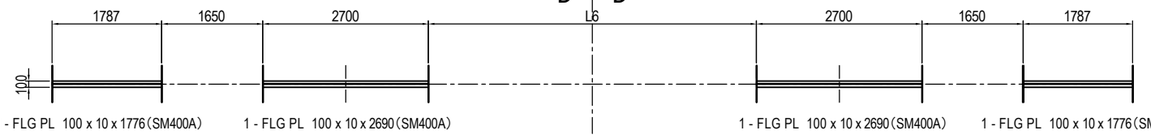
(R1-R6)



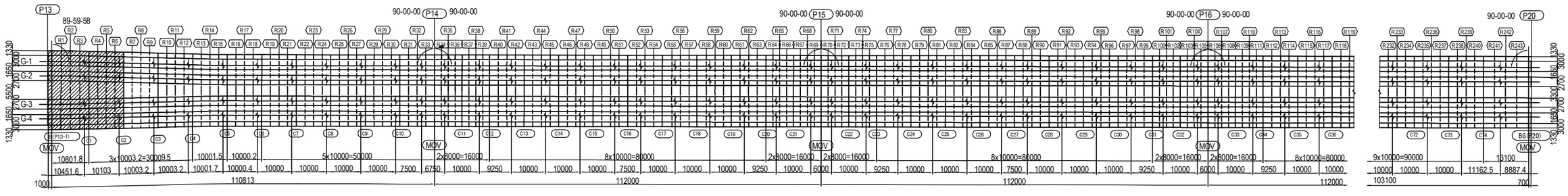
A – A



B – B



MARKING DIAGRAM



PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

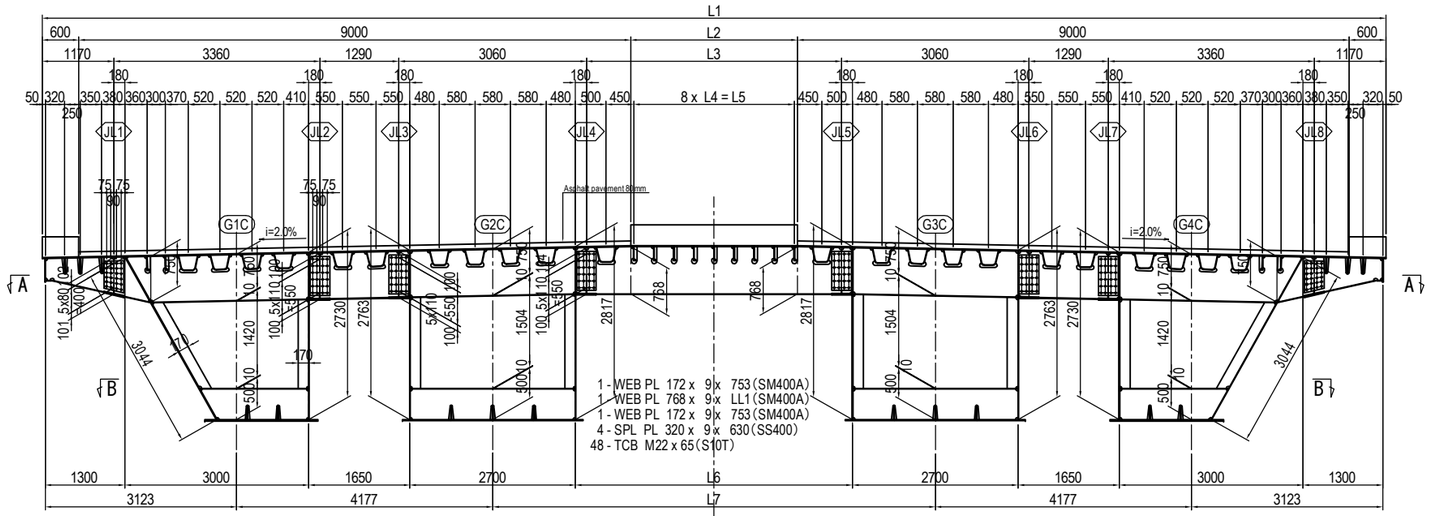
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF CORSS BEAM SECTION (1)	2
	DWG No.
	P2-SB-1331

DETAIL OF CORSS BEAM SECTION (2),BRACKET S=1:100

(R7-R10)

	L1	L2	L3	L4	L5	L6	L7	LL1
R7	21919	2719	4159	327.4	2619	4519	7219	4154
R8	21793	2593	4033	311.6	2493	4393	7093	4028
R9	21668	2468	3908	296.0	2368	4268	6968	3903
R10	21416	2216	3656	264.5	2116	4016	6716	3651



1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 594 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - WEB PL 750 x 9 x 2981 (SM400A)
1 - WEB PL 500 x 9 x 1770 (SM400A)

1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 594 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - WEB PL 750 x 9 x 2981 (SM400A)
1 - WEB PL 500 x 9 x 1770 (SM400A)

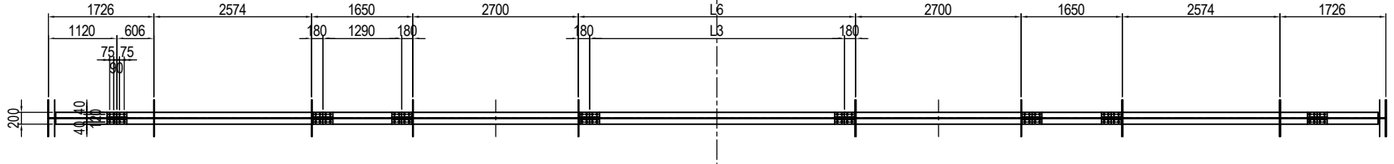
1 - WEB PL 171 x 9 x 753 (SM400A)
1 - WEB PL 750 x 9 x 1300 (SM400A)
1 - WEB PL 172 x 9 x 753 (SM400A)
4 - SPL PL 320 x 9 x 630 (SS400)
48 - TCB M22 x 65 (S10T)

1 - WEB PL 750 x 9 x 2706 (SM400A)
1 - WEB PL 500 x 9 x 2690 (SM400A)

1 - WEB PL 750 x 9 x 2706 (SM400A)
1 - WEB PL 500 x 9 x 2690 (SM400A)

1 - WEB PL 171 x 9 x 753 (SM400A)
1 - WEB PL 750 x 9 x 1300 (SM400A)
1 - WEB PL 172 x 9 x 753 (SM400A)
4 - SPL PL 320 x 9 x 630 (SS400)
48 - TCB M22 x 65 (S10T)

A - A



1 - FLG PL 200 x 10 x 2564 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

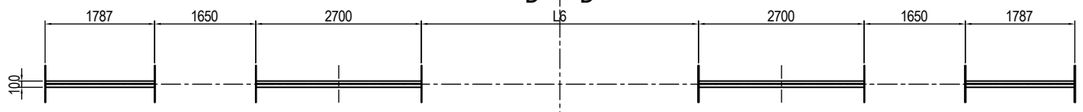
1 - FLG PL 200 x 10 x 2690 (SM400A)
1 - FLG PL 200 x 10 x 171 (SM400A)
1 - FLG PL 200 x 10 x 1285 (SM400A)
1 - FLG PL 200 x 10 x 172 (SM400A)
4 - SPL PL 80 x 9 x 320 (SS400)
2 - SPL PL 200 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

1 - FLG PL 200 x 10 x 172 (SM400A)
1 - FLG PL 200 x 10 x LL1 (SM400A)
1 - FLG PL 200 x 10 x 172 (SM400A)
4 - SPL PL 80 x 9 x 320 (SS400)
2 - SPL PL 200 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

1 - FLG PL 200 x 10 x 2690 (SM400A)
1 - FLG PL 200 x 10 x 1026 (SM400A)
1 - FLG PL 200 x 10 x 639 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

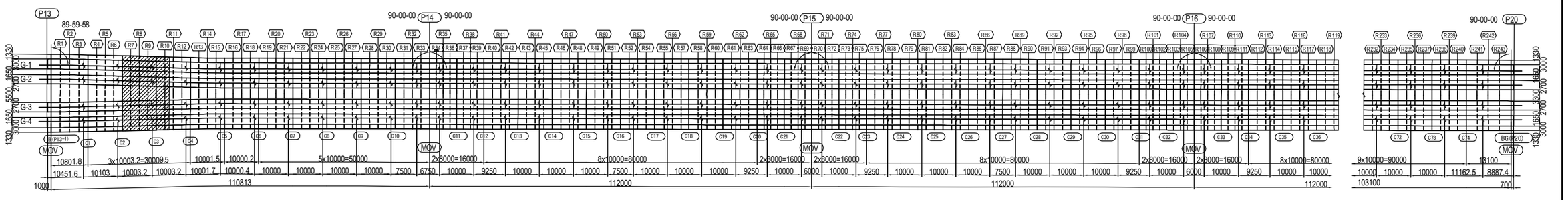
1 - FLG PL 200 x 10 x 2564 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

B - B



1 - FLG PL 100 x 10 x 1776 (SM400A)
1 - FLG PL 100 x 10 x 2690 (SM400A)
1 - FLG PL 100 x 10 x 2690 (SM400A)
1 - FLG PL 100 x 10 x 1776 (SM400A)

MARKING DIAGRAM



PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

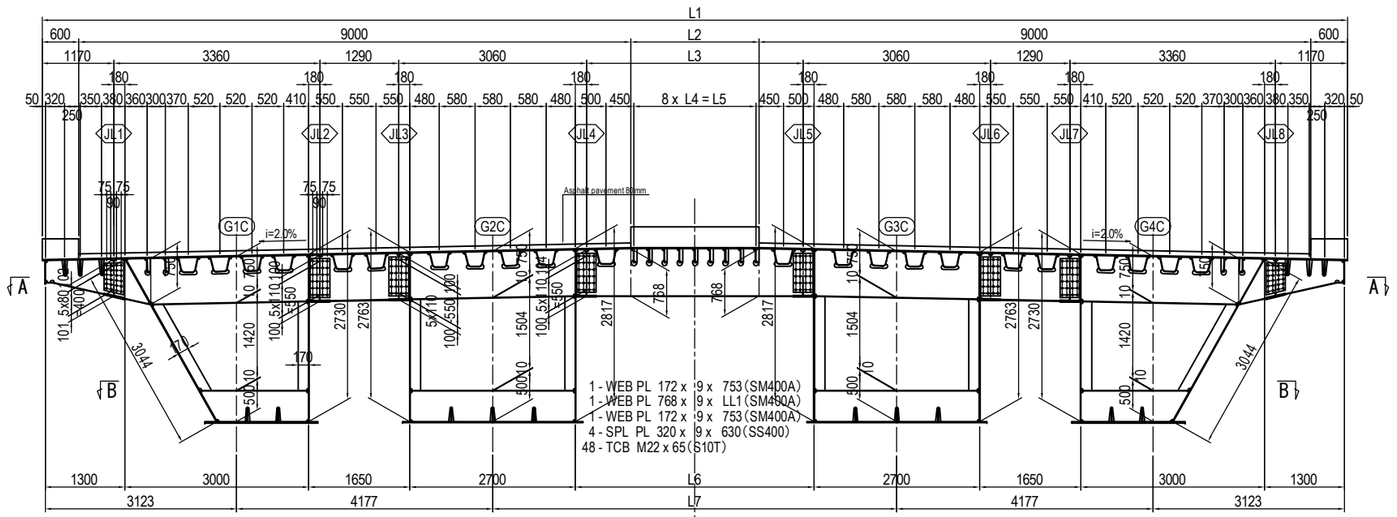
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF CORSS BEAM SECTION (2)	2
	DWG No.
	P2-SB-1332

DETAIL OF CORSS BEAM SECTION (3),BRACKET S=1:100

(R11-R15)

	L1	L2	L3	L4	L5	L6	L7	LL1
R11	21291	2091	3531	248.9	1991	3891	6591	3526
R12	21165	1965	3405	233.1	1865	3765	6465	3400
R13	20914	1714	3154	201.8	1614	3514	6214	3149
R14	20802	1602	3042	187.8	1502	3402	6102	3037
R15	20730	1530	2970	178.8	1430	3330	6030	2965



1 - WEB PL 602 x 9 x 1113(SM400A)
1 - WEB PL 739 x 9 x 594(SM400A)
2 - SPL PL 320 x 9 x 520(SS400)
24 - TCB M22 x 65(S10T)

1 - WEB PL 750 x 9 x 2981(SM400A)
1 - WEB PL 500 x 9 x 1770(SM400A)

1 - WEB PL 602 x 9 x 1113(SM400A)
1 - WEB PL 739 x 9 x 594(SM400A)
2 - SPL PL 320 x 9 x 520(SS400)
24 - TCB M22 x 65(S10T)

1 - WEB PL 750 x 9 x 2981(SM400A)
1 - WEB PL 500 x 9 x 1770(SM400A)

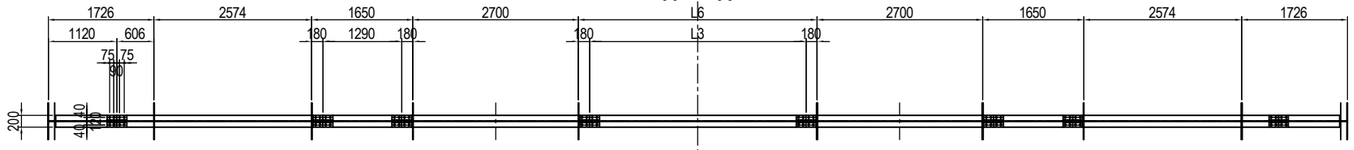
1 - WEB PL 171 x 9 x 753(SM400A)
1 - WEB PL 750 x 9 x 1300(SM400A)
1 - WEB PL 172 x 9 x 753(SM400A)
4 - SPL PL 320 x 9 x 630(SS400)
48 - TCB M22 x 65(S10T)

1 - WEB PL 750 x 9 x 2706(SM400A)
1 - WEB PL 500 x 9 x 2690(SM400A)

1 - WEB PL 750 x 9 x 2706(SM400A)
1 - WEB PL 500 x 9 x 2690(SM400A)

1 - WEB PL 171 x 9 x 753(SM400A)
1 - WEB PL 750 x 9 x 1300(SM400A)
1 - WEB PL 172 x 9 x 753(SM400A)
4 - SPL PL 320 x 9 x 630(SS400)
48 - TCB M22 x 65(S10T)

A – A



1 - FLG PL 200 x 10 x 2564(SM400A)
1 - FLG PL 200 x 10 x 1017(SM400A)
1 - FLG PL 200 x 10 x 615(SM400A)
2 - SPL PL 80 x 9 x 320(SS400)
1 - SPL PL 200 x 9 x 320(SS400)
8 - TCB M22 x 65(S10T)

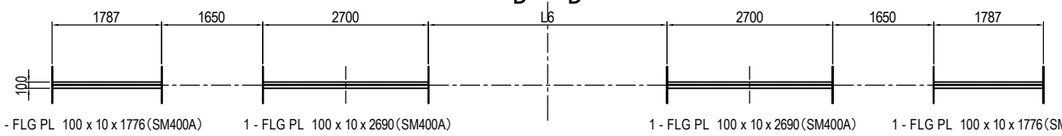
1 - FLG PL 200 x 10 x 2690(SM400A)
1 - FLG PL 200 x 10 x 171(SM400A)
1 - FLG PL 200 x 10 x 1285(SM400A)
1 - FLG PL 200 x 10 x 172(SM400A)
4 - SPL PL 80 x 9 x 320(SS400)
2 - SPL PL 200 x 9 x 320(SS400)
16 - TCB M22 x 65(S10T)

1 - FLG PL 200 x 10 x 172(SM400A)
1 - FLG PL 200 x 10 x LL1(SM400A)
1 - FLG PL 200 x 10 x 172(SM400A)
4 - SPL PL 80 x 9 x 320(SS400)
2 - SPL PL 200 x 9 x 320(SS400)
16 - TCB M22 x 65(S10T)

1 - FLG PL 200 x 10 x 2690(SM400A)
1 - FLG PL 200 x 10 x 1026(SM400A)
1 - FLG PL 200 x 10 x 639(SM400A)
2 - SPL PL 80 x 9 x 320(SS400)
1 - SPL PL 200 x 9 x 320(SS400)
8 - TCB M22 x 65(S10T)

1 - FLG PL 200 x 10 x 2564(SM400A)
1 - FLG PL 200 x 10 x 1017(SM400A)
1 - FLG PL 200 x 10 x 615(SM400A)
2 - SPL PL 80 x 9 x 320(SS400)
1 - SPL PL 200 x 9 x 320(SS400)
8 - TCB M22 x 65(S10T)

B – B



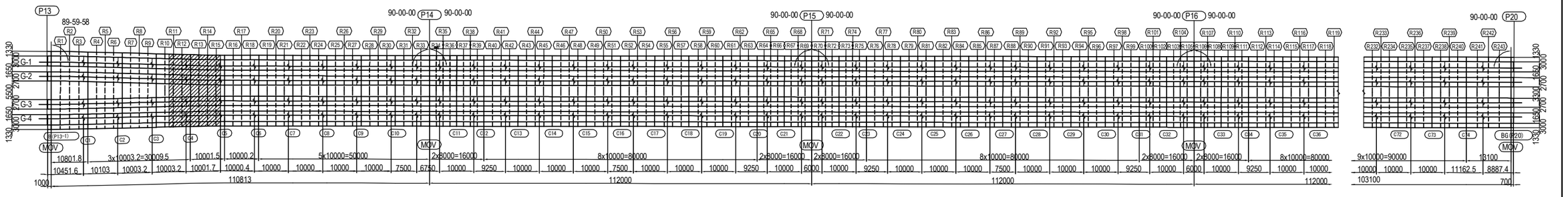
1 - FLG PL 100 x 10 x 1776(SM400A)

1 - FLG PL 100 x 10 x 2690(SM400A)

1 - FLG PL 100 x 10 x 2690(SM400A)

1 - FLG PL 100 x 10 x 1776(SM400A)

MARKING DIAGRAM



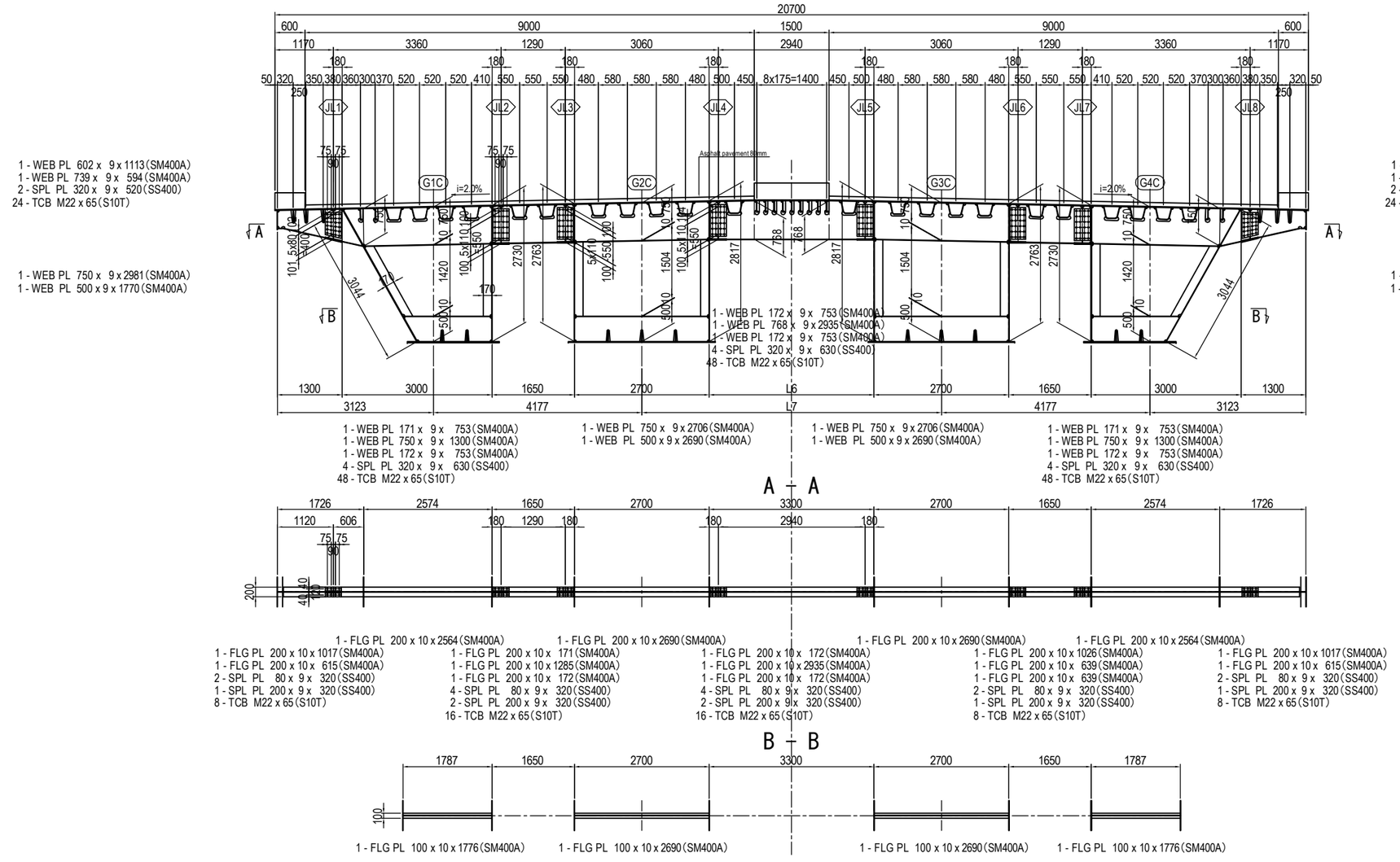
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

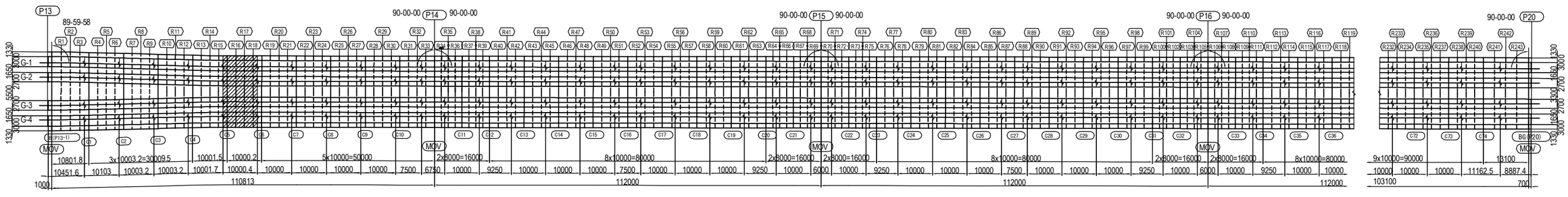
DRAWING TITLE	PACKAGE
DETAIL OF CORSS BEAM SECTION (3)	2
	DWG No.
	P2-SB-1333

DETAIL OF CORSS BEAM SECTION (4),BRACKET S=1:100

(R16-R18)



MARKING DIAGRAM

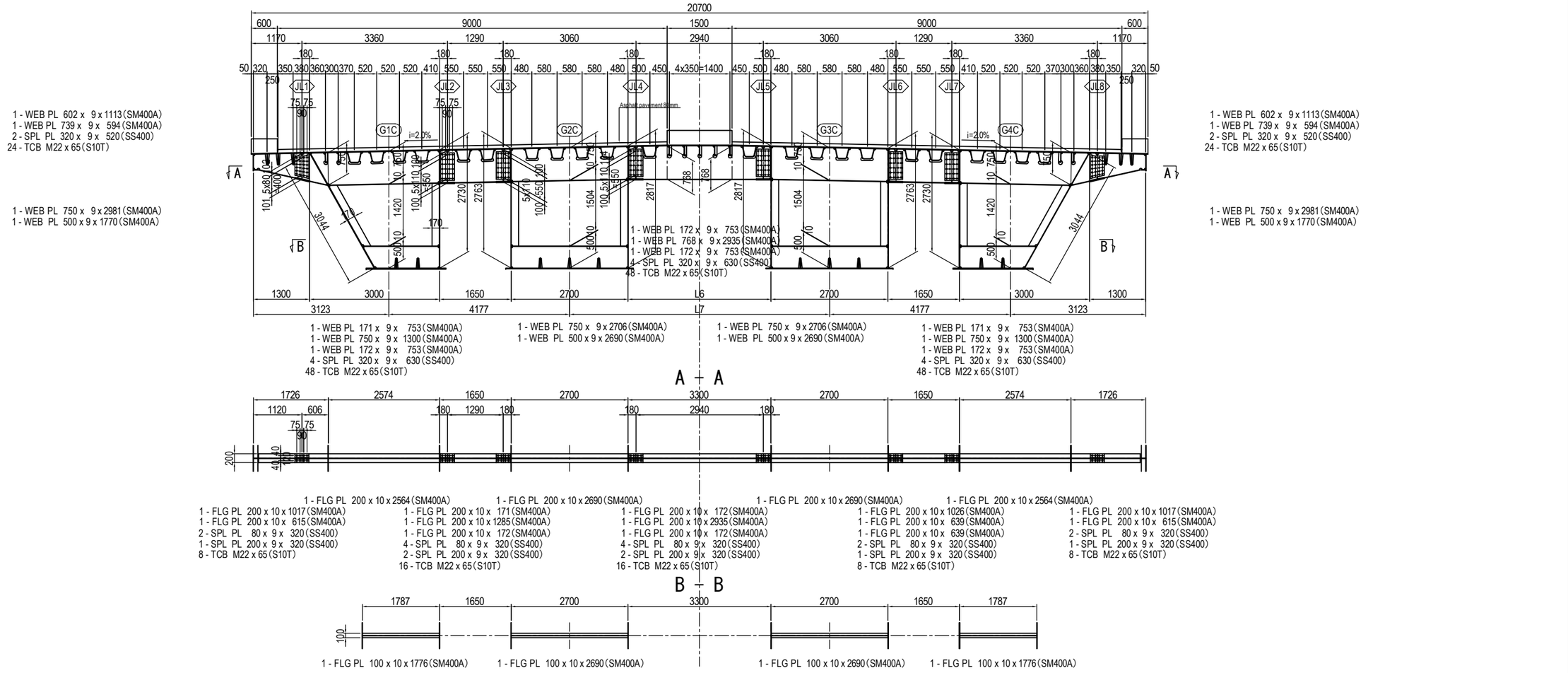


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

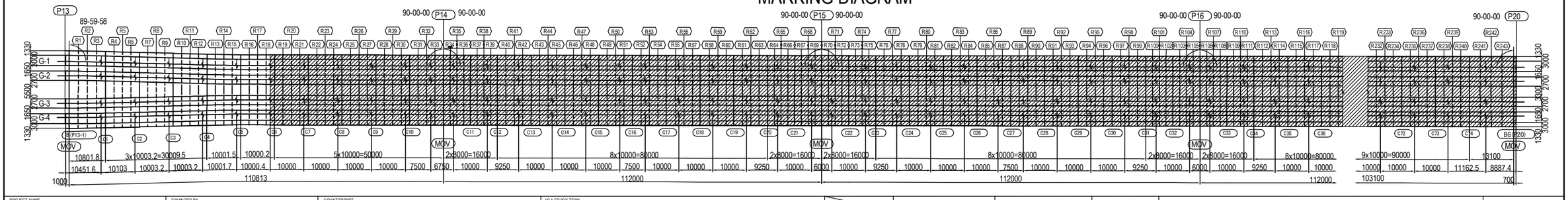
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF CORSS BEAM SECTION (4)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1334

DETAIL OF CORSS BEAM SECTION (5),BRACKET S=1:100

(R19,R21,R22,R24,R25,R27,R28,R30,R31,R33,R34,R36,R37,R39,R40,R42,R43,R45,R46,R48,R49,R51,R52,R54,R55,R57,R58,R60,R61,R63,R64
R66,R67,R69,R70,R72,R73,R75,R76,R78,R79,R81,R82,R84,R85,R87,R88,R90,R91,R93,R94,R96,R97,R99,R100,R102,R103,R105,R106,R108
R109,R111,R112,R114,R115,R117,R118,R120,R121,R123,R124,R126,R127,R129,R130,R132,R133,R135,R136,R138,R139,R141,R142,R144
R145,R147,R148,R150,R151,R153,R154,R156,R157,R159,R160,R162,R163,R165,R166,R168,R169,R171,R172,R174,R175,R177,R178,R180
R181,R183,R184,R186,R187,R189,R190,R192,R193,R195,R196,R198,R199,R201,R202,R204,R205,R207,R208,R210,R211,R213,R214,R216
R217,R219,R220,R222,R223,R225,R226,R228,R229,R231,R232,R234,R235,R237,R238,R240,R241,R243)



MARKING DIAGRAM

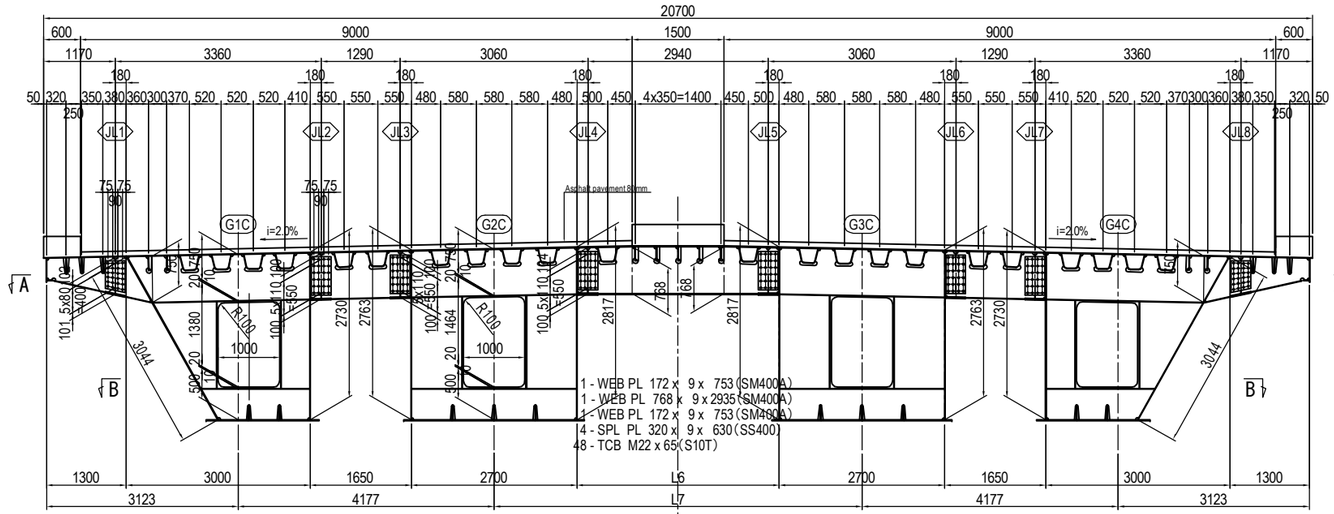


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF CORSS BEAM SECTION (5)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1335

DETAIL OF CORSS BEAM SECTION (6),BRACKET S=1:100

(R20,R23,R26,R29,R32,R35,R38,R41,R44,R47,R50,R53,R56,R59,R62,R65,R68,R71,R74,R77,R80,R83,R86,R89,R92,R95,R98,R101,R104
R107,R110,R113,R116,R119,R122,R125,R128,R131,R134,R137,R140,R143,R146,R149,R152,R155,R158,R161,R164,R167,R170,R173
R176,R179,R182,R185,R188,R191,R194,R197,R200,R203,R206,R209,R212,R215,R218,R221,R224,R227,R230,R233,R236,R239,R242)



1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 594 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2714 x 9 x 2980 (SM400A)
2 - PL 200 x 9 x 1414 (SM400A)
2 - PL 200 x 9 x 1435 (SM400A)

1 - WEB PL 602 x 9 x 1113 (SM400A)
1 - WEB PL 739 x 9 x 594 (SM400A)
2 - SPL PL 320 x 9 x 520 (SS400)
24 - TCB M22 x 65 (S10T)

1 - DIA PL 2714 x 9 x 2980 (SM400A)
2 - PL 200 x 9 x 1414 (SM400A)
2 - PL 200 x 9 x 1435 (SM400A)

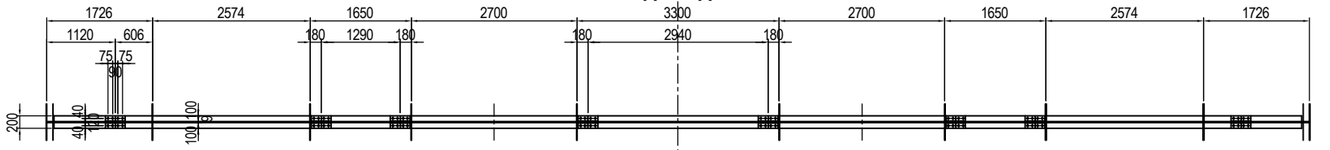
1 - WEB PL 171 x 9 x 753 (SM400A)
1 - WEB PL 750 x 9 x 1300 (SM400A)
1 - WEB PL 172 x 9 x 753 (SM400A)
4 - SPL PL 320 x 9 x 630 (SS400)
48 - TCB M22 x 65 (S10T)

1 - DIA PL 2801 x 9 x 2980 (SM400A)
2 - PL 200 x 9 x 1494 (SM400A)
2 - PL 200 x 9 x 1515 (SM400A)

1 - DIA PL 2801 x 9 x 2980 (SM400A)
2 - PL 200 x 9 x 1494 (SM400A)
2 - PL 200 x 9 x 1515 (SM400A)

1 - WEB PL 171 x 9 x 753 (SM400A)
1 - WEB PL 750 x 9 x 1300 (SM400A)
1 - WEB PL 172 x 9 x 753 (SM400A)
4 - SPL PL 320 x 9 x 630 (SS400)
48 - TCB M22 x 65 (S10T)

A – A



2 - PL 100 x 10 x 2564 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

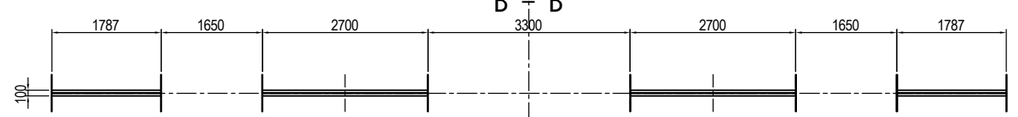
2 - PL 100 x 10 x 2690 (SM400A)
1 - FLG PL 200 x 10 x 171 (SM400A)
1 - FLG PL 200 x 10 x 1285 (SM400A)
1 - FLG PL 200 x 10 x 172 (SM400A)
4 - SPL PL 80 x 9 x 320 (SS400)
2 - SPL PL 200 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 10 x 2690 (SM400A)
1 - FLG PL 200 x 10 x 172 (SM400A)
1 - FLG PL 200 x 10 x 2935 (SM400A)
1 - FLG PL 200 x 10 x 172 (SM400A)
4 - SPL PL 80 x 9 x 320 (SS400)
2 - SPL PL 200 x 9 x 320 (SS400)
16 - TCB M22 x 65 (S10T)

2 - PL 100 x 10 x 2690 (SM400A)
1 - FLG PL 200 x 10 x 1026 (SM400A)
1 - FLG PL 200 x 10 x 639 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

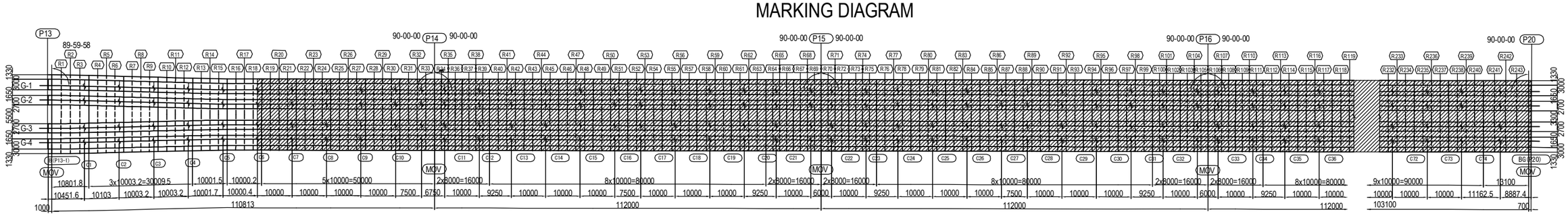
2 - PL 100 x 10 x 2564 (SM400A)
1 - FLG PL 200 x 10 x 1017 (SM400A)
1 - FLG PL 200 x 10 x 615 (SM400A)
2 - SPL PL 80 x 9 x 320 (SS400)
1 - SPL PL 200 x 9 x 320 (SS400)
8 - TCB M22 x 65 (S10T)

B – B



1 - FLG PL 100 x 10 x 1776 (SM400A)
1 - FLG PL 100 x 10 x 2690 (SM400A)
1 - FLG PL 100 x 10 x 2690 (SM400A)
1 - FLG PL 100 x 10 x 1776 (SM400A)

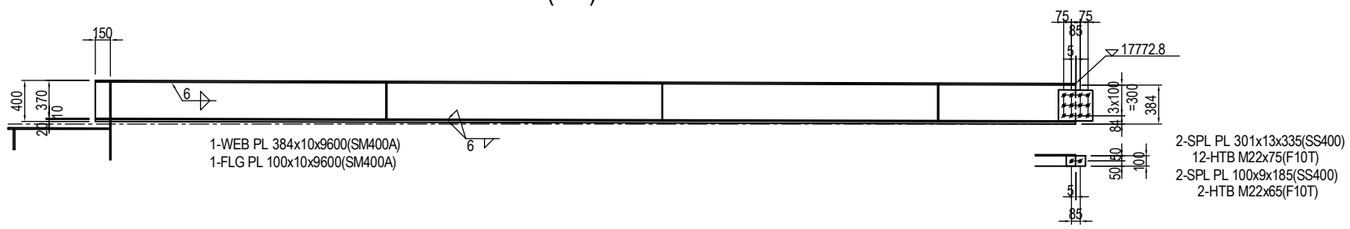
MARKING DIAGRAM

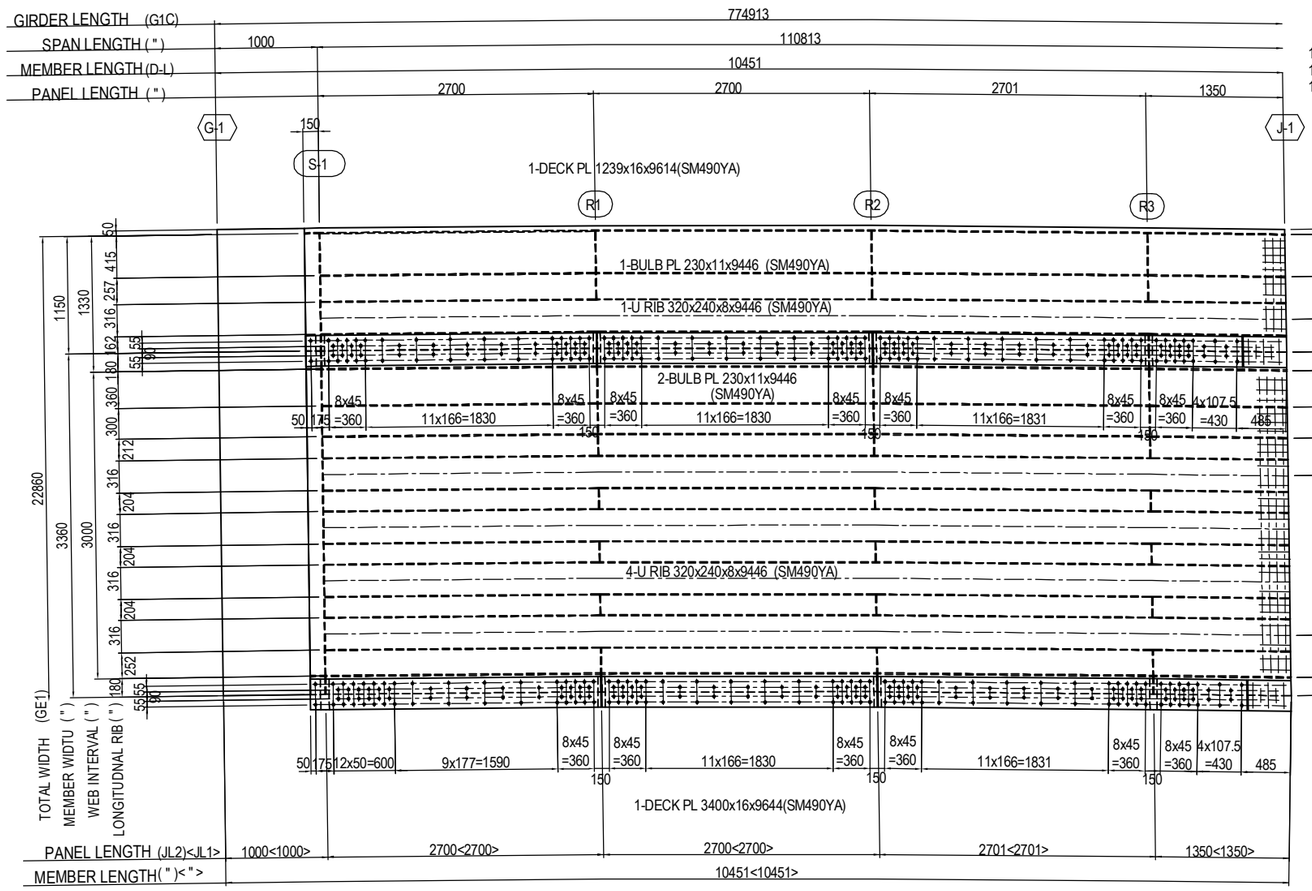


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF CORSS BEAM SECTION (6)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1336

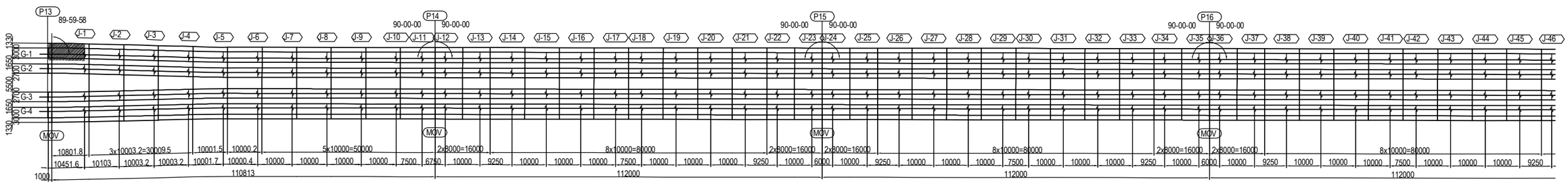
DETAIL OF DECK PLATE (1) S=1:60

(1-1)





MARKING DIAGRAM

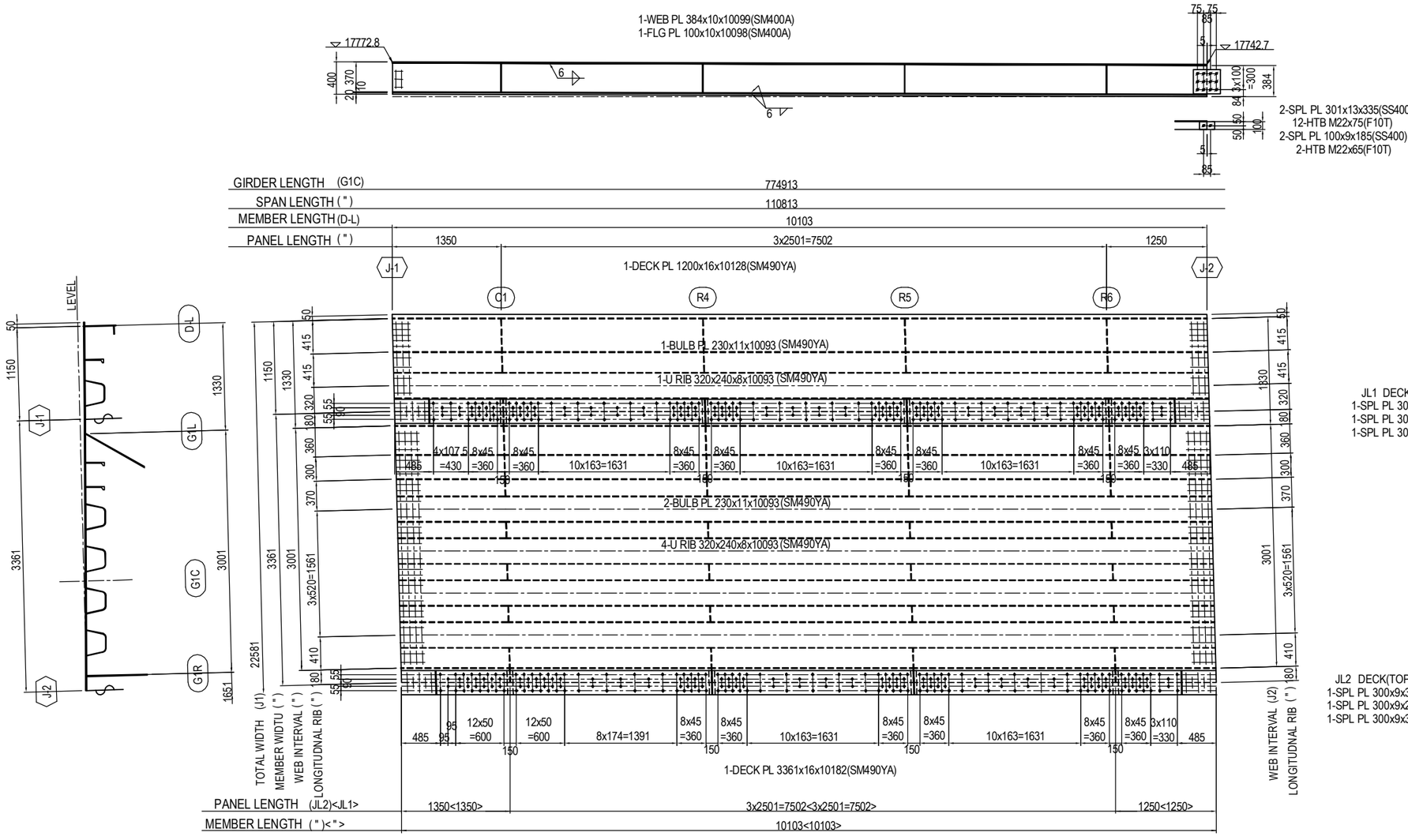


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1501

DETAIL OF DECK PLATE (2) S=1:60

(1-2)



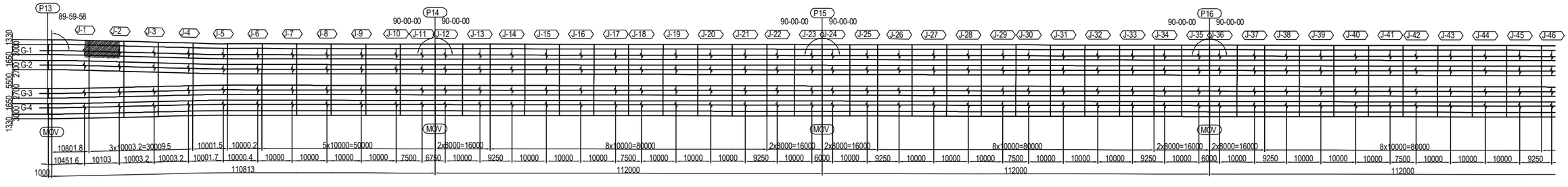
JL1 DECK(TOP SURFACE)
1-SPL PL 300x9x3419(SM490YA)
1-SPL PL 300x9x2499(SM490YA)
1-SPL PL 300x9x3319(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 330x9x 888(SM490YA)
3-SPL PL 330x9x2439(SM490YA)
1-SPL PL 330x9x 788(SM490YA)
212-TCB M22x70(S10T)

JL2 DECK(TOP SURFACE)
1-SPL PL 300x9x3419(SM490YA)
1-SPL PL 300x9x2499(SM490YA)
1-SPL PL 300x9x3319(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 330x9x 888(SM490YA)
3-SPL PL 330x9x2439(SM490YA)
1-SPL PL 330x9x 788(SM490YA)
220-TCB M22x70(S10T)

MARKING DIAGRAM

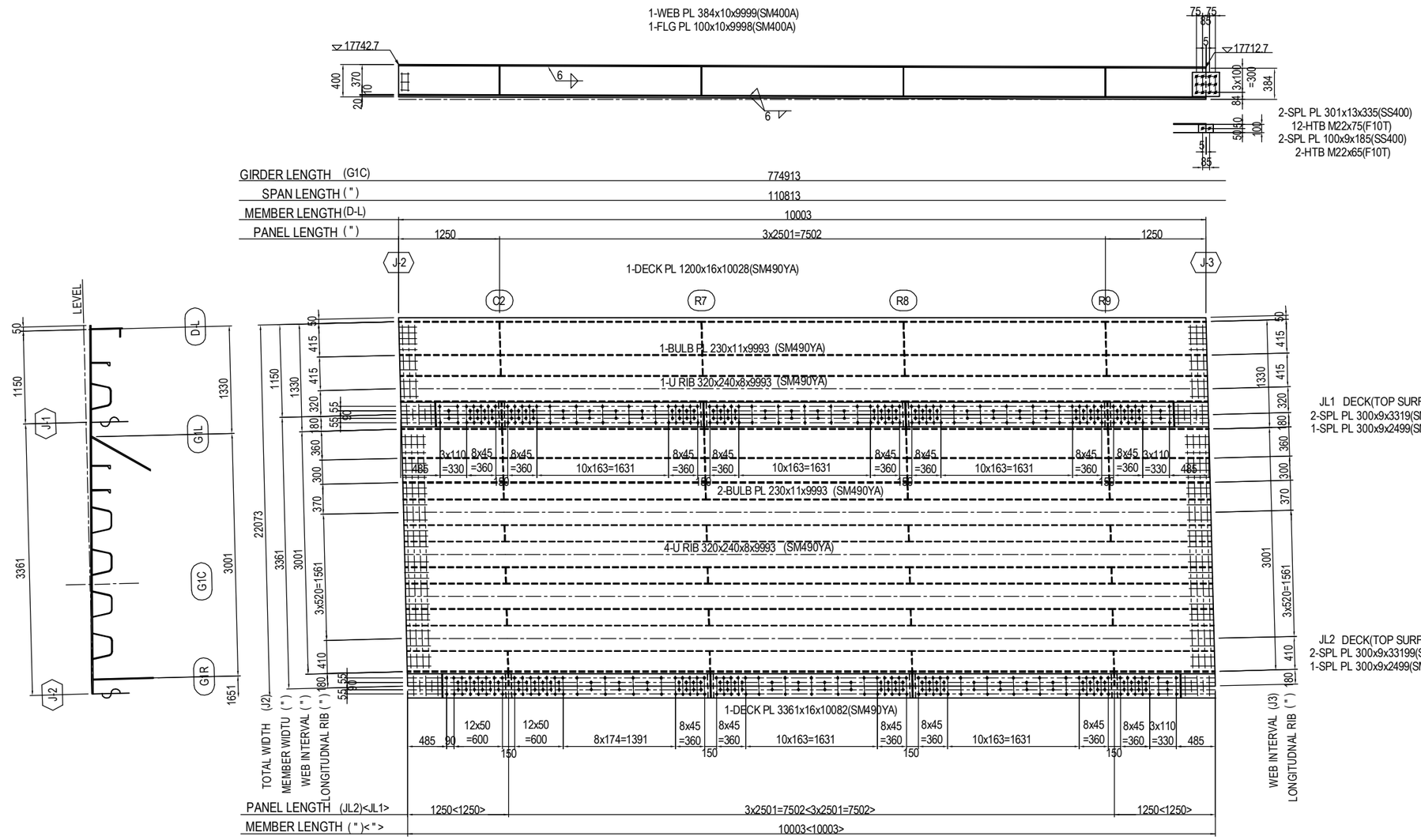


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	DRAWING TITLE: DETAIL OF DECK PLATE (2)	PACKAGE: 2
					DWG No.: P2-SB-1502

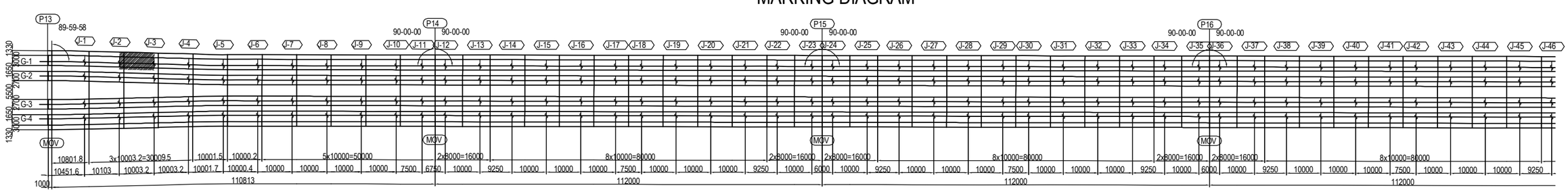
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DETAIL OF DECK PLATE (3) S=1:60

(1-3)



MARKING DIAGRAM

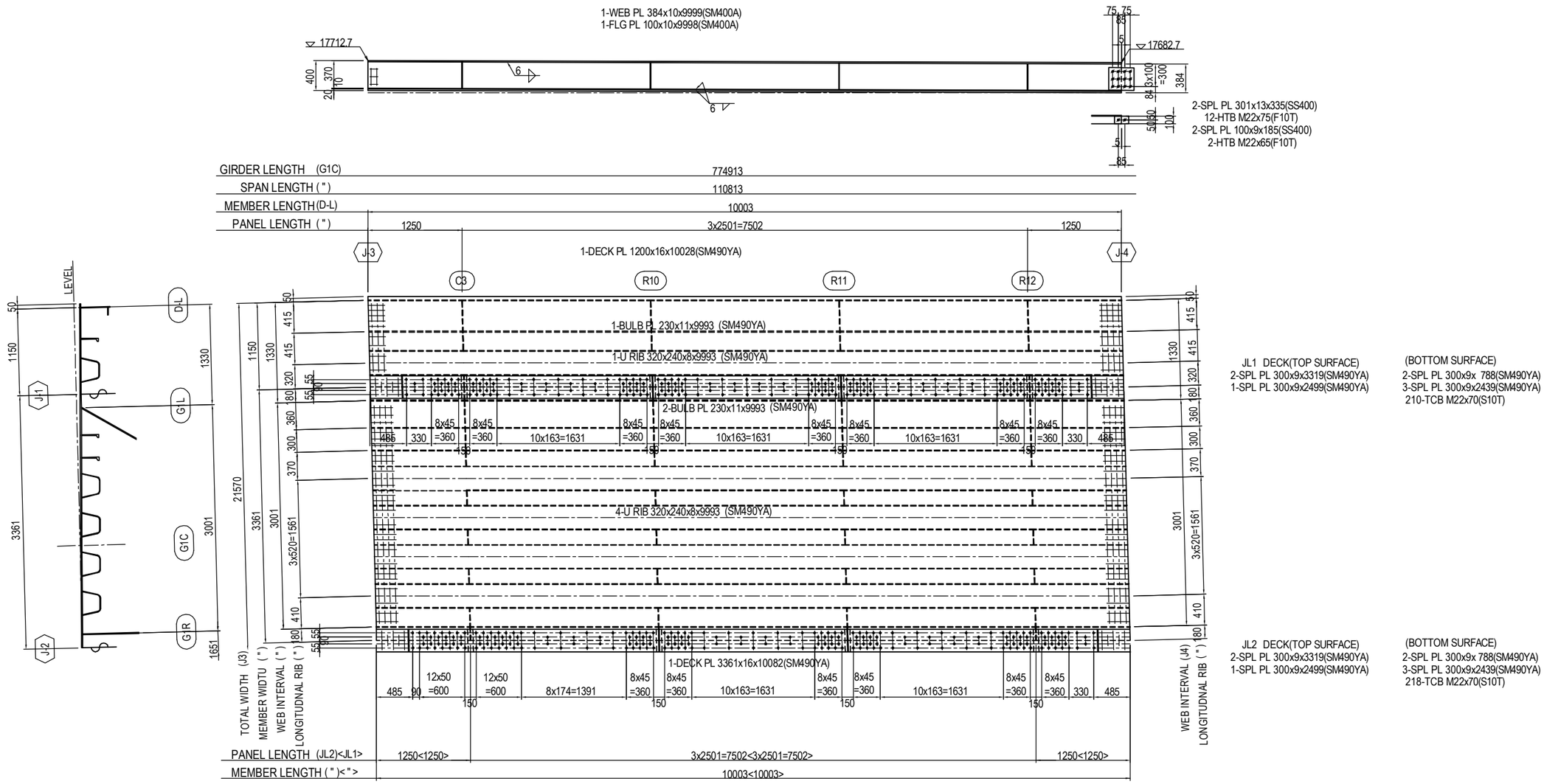


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

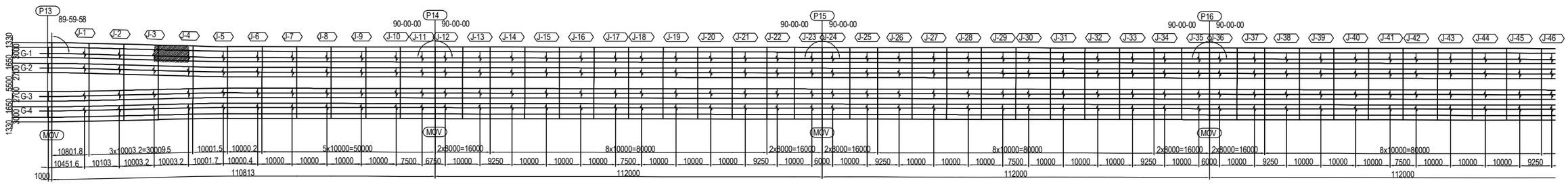
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (3)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1503

DETAIL OF DECK PLATE (4) S=1:60

(1-4)



MARKING DIAGRAM

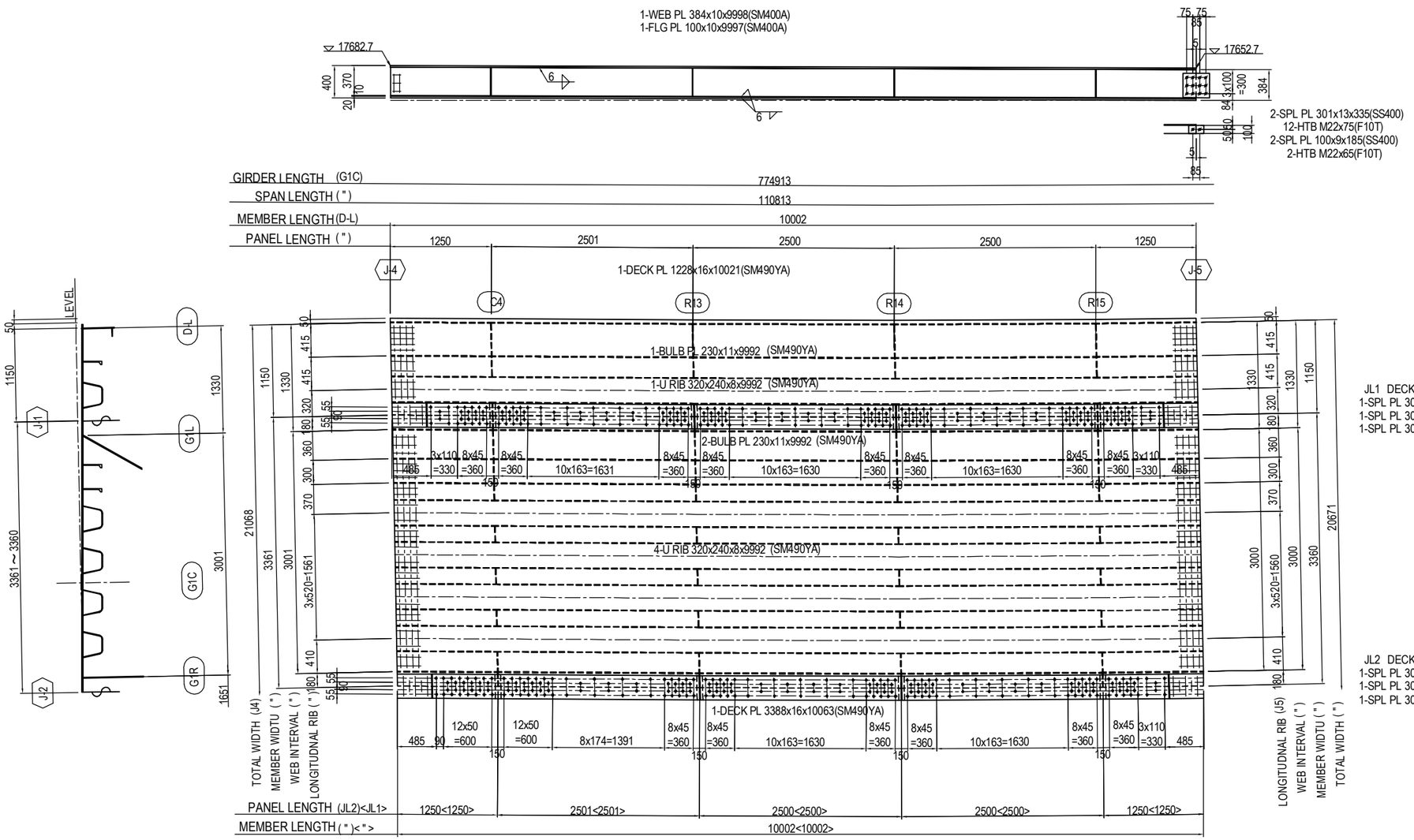


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (4)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1504

DETAIL OF DECK PLATE (5) S=1:60

(1-5)



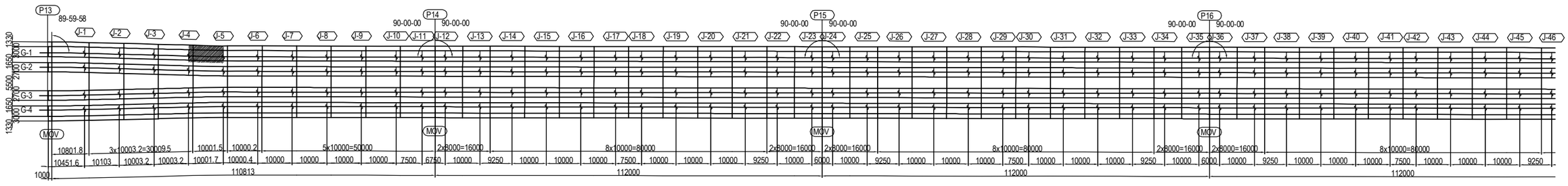
JL1 DECK(TOP SURFACE)
1-SPL PL 300x9x3317(SM490YA)
1-SPL PL 300x9x2498(SM490YA)
1-SPL PL 300x9x3317(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 786(SM490YA)
1-SPL PL 300x9x2439(SM490YA)
1-SPL PL 300x9x2438(SM490YA)
1-SPL PL 300x9x2435(SM490YA)
1-SPL PL 300x9x 786(SM490YA)
210-TCB M22x70(S10T)

JL2 DECK(TOP SURFACE)
1-SPL PL 300x9x3317(SM490YA)
1-SPL PL 300x9x2498(SM490YA)
1-SPL PL 300x9x3317(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 786(SM490YA)
1-SPL PL 300x9x2439(SM490YA)
1-SPL PL 300x9x2438(SM490YA)
1-SPL PL 300x9x2435(SM490YA)
1-SPL PL 300x9x 786(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM

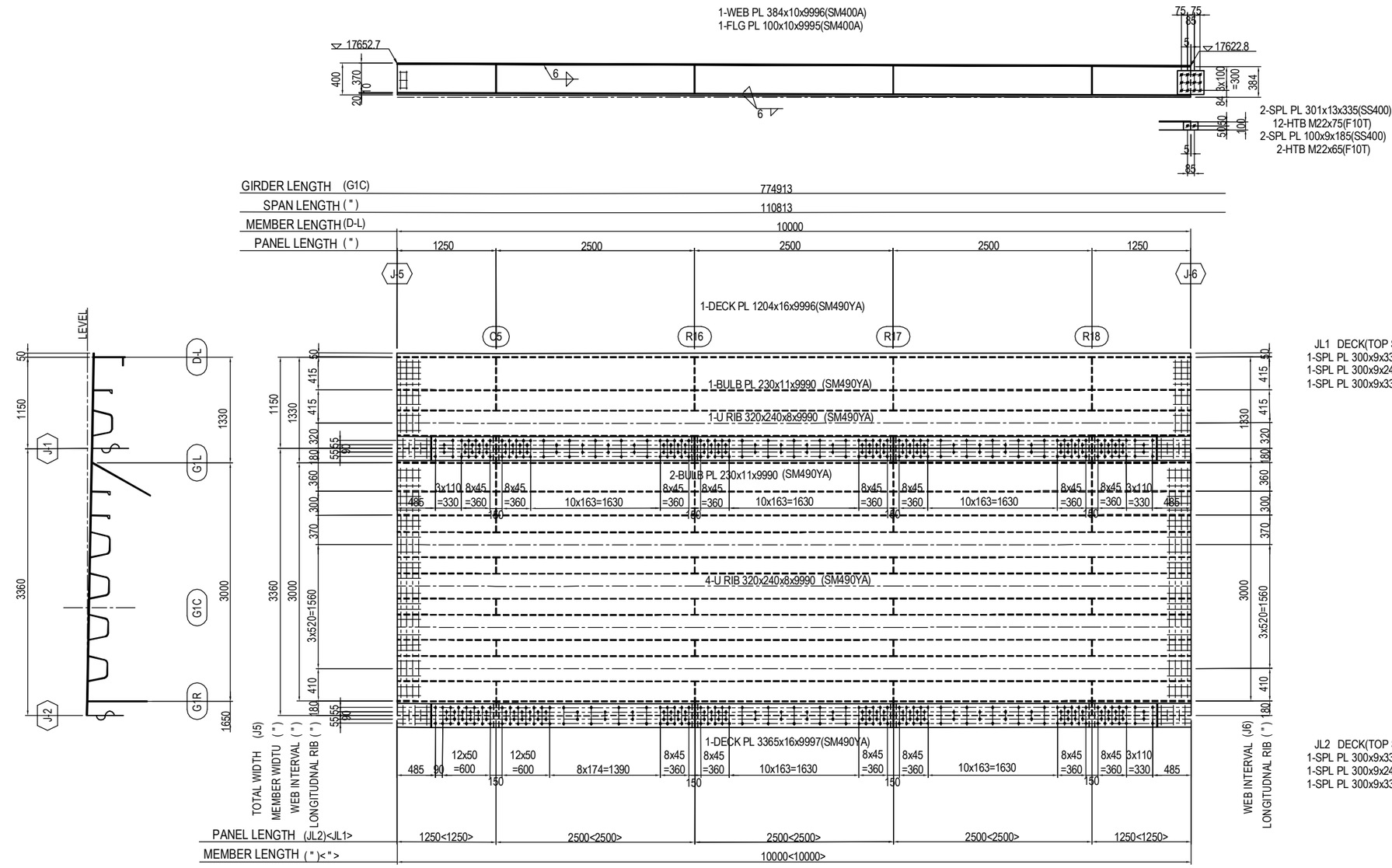


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (5)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1505

DETAIL OF DECK PLATE (6) S=1:60

(1-6)



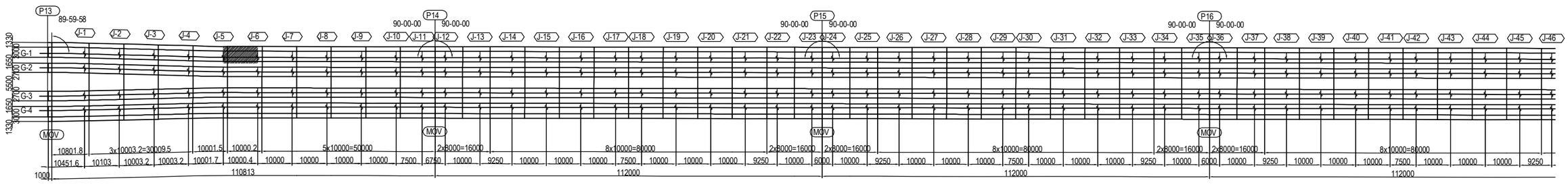
JL1 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
210-TCB M22x70(S10T)

JL2 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM

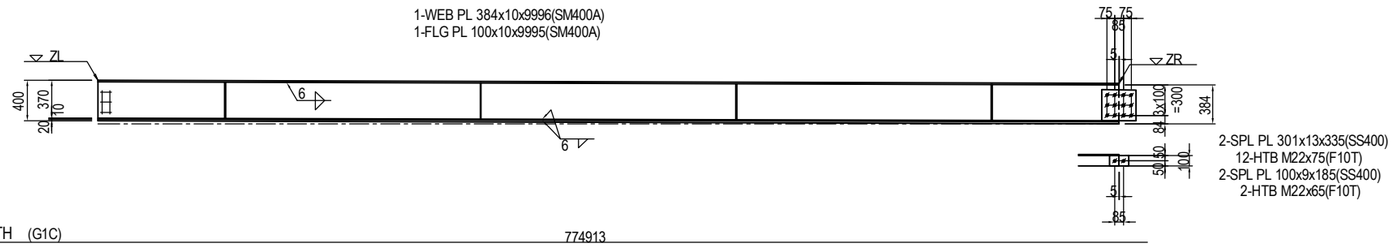


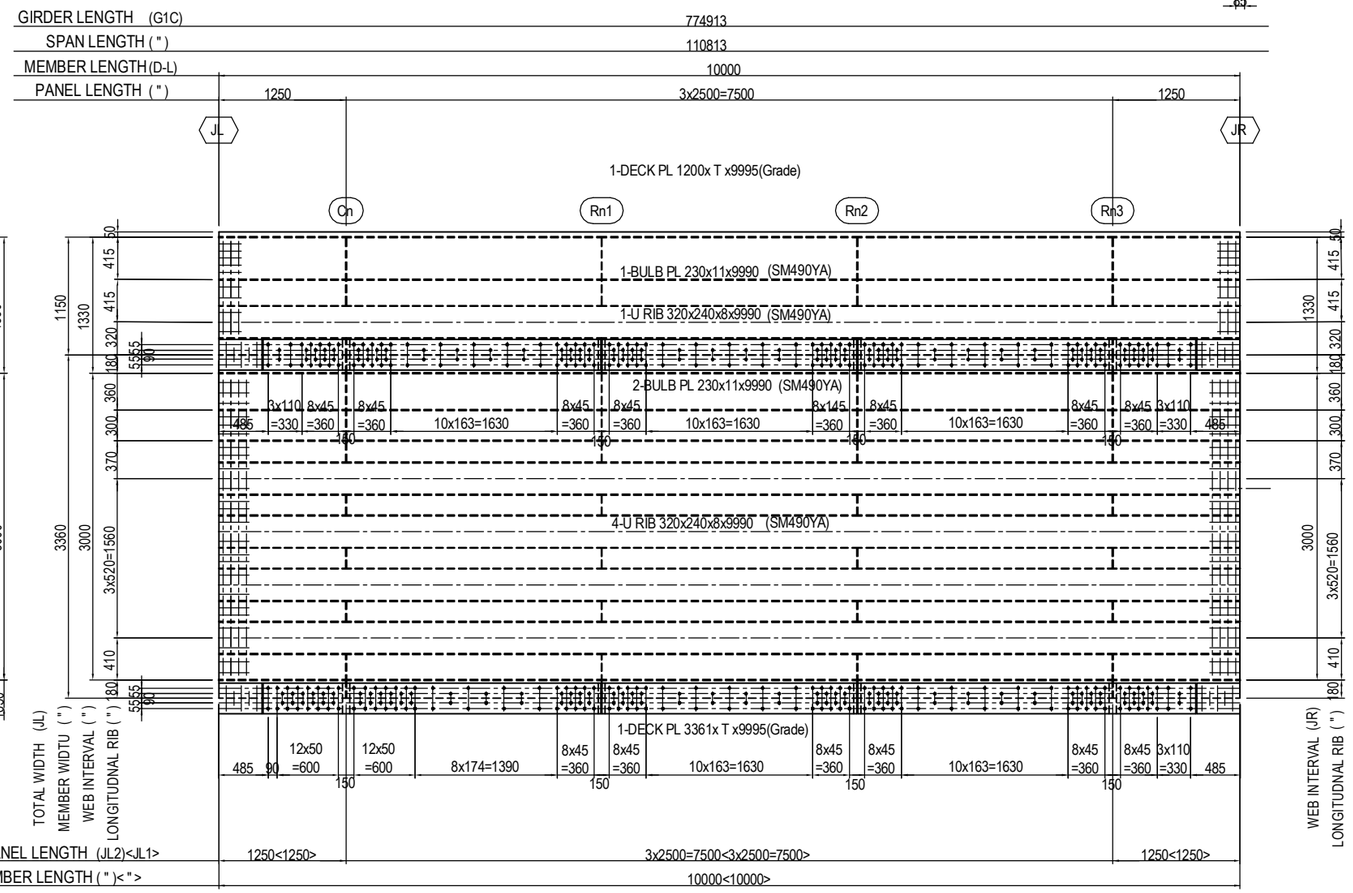
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (6)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1506

DETAIL OF DECK PLATE (7) S=1:60

(1-7,1-8,1-9,1-10)





	JL	JR	ZL	ZR	Cn	Rn1	Rn2	Rn3	T
1-7	J6	J7	17622.8	17592.8	C6	R19	R20	R21	16
1-8	J7	J8	17592.8	17562.8	C7	R22	R23	R24	16
1-9	J8	J9	17562.8	17532.8	C8	R25	R26	R27	16
1-10	J9	J10	17532.8	17502.8	C9	R28	R29	R30	22

	T	Grade	L
1-7	16	SM490YA	70
1-8	16	SM490YA	70
1-9	16	SM490YA	70
1-10	22	SM490YB	75

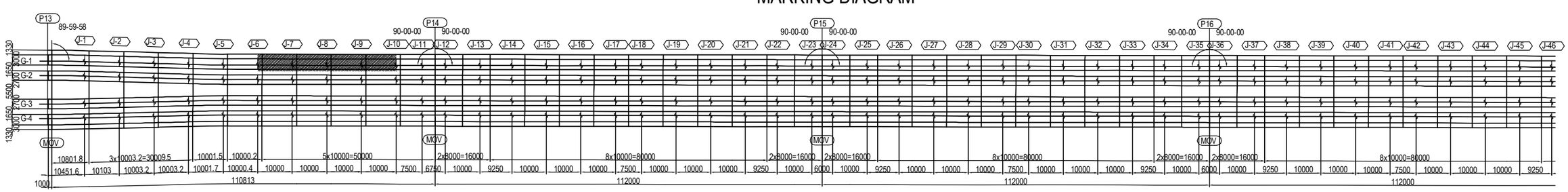
JL1 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
210-TCB M22xL(S10T)

JL2 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22xL(S10T)

MARKING DIAGRAM



PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	

DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

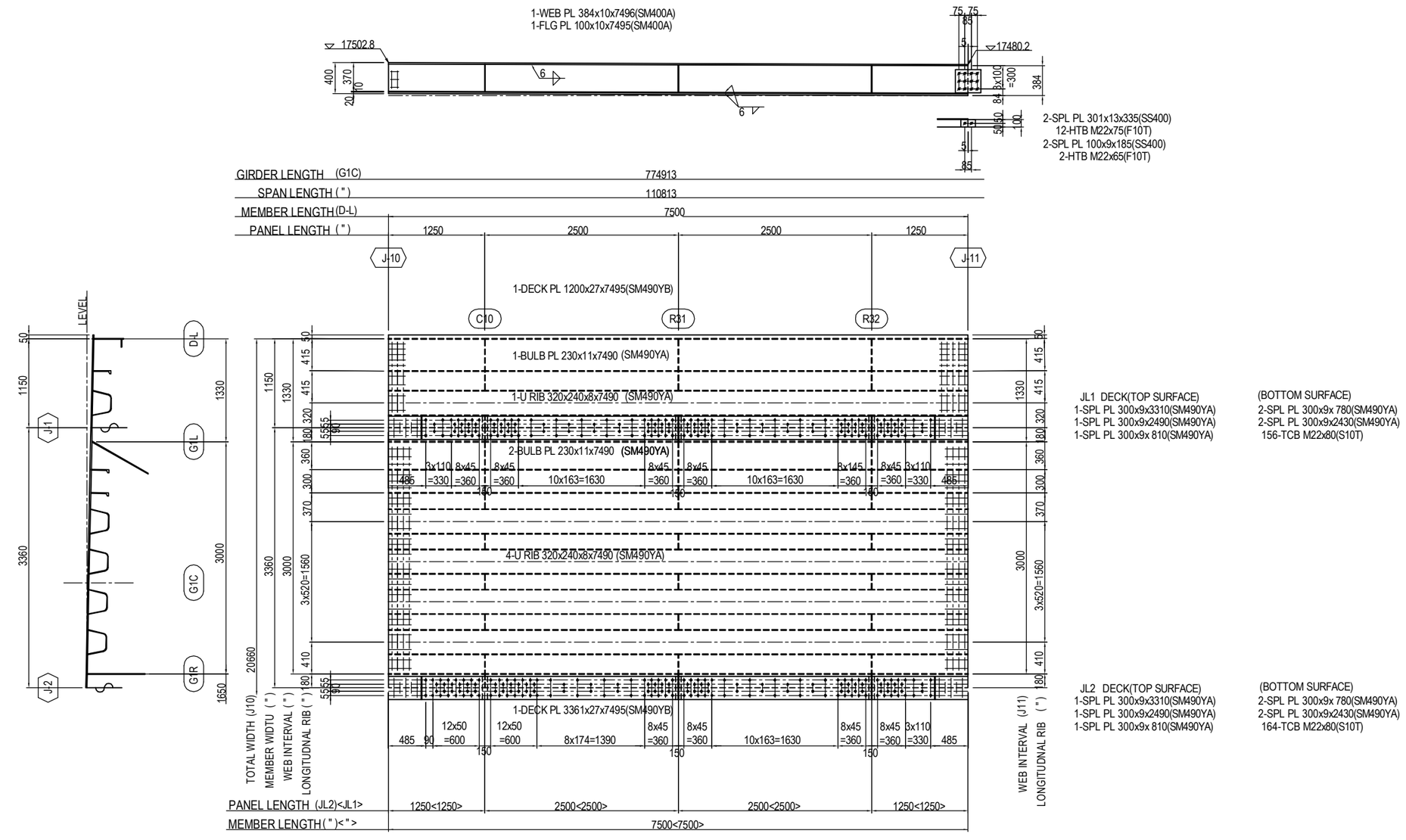
DRAWING TITLE: DETAIL OF DECK PLATE (7)

PACKAGE: 2

DWG No.: P2-SB-1507

DETAIL OF DECK PLATE (8) S=1:60

(1-11)



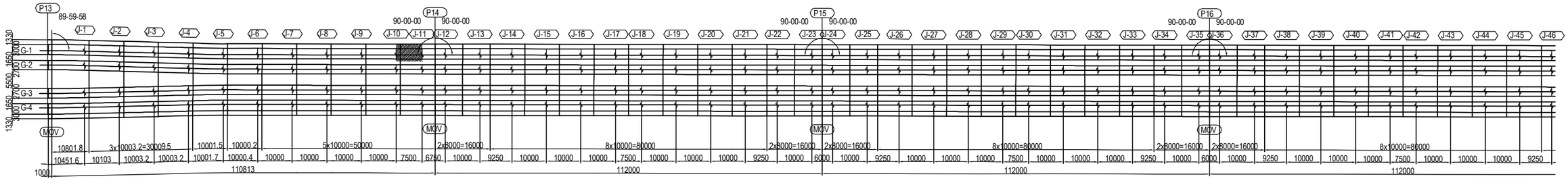
JL1 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
156-TCB M22x80(S10T)

JL2 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
164-TCB M22x80(S10T)

MARKING DIAGRAM

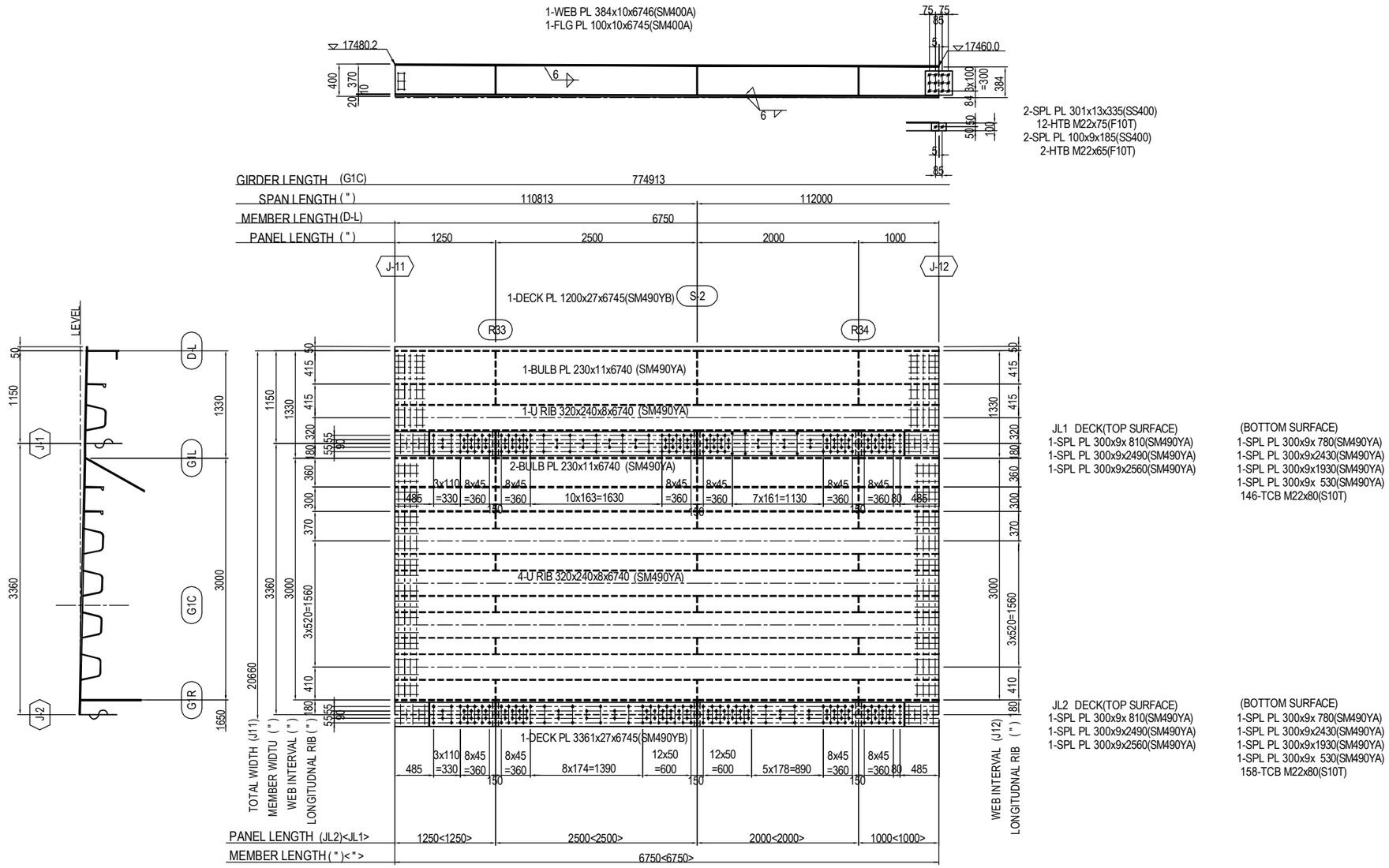


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (8)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1508

DETAIL OF DECK PLATE (9) S=1:60

(1-12)



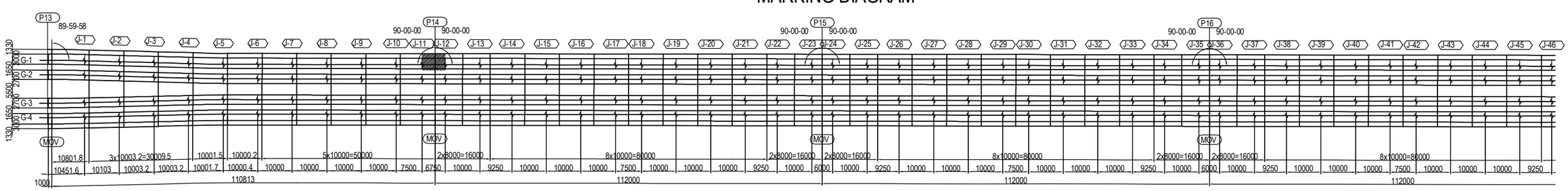
JL1 DECK(TOP SURFACE)
1-SPL PL 300x9x 810(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
1-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
146-TCB M22x80(S10T)

JL2 DECK(TOP SURFACE)
1-SPL PL 300x9x 810(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
1-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
158-TCB M22x80(S10T)

MARKING DIAGRAM

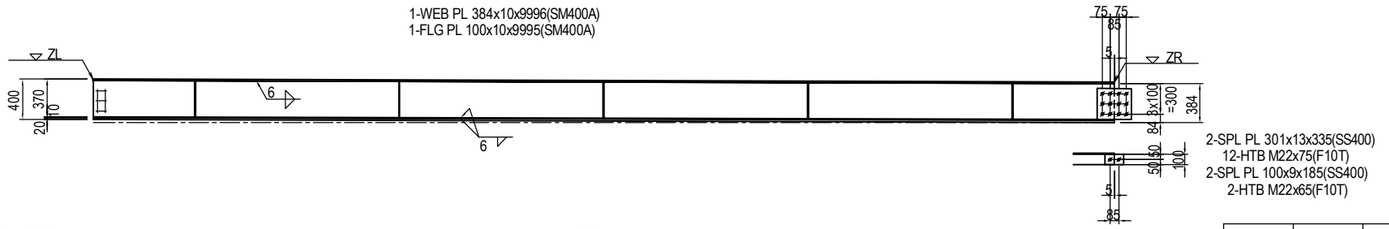


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (9)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1509

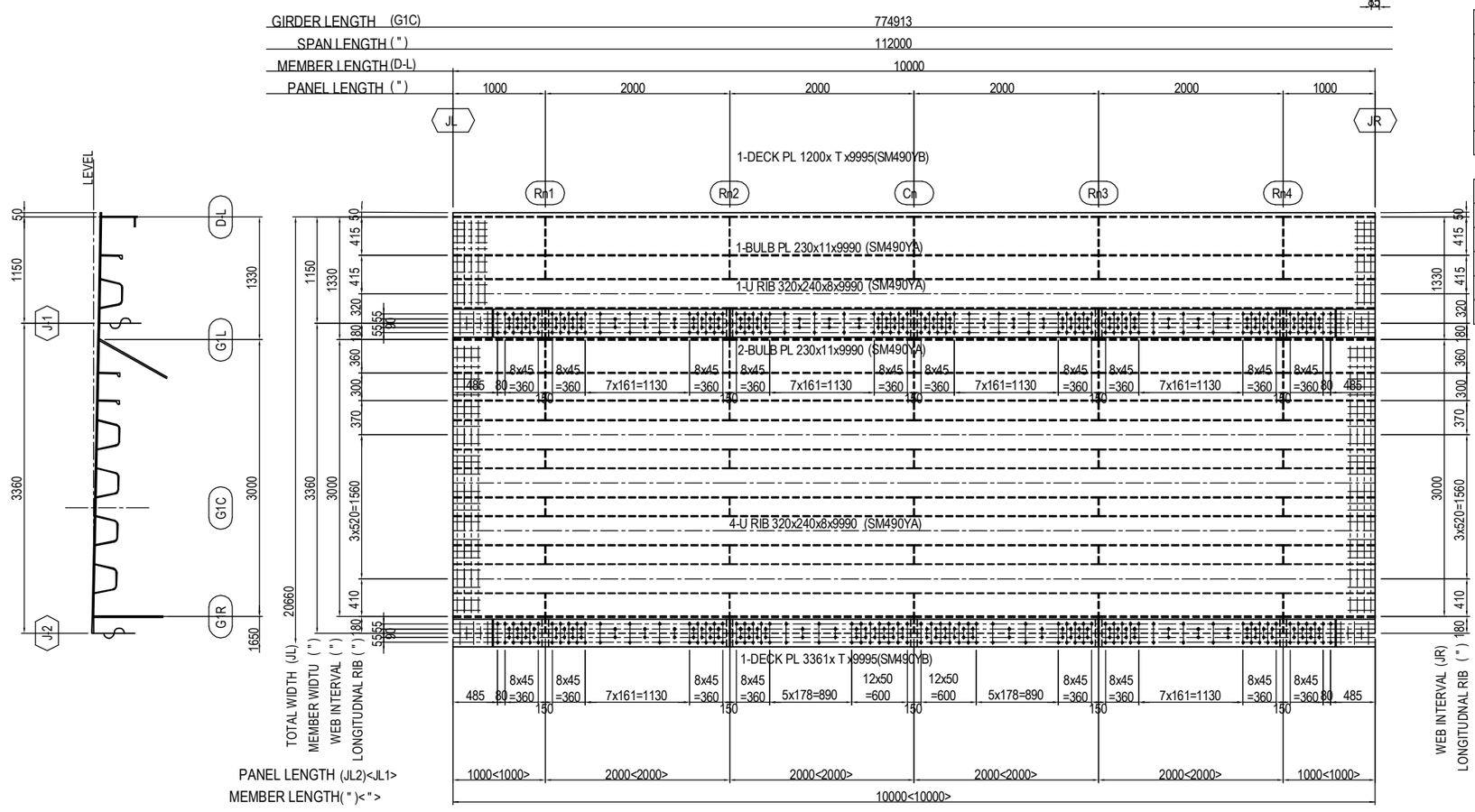
DETAIL OF DECK PLATE (10) S=1:60

(1-13,1-23,1-25,1-35,1-37)



	JL	JR	ZL	ZR	Cn	Rn1	Rn2	Rn3	Rn4
1-13	J12	J13	17460	17430	C11	R35	R36	R37	R38
1-23	J22	J23	17172	17142	C21	R65	R66	R67	R68
1-25	J24	J25	17124	17094	C22	R71	R72	R73	R74
1-35	J34	J35	16836	16806	C32	R101	R102	R103	R104
1-37	J36	J37	16788	16758	C33	R107	R108	R109	R110

	T	L
1-13	27	80
1-23	19	75
1-25	19	75
1-35	22	75
1-37	22	75



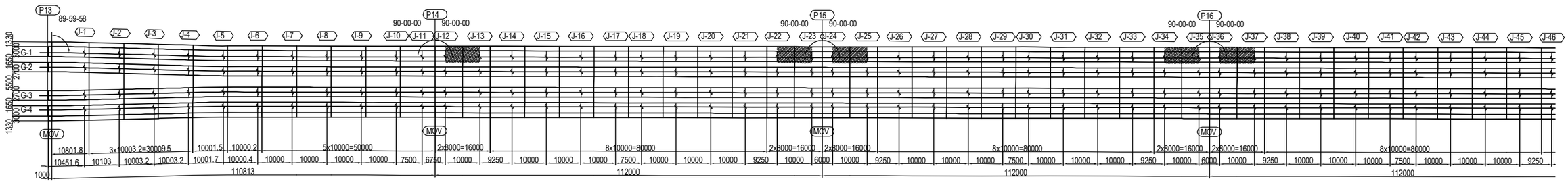
JL1 DECK(TOP SURFACE)
2-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x3990(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 530(SM490YA)
4-SPL PL 300x9x1930(SM490YA)
232-TCB M22xL(S10T)

JL2 DECK(TOP SURFACE)
2-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x3990(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 530(SM490YA)
4-SPL PL 300x9x1930(SM490YA)
240-TCB M22xL(S10T)

MARKING DIAGRAM

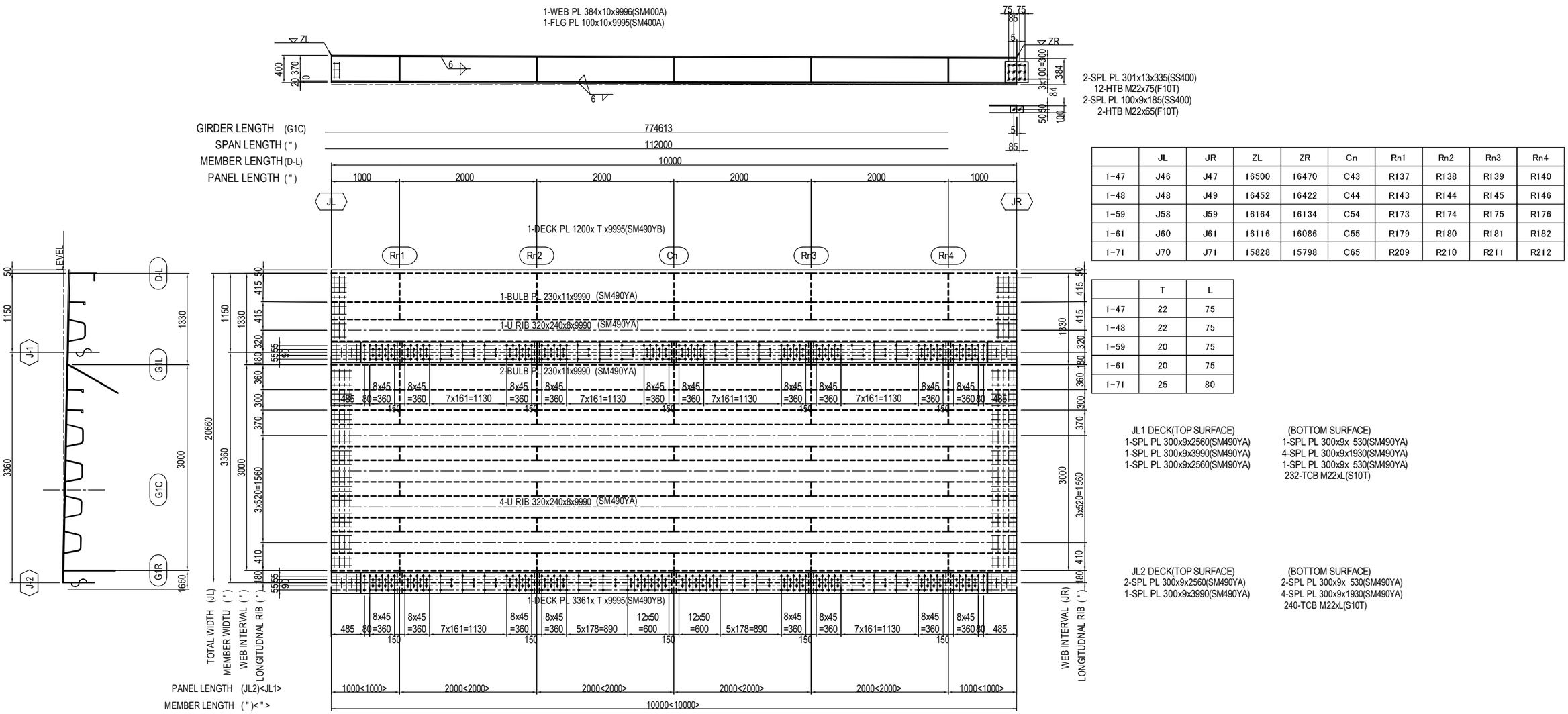


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (10)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1510

DETAIL OF DECK PLATE (11) S=1:60

(1-47,1-49,1-59,1-61,1-71)



	JL	JR	ZL	ZR	Cn	Rn1	Rn2	Rn3	Rn4
I-47	J46	J47	16500	16470	C43	R137	R138	R139	R140
I-48	J48	J49	16452	16422	C44	R143	R144	R145	R146
I-59	J58	J59	16164	16134	C54	R173	R174	R175	R176
I-61	J60	J61	16116	16086	C55	R179	R180	R181	R182
I-71	J70	J71	15828	15798	C65	R209	R210	R211	R212

	T	L
I-47	22	75
I-48	22	75
I-59	20	75
I-61	20	75
I-71	25	80

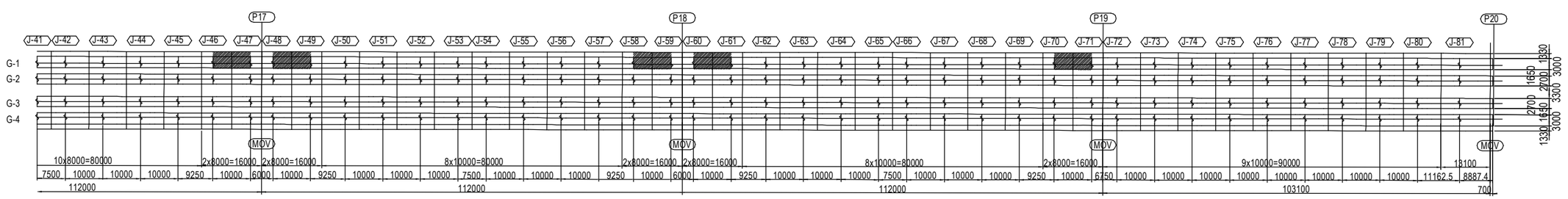
JL1 DECK(TOP SURFACE)
1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x3990(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 530(SM490YA)
4-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
232-TCB M22xL(S10T)

JL2 DECK(TOP SURFACE)
2-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x3990(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 530(SM490YA)
4-SPL PL 300x9x1930(SM490YA)
240-TCB M22xL(S10T)

MARKING DIAGRAM

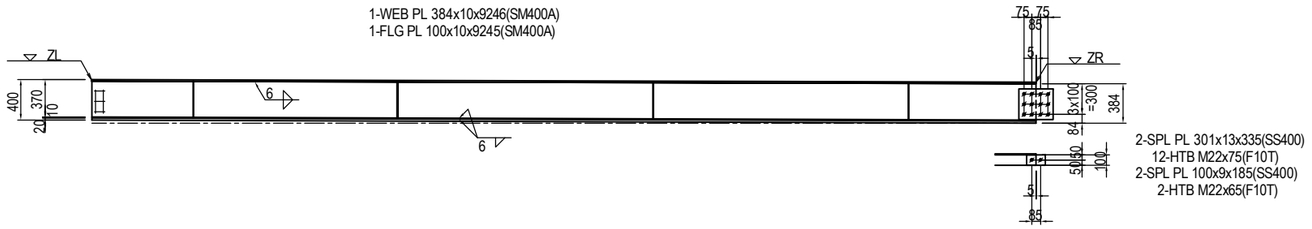


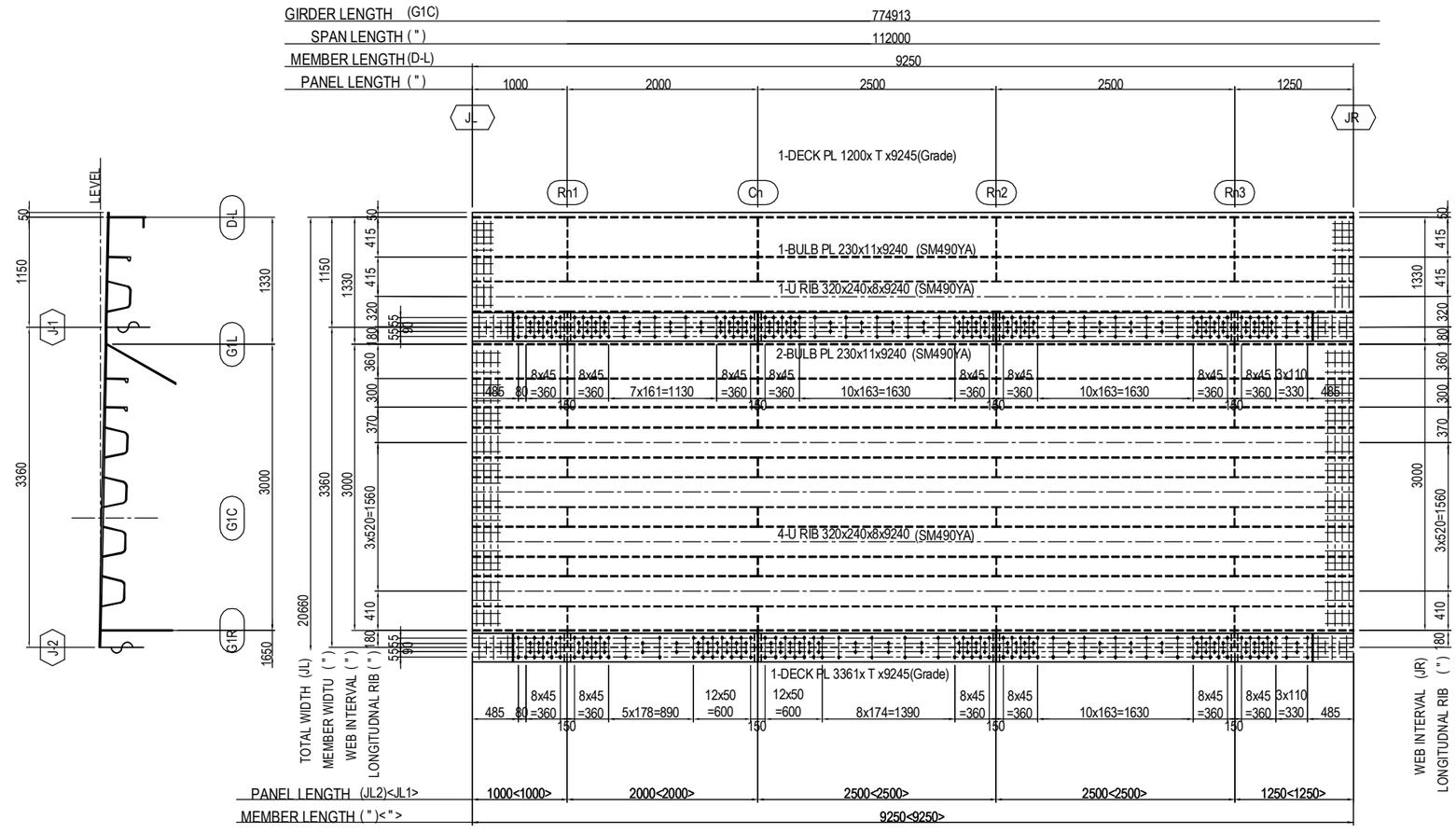
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (11)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1511

DETAIL OF DECK PLATE (12) S=1:60

(1-14,1-26,1-38)





	JL	JR	ZL	ZR	Cn	Rn1	Rn2	Rn3
I-14	J13	J14	I7430	I7402.2	C12	R39	R40	R41
I-26	J25	J26	I7094	I7066.2	C23	R75	R76	R77
I-38	J37	J38	I6758	I6730.2	C34	RIII	RII2	RII3

	T	Grade	L
I-14	22	SM490YB	75
I-26	16	SM490YA	70
I-38	16	SM490YA	70

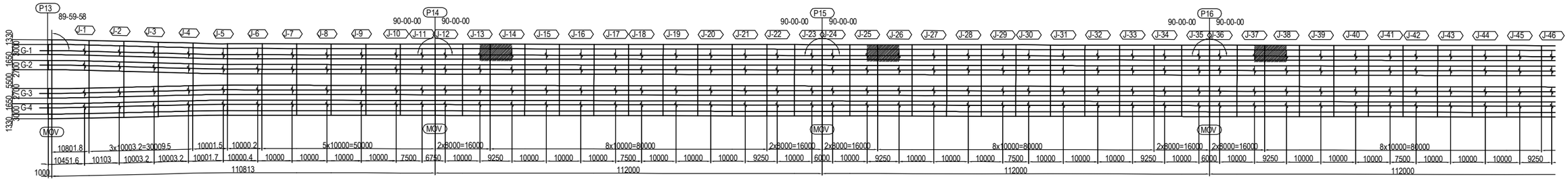
JL1 DECK(TOP SURFACE)
1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
200-TCB M22xL(S10T)

JL2 DECK(TOP SURFACE)
1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
208-TCB M22xL(S10T)

MARKING DIAGRAM



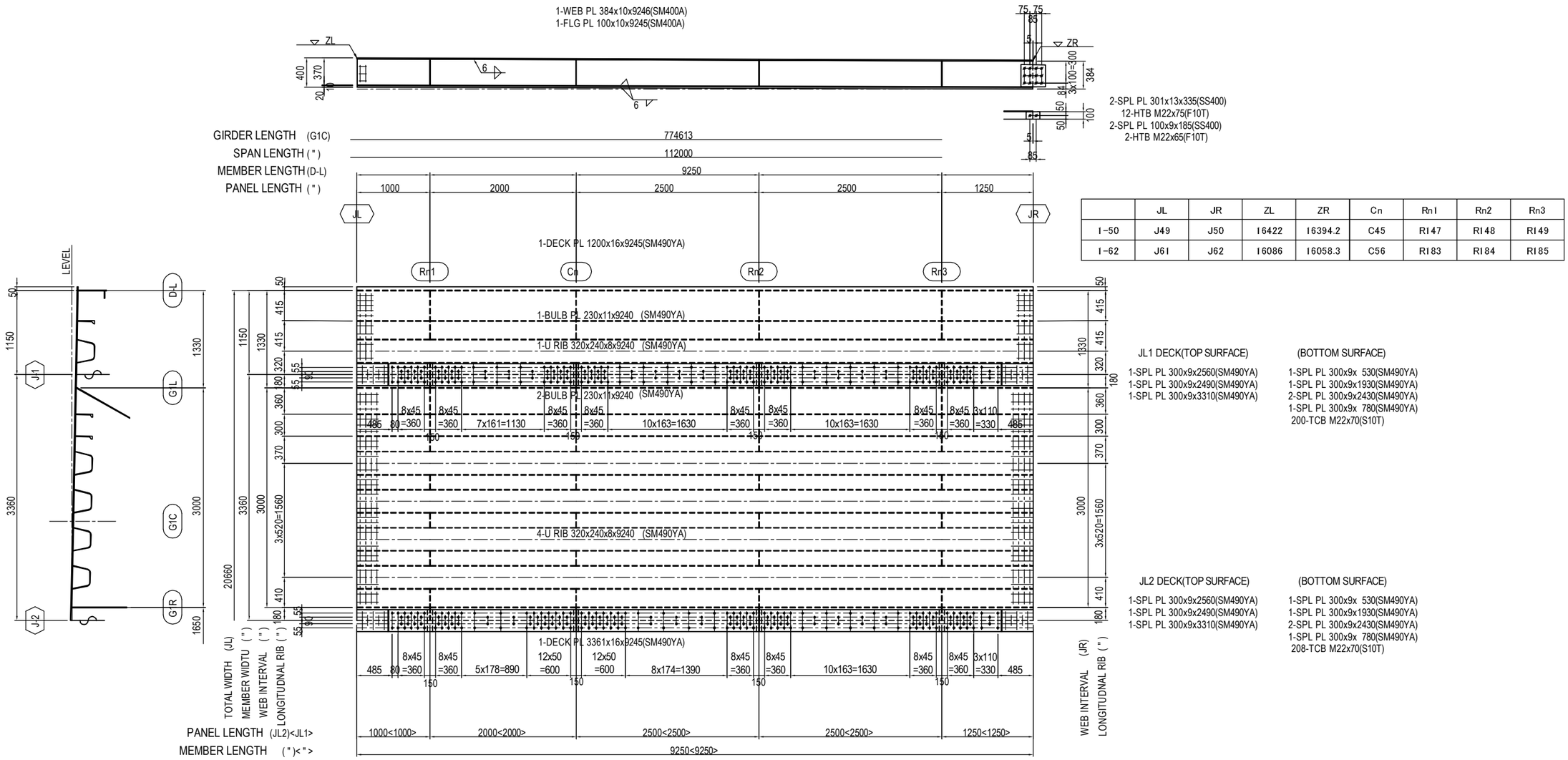
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	DRAWING TITLE: DETAIL OF DECK PLATE (12)	PACKAGE: 2

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DWG No. P2-SB-1512

DETAIL OF DECK PLATE (13) S=1:60

(1-50,1-62)



	JL	JR	ZL	ZR	Cn	Rn1	Rn2	Rn3
I-50	J49	J50	I6422	I6394.2	C45	RI47	RI48	RI49
I-62	J61	J62	I6086	I6058.3	C56	RI83	RI84	RI85

JL1 DECK(TOP SURFACE)

1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
200-TCB M22x70(S10T)

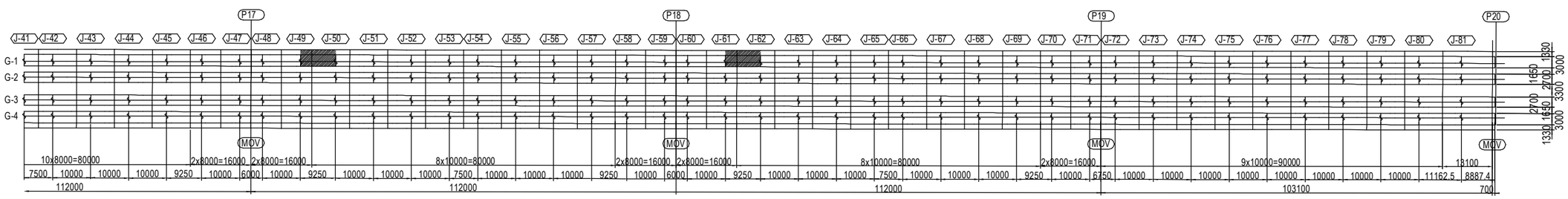
JL2 DECK(TOP SURFACE)

1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
208-TCB M22x70(S10T)

MARKING DIAGRAM



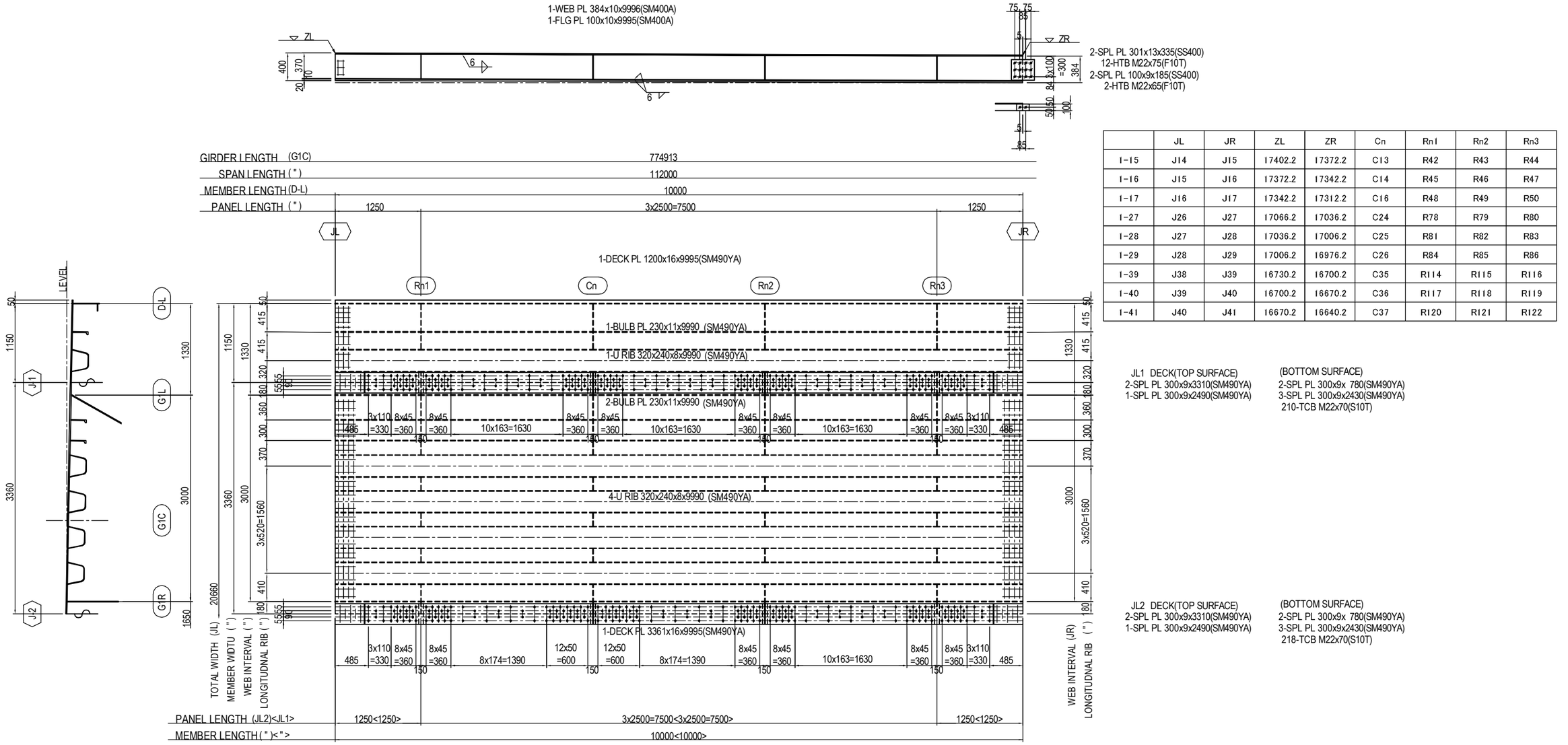
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF DECK PLATE (13)	2
	DWG No.
	P2-SB-1513

DETAIL OF DECK PLATE (14) S=1:60

(1-15,1-16,1-17,1-27,1-28,1-29,1-39,1-40,1-41)



	JL	JR	ZL	ZR	Cn	Rn1	Rn2	Rn3
1-15	J14	J15	17402.2	17372.2	C13	R42	R43	R44
1-16	J15	J16	17372.2	17342.2	C14	R45	R46	R47
1-17	J16	J17	17342.2	17312.2	C16	R48	R49	R50
1-27	J26	J27	17066.2	17036.2	C24	R78	R79	R80
1-28	J27	J28	17036.2	17006.2	C25	R81	R82	R83
1-29	J28	J29	17006.2	16976.2	C26	R84	R85	R86
1-39	J38	J39	16730.2	16700.2	C35	R114	R115	R116
1-40	J39	J40	16700.2	16670.2	C36	R117	R118	R119
1-41	J40	J41	16670.2	16640.2	C37	R120	R121	R122

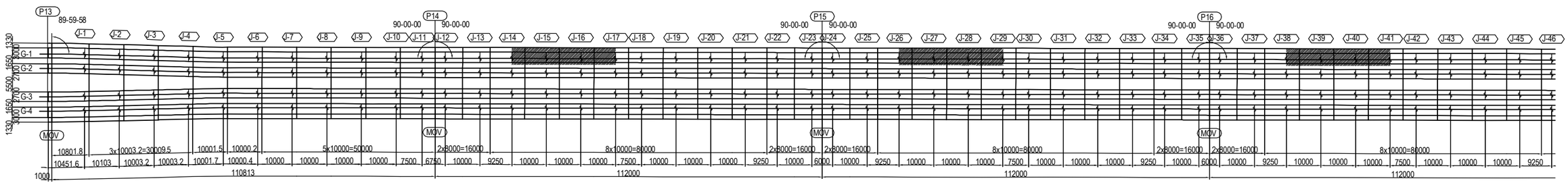
JL1 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
210-TCB M22x70(S10T)

JL2 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM



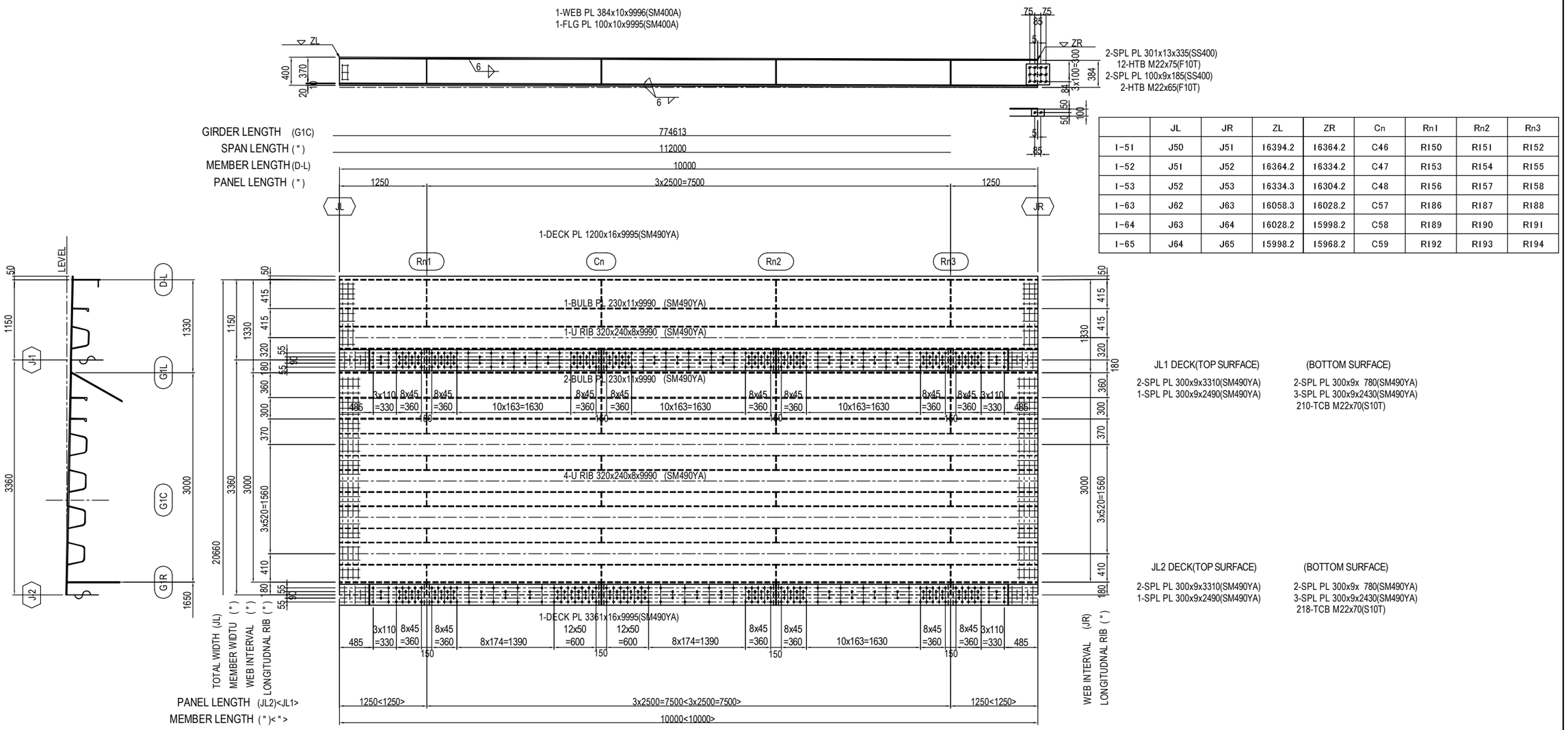
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF DECK PLATE (14)	2
	DWG No.
	P2-SB-1514

DETAIL OF DECK PLATE (15) S=1:60

(1-51,1-52,1-53,1-63,1-64,1-65)



	JL	JR	ZL	ZR	Cn	Rn1	Rn2	Rn3
I-51	J50	J51	I6394.2	I6364.2	C46	R150	R151	R152
I-52	J51	J52	I6364.2	I6334.2	C47	R153	R154	R155
I-53	J52	J53	I6334.3	I6304.2	C48	R156	R157	R158
I-63	J62	J63	I6058.3	I6028.2	C57	R186	R187	R188
I-64	J63	J64	I6028.2	I5998.2	C58	R189	R190	R191
I-65	J64	J65	I5998.2	I5968.2	C59	R192	R193	R194

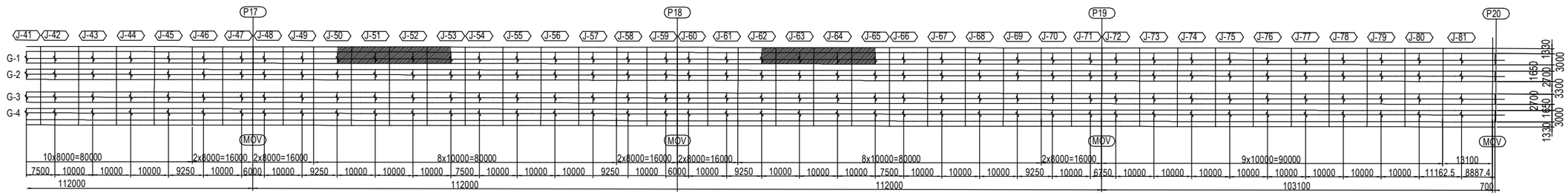
JL1 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
210-TCB M22x70(S10T)

JL2 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM



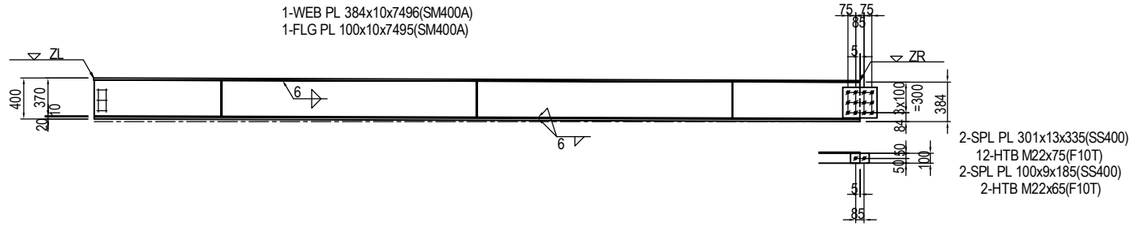
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

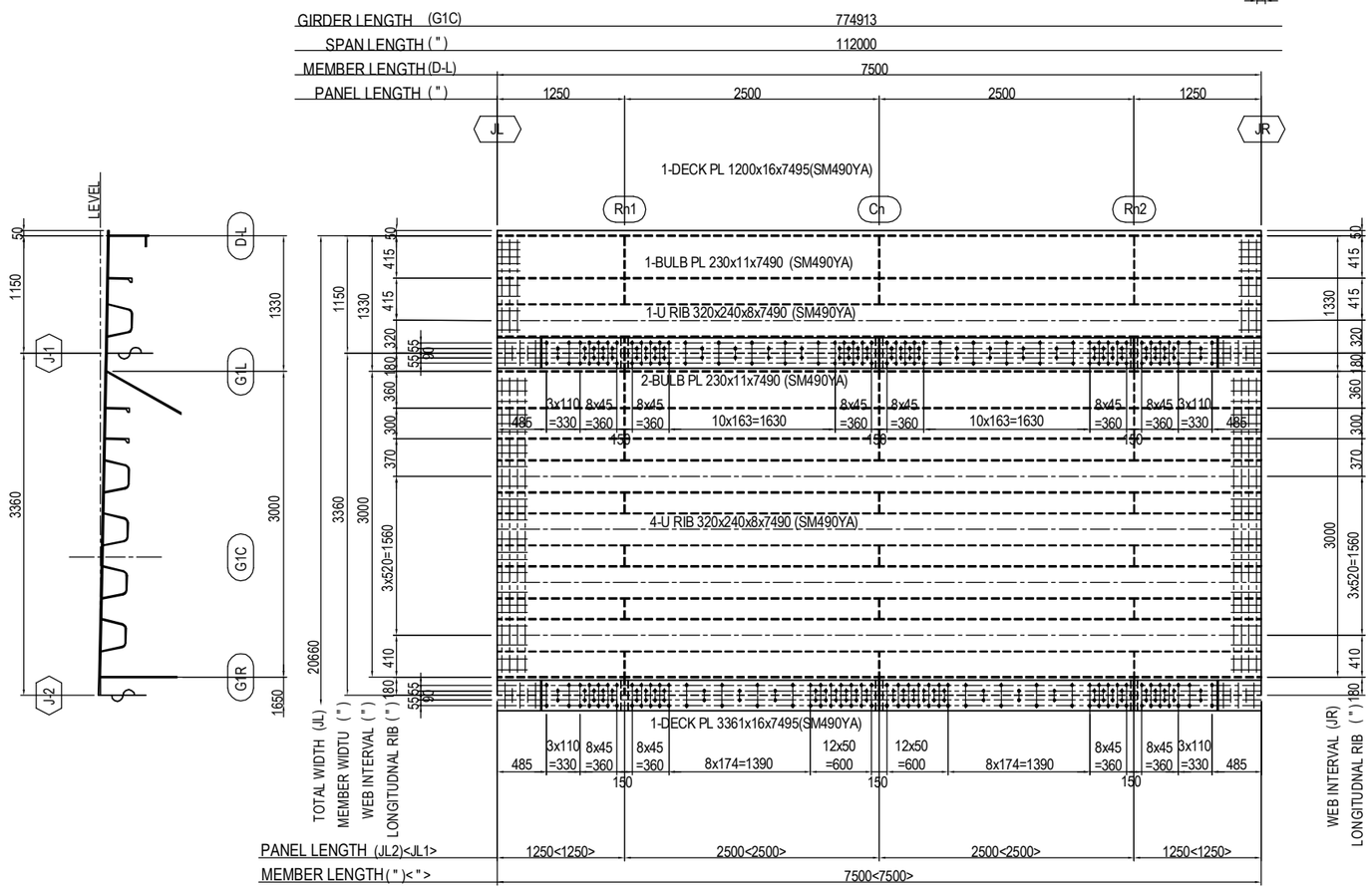
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF DECK PLATE (15)	2
	DWG No.
	P2-SB-1515

DETAIL OF DECK PLATE (16) S=1:60

(1-18,1-30,1-42)





	JL	JR	ZL	ZR	Cn	Rn1	Rn2
1-18	J17	J18	17312.2	17289.8	C16	R51	R52
1-30	J29	J30	16976.2	16953.8	C27	R87	R88
1-42	J41	J42	16640.2	16617.8	C38	R123	R124

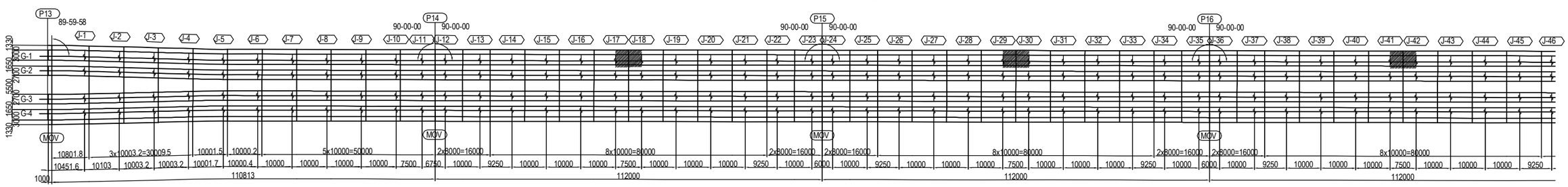
JL1 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
156-TCB M22x70(S10T)

JL2 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
164-TCB M22x70(S10T)

MARKING DIAGRAM

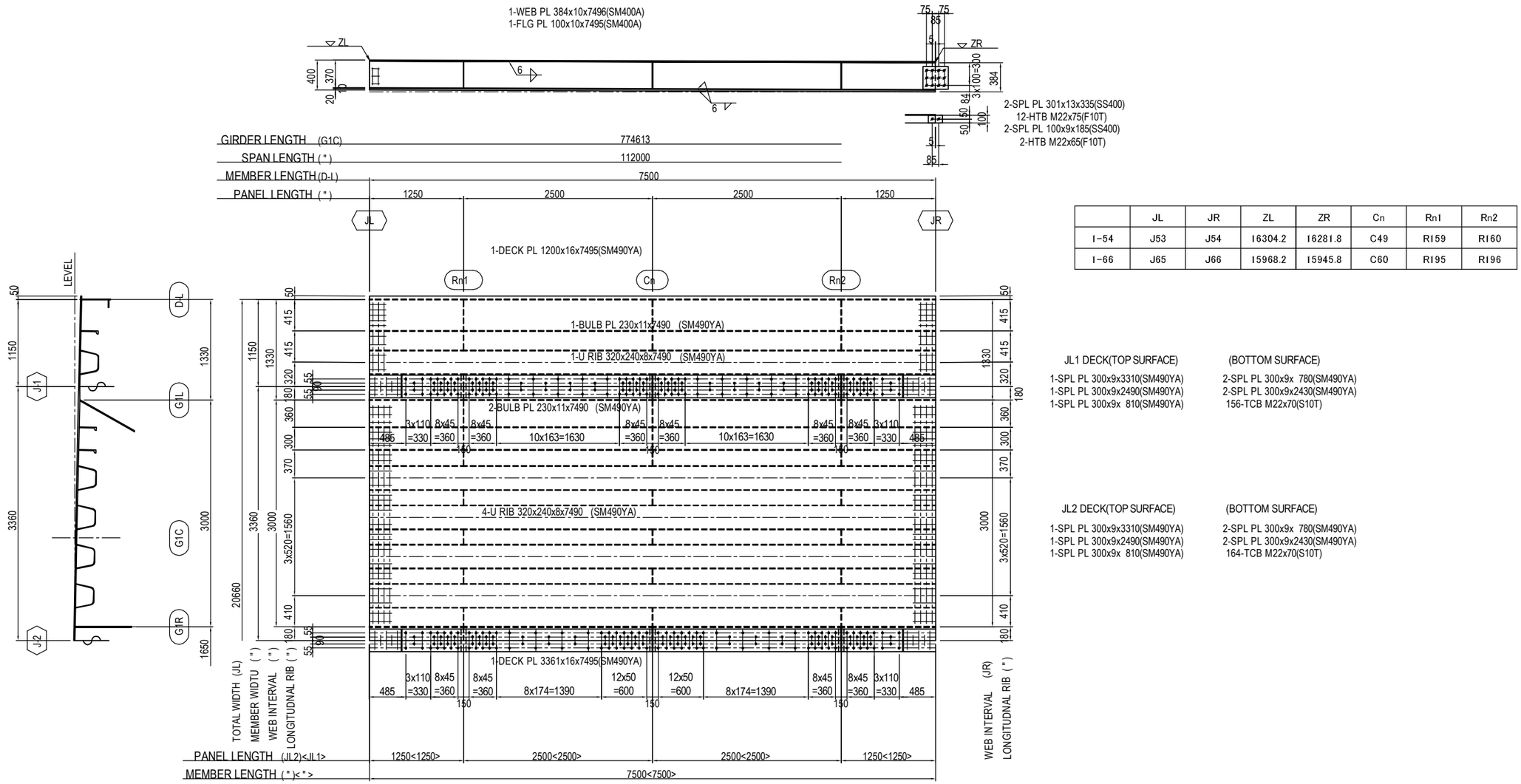


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (16)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1516

DETAIL OF DECK PLATE (17) S=1:60

(1-54,1-66)



	JL	JR	ZL	ZR	Cn	Rn1	Rn2
1-54	J53	J54	16304.2	16281.8	C49	R159	R160
1-66	J65	J66	15968.2	15945.8	C60	R195	R196

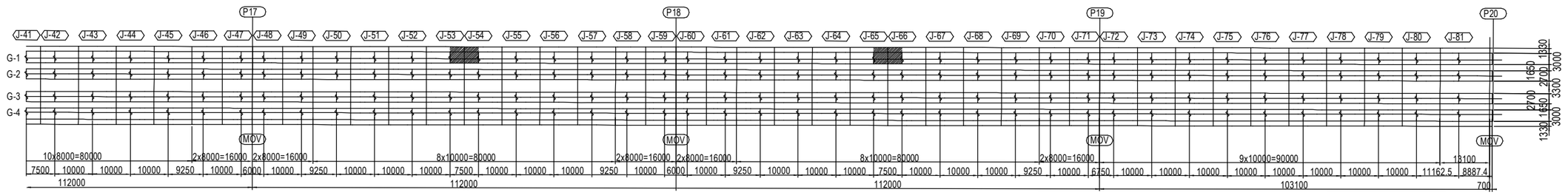
JL1 DECK(TOP SURFACE) (BOTTOM SURFACE)

1-SPL PL 300x9x3310(SM490YA) 2-SPL PL 300x9x 780(SM490YA)
1-SPL PL 300x9x2490(SM490YA) 2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 810(SM490YA) 156-TCB M22x70(S10T)

JL2 DECK(TOP SURFACE) (BOTTOM SURFACE)

1-SPL PL 300x9x3310(SM490YA) 2-SPL PL 300x9x 780(SM490YA)
1-SPL PL 300x9x2490(SM490YA) 2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 810(SM490YA) 164-TCB M22x70(S10T)

MARKING DIAGRAM

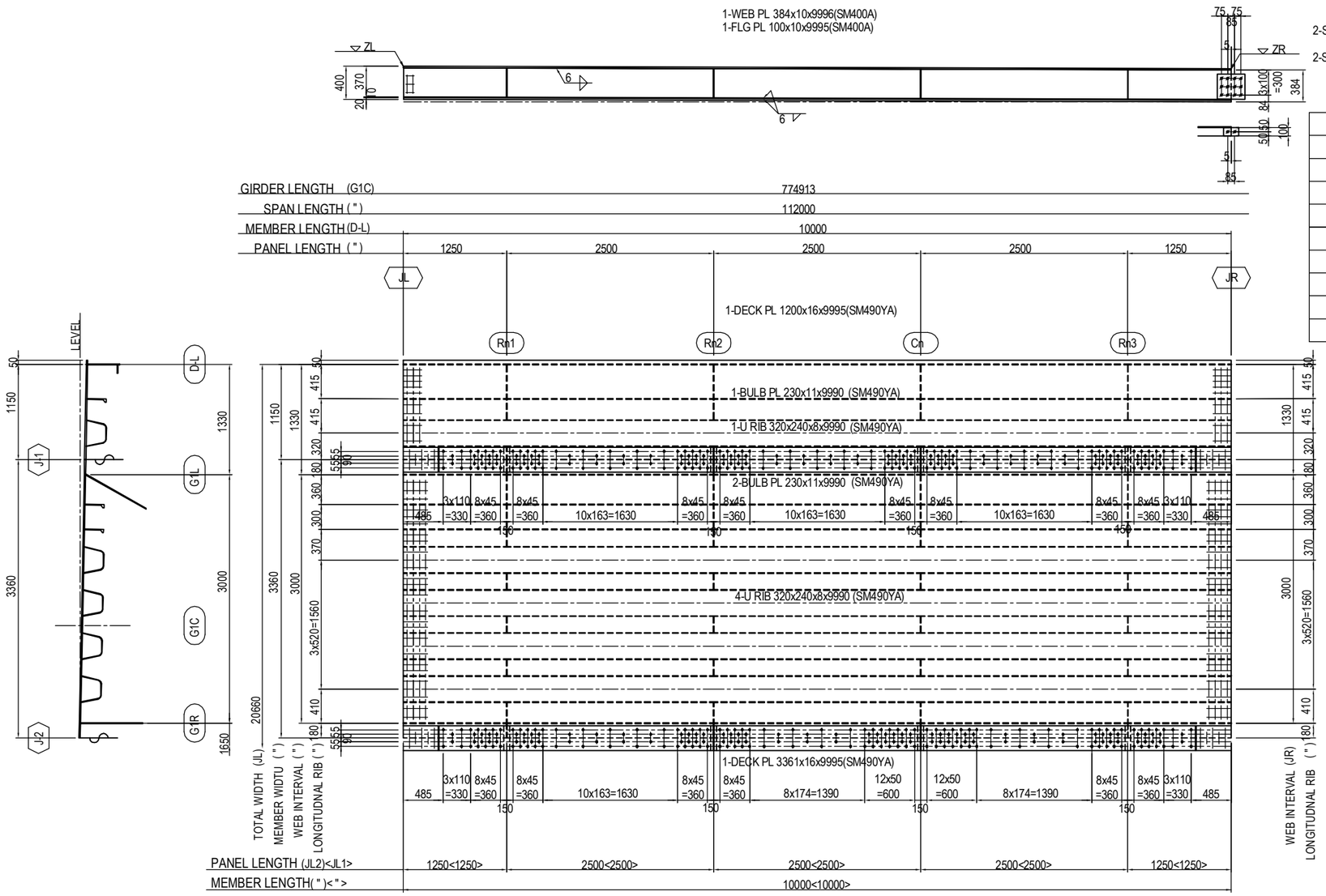


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (17)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1517

DETAIL OF DECK PLATE (18) S=1:60

(1-19,1-20,1-21,1-31,1-32,1-33,1-43,1-44,1-45)



	JL	JR	ZL	ZR	Cn	Rn1	Rn2	Rn3
1-19	J18	J19	17289.8	17259.8	C17	R53	R54	R55
1-20	J19	J20	17259.8	17229.8	C18	R56	R57	R58
1-21	J20	J21	17229.8	17199.8	C19	R59	R60	R61
1-31	J30	J31	16953.8	16923.8	C28	R89	R90	R91
1-32	J31	J32	16923.8	16893.8	C29	R92	R93	R94
1-33	J32	J33	16893.8	1686.38	C30	R95	R96	R97
1-43	J42	J43	16617.8	16587.8	C39	R125	R126	R127
1-44	J43	J44	16587.8	16557.8	C40	R128	R129	R130
1-45	J44	J45	16557.8	16527.8	C41	R131	R132	R133

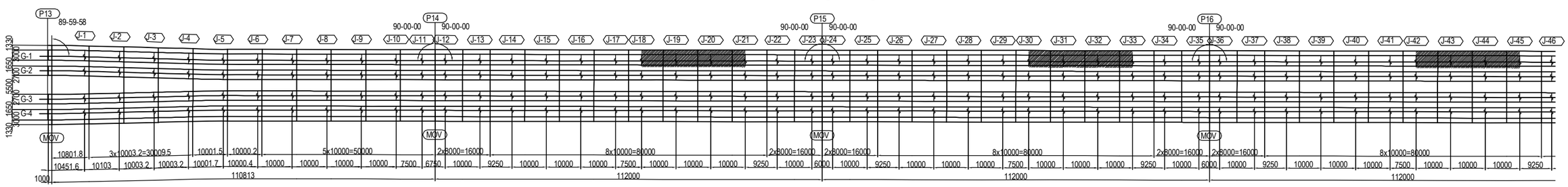
JL1 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
210-TCB M22x70(S10T)

JL2 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM

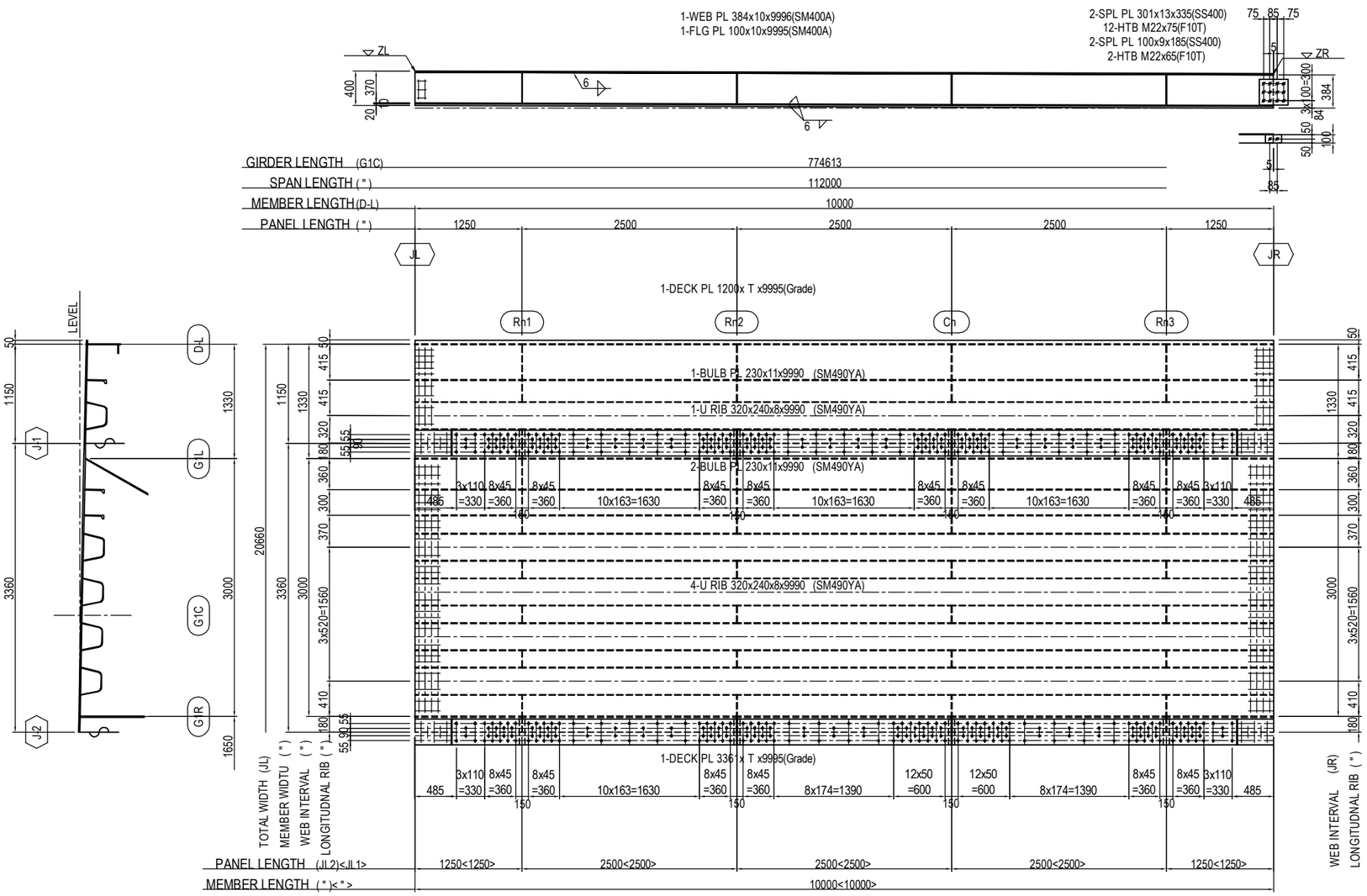


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (18)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1518

DETAIL OF DECK PLATE (19) S=1:60

(1-55,1-56,1-57,1-67,1-68,1-69,1-73,1-74,1-75,1-76,1-77,1-78,1-79,1-80)



	JL	JR	ZL	ZR	Cn	Rn1	Rn2	Rn3
I-55	J54	J55	16281.8	16251.8	C50	R161	R162	R163
I-56	J55	J56	16251.8	16221.8	C51	R164	R165	R166
I-57	J56	J57	16221.8	16191.8	C52	R167	R168	R169
I-67	J66	J67	15945.8	15915.8	C61	R197	R198	R199
I-68	J67	J68	15915.8	15885.8	C62	R200	R201	R202
I-69	J68	J69	15885.8	15855.8	C63	R203	R204	R205
I-73	J72	J73	15777.8	15747.8	C66	R215	R216	R217
I-74	J73	J74	15747.8	15717.8	C67	R218	R219	R220
I-75	J74	J75	15717.8	15687.8	C68	R221	R222	R223
I-76	J75	J76	15687.8	15657.8	C69	R224	R225	R226
I-77	J76	J77	15657.8	15627.8	C70	R227	R228	R229
I-78	J77	J78	15627.8	15594.4	C71	R230	R231	R232
I-79	J78	J79	15594.4	15550.4	C72	R233	R234	R235
I-80	J79	J80	15550.4	15495.4	C73	R236	R237	R238

	T	Grade	L
I-55	16	SM490YA	70
I-56	16	SM490YA	70
I-57	16	SM490YA	70
I-67	16	SM490YA	70
I-68	16	SM490YA	70
I-69	16	SM490YA	70
I-73	25	SM490YB	80
I-74	16	SM490YA	70
I-75	16	SM490YA	70
I-76	16	SM490YA	70
I-77	16	SM490YA	70
I-78	16	SM490YA	70
I-79	16	SM490YA	70
I-80	16	SM490YA	70

JL1 DECK(TOP SURFACE)

2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)

2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
210-TCB M22xL(S10T)

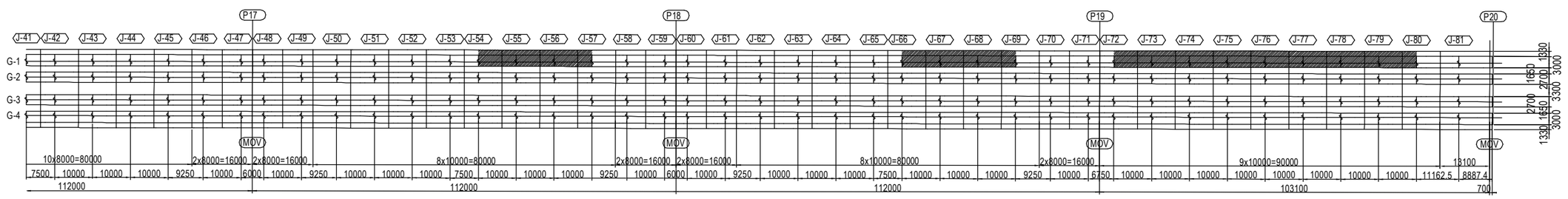
JL2 DECK(TOP SURFACE)

2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)

2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22xL(S10T)

MARKING DIAGRAM



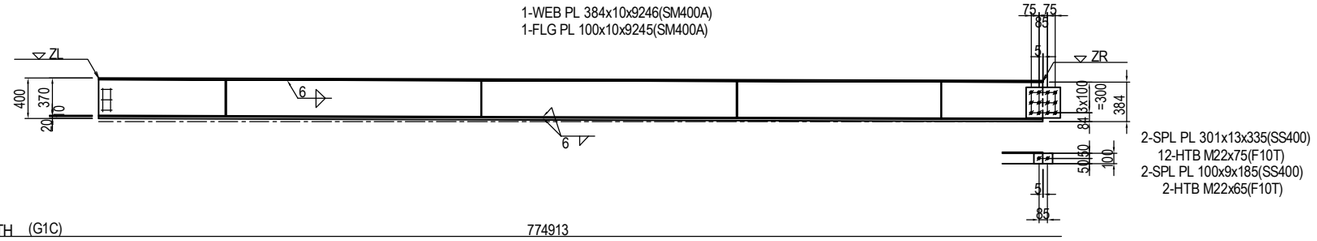
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

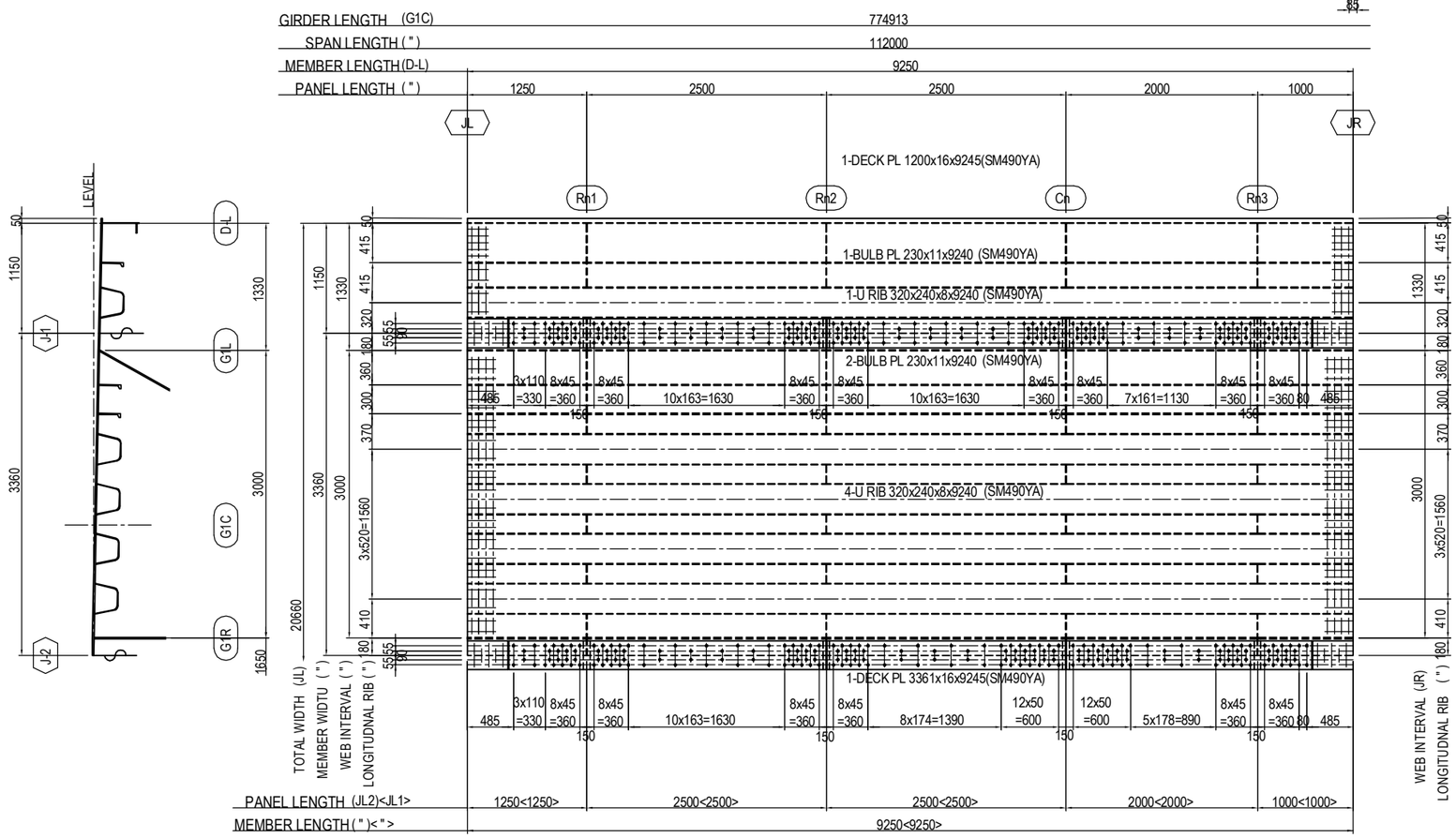
DRAWING TITLE	PACKAGE
DETAIL OF DECK PLATE (19)	2
	DWG No.
	P2-SB-1519

DETAIL OF DECK PLATE (20) S=1:60

(1-22,1-34,1-46)



	JL	JR	ZL	ZR	Cn	Rn1	Rn2	Rn3
1-22	J21	J22	17199.8	17172	C20	R62	R63	R64
1-34	J33	J34	16863.8	16836	C31	R98	R99	R100
1-46	J45	J46	16527.8	16500	C42	R134	R135	R136



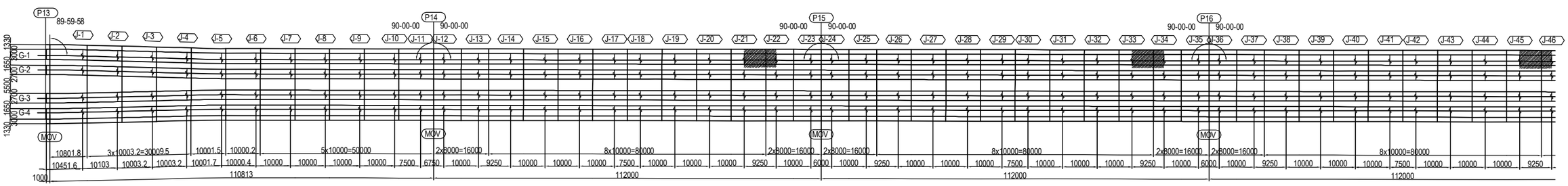
JL1 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
200-TCB M22x70(S10T)

JL2 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
208-TCB M22x70(S10T)

MARKING DIAGRAM

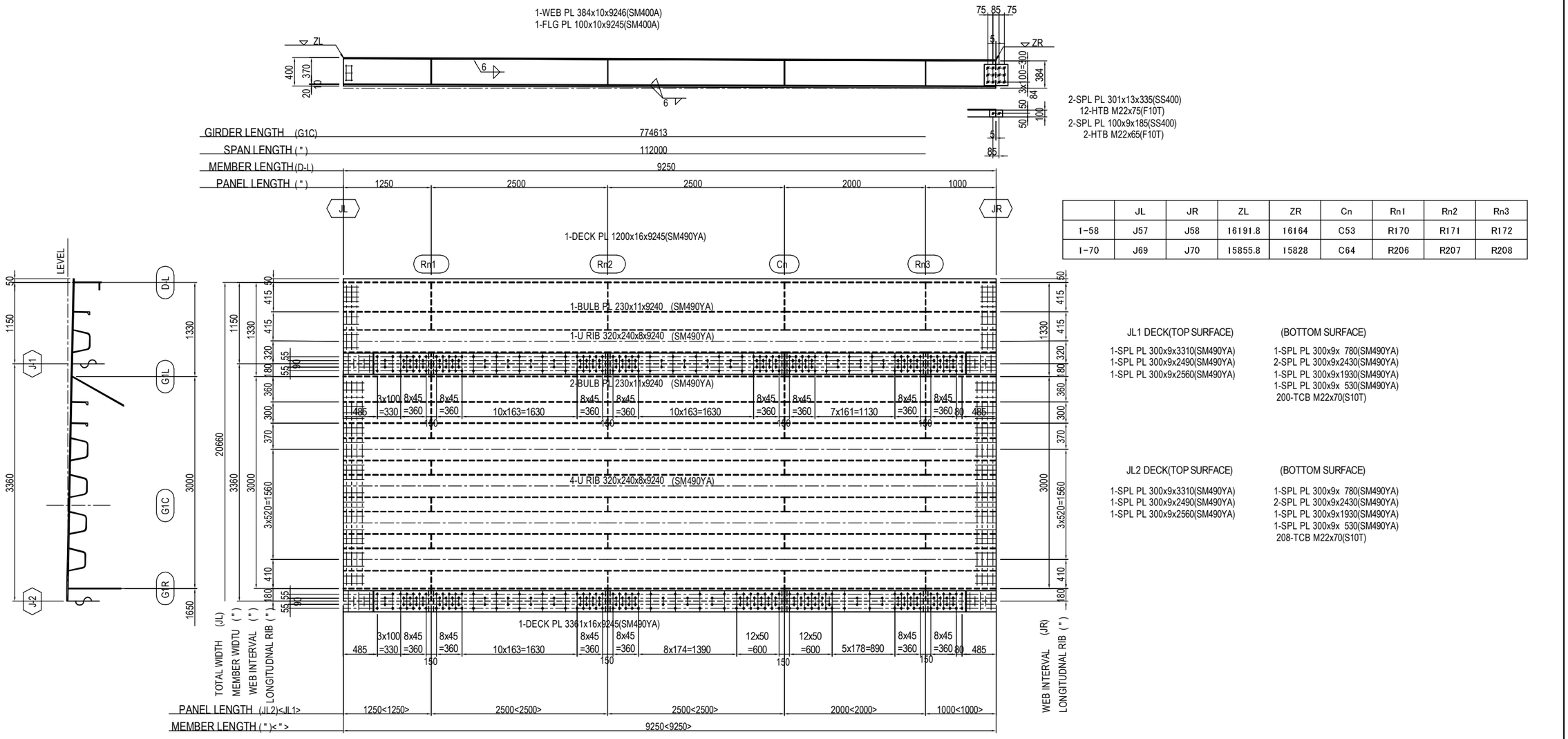


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (20)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1520

DETAIL OF DECK PLATE (21) S=1:60

(1-58,1-70)



	JL	JR	ZL	ZR	Cn	Rn1	Rn2	Rn3
1-58	J57	J58	16191.8	16164	C53	R170	R171	R172
1-70	J69	J70	15855.8	15828	C64	R206	R207	R208

JL1 DECK(TOP SURFACE)

1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
200-TCB M22x70(S10T)

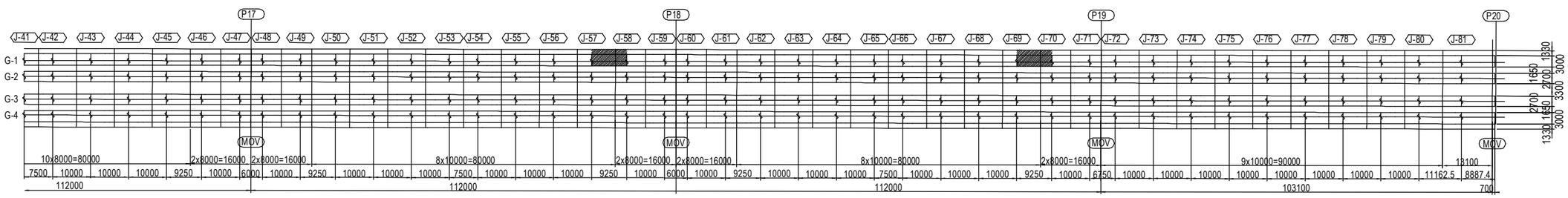
JL2 DECK(TOP SURFACE)

1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
208-TCB M22x70(S10T)

MARKING DIAGRAM

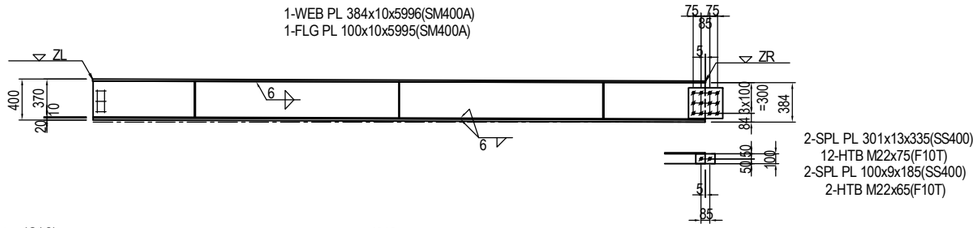


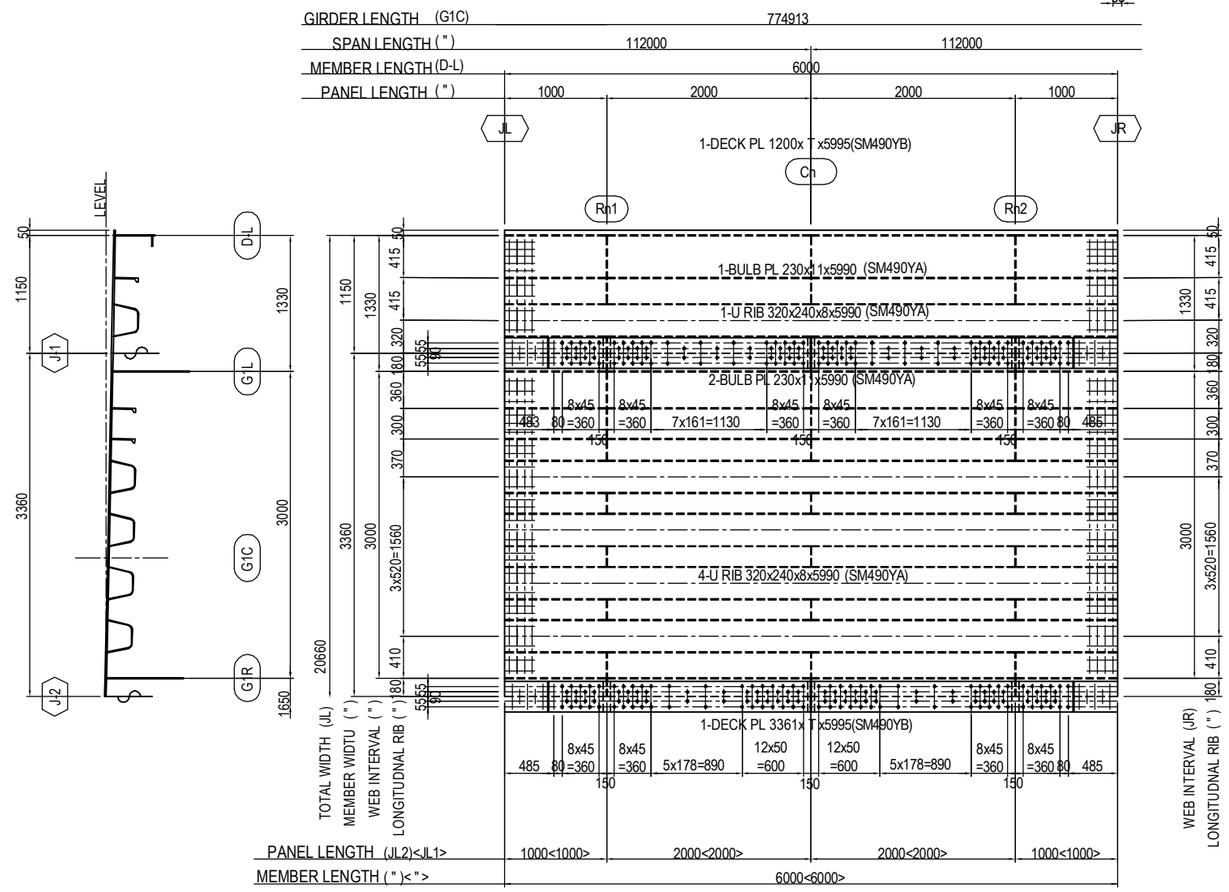
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (21)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1521

DETAIL OF DECK PLATE (22) S=1:60

(1-24,1-36)





	JL	JR	ZL	ZR	Cn	Rn1	Rn2	T
I-24	J23	J24	I7142	I7124	S3	R69	R70	I9
I-36	J35	J36	I6806	I6788	S4	R105	R106	22

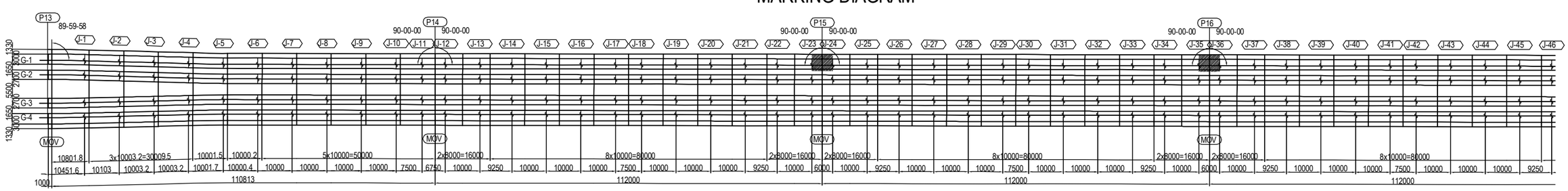
JL1 DECK(TOP SURFACE)
2-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 530(SM490YA)
2-SPL PL 300x9x1930(SM490YA)
136-TCB M22x75(S10T)

JL2 DECK(TOP SURFACE)
2-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 530(SM490YA)
2-SPL PL 300x9x1930(SM490YA)
144-TCB M22x75(S10T)

MARKING DIAGRAM

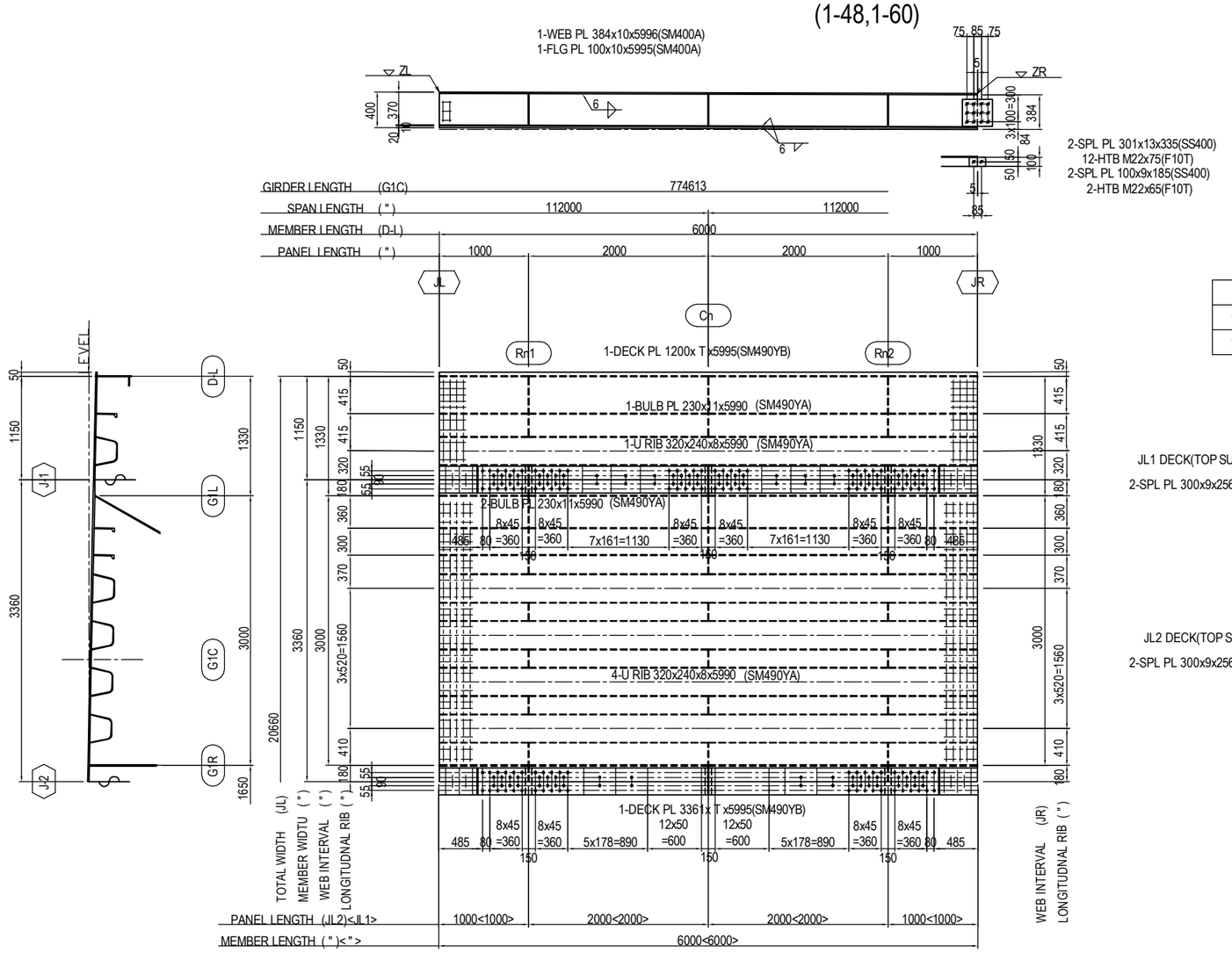


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (22)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1522

DETAIL OF DECK PLATE (23) S=1:60

(1-48,1-60)



	JL	JR	ZL	ZR	Cn	Rn1	Rn2	T
I-48	J47	J48	I6470	I6452	S5	RI41	RI42	21
I-60	J59	J60	I6134	I6116	S6	RI77	RI78	20

JL1 DECK(TOP SURFACE)

2-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)

2-SPL PL 300x9x 530(SM490YA)
2-SPL PL 300x9x1930(SM490YA)
136-TCB M22x75(S10T)

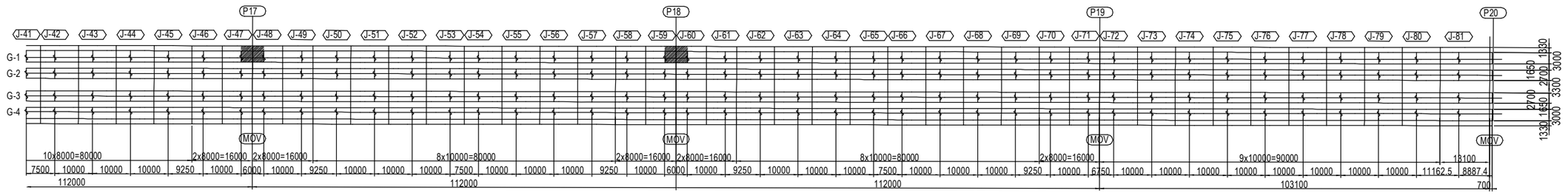
JL2 DECK(TOP SURFACE)

2-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)

2-SPL PL 300x9x 530(SM490YA)
2-SPL PL 300x9x1930(SM490YA)
144-TCB M22x75(S10T)

MARKING DIAGRAM

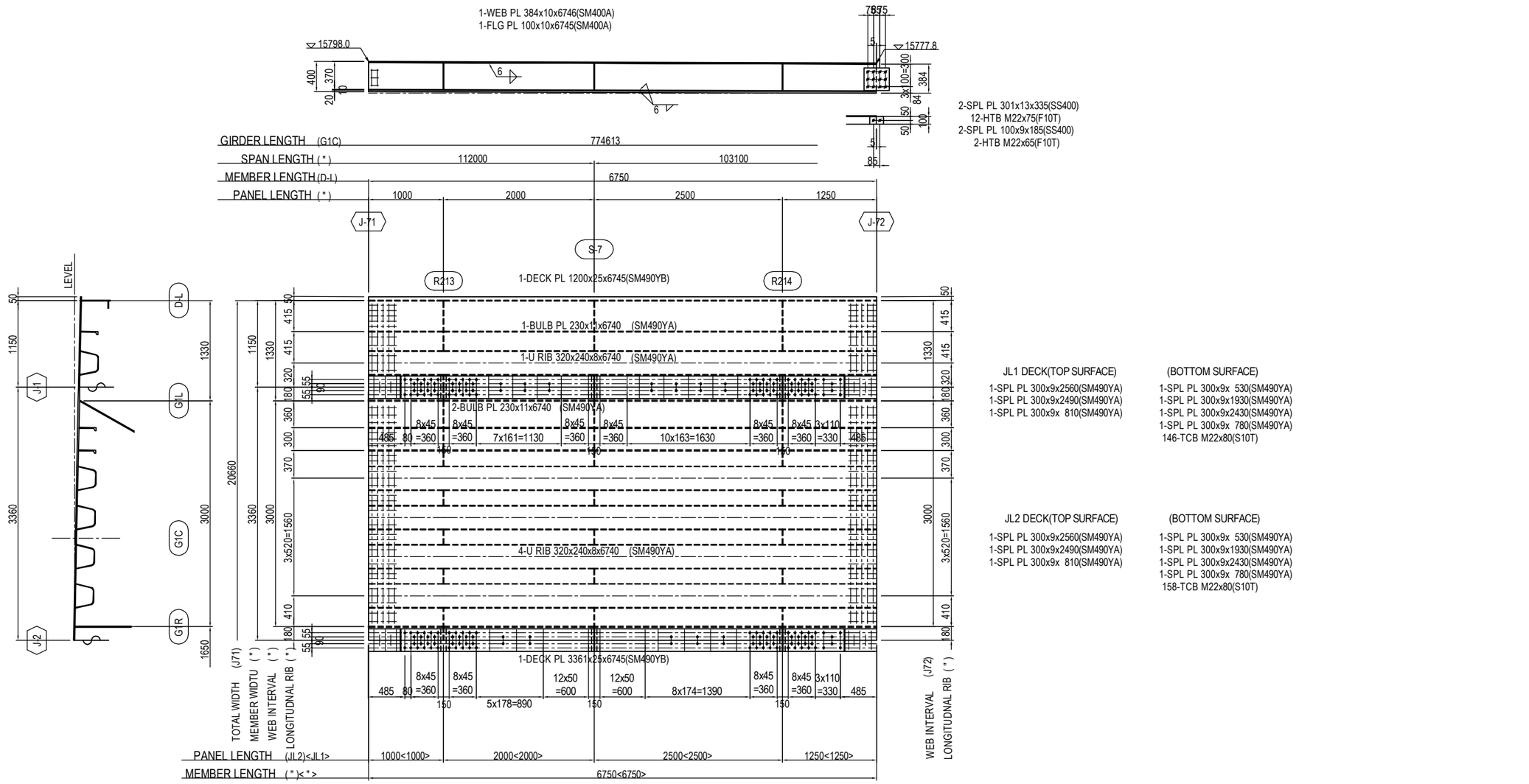


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (23)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1523

DETAIL OF DECK PLATE (24) S=1:60

(1-72)



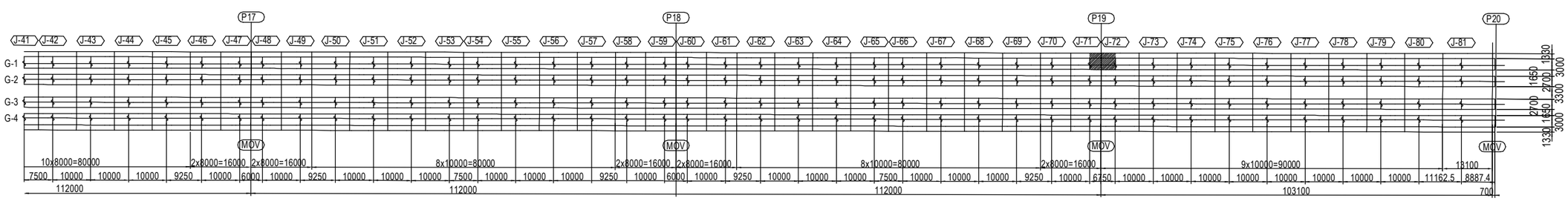
JL1 DECK(TOP SURFACE)
- 1-SPL PL 300x9x2560(SM490YA)
- 1-SPL PL 300x9x2490(SM490YA)
- 1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)
- 1-SPL PL 300x9x 530(SM490YA)
- 1-SPL PL 300x9x1930(SM490YA)
- 1-SPL PL 300x9x2430(SM490YA)
- 1-SPL PL 300x9x 780(SM490YA)
- 146-TCB M22x80(S10T)

JL2 DECK(TOP SURFACE)
- 1-SPL PL 300x9x2560(SM490YA)
- 1-SPL PL 300x9x2490(SM490YA)
- 1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)
- 1-SPL PL 300x9x 530(SM490YA)
- 1-SPL PL 300x9x1930(SM490YA)
- 1-SPL PL 300x9x2430(SM490YA)
- 1-SPL PL 300x9x 780(SM490YA)
- 158-TCB M22x80(S10T)

MARKING DIAGRAM

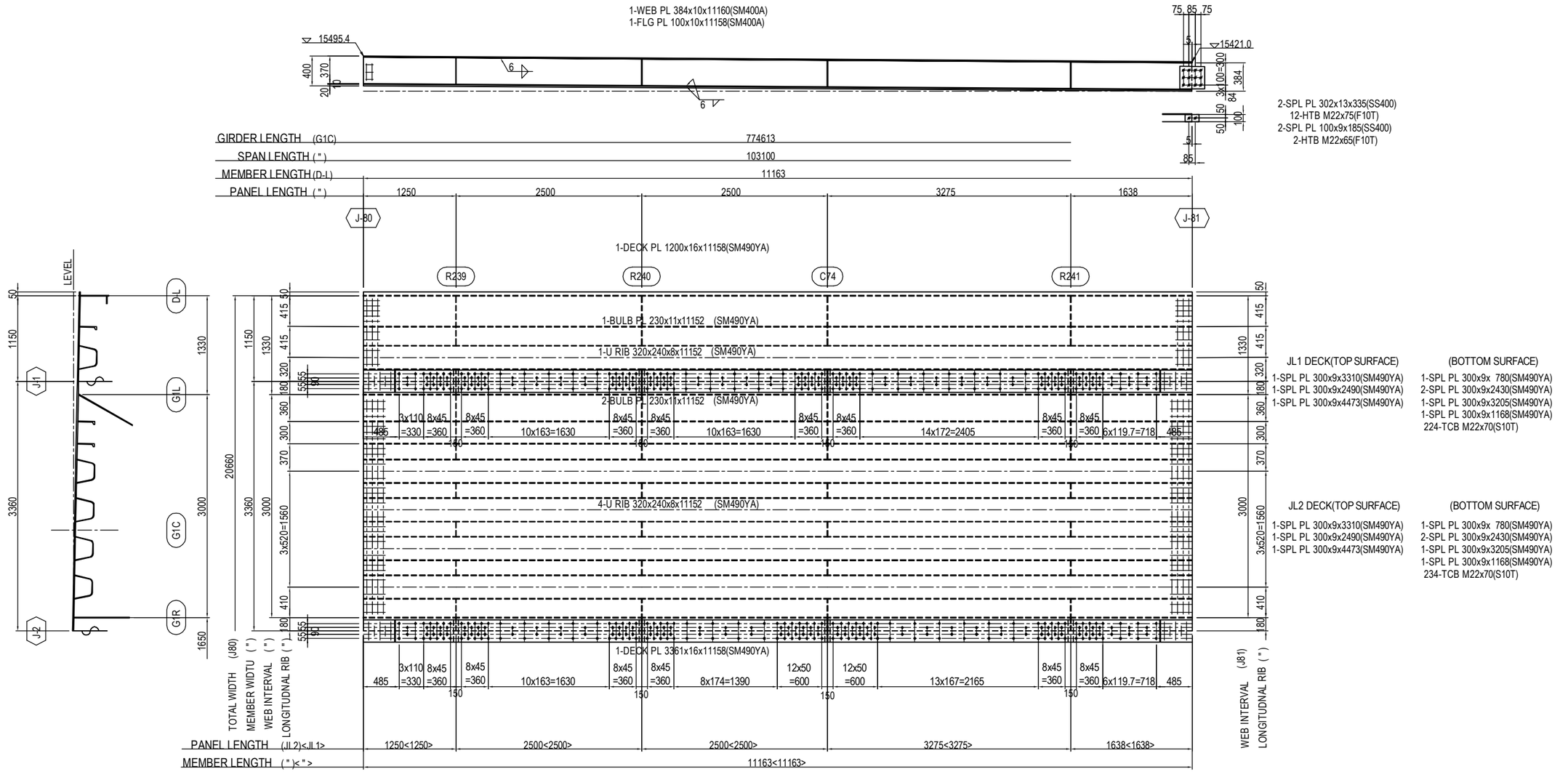


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

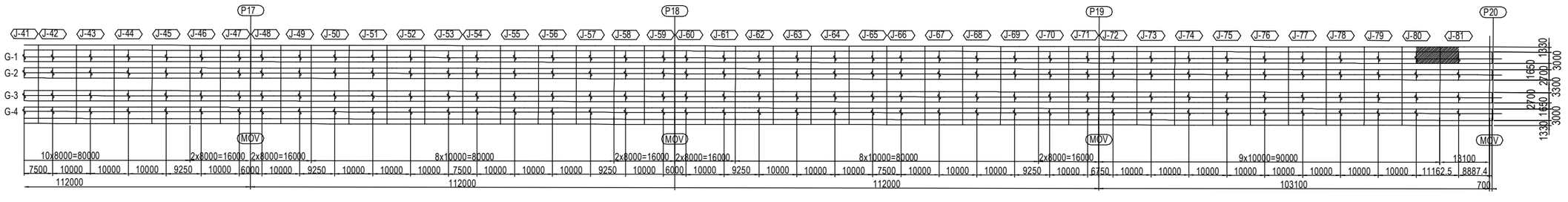
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (24)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1524

DETAIL OF DECK PLATE (25) S=1:60

(1-81)



MARKING DIAGRAM



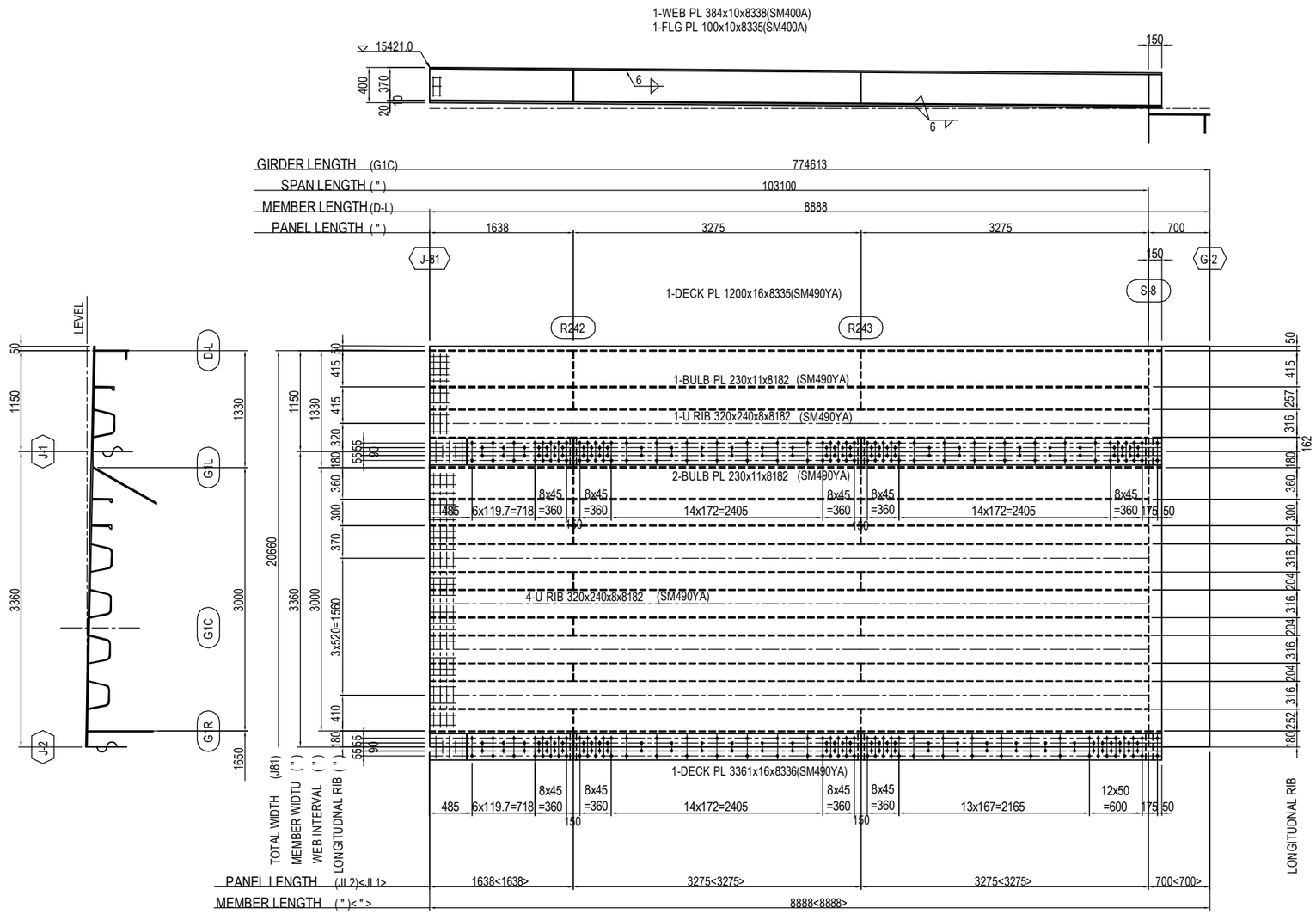
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	DRAWING TITLE: DETAIL OF DECK PLATE (25)	PACKAGE: 2

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DWG No. P2-SB-1525

DETAIL OF DECK PLATE (26) S=1:60

(1-82)



JL1 DECK(TOP SURFACE)

1-SPL PL 300x9x1198(SM490YA)
1-SPL PL 300x9x3265(SM490YA)
1-SPL PL 300x9x3420(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x1168(SM490YA)
2-SPL PL 300x9x3205(SM490YA)
1-SPL PL 300x9x100(SM490YA)
156-TCB M22x70(S10T)

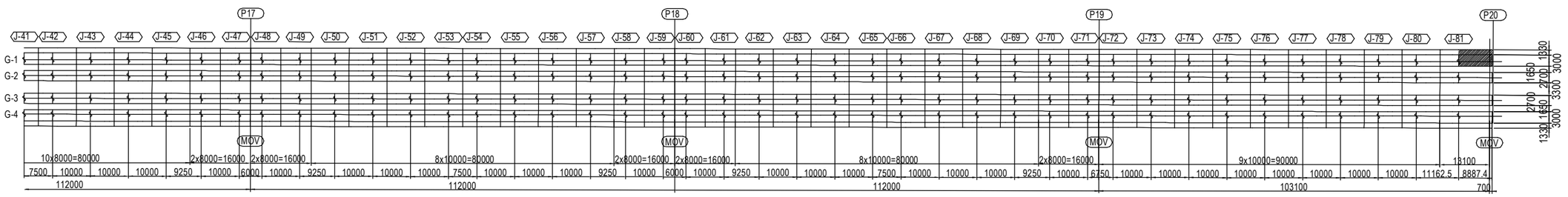
JL2 DECK(TOP SURFACE)

1-SPL PL 300x9x1198(SM490YA)
1-SPL PL 300x9x3265(SM490YA)
1-SPL PL 300x9x3420(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x1168(SM490YA)
2-SPL PL 300x9x3205(SM490YA)
1-SPL PL 300x9x100(SM490YA)
164-TCB M22x70(S10T)

MARKING DIAGRAM

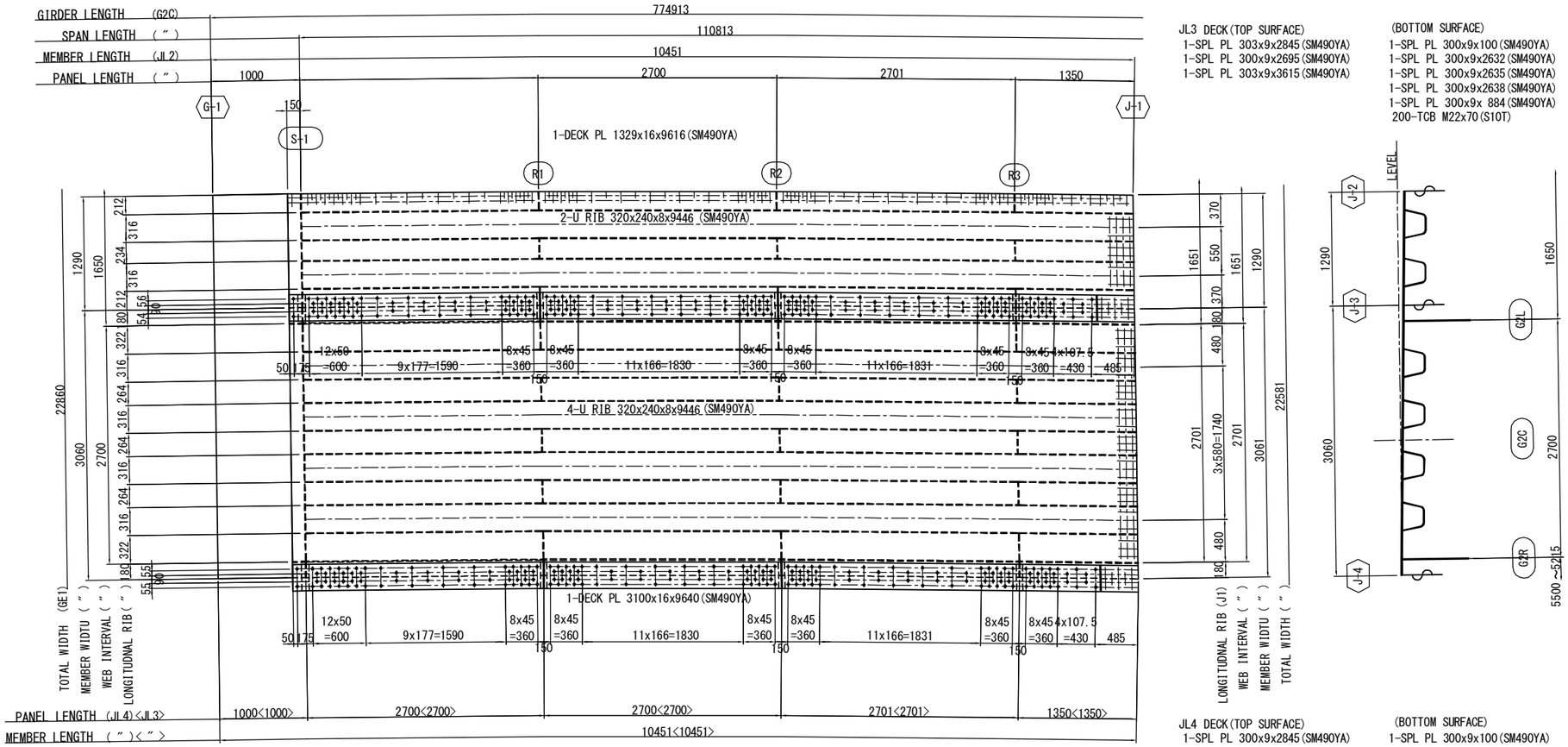


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (26)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1526

DETAIL OF DECK PLATE (27) S=1:60

(2-1)



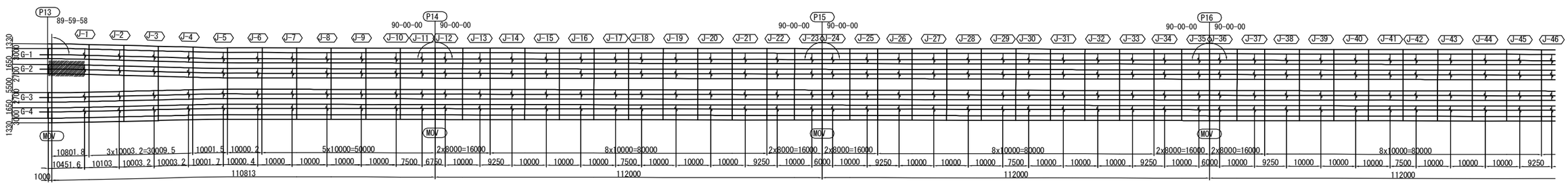
JL3 DECK(TOP SURFACE)
1-SPL PL 303x9x2845(SM490YA)
1-SPL PL 300x9x2695(SM490YA)
1-SPL PL 303x9x3615(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x100(SM490YA)
1-SPL PL 300x9x2632(SM490YA)
1-SPL PL 300x9x2635(SM490YA)
1-SPL PL 300x9x2638(SM490YA)
1-SPL PL 300x9x 884(SM490YA)
200-TCB M22x70(S10T)

JL4 DECK(TOP SURFACE)
1-SPL PL 300x9x2845(SM490YA)
1-SPL PL 300x9x2695(SM490YA)
1-SPL PL 303x9x3615(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x100(SM490YA)
1-SPL PL 300x9x2632(SM490YA)
1-SPL PL 300x9x2635(SM490YA)
1-SPL PL 300x9x2638(SM490YA)
1-SPL PL 300x9x 884(SM490YA)
200-TCB M22x70(S10T)

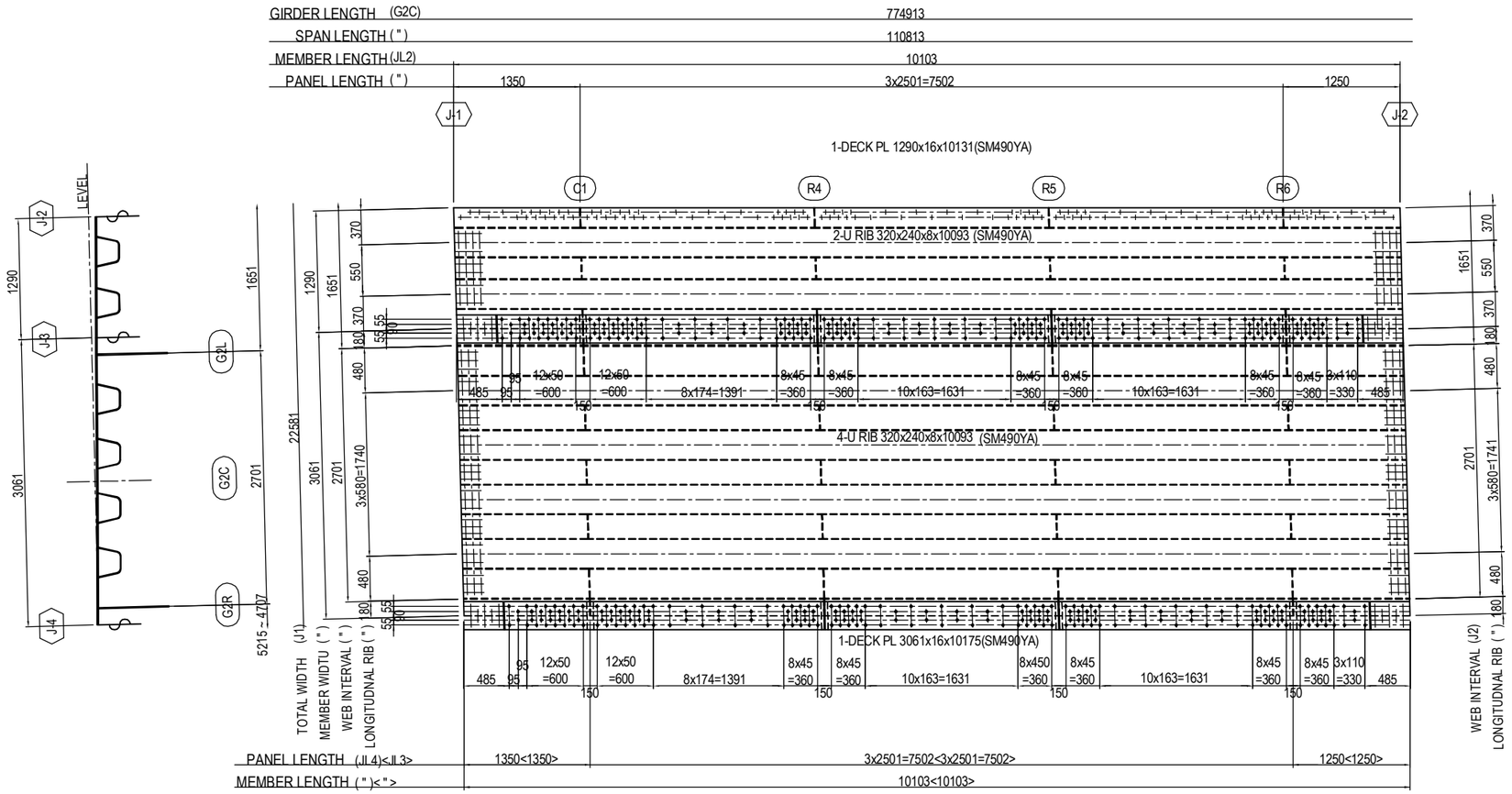
MARKING DIAGRAM



PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		DRAWING TITLE / PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		DETAIL OF DECK PLATE (27) / 2
				PREPARED BY: S. IMADA, 15 Jun.2017	DWG No. P2-SB-1527
				CHECKED BY: T. HAYAKAWA, 20 Jun.2017	
				APPROVED BY: Y. SANO, 21 Jun.2017	

DETAIL OF DECK PLATE (28) S=1:60

(2-2)



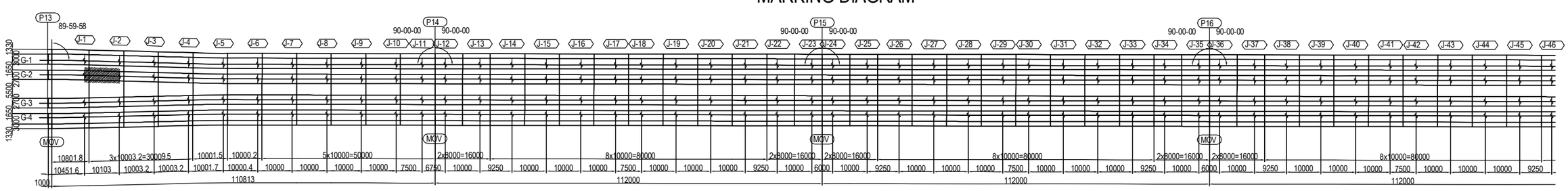
JL3 DECK(TOP SURFACE)
1-SPL PL 300x9x3419(SM490YA)
1-SPL PL 300x9x2499(SM490YA)
1-SPL PL 300x9x3319(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 888(SM490YA)
3-SPL PL 300x9x2439(SM490YA)
1-SPL PL 300x9x 788(SM490YA)
220-TCB M22x70(S10T)

JL4 DECK(TOP SURFACE)
1-SPL PL 300x9x3419(SM490YA)
1-SPL PL 300x9x2499(SM490YA)
1-SPL PL 300x9x3319(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 888(SM490YA)
3-SPL PL 300x9x2439(SM490YA)
1-SPL PL 300x9x 788(SM490YA)
220-TCB M22x70(S10T)

MARKING DIAGRAM

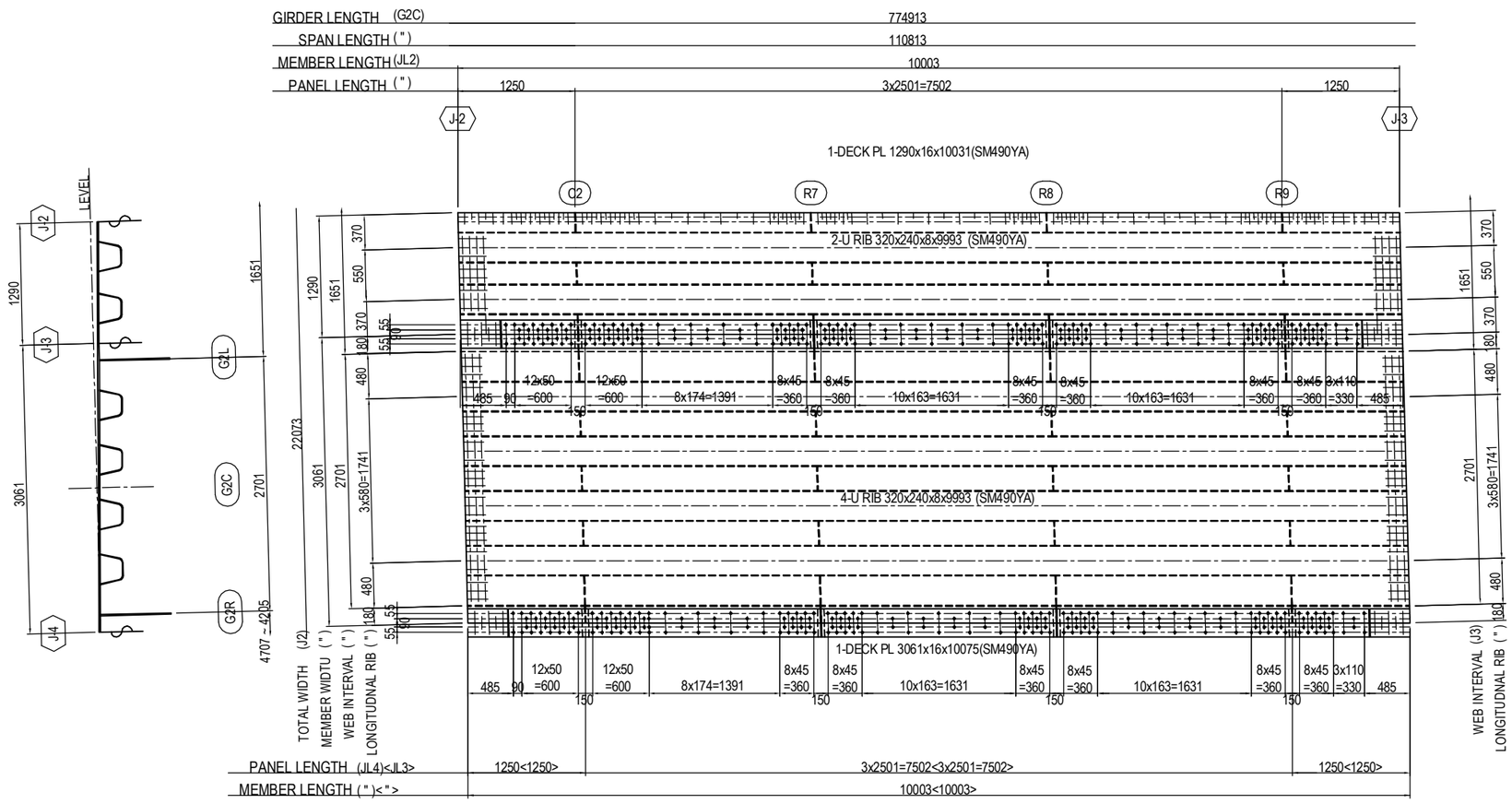


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (28)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1528

DETAIL OF DECK PLATE (29) S=1:60

(2-3)



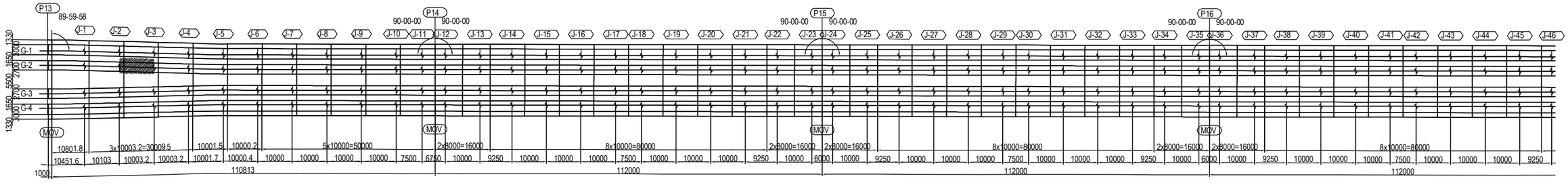
JL3 DECK(TOP SURFACE)
2-SPL PL 330x9x3319(SM490YA)
1-SPL PL 330x9x2499(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 330x9x 788(SM490YA)
3-SPL PL 330x9x2439(SM490YA)
218-TCB M22x70(S10T)

JL4 DECK(TOP SURFACE)
2-SPL PL 300x9x3319(SM490YA)
1-SPL PL 300x9x2499(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 788(SM490YA)
3-SPL PL 300x9x2439(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM

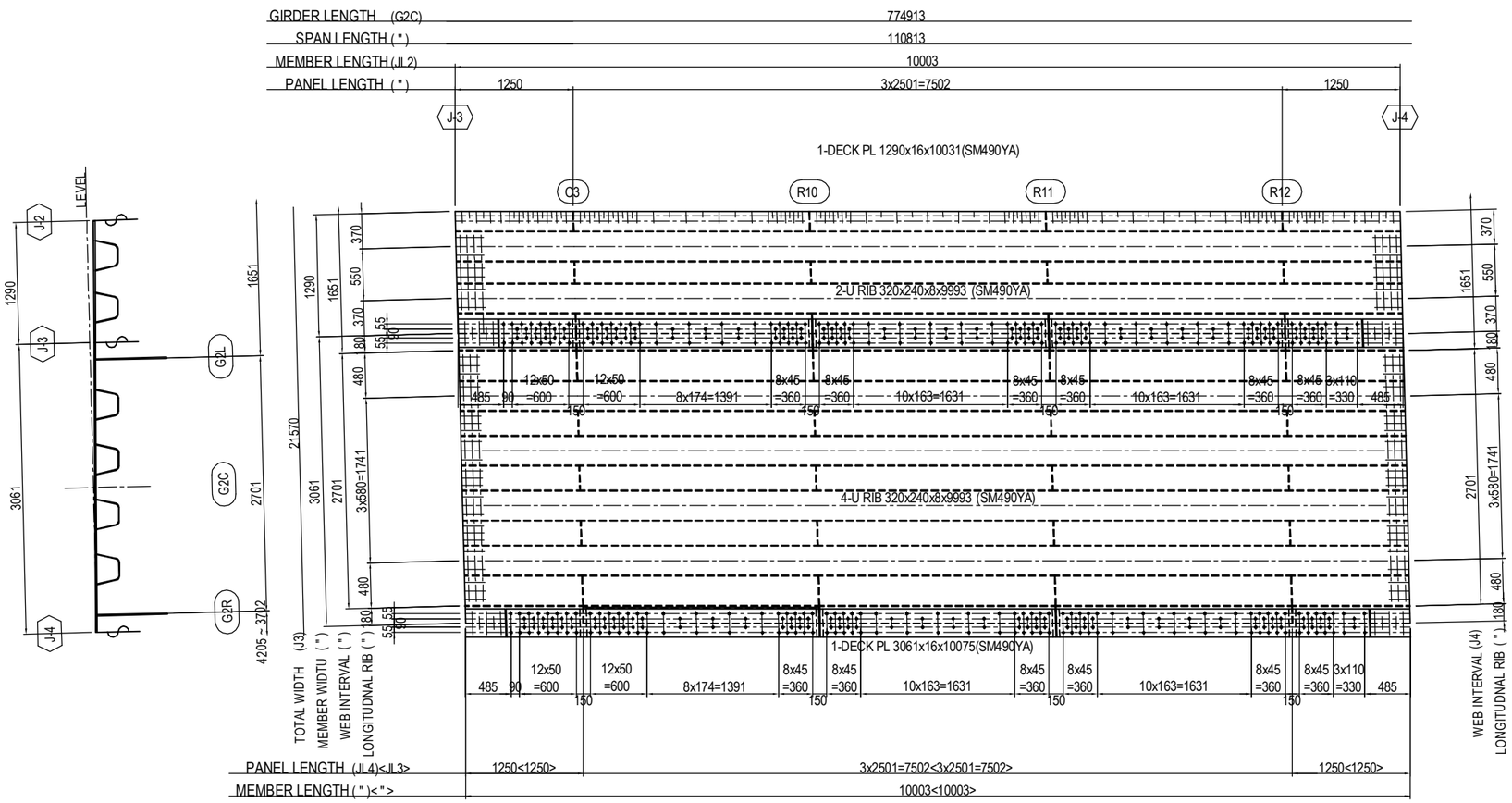


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (29)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1529

DETAIL OF DECK PLATE (30) S=1:60

(2-4)



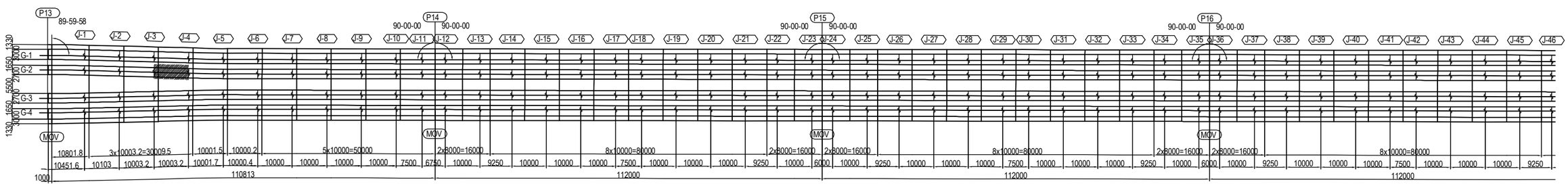
JL3 DECK(TOP SURFACE)
2-SPL PL 300x9x3319(SM490YA)
1-SPL PL 300x9x2499(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 788(SM490YA)
3-SPL PL 300x9x2439(SM490YA)
218-TCB M22x70(S10T)

JL4 DECK(TOP SURFACE)
2-SPL PL 300x9x3319(SM490YA)
1-SPL PL 300x9x2499(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 788(SM490YA)
3-SPL PL 300x9x2439(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM

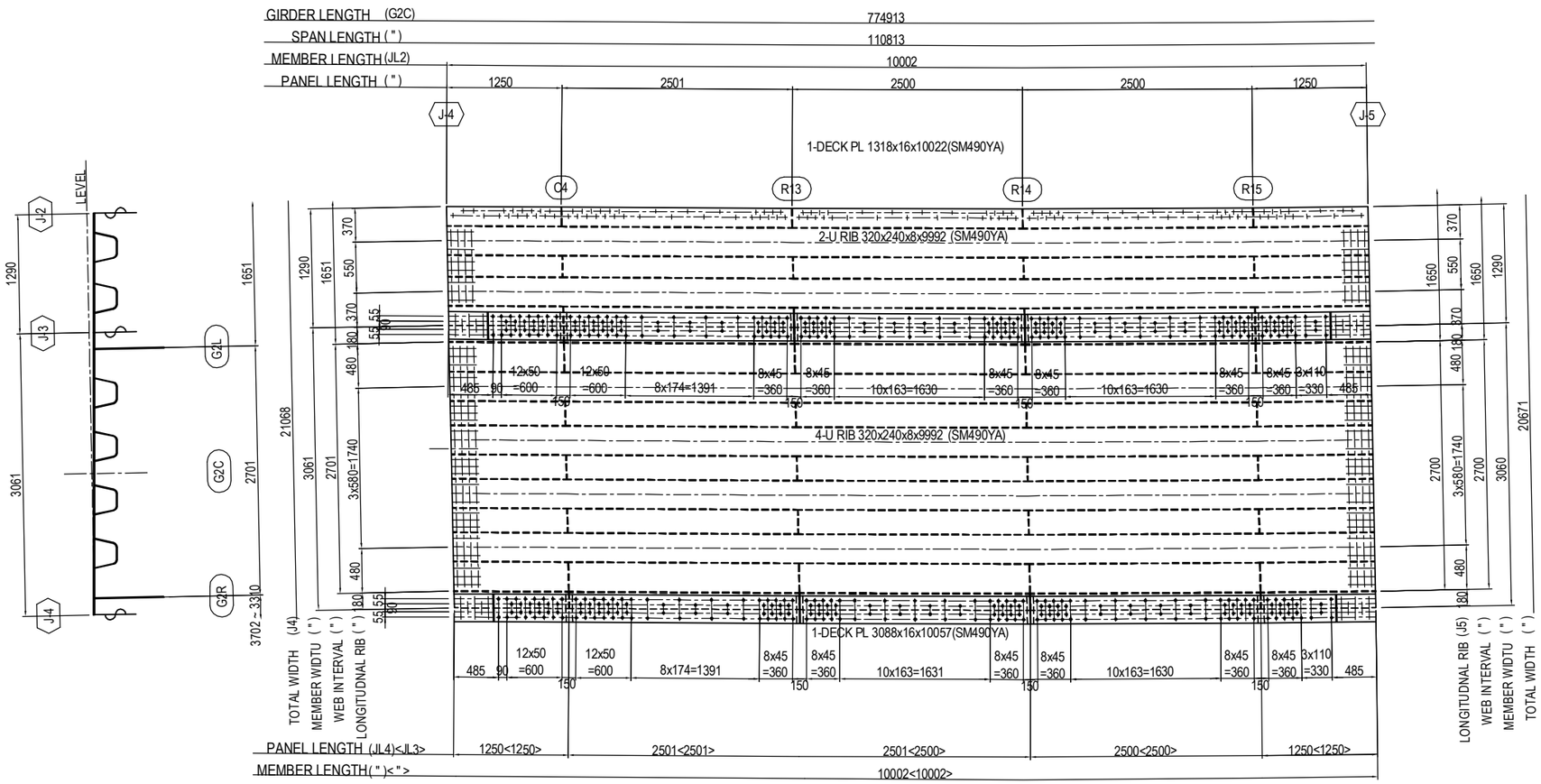


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (30)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1530

DETAIL OF DECK PLATE (31) S=1:60

(2-5)



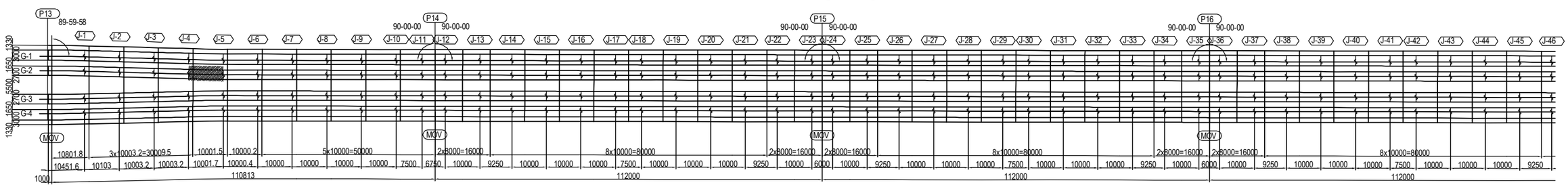
JL3 DECK(TOP SURFACE)
1-SPL PL 300x9x3317(SM490YA)
1-SPL PL 300x9x2498(SM490YA)
1-SPL PL 305x9x3316(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 786(SM490YA)
1-SPL PL 300x9x2439(SM490YA)
1-SPL PL 300x9x2438(SM490YA)
1-SPL PL 300x9x2435(SM490YA)
1-SPL PL 300x9x 786(SM490YA)
218-TCB M22x70(S10T)

JL4 DECK(TOP SURFACE)
1-SPL PL 300x9x3317(SM490YA)
1-SPL PL 300x9x2498(SM490YA)
1-SPL PL 305x9x3316(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 786(SM490YA)
1-SPL PL 300x9x2439(SM490YA)
1-SPL PL 300x9x2438(SM490YA)
1-SPL PL 300x9x2435(SM490YA)
1-SPL PL 300x9x 786(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM

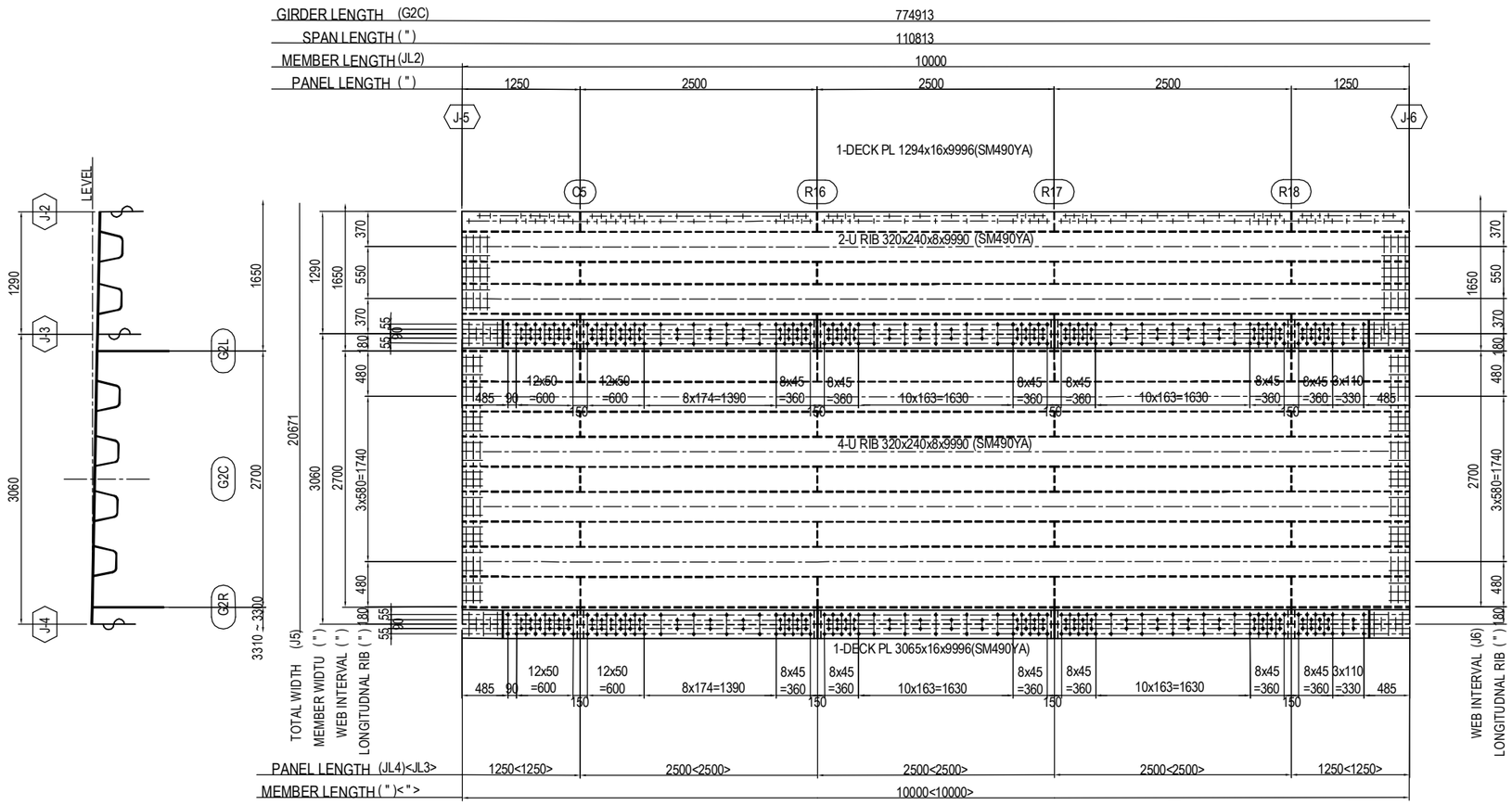


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (31)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1531

DETAIL OF DECK PLATE (32) S=1:60

(2-6)



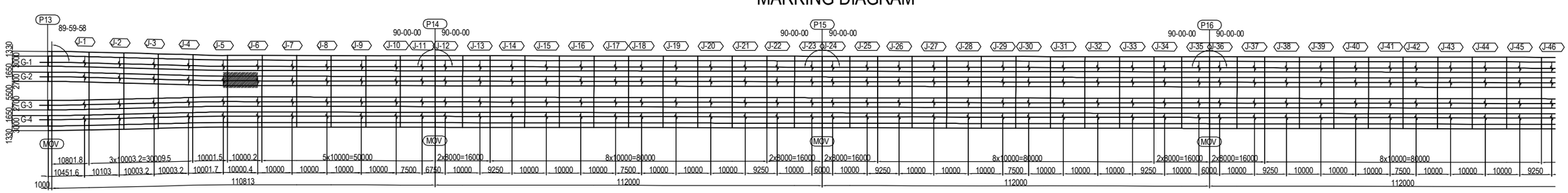
JL3 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
218-TCB M22x70(S10T)

JL4 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
218-TCB M22x70(S10T)

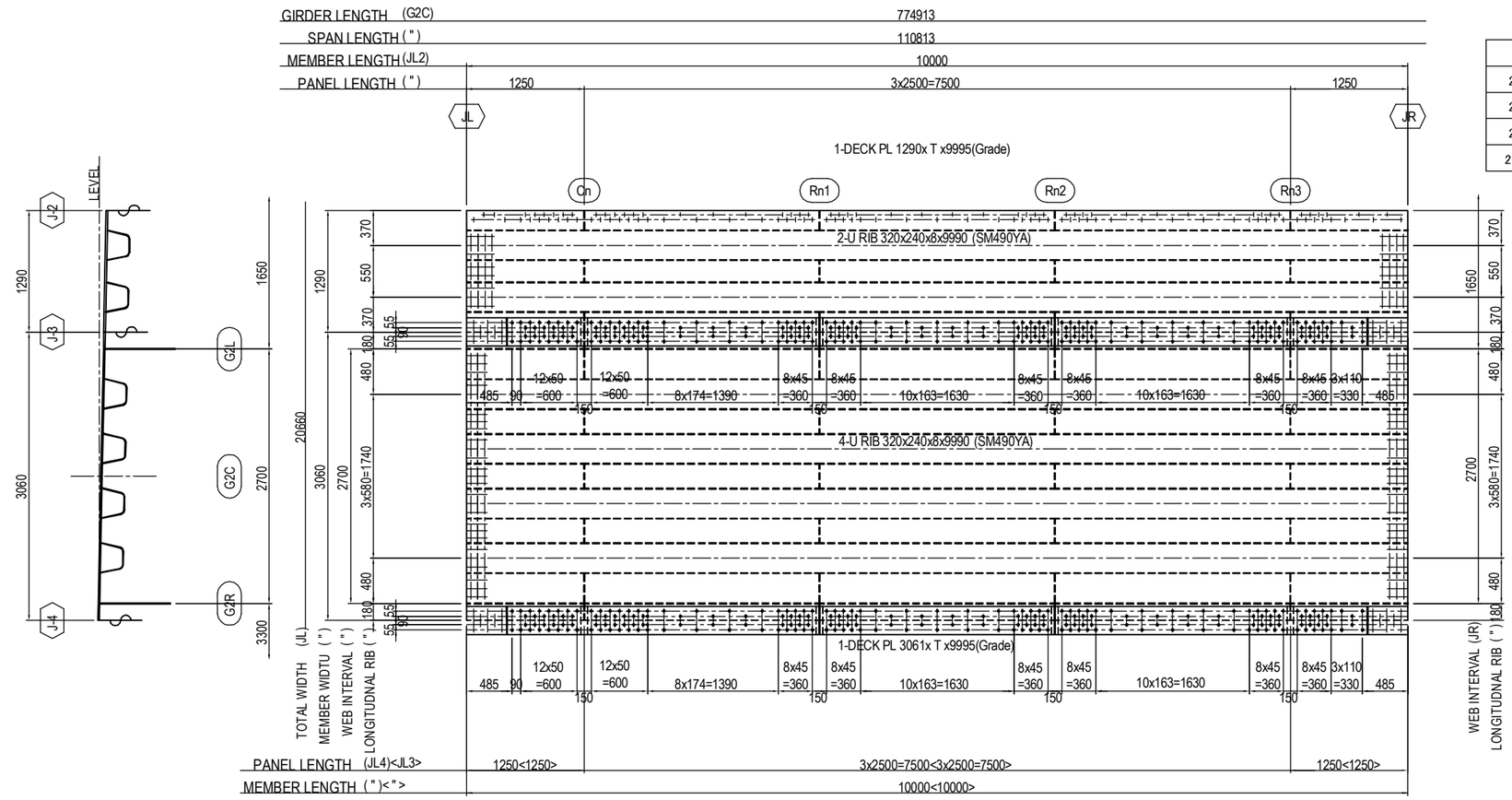
MARKING DIAGRAM



PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	DRAWING TITLE: DETAIL OF DECK PLATE (32)	PACKAGE: 2
				PREPARED BY: S. IMADA 15 Jun.2017	DWG No.: P2-SB-1532
				CHECKED BY: T. HAYAKAWA 20 Jun.2017	
				APPROVED BY: Y. SANO 21 Jun.2017	

DETAIL OF DECK PLATE (33) S=1:60

(2-7,2-8,2-9,2-10)



	JL	JR	Cn	Rn1	Rn2	Rn3	T	Grade	L
2-7	J6	J7	C6	R19	R20	R21	16	SM490YA	70
2-8	J7	J8	C7	R22	R23	R24	16	SM490YA	70
2-9	J8	J9	C8	R25	R26	R27	16	SM490YA	70
2-10	J9	J10	C9	R28	R29	R30	22	SM490YB	75

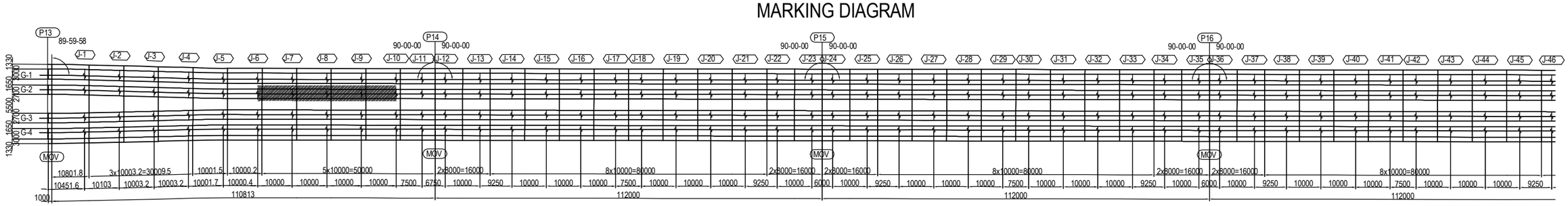
JL3 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22xL(S10T)

JL4 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22xL(S10T)

MARKING DIAGRAM



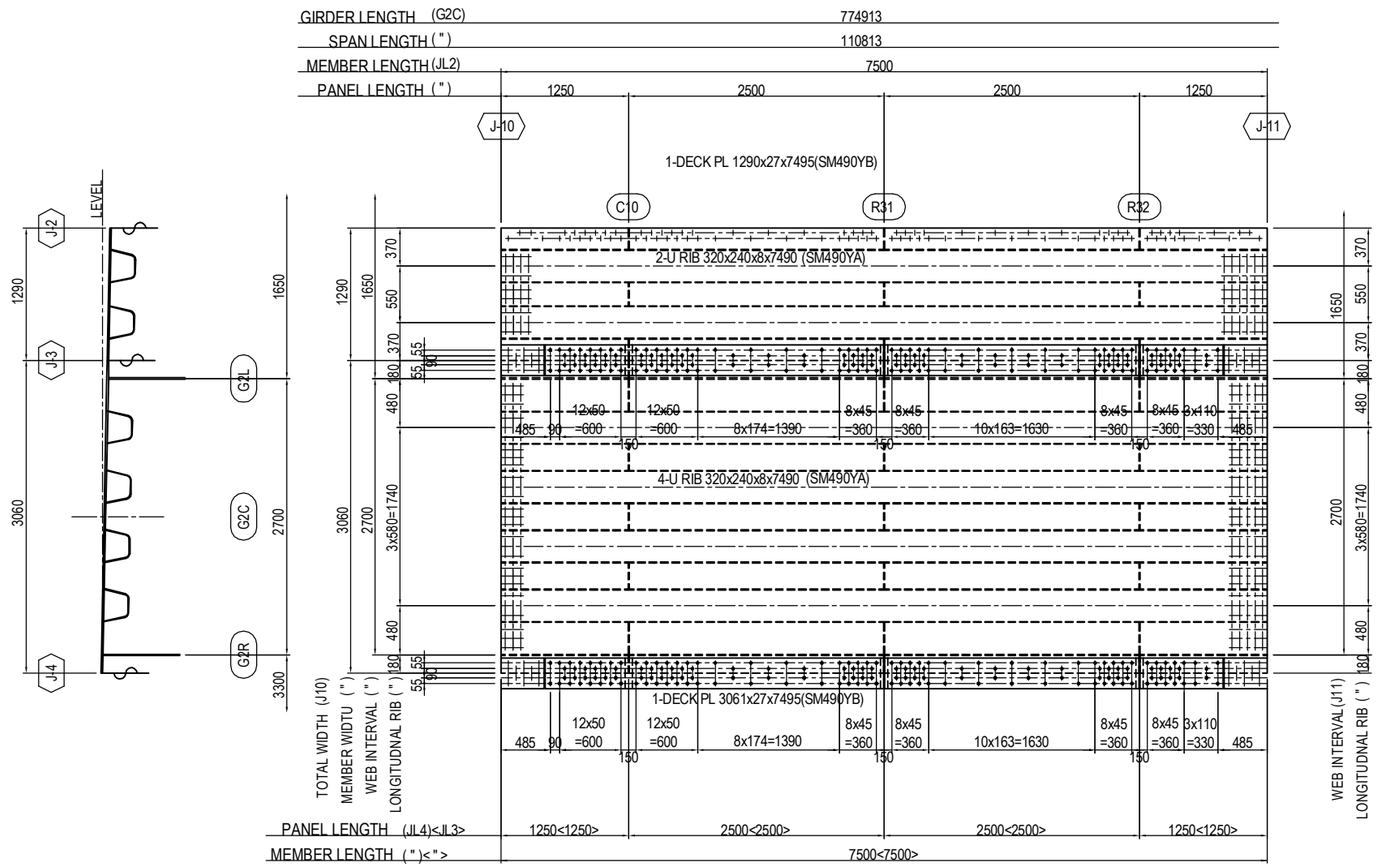
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF DECK PLATE (33)	2
	DWG No.
	P2-SB-1533

DETAIL OF DECK PLATE (34) S=1:60

(2-11)



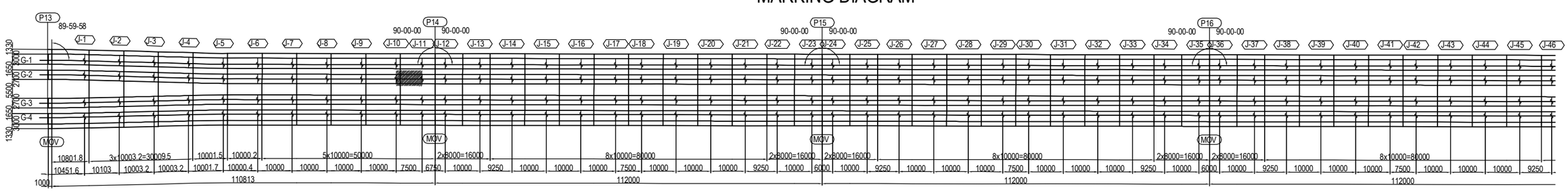
JL3 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
164-TCB M22x80(S10T)

JL4 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
164-TCB M22x80(S10T)

MARKING DIAGRAM

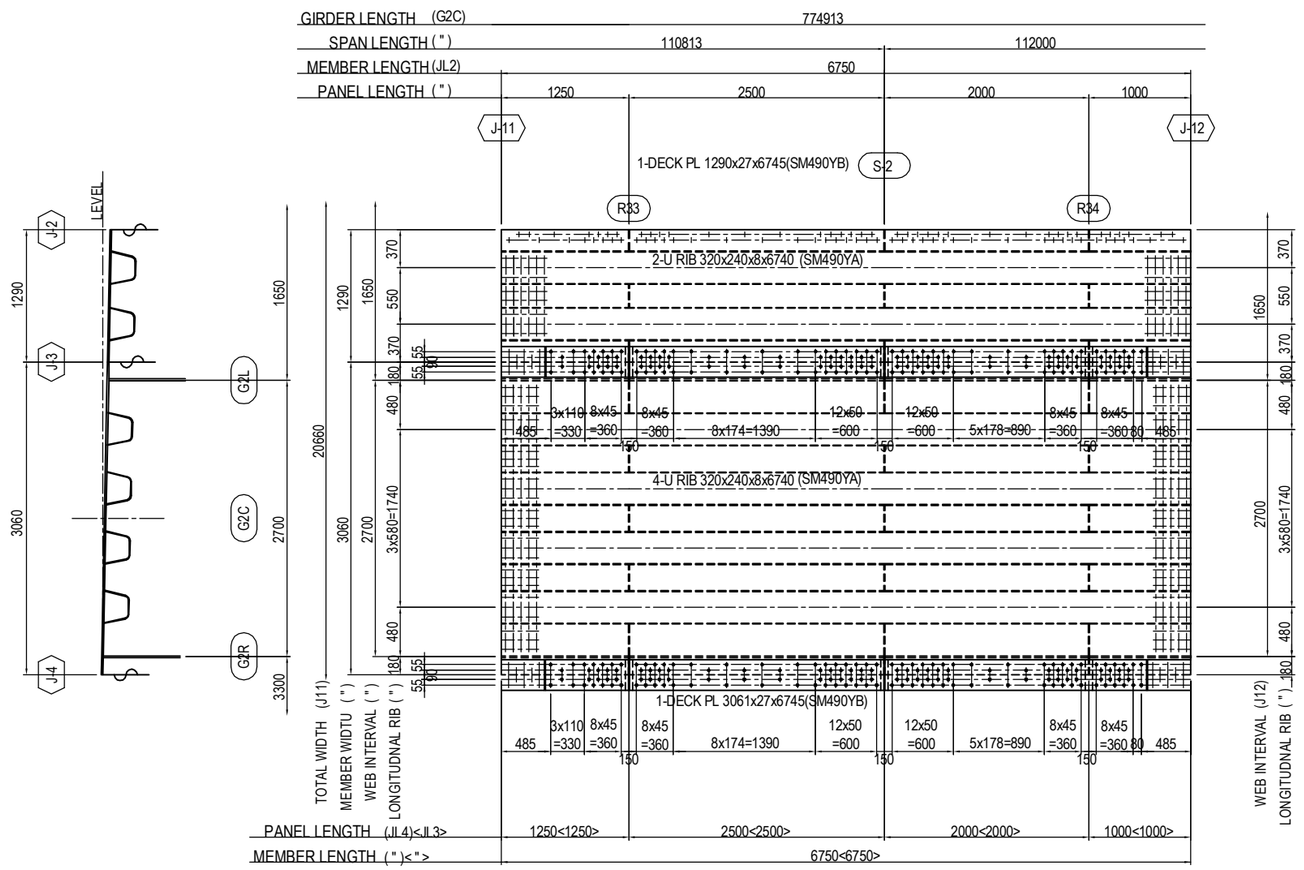


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (34)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1534

DETAIL OF DECK PLATE (35) S=1:60

(2-12)



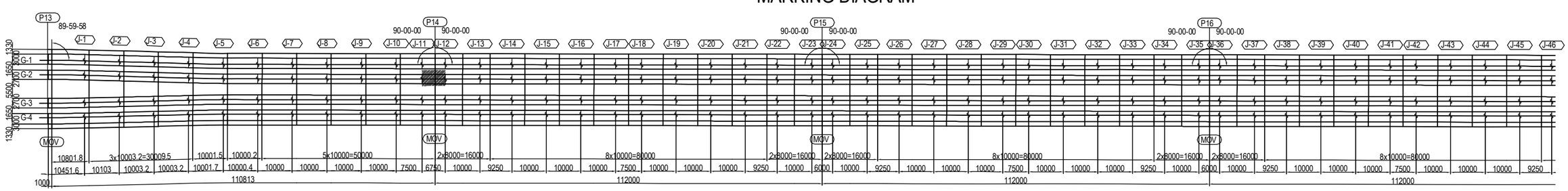
JL3 DECK(TOP SURFACE)
1-SPL PL 3000x9x 810(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
1-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
154-TCB M22x80(S10T)

JL4 DECK(TOP SURFACE)
1-SPL PL 300x9x 810(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
1-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
154-TCB M22x80(S10T)

MARKING DIAGRAM



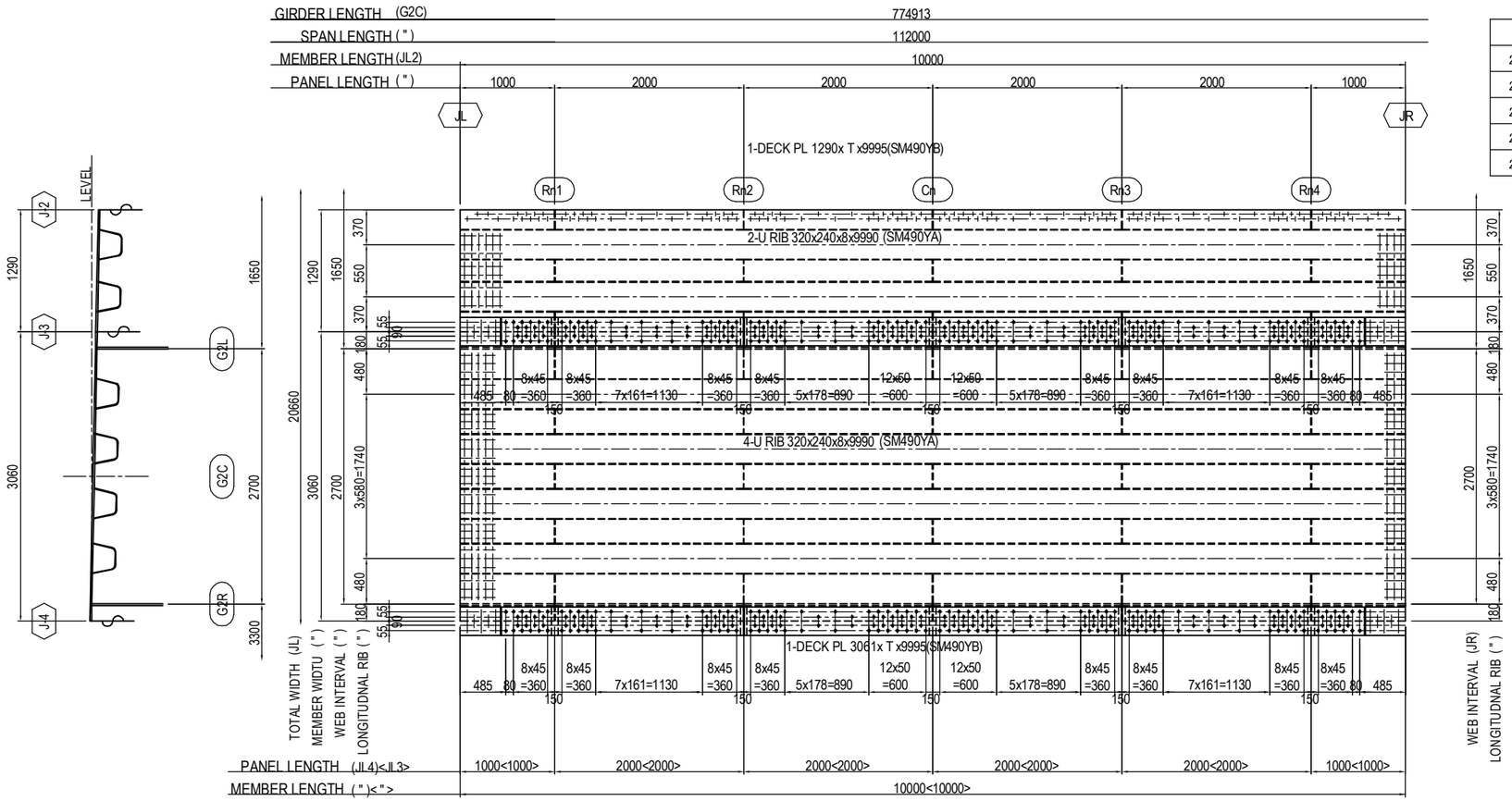
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		DRAWING TITLE / PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		DETAIL OF DECK PLATE (35) / 2

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DWG No. P2-SB-1535

DETAIL OF DECK PLATE (36) S=1:60

(2-13,2-23,2-25,2-35,2-37)



	JL	JR	Cn	Rn1	Rn2	Rn3	Rn4	T	L
2-13	J12	J13	C11	R35	R36	R37	R38	27	80
2-23	J22	J23	C21	R65	R66	R67	R68	19	75
2-25	J24	J25	C22	R71	R72	R73	R74	19	75
2-35	J34	J35	C32	R101	R102	R103	R104	22	75
2-37	J36	J37	C33	R107	R108	R109	R110	22	75

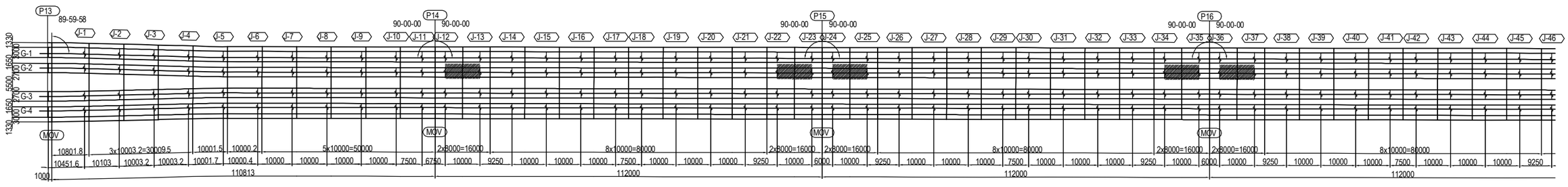
JL3 DECK(TOP SURFACE)
2-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x3990(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 530(SM490YA)
4-SPL PL 300x9x1930(SM490YA)
240-TCB M22xL(S10T)

JL4 DECK(TOP SURFACE)
2-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x3990(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 530(SM490YA)
4-SPL PL 300x9x1930(SM490YA)
240-TCB M22xL(S10T)

MARKING DIAGRAM

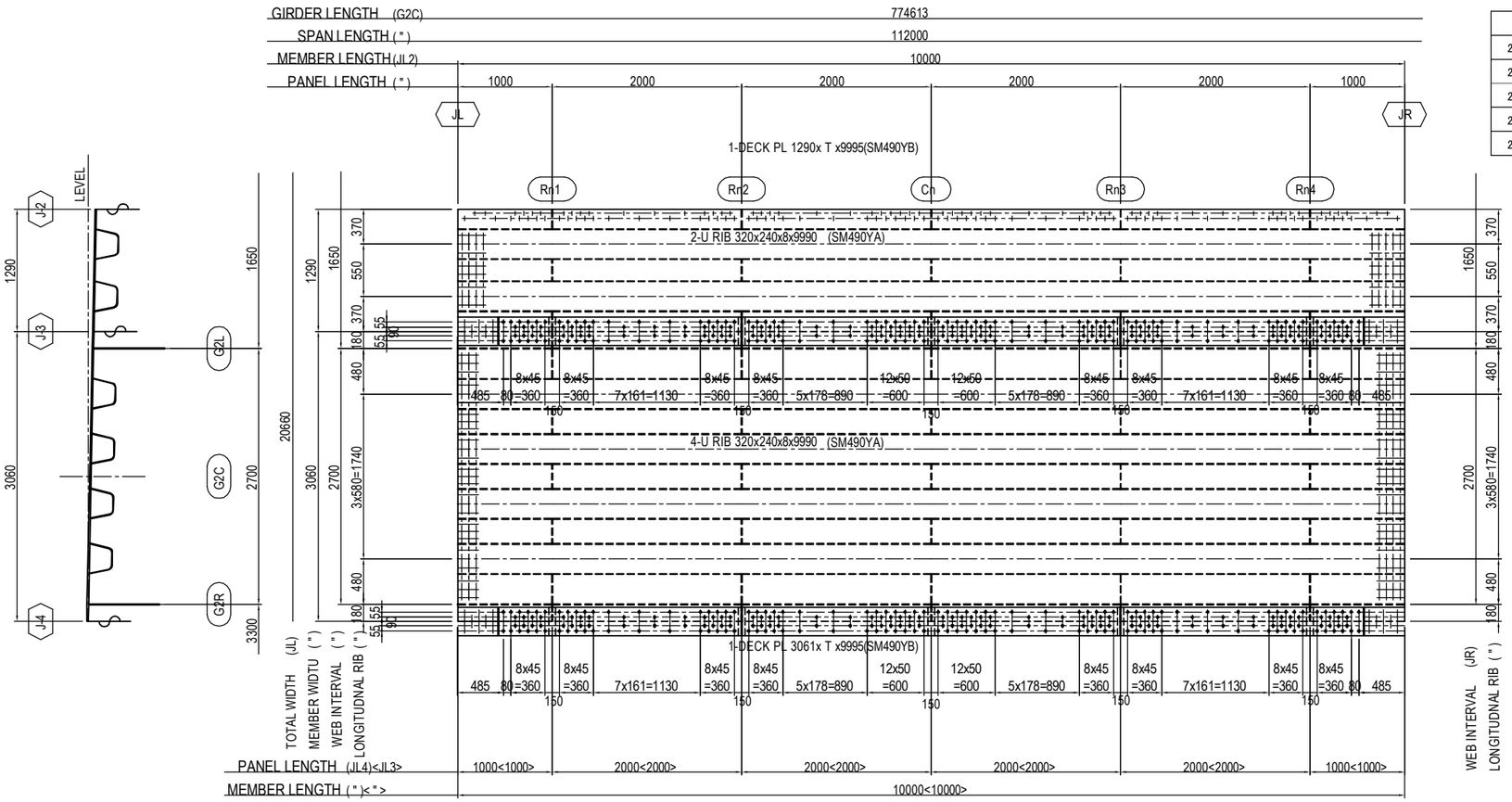


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (36)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1536

DETAIL OF DECK PLATE (37) S=1:60

(2-47,2-49,2-59,2-61,2-71)



	JL	JR	Cn	Rn1	Rn2	Rn3	Rn4	T	L
2-47	J46	J47	C43	R137	R138	R139	R140	21	75
2-48	J48	J49	C44	R143	R144	R145	R146	21	75
2-59	J58	J59	C54	R173	R174	R175	R176	20	75
2-61	J60	J61	C55	R179	R180	R181	R182	20	75
2-71	J70	J71	C65	R209	R210	R211	R212	25	80

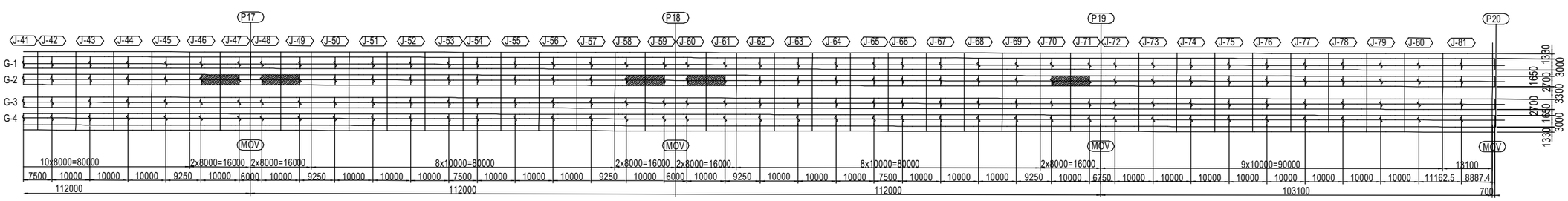
JL3 DECK(TOP SURFACE) (BOTTOM SURFACE)

2-SPL PL 300x9x2560(SM490YA) 2-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x3990(SM490YA) 4-SPL PL 300x9x1930(SM490YA)
240-TCB M22xL(S10T)

JL4 DECK(TOP SURFACE) (BOTTOM SURFACE)

2-SPL PL 300x9x2560(SM490YA) 2-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x3990(SM490YA) 4-SPL PL 300x9x1930(SM490YA)
240-TCB M22xL(S10T)

MARKING DIAGRAM

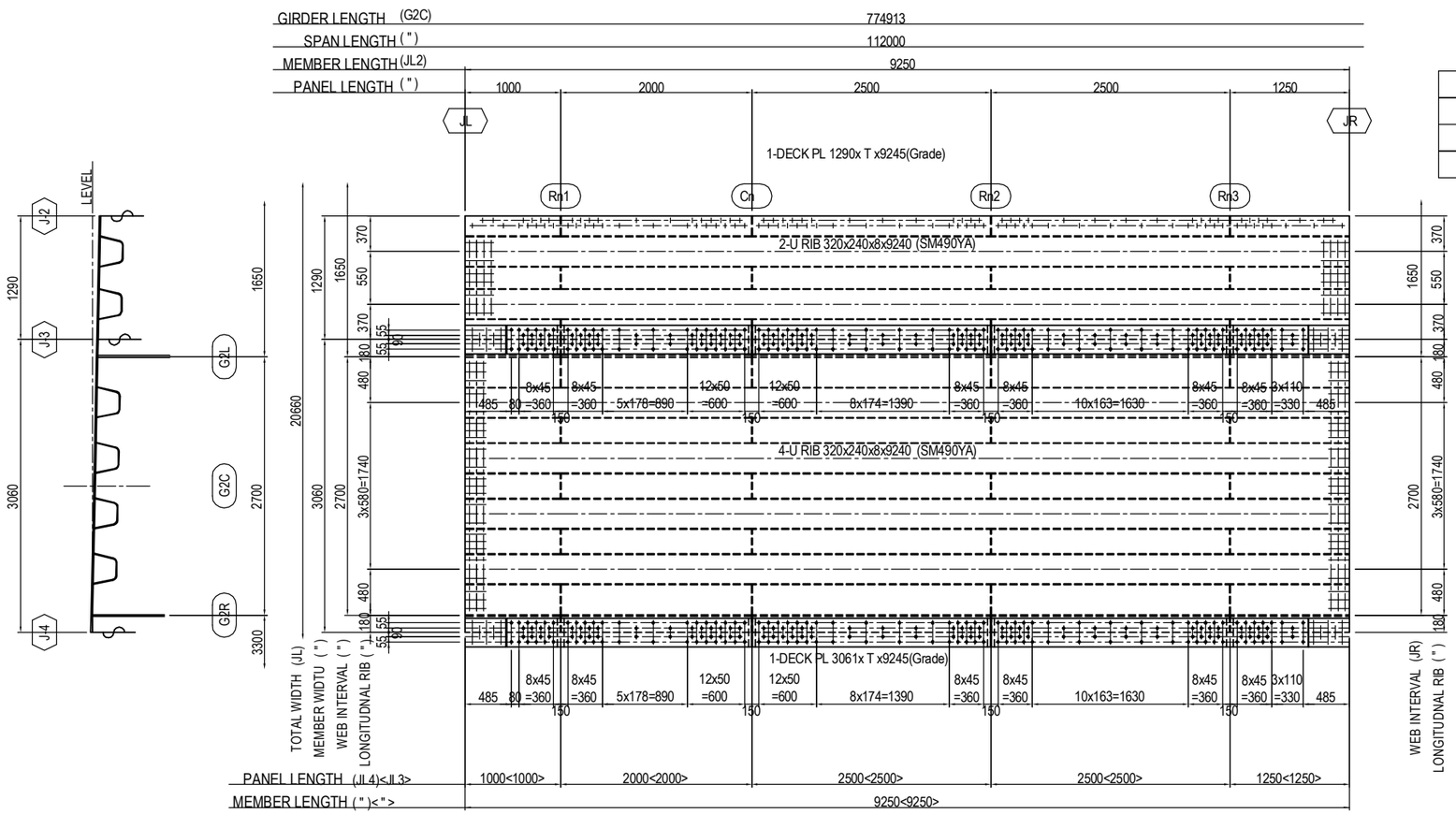


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (37)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1537

DETAIL OF DECK PLATE (38) S=1:60

(2-14,2-26,2-38)



	JL	JR	Cn	Rn1	Rn2	Rn3	T	Grade	L
2-14	J13	J14	C12	R39	R40	R41	22	SM490YB	75
2-26	J25	J26	C23	R75	R76	R77	16	SM490YA	70
2-38	J37	J38	C34	R111	R112	R113	16	SM490YA	70

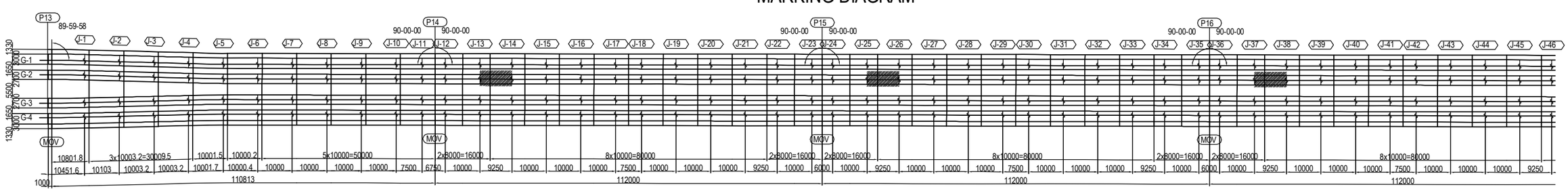
JL3 DECK(TOP SURFACE)
1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
208-TCB M22xL(S10T)

JL4 DECK(TOP SURFACE)
1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
208-TCB M22xL(S10T)

MARKING DIAGRAM



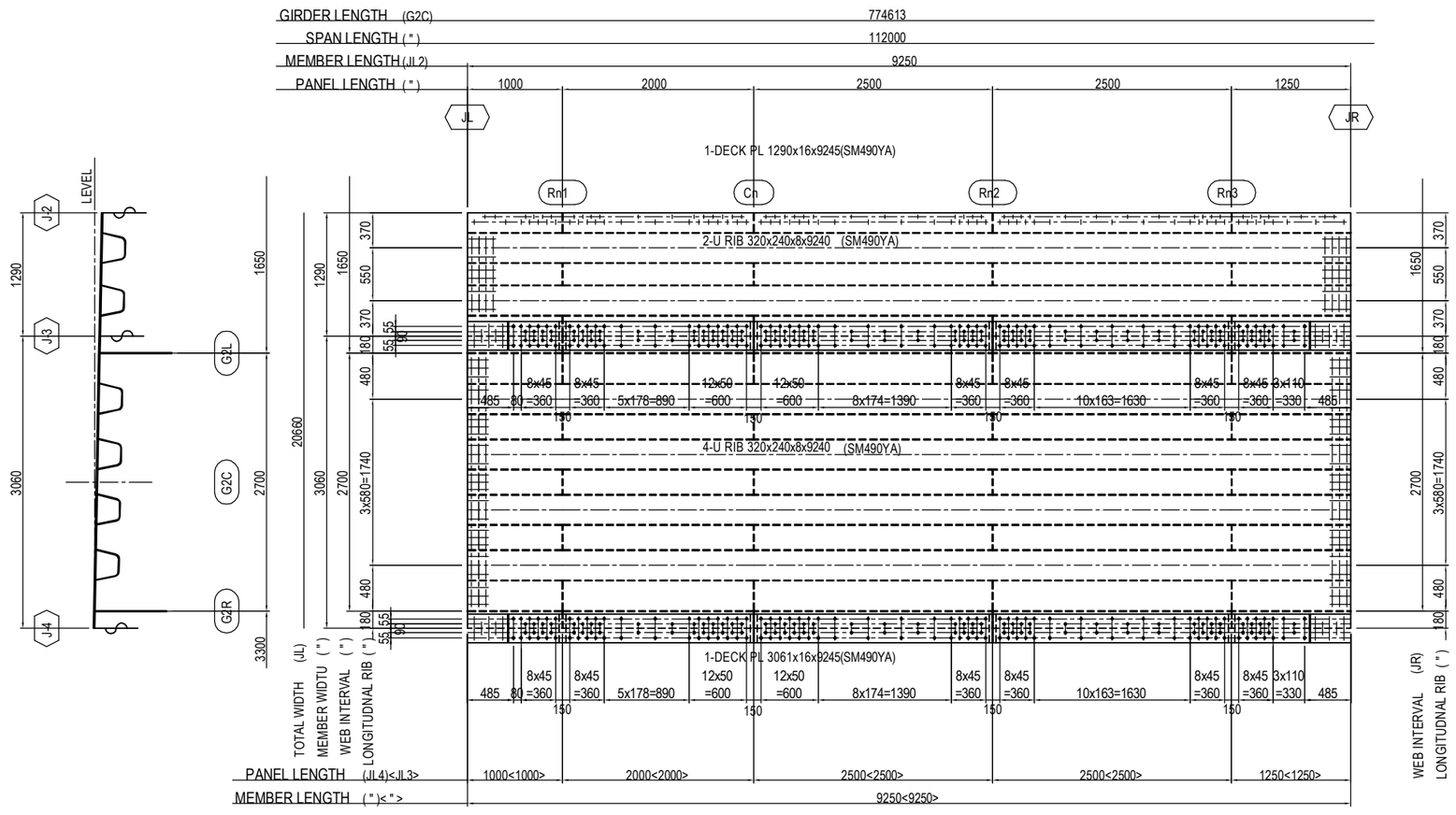
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF DECK PLATE (38)	2
	DWG No.
	P2-SB-1538

DETAIL OF DECK PLATE (39) S=1:60

(2-50,2-62)



	JL	JR	Cn	Rn1	Rn2	Rn3
2-50	J49	J50	C45	R147	R148	R149
2-62	J61	J62	C56	R183	R184	R185

JL3 DECK(TOP SURFACE)

1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
208-TCB M22x70(S10T)

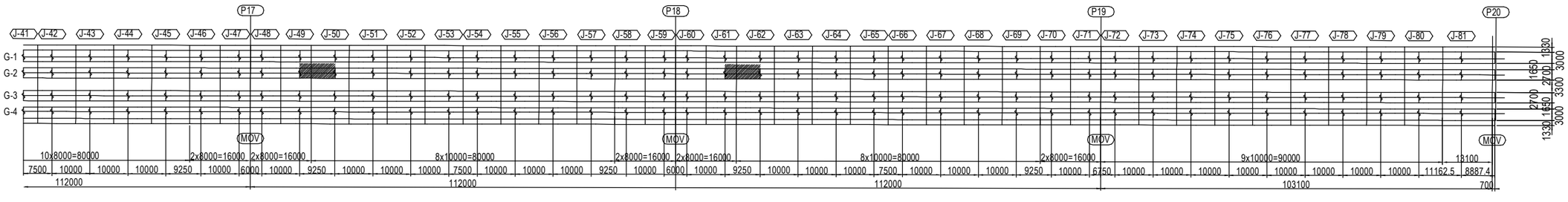
JL4 DECK(TOP SURFACE)

1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
208-TCB M22x70(S10T)

MARKING DIAGRAM

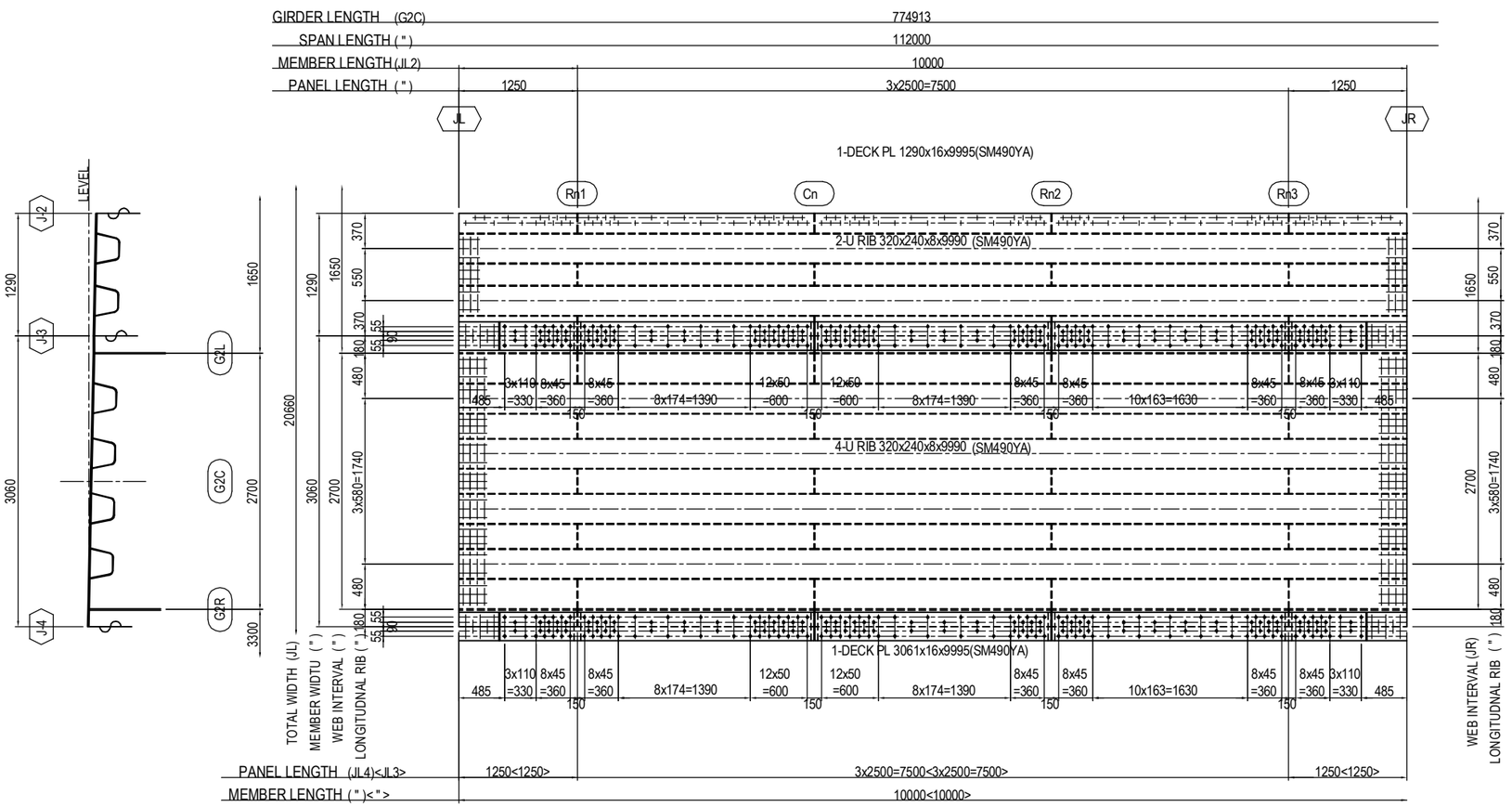


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (39)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1539

DETAIL OF DECK PLATE (40) S=1:60

(2-15,2-16,2-17,2-27,2-28,2-29,2-39,2-40,2-41)



	JL	JR	Cn	Rn1	Rn2	Rn3
2-15	J14	J15	C13	R42	R43	R44
2-16	J15	J16	C14	R45	R46	R47
2-17	J16	J17	C16	R48	R49	R50
2-27	J26	J27	C24	R78	R79	R80
2-28	J27	J28	C25	R81	R82	R83
2-29	J28	J29	C26	R84	R85	R86
2-39	J38	J39	C35	R114	R115	R116
2-40	J39	J40	C36	R117	R118	R119
2-41	J40	J41	C37	R120	R121	R122

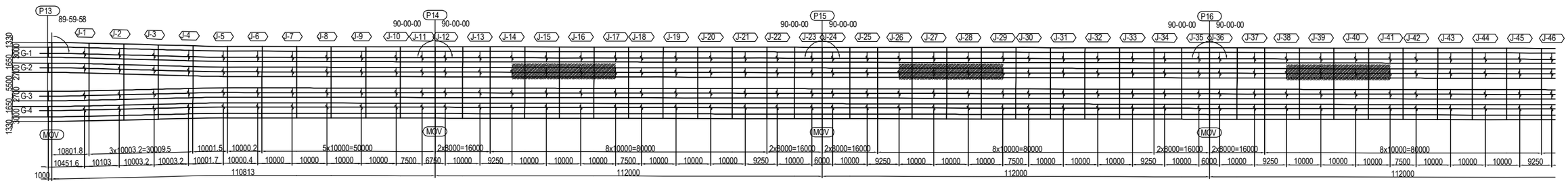
JL3 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

JL4 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM

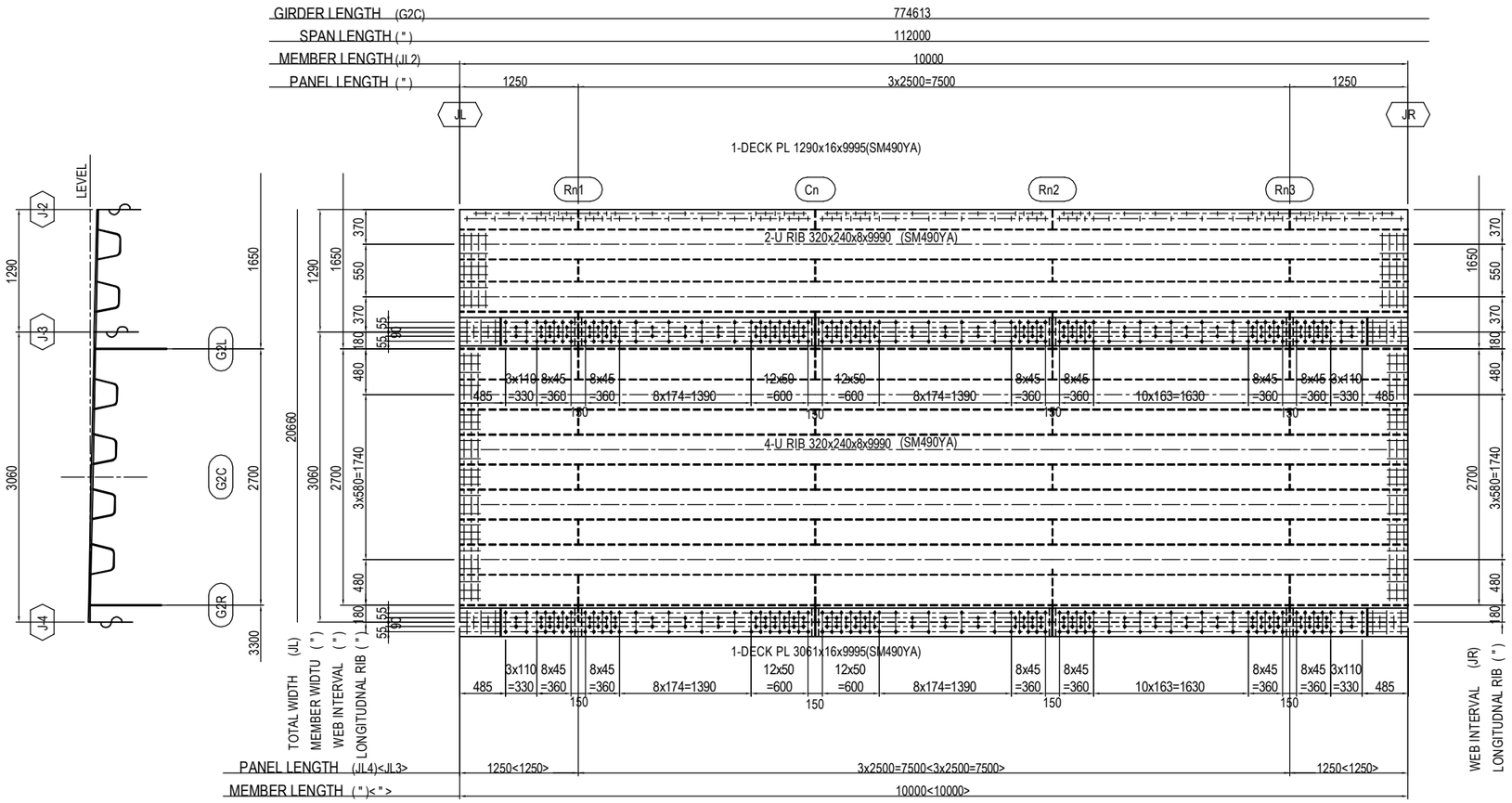


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (40)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1540

DETAIL OF DECK PLATE (41) S=1:60

(2-51,2-52,2-53,2-63,2-64,2-65)



	JL	JR	Cn	Rn1	Rn2	Rn3
2-51	J50	J51	C46	R150	R151	R152
2-52	J51	J52	C47	R153	R154	R155
2-53	J52	J53	C48	R156	R157	R158
2-63	J62	J63	C57	R186	R187	R188
2-64	J63	J64	C58	R189	R190	R191
2-65	J64	J65	C59	R192	R193	R194

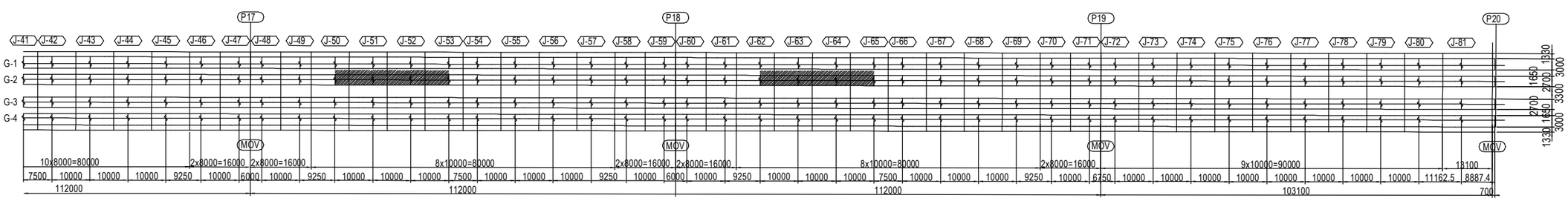
JL3 DECK(TOP SURFACE) (BOTTOM SURFACE)

2-SPL PL 300x9x3310(SM490YA) 2-SPL PL 300x9x 780(SM490YA)
1-SPL PL 300x9x2490(SM490YA) 3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

JL4 DECK(TOP SURFACE) (BOTTOM SURFACE)

2-SPL PL 300x9x3310(SM490YA) 2-SPL PL 300x9x 780(SM490YA)
1-SPL PL 300x9x2490(SM490YA) 3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM

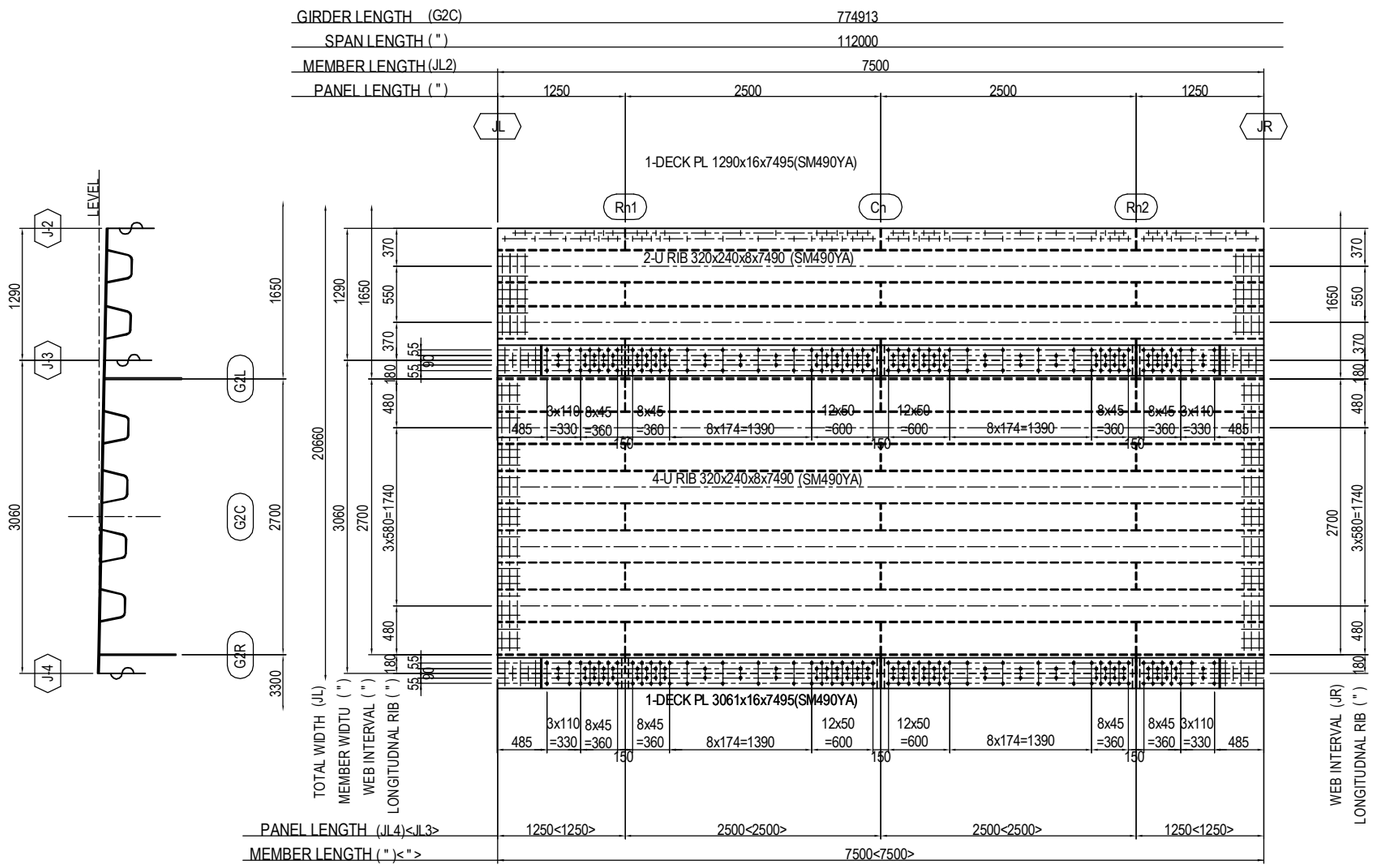


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (41)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1541

DETAIL OF DECK PLATE (42) S=1:60

(2-18,2-30,2-42)

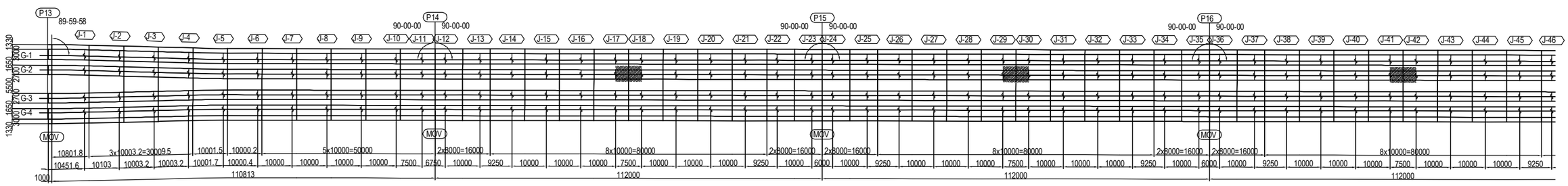


	JL	JR	Cn	Rn1	Rn2
2-18	J17	J18	C16	R51	R52
2-30	J29	J30	C27	R87	R88
2-42	J41	J42	C38	R123	R124

JL3 DECK(TOP SURFACE) (BOTTOM SURFACE)
1-SPL PL 300x9x3310(SM490YA) 2-SPL PL 300x9x 780(SM490YA)
1-SPL PL 300x9x2490(SM490YA) 2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 810(SM490YA) 164-TCB M22x70(S10T)

JL4 DECK(TOP SURFACE) (BOTTOM SURFACE)
1-SPL PL 300x9x3310(SM490YA) 2-SPL PL 300x9x 780(SM490YA)
1-SPL PL 300x9x2490(SM490YA) 2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 810(SM490YA) 164-TCB M22x70(S10T)

MARKING DIAGRAM

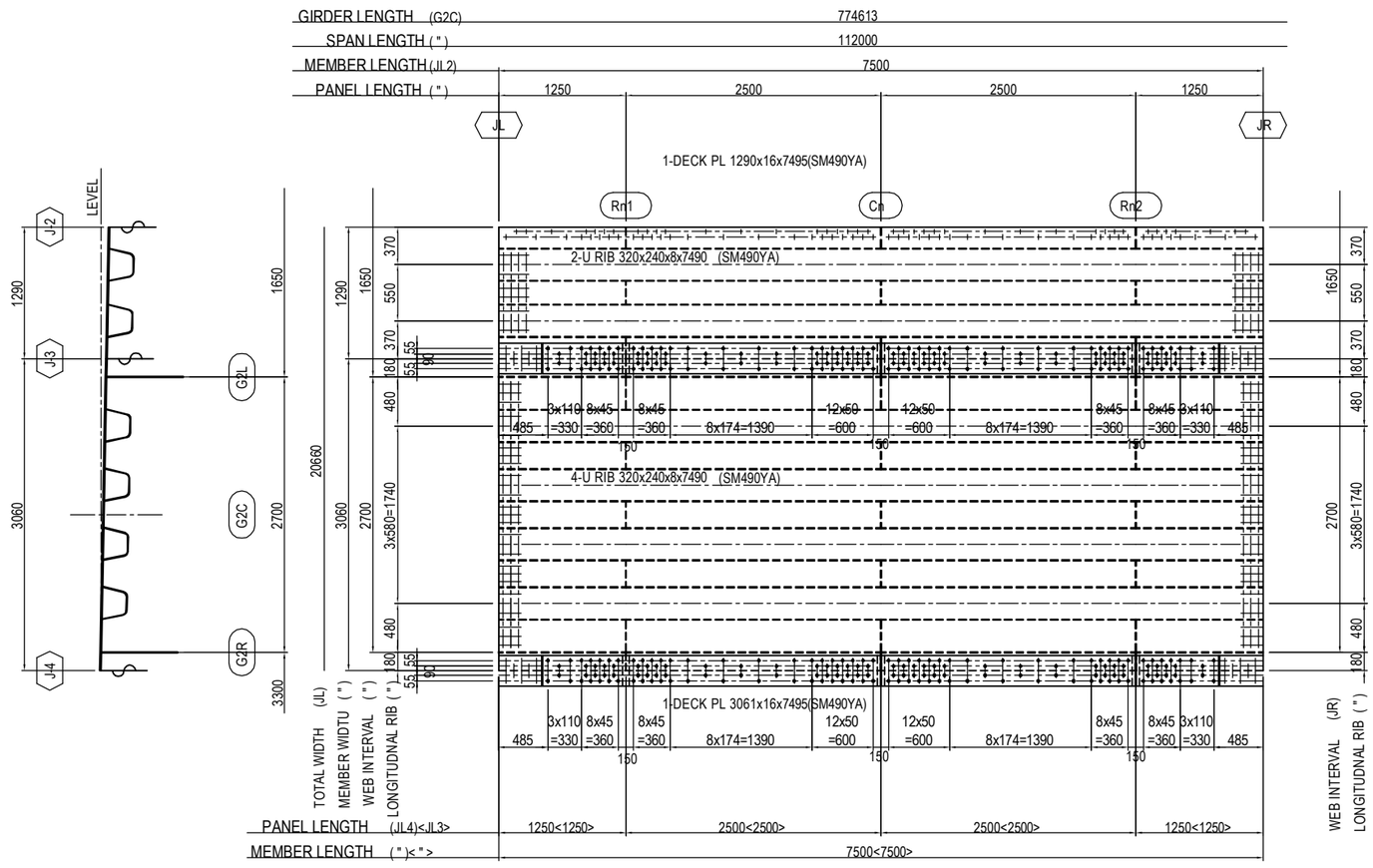


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (42)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1542

DETAIL OF DECK PLATE (43) S=1:60

(2-54,2-66)



	JL	JR	Cn	Rn1	Rn2
2-54	J53	J54	C49	R159	R160
2-66	J65	J66	C60	R195	R196

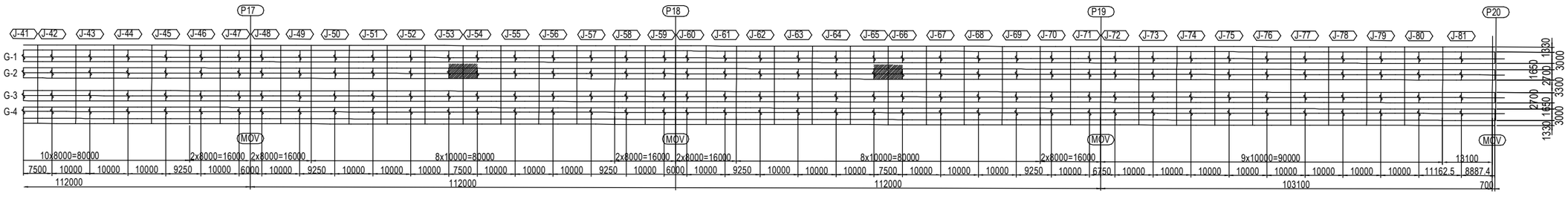
JL3 DECK(TOP SURFACE) (BOTTOM SURFACE)

1-SPL PL 300x9x3310(SM490YA) 2-SPL PL 300x9x 780(SM490YA)
1-SPL PL 300x9x2490(SM490YA) 2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 810(SM490YA) 164-TCB M22x70(S10T)

JL4 DECK(TOP SURFACE) (BOTTOM SURFACE)

1-SPL PL 300x9x3310(SM490YA) 2-SPL PL 300x9x 780(SM490YA)
1-SPL PL 300x9x2490(SM490YA) 2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 810(SM490YA) 164-TCB M22x70(S10T)

MARKING DIAGRAM

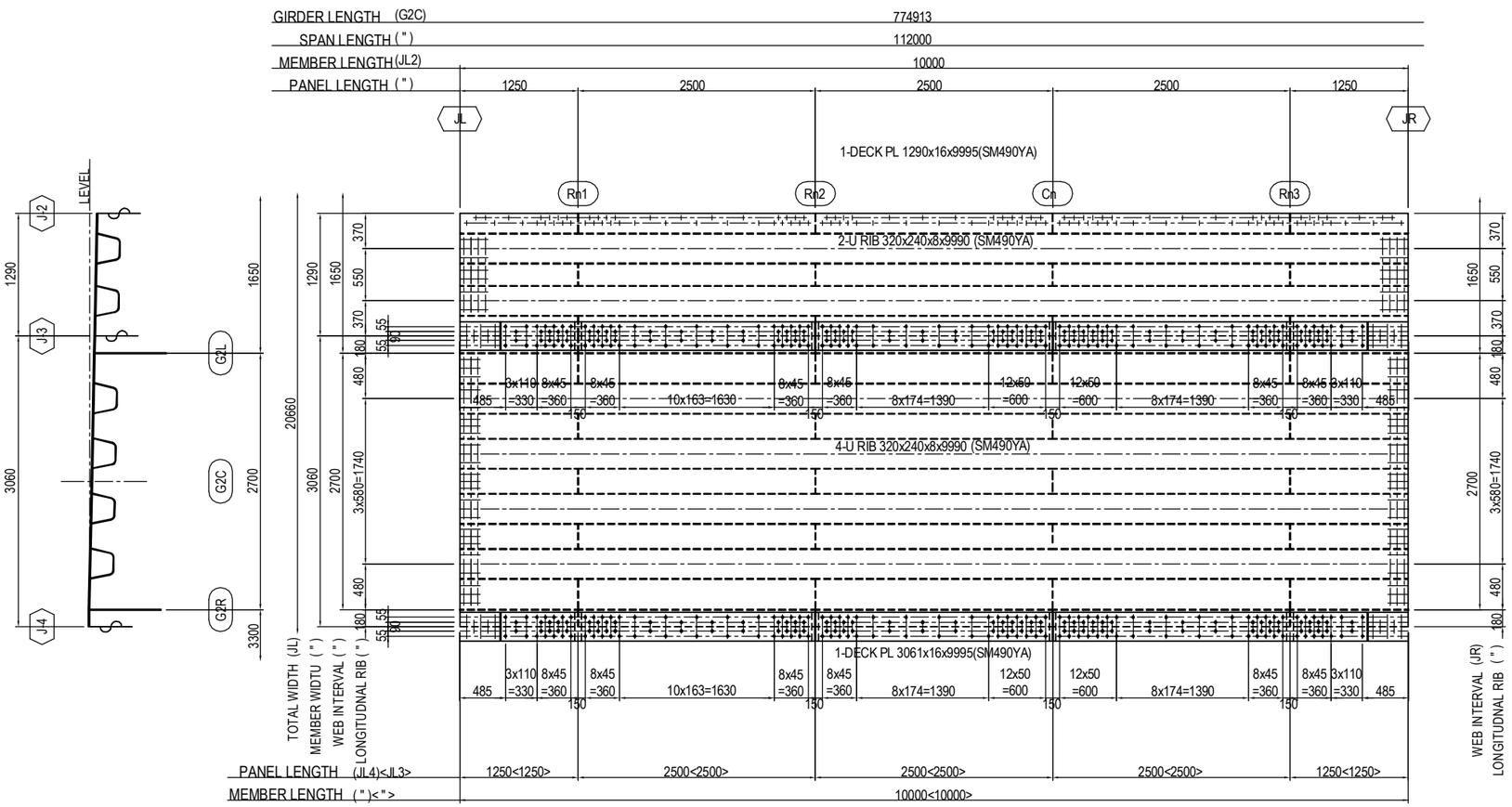


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (43)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1543

DETAIL OF DECK PLATE (44) S=1:60

(2-19,2-20,2-21,2-31,2-32,2-33,2-43,2-44,2-45)



	JL	JR	Cn	Rn1	Rn2	Rn3
2-19	J18	J19	C17	R53	R54	R55
2-20	J19	J20	C18	R56	R57	R58
2-21	J20	J21	C19	R59	R60	R61
2-31	J30	J31	C28	R89	R90	R91
2-32	J31	J32	C29	R92	R93	R94
2-33	J32	J33	C30	R95	R96	R97
2-43	J42	J43	C39	R125	R126	R127
2-44	J43	J44	C40	R128	R129	R130
2-45	J44	J45	C41	R131	R132	R133

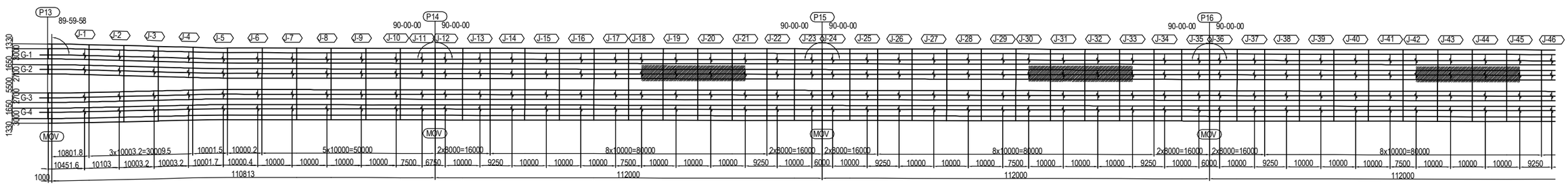
JL3 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

JL4 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM



PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME / SIGNATURE / DATE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA 15 Jun.2017
				CHECKED BY	T. HAYAKAWA 20 Jun.2017
				APPROVED BY	Y. SANO 21 Jun.2017

DRAWING TITLE: DETAIL OF DECK PLATE (44)

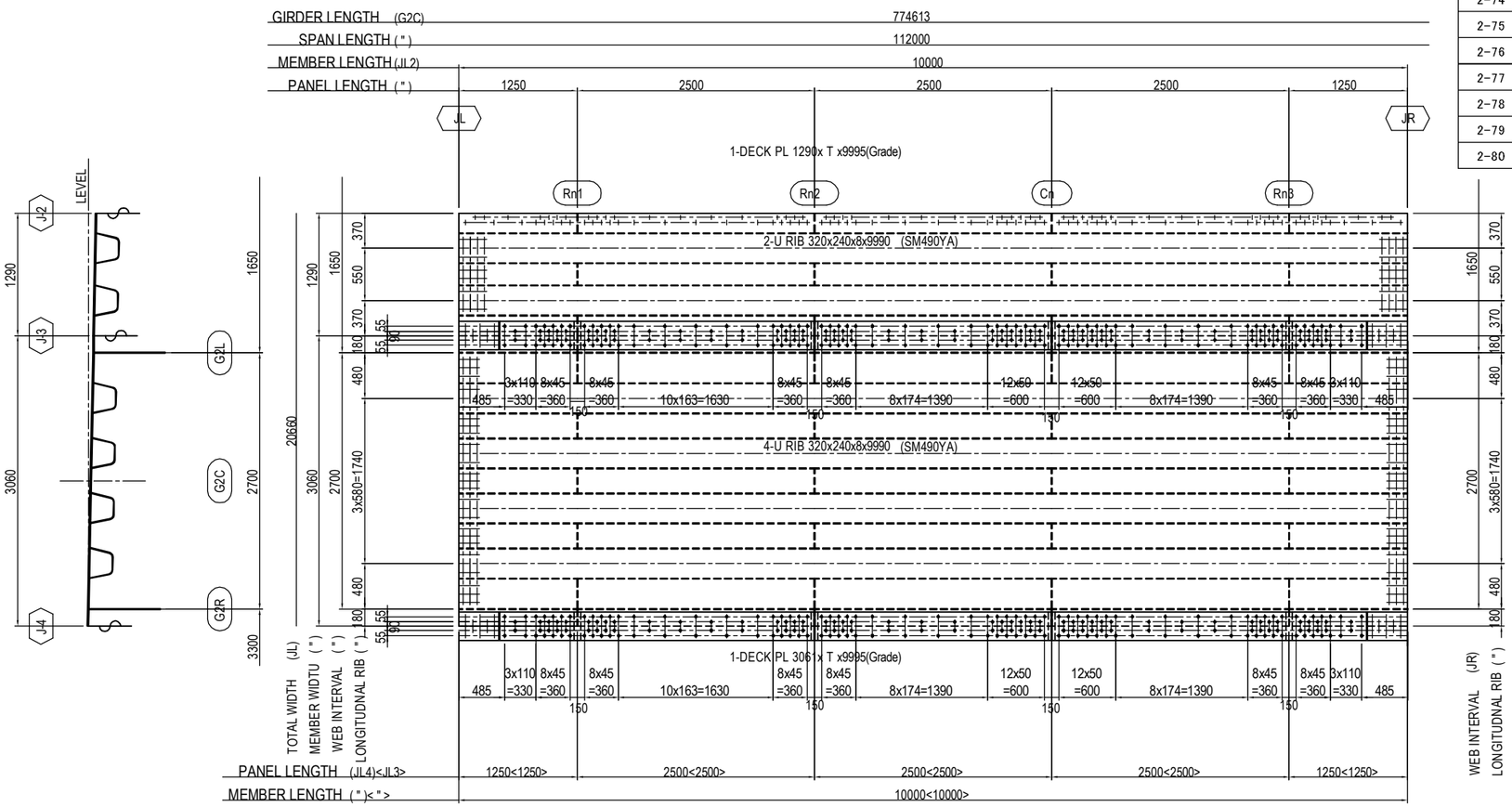
PACKAGE: 2

DWG No.: P2-SB-1544

DETAIL OF DECK PLATE (45) S=1:60

(2-55,2-56,2-57,2-67,2-68,2-69,2-73,2-74,2-75,2-76,2-77,2-78,2-79,2-80)

	JL	JR	Cn	Rn1	Rn2	Rn3	T	Grade	L
2-55	J54	J55	C50	R161	R162	R163	16	SM490YA	70
2-56	J55	J56	C51	R164	R165	R166	16	SM490YA	70
2-57	J56	J57	C52	R167	R168	R169	16	SM490YA	70
2-67	J66	J67	C61	R197	R198	R199	16	SM490YA	70
2-68	J67	J68	C62	R200	R201	R202	16	SM490YA	70
2-69	J68	J69	C63	R203	R204	R205	16	SM490YA	70
2-73	J72	J73	C66	R215	R216	R217	25	SM490YB	80
2-74	J73	J74	C67	R218	R219	R220	16	SM490YA	70
2-75	J74	J75	C68	R221	R222	R223	16	SM490YA	70
2-76	J75	J76	C69	R224	R225	R226	16	SM490YA	70
2-77	J76	J77	C70	R227	R228	R229	16	SM490YA	70
2-78	J77	J78	C71	R230	R231	R232	16	SM490YA	70
2-79	J78	J79	C72	R233	R234	R235	16	SM490YA	70
2-80	J79	J80	C73	R236	R237	R238	16	SM490YA	70



JL3 DECK(TOP SURFACE)

2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)

2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22xL(S10T)

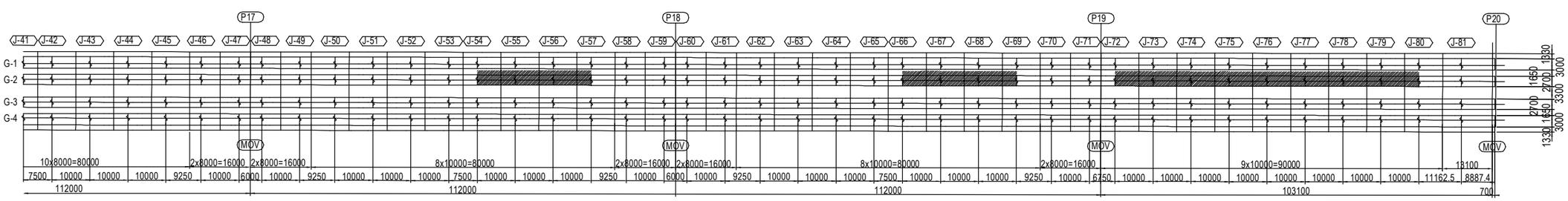
JL4 DECK(TOP SURFACE)

2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)

2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22xL(S10T)

MARKING DIAGRAM

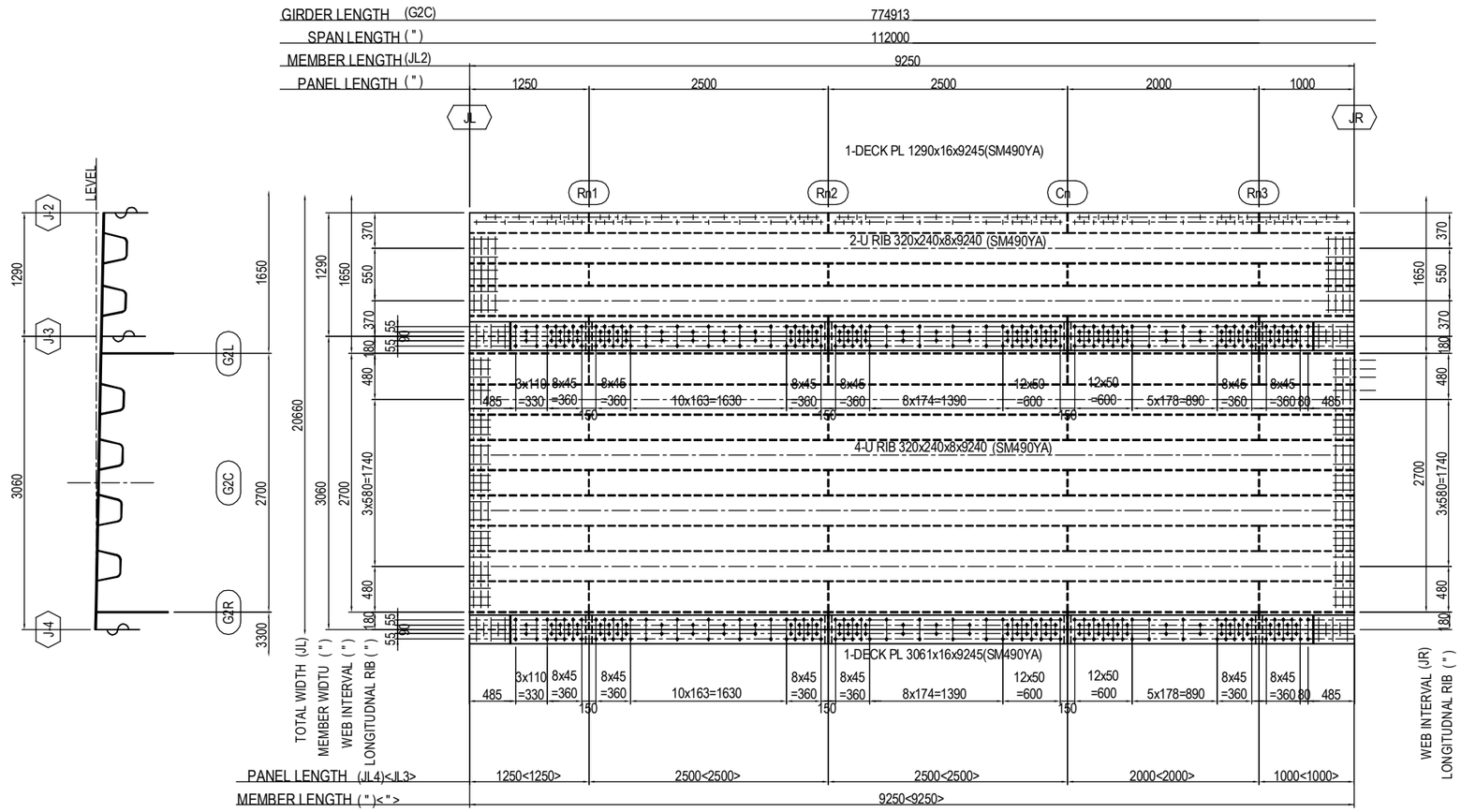


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (45)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1545

DETAIL OF DECK PLATE (46) S=1:60

(2-22,2-34,2-46)



	JL	JR	Cn	Rn1	Rn2	Rn3
2-22	J21	J22	C20	R62	R63	R64
2-34	J33	J34	C31	R98	R99	R100
2-46	J45	J46	C42	R134	R135	R136

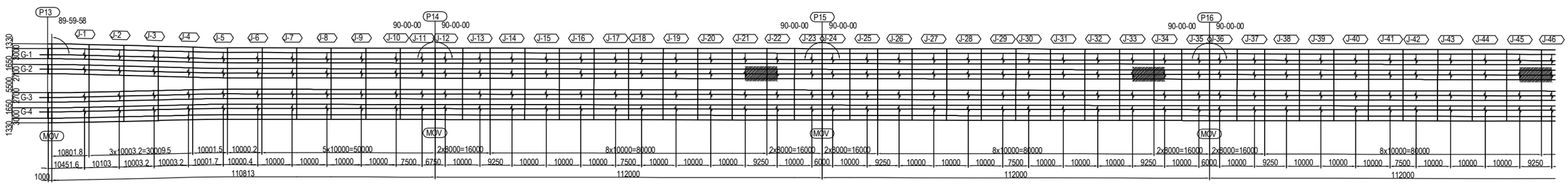
JL3 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
208-TCB M22x70(S10T)

JL4 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
208-TCB M22x70(S10T)

MARKING DIAGRAM

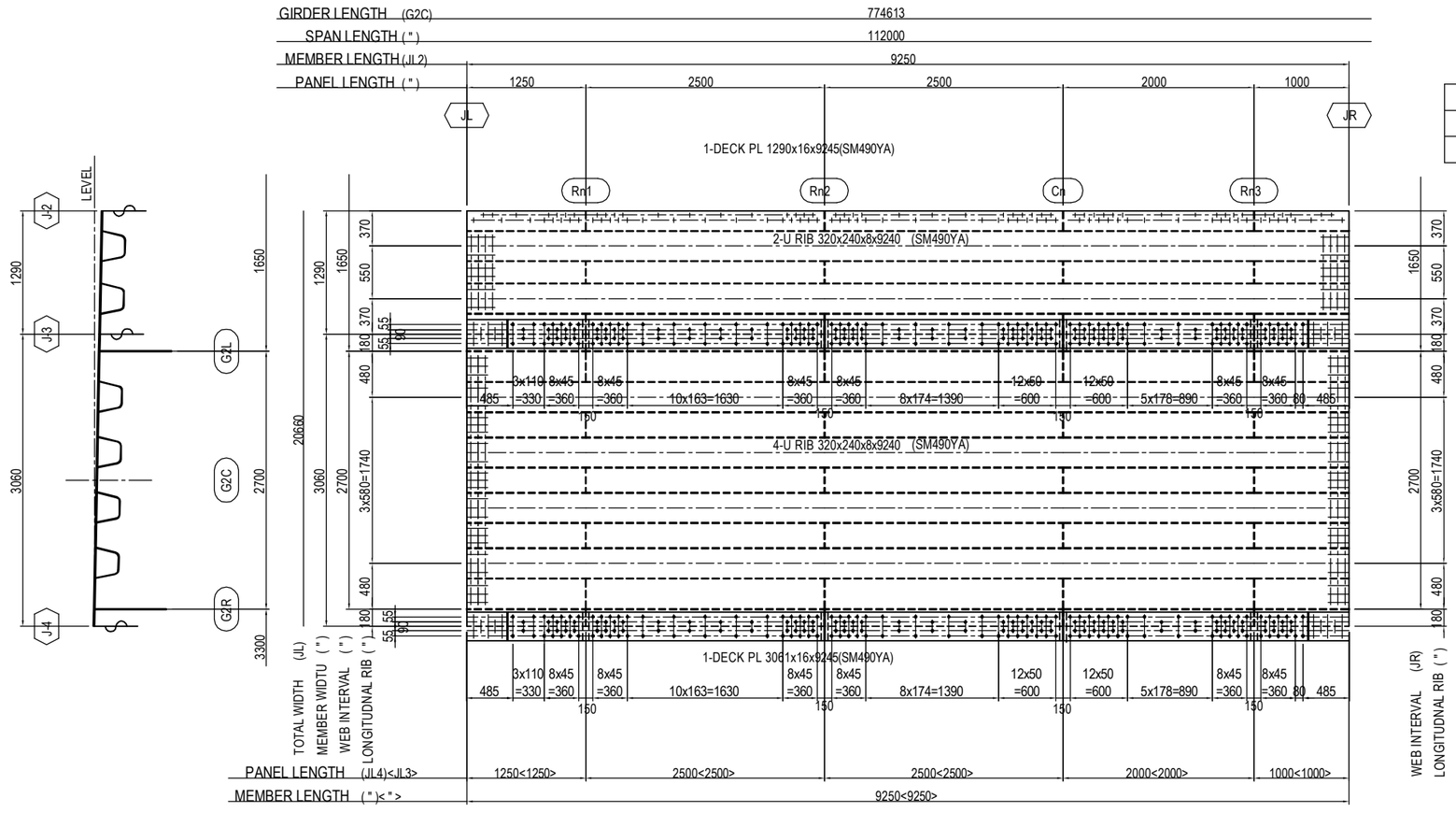


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (46)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1546

DETAIL OF DECK PLATE (47) S=1:60

(2-58,2-70)



	JL	JR	Cn	Rn1	Rn2	Rn3
2-58	J57	J58	C53	R170	R171	R172
2-70	J69	J70	C64	R206	R207	R208

JL3 DECK(TOP SURFACE)

1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
208-TCB M22x70(S10T)

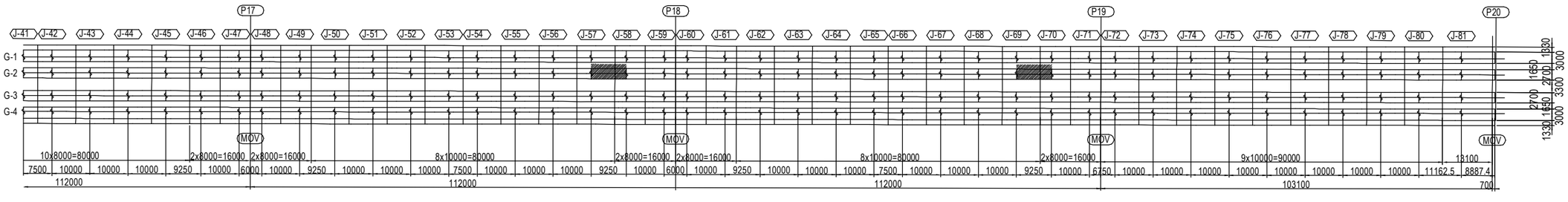
JL4 DECK(TOP SURFACE)

1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
208-TCB M22x70(S10T)

MARKING DIAGRAM

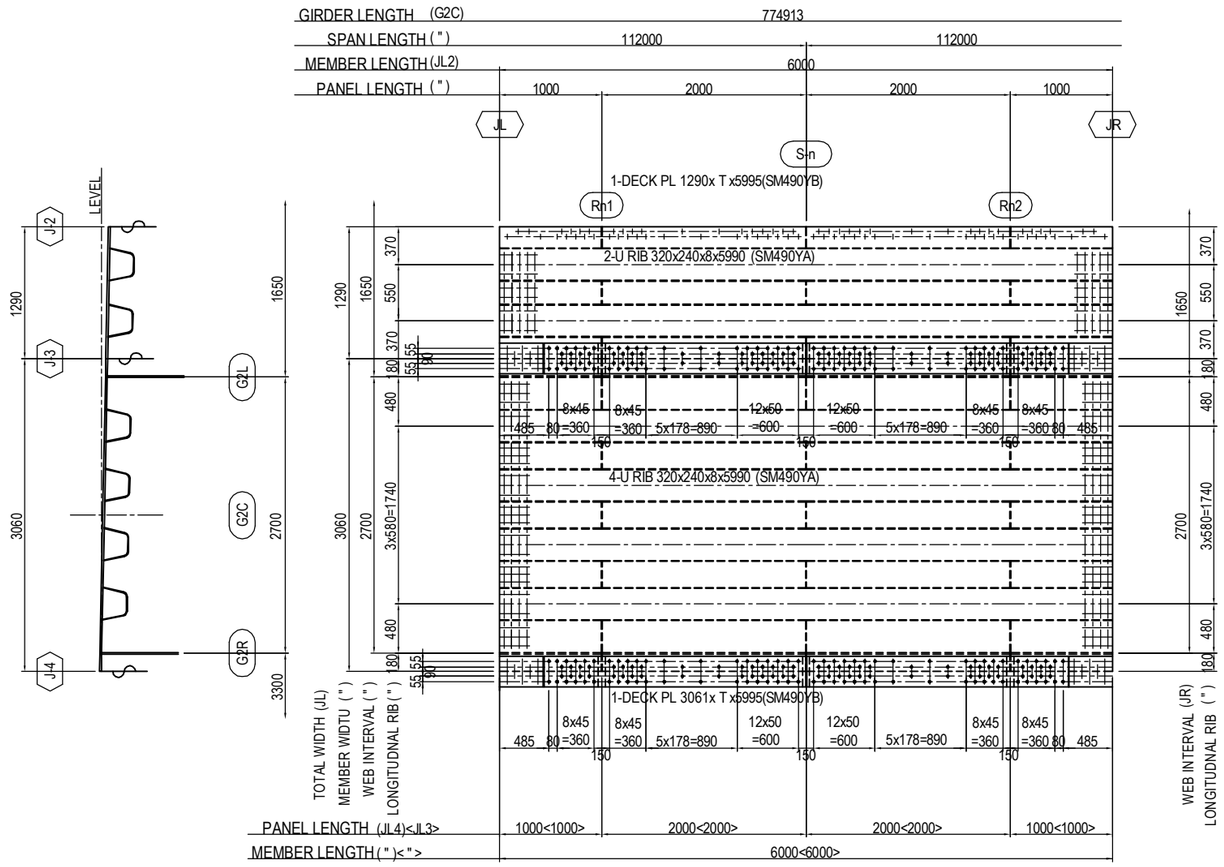


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (47)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1547

DETAIL OF DECK PLATE (48) S=1:60

(2-24,2-36)



	JL	JR	Cn	Rn1	Rn2	T
2-24	J23	J24	S3	R69	R70	19
2-36	J35	J36	S4	R105	R106	22

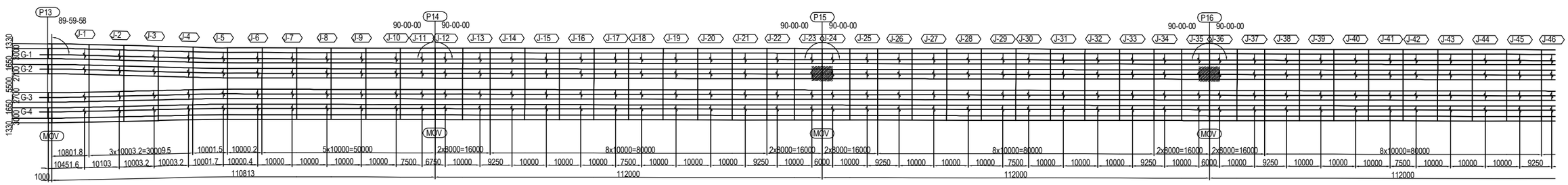
JL3 DECK(TOP SURFACE)
2-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 530(SM490YA)
2-SPL PL 300x9x1930(SM490YA)
144-TCB M22x75(S10T)

JL4 DECK(TOP SURFACE)
2-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 530(SM490YA)
2-SPL PL 300x9x1930(SM490YA)
144-TCB M22x75(S10T)

MARKING DIAGRAM



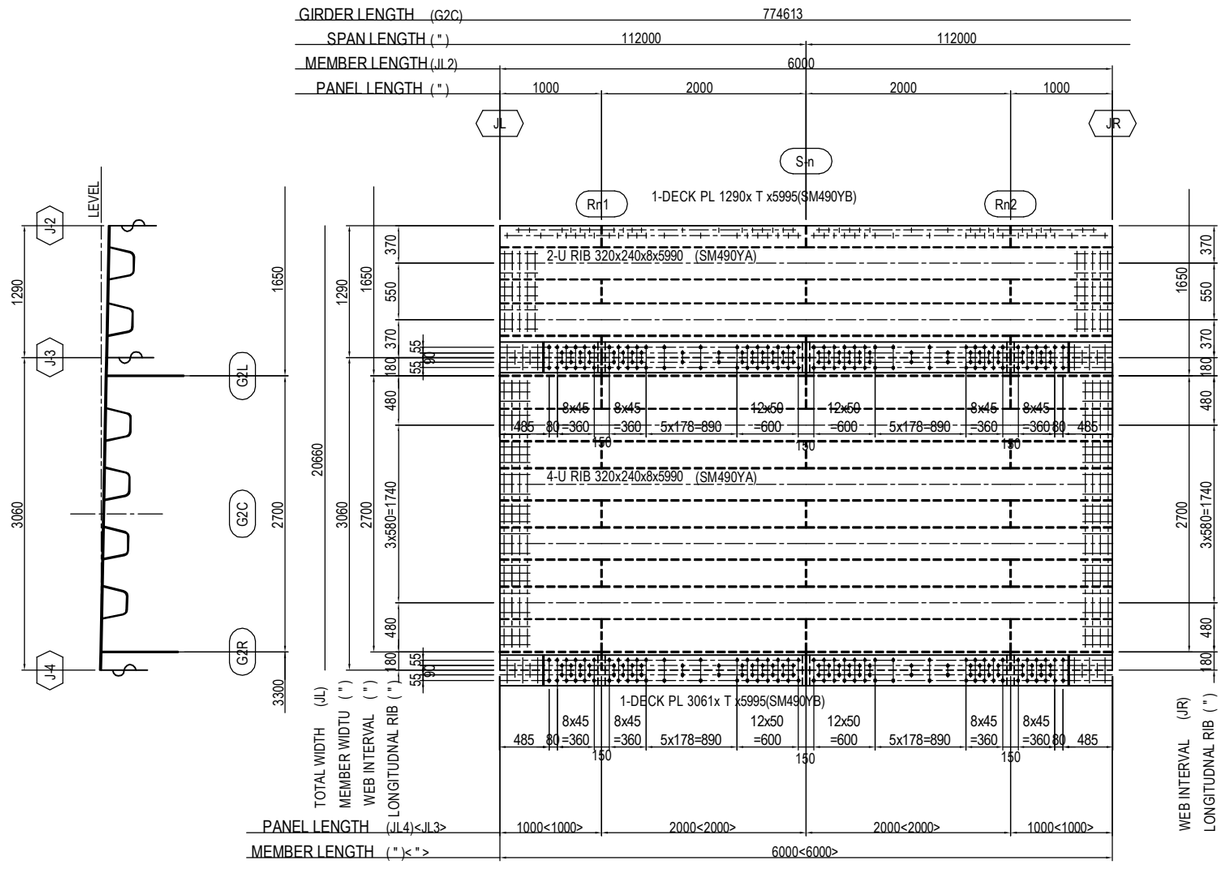
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF DECK PLATE (48)	2
	DWG No.
	P2-SB-1548

DETAIL OF DECK PLATE (49) S=1:60

(2-48,2-60)



	JL	JR	Cn	Rn1	Rn2	T
2-48	J47	J48	S5	R141	R142	21
2-60	J59	J60	S6	R177	R178	20

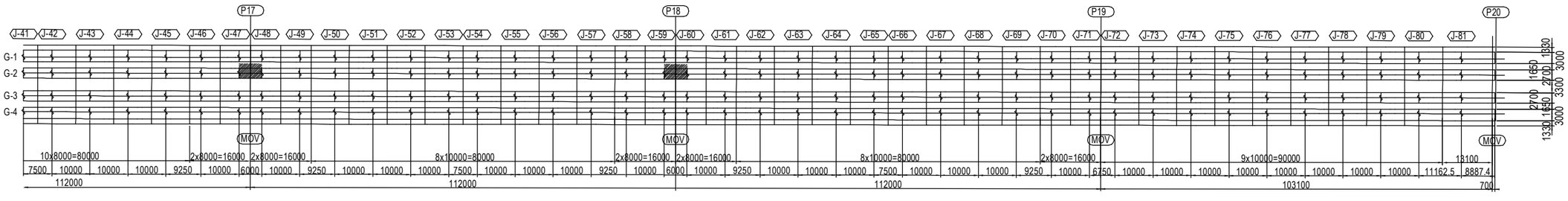
JL3 DECK(TOP SURFACE) (BOTTOM SURFACE)

2-SPL PL 300x9x2560(SM490YA) 2-SPL PL 300x9x 530(SM490YA)
2-SPL PL 300x9x1930(SM490YA)
144-TCB M22x75(S10T)

JL4 DECK(TOP SURFACE) (BOTTOM SURFACE)

2-SPL PL 300x9x2560(SM490YA) 2-SPL PL 300x9x 530(SM490YA)
2-SPL PL 300x9x1930(SM490YA)
144-TCB M22x75(S10T)

MARKING DIAGRAM

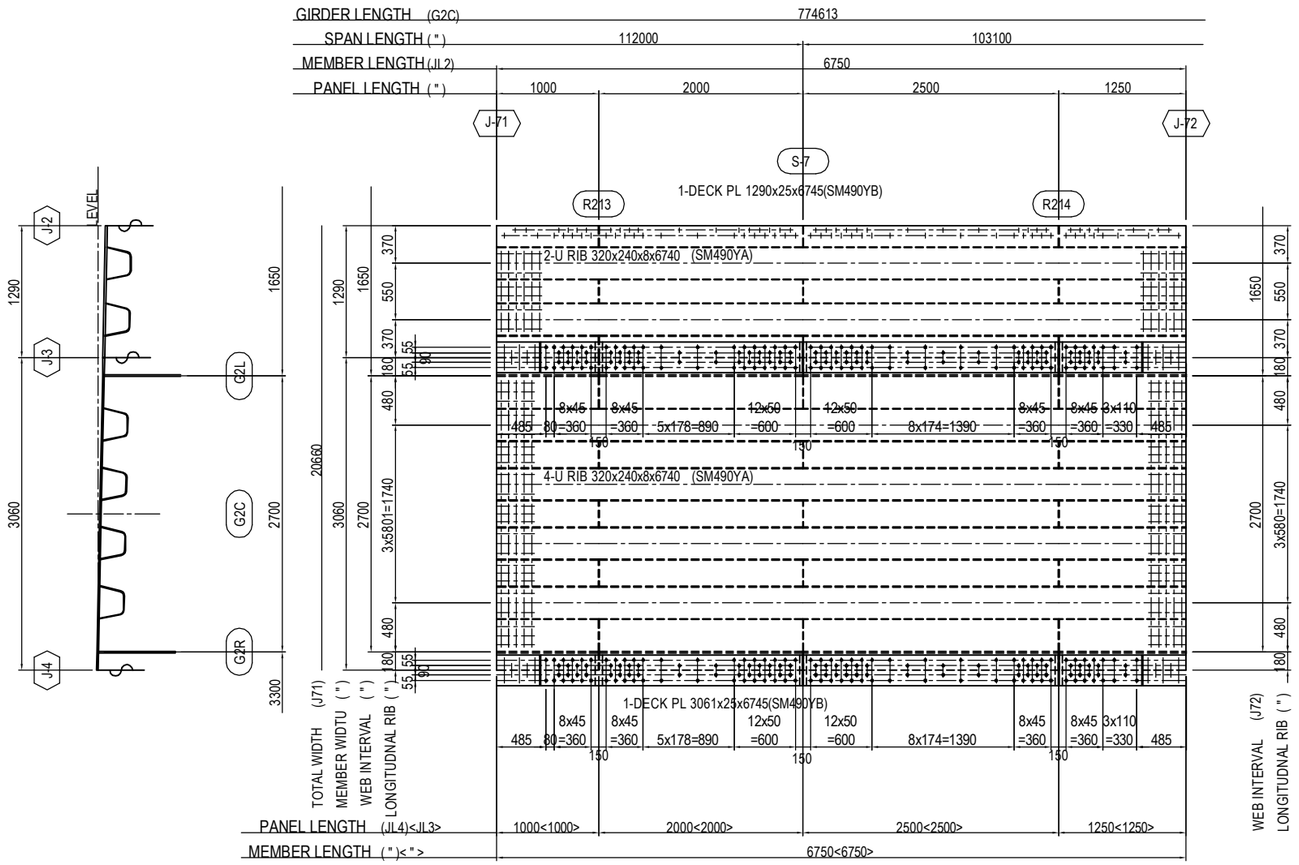


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	DRAWING TITLE: DETAIL OF DECK PLATE (49)	PACKAGE: 2 / DWG No.: P2-SB-1549

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DETAIL OF DECK PLATE (50) S=1:60

(2-72)



JL3 DECK(TOP SURFACE)

1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
154-TCB M22x80(S10T)

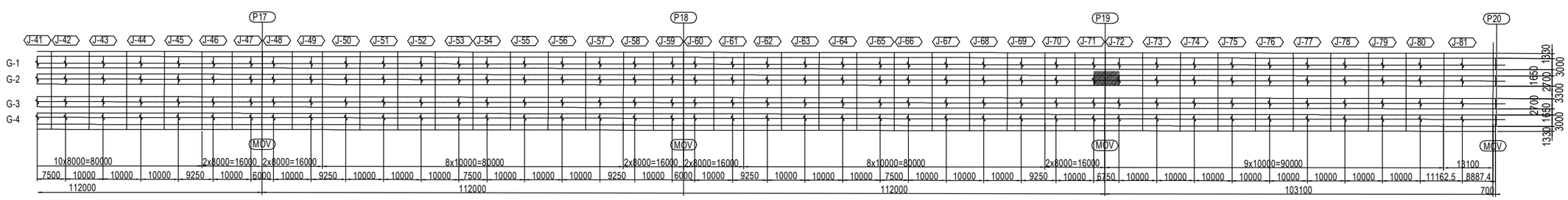
JL4 DECK(TOP SURFACE)

1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
154-TCB M22x80(S10T)

MARKING DIAGRAM

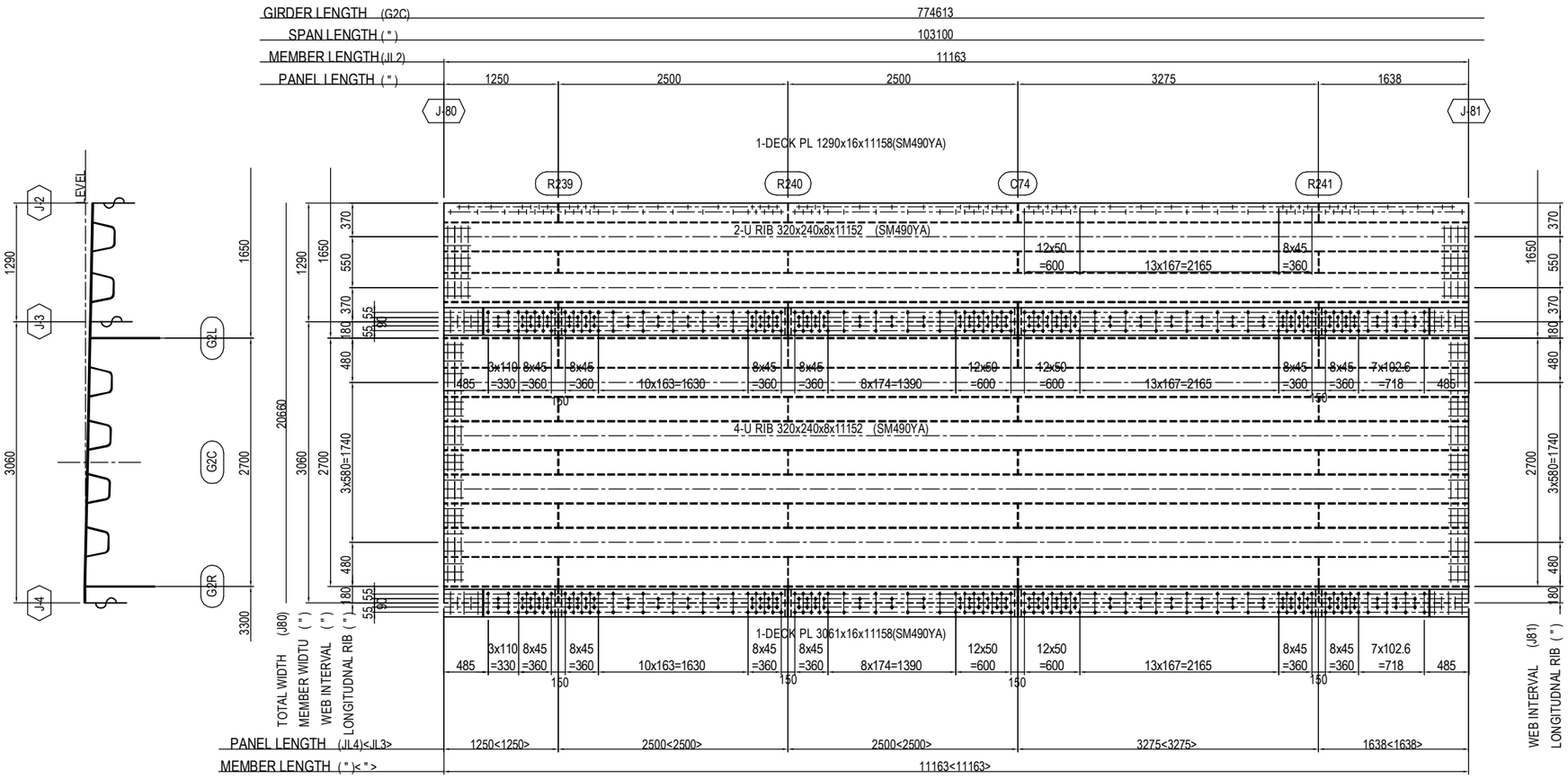


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (50)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1550

DETAIL OF DECK PLATE (51) S=1:60

(2-81)



JL3 DECK(TOP SURFACE)

1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x4473(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x3205(SM490YA)
1-SPL PL 300x9x1168(SM490YA)
236-TCB M22x70(S10T)

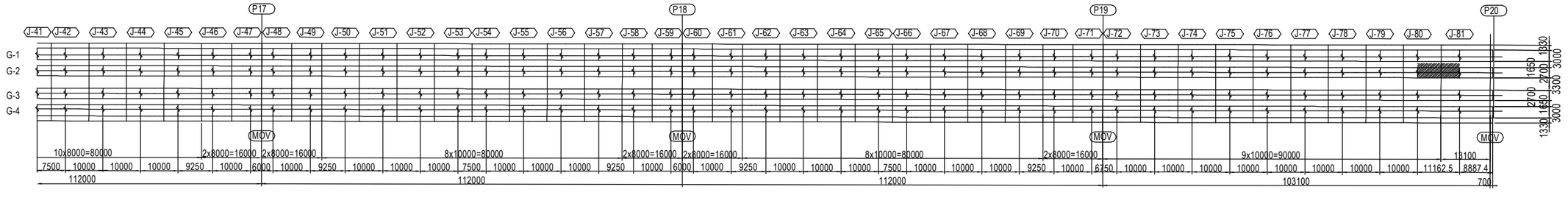
JL4 DECK(TOP SURFACE)

1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x4473(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x3205(SM490YA)
1-SPL PL 300x9x1168(SM490YA)
236-TCB M22x70(S10T)

MARKING DIAGRAM

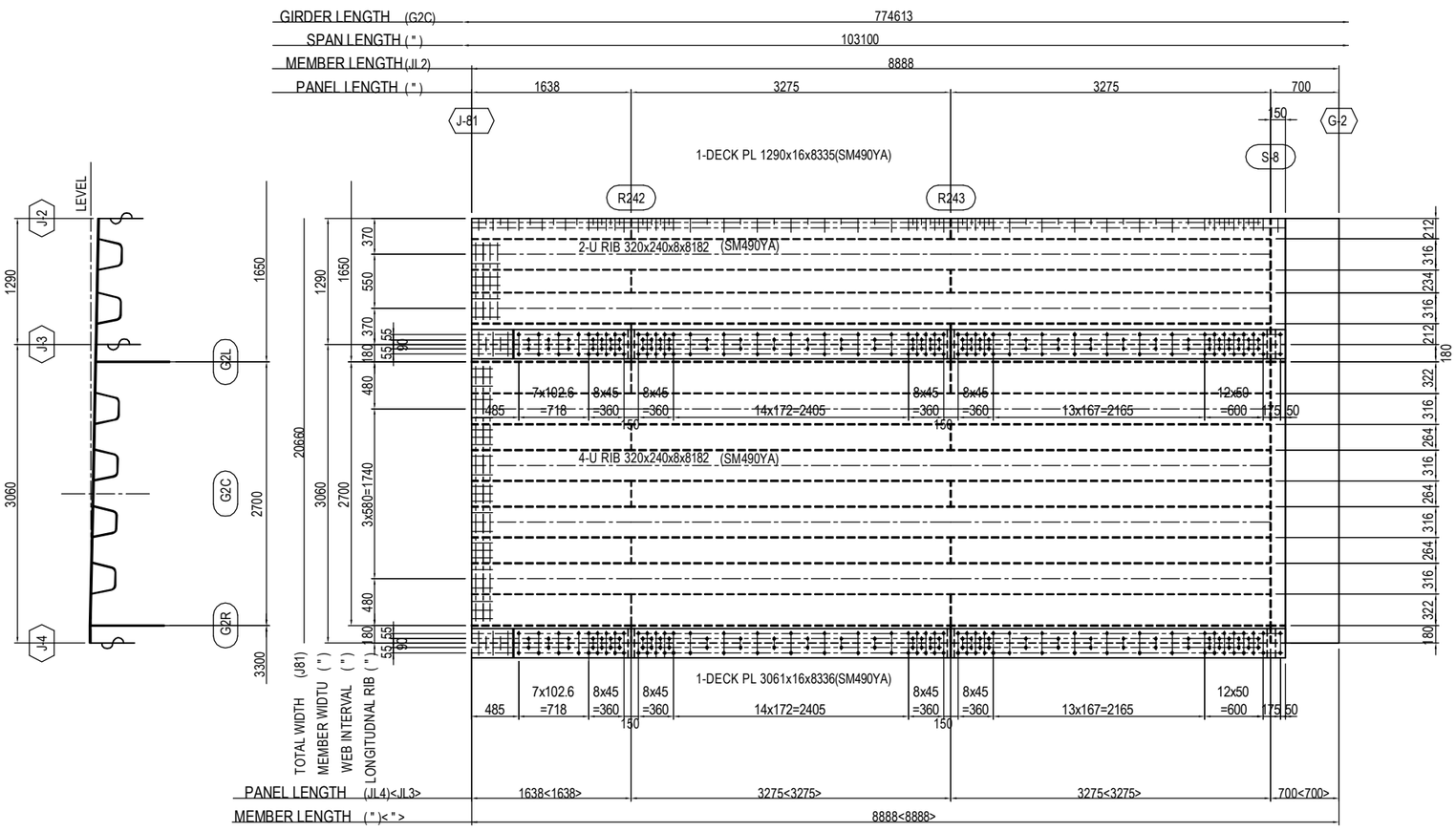


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (51)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1551

DETAIL OF DECK PLATE (52) S=1:60

(2-82)



JL3 DECK(TOP SURFACE)

1-SPL PL 300x9x1198(SM490YA)
1-SPL PL 300x9x3265(SM490YA)
1-SPL PL 300x9x3420(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x1168(SM490YA)
2-SPL PL 300x9x3205(SM490YA)
1-SPL PL 300x9x 100(SM490YA)
164-TCB M22x70(S10T)

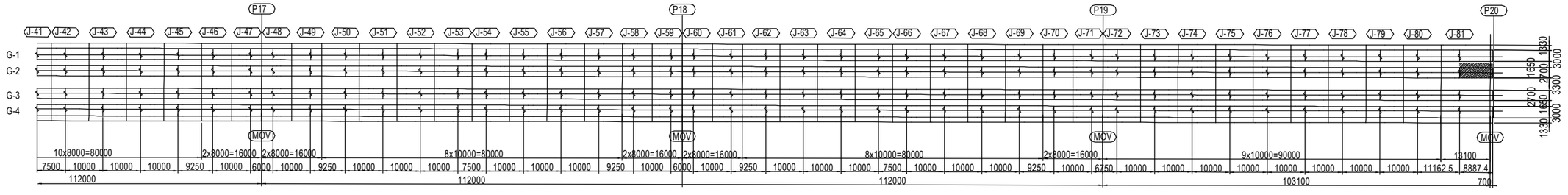
JL4 DECK(TOP SURFACE)

1-SPL PL 300x9x1198(SM490YA)
1-SPL PL 300x9x3265(SM490YA)
1-SPL PL 300x9x3420(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x1168(SM490YA)
2-SPL PL 300x9x3205(SM490YA)
1-SPL PL 300x9x 100(SM490YA)
164-TCB M22x70(S10T)

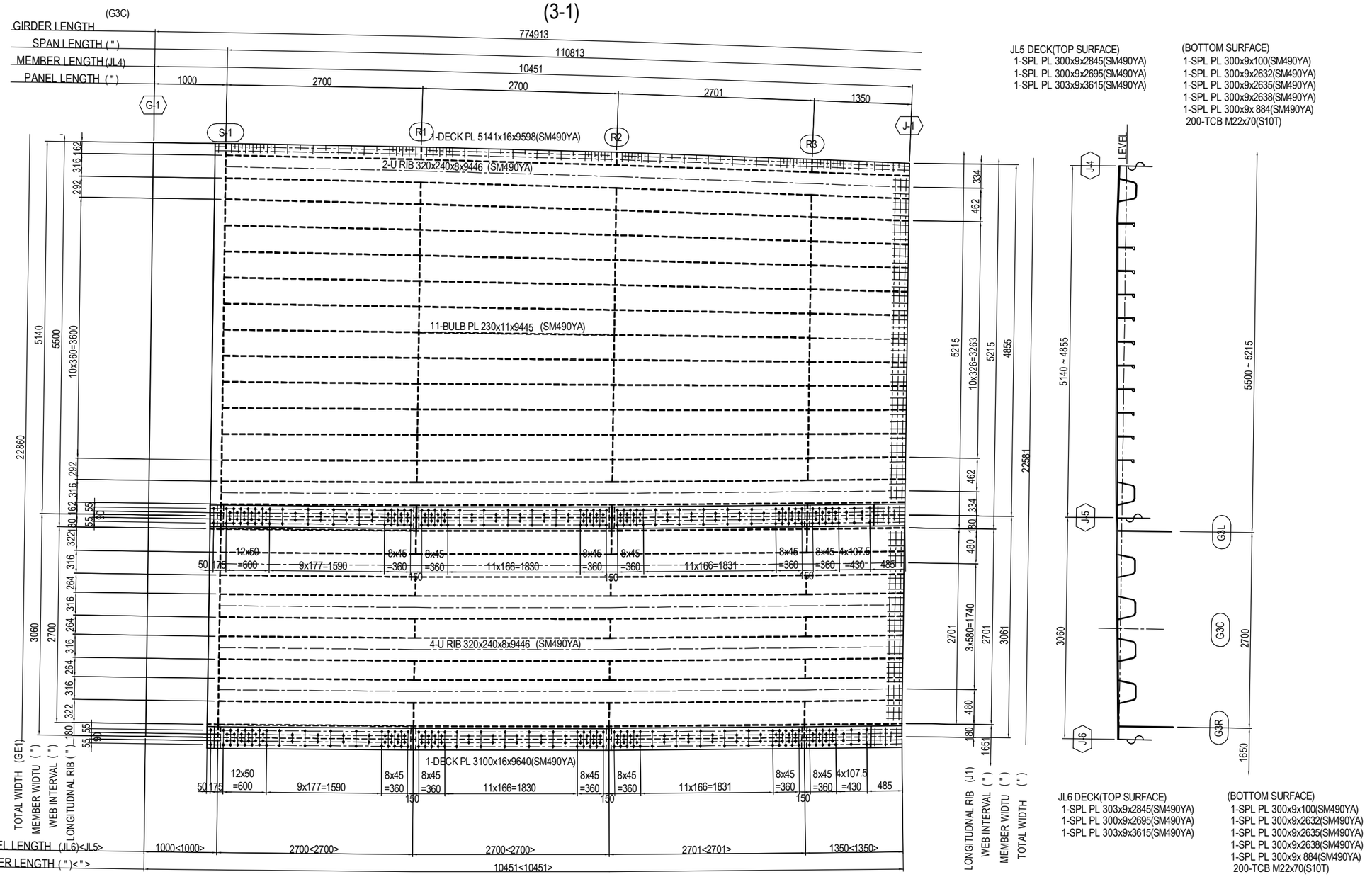
MARKING DIAGRAM



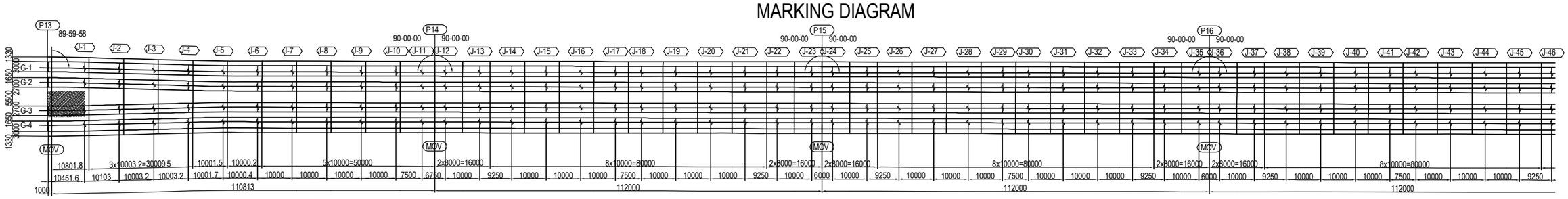
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (52)	2
				CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1552

DETAIL OF DECK PLATE (53) S=1:60

(3-1)



MARKING DIAGRAM

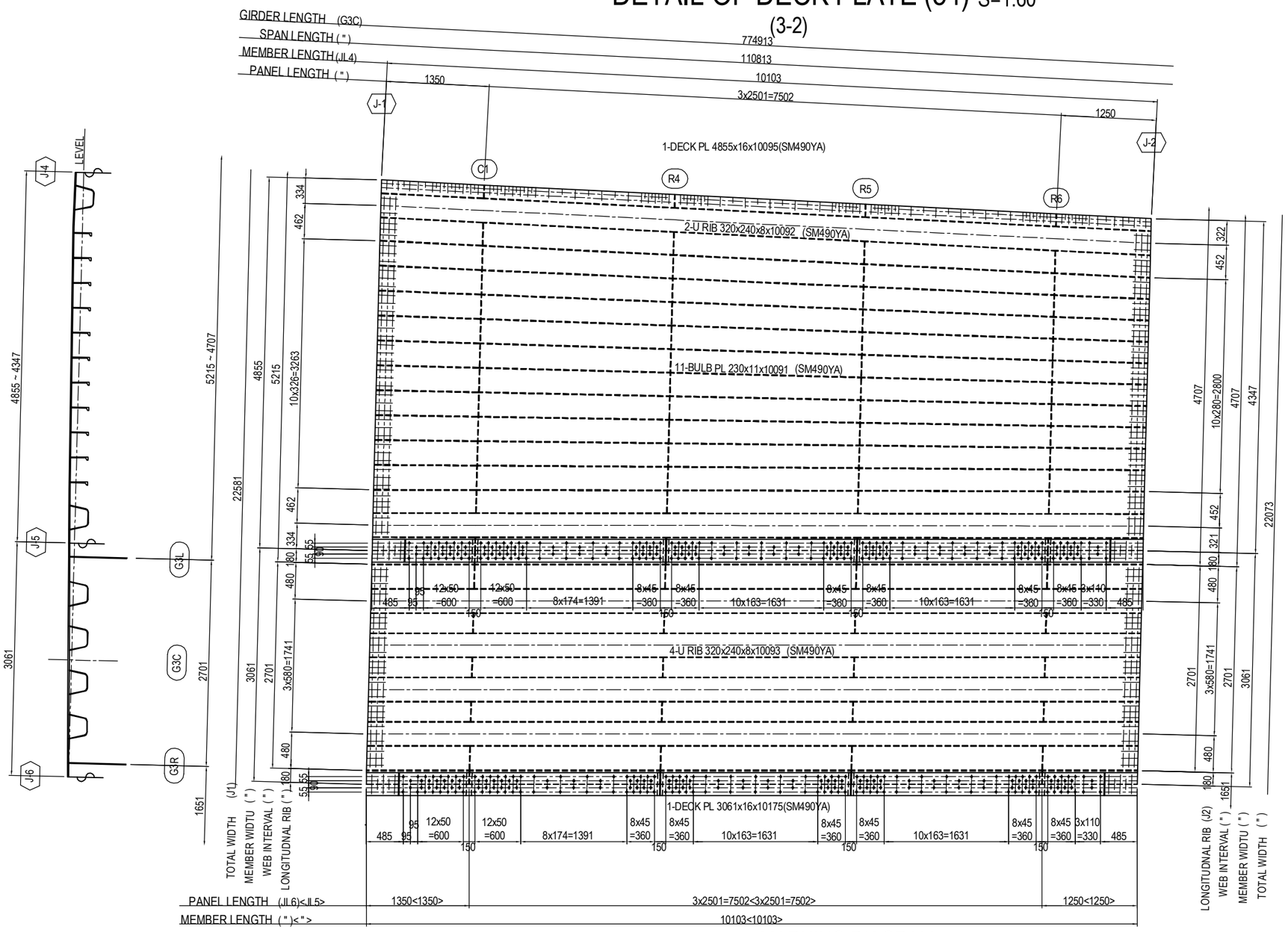


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (53)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1553

DETAIL OF DECK PLATE (54) S=1:60

(3-2)



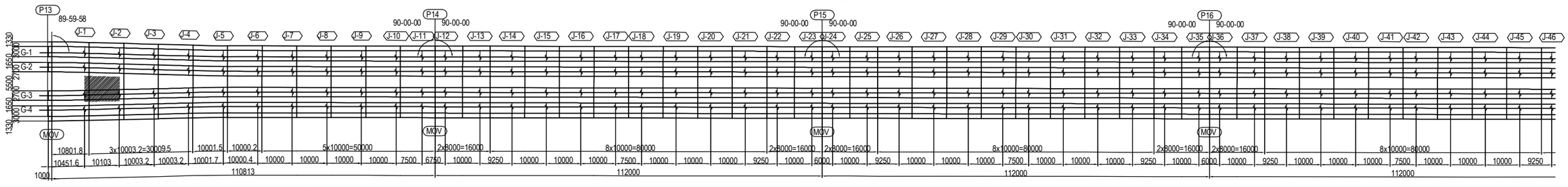
JL5 DECK(TOP SURFACE)
1-SPL PL 300x9x3419(SM490YA)
1-SPL PL 300x9x2499(SM490YA)
1-SPL PL 300x9x3319(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 888(SM490YA)
3-SPL PL 300x9x2439(SM490YA)
1-SPL PL 300x9x 788(SM490YA)
220-TCB M22x70(S10T)

JL6 DECK(TOP SURFACE)
1-SPL PL 300x9x3419(SM490YA)
1-SPL PL 300x9x2499(SM490YA)
1-SPL PL 300x9x3319(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 888(SM490YA)
3-SPL PL 300x9x2439(SM490YA)
1-SPL PL 300x9x 788(SM490YA)
220-TCB M22x70(S10T)

MARKING DIAGRAM

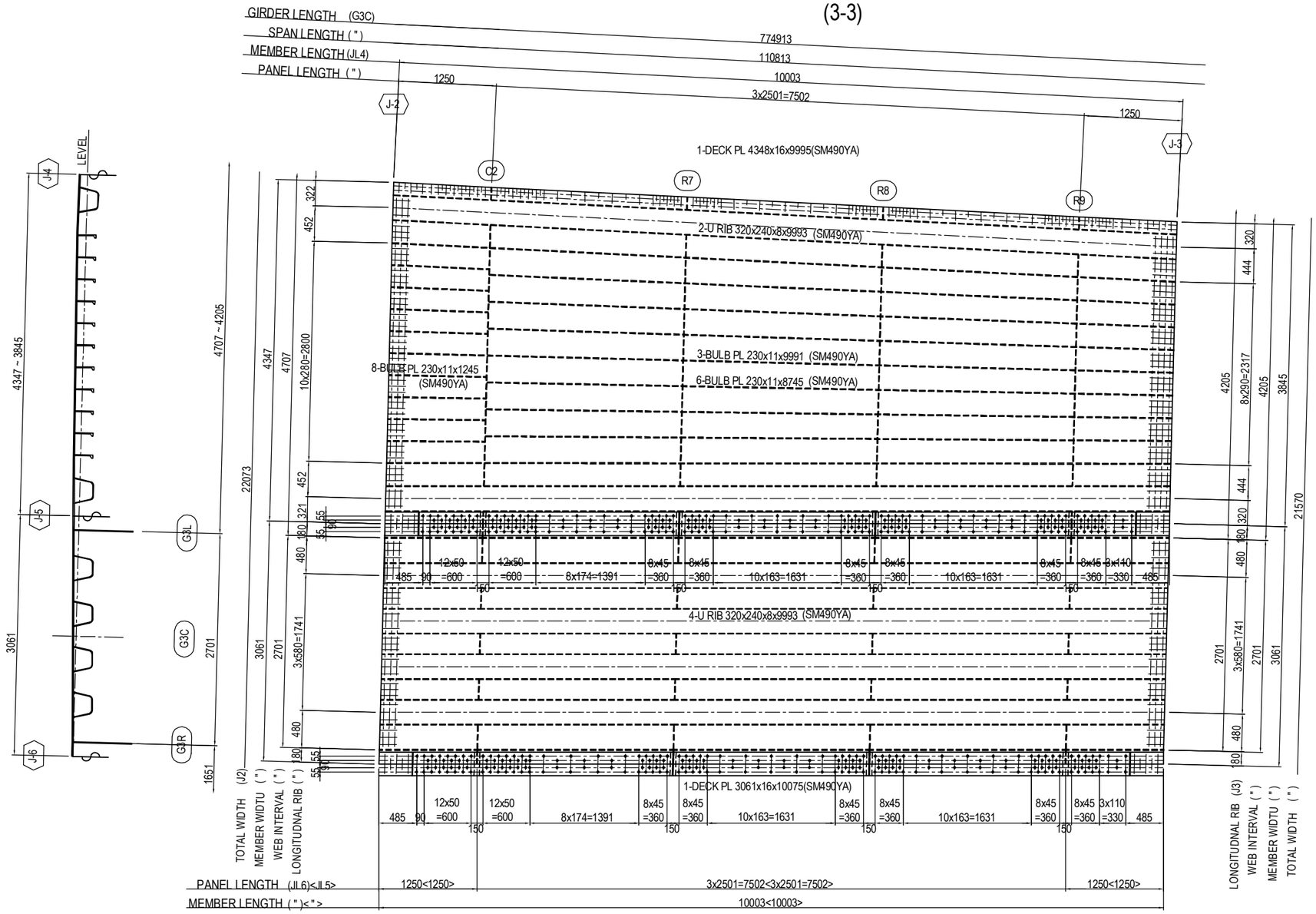


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (54)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1554

DETAIL OF DECK PLATE (55) S=1:60

(3-3)



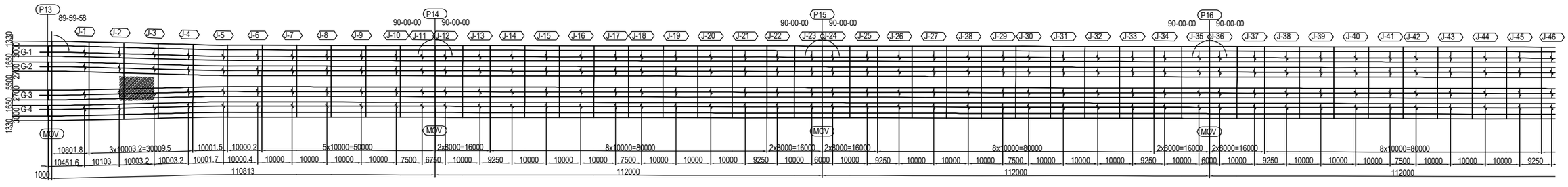
JL5 DECK(TOP SURFACE)
2-SPL PL 330x9x3319(SM490YA)
1-SPL PL 330x9x2499(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 330x9x 788(SM490YA)
3-SPL PL 330x9x2439(SM490YA)
218-TCB M22x70(S10T)

JL6 DECK(TOP SURFACE)
2-SPL PL 300x9x3319(SM490YA)
1-SPL PL 300x9x2499(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 788(SM490YA)
3-SPL PL 300x9x2439(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM

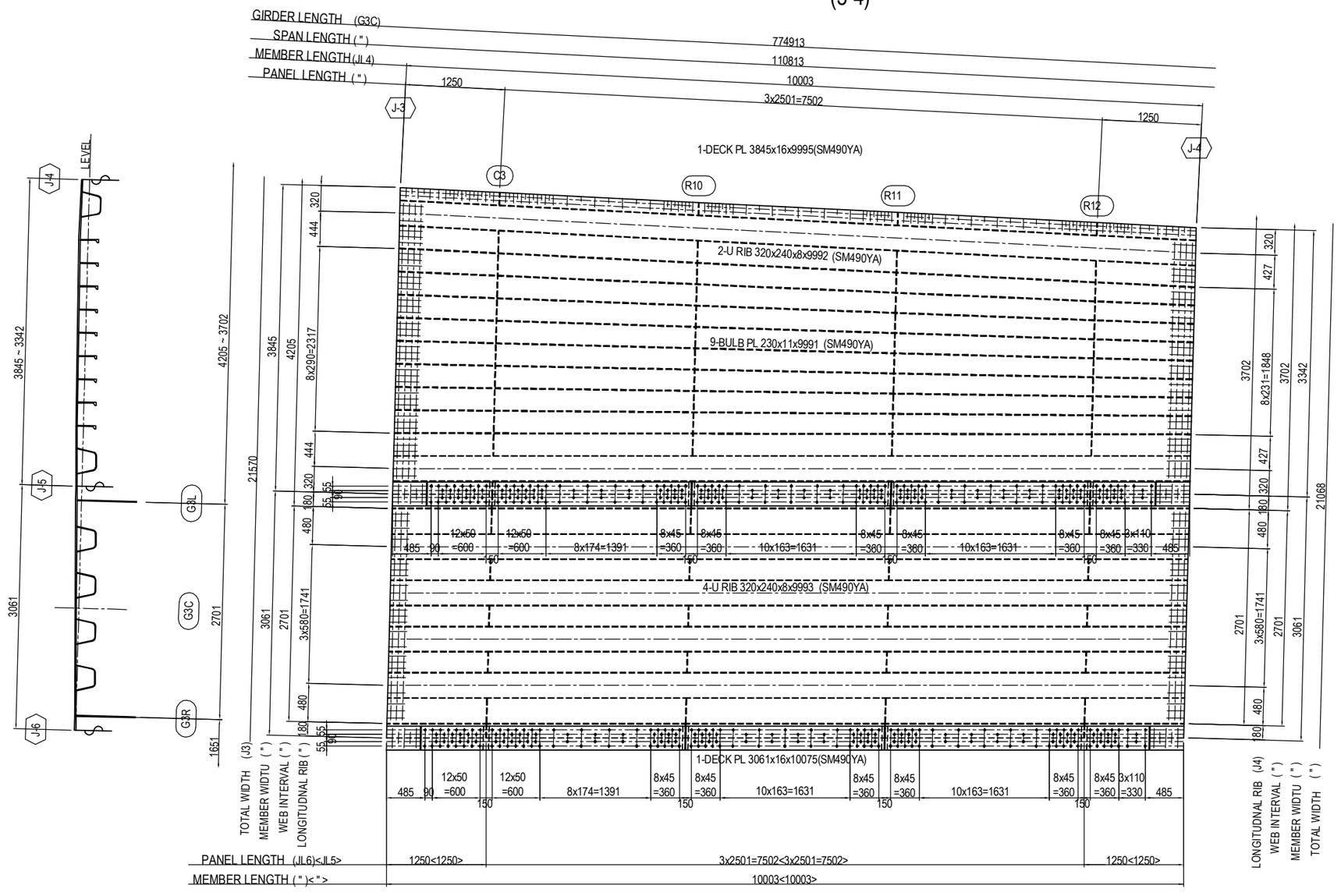


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (55)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1555

DETAIL OF DECK PLATE (56) S=1:60

(3-4)



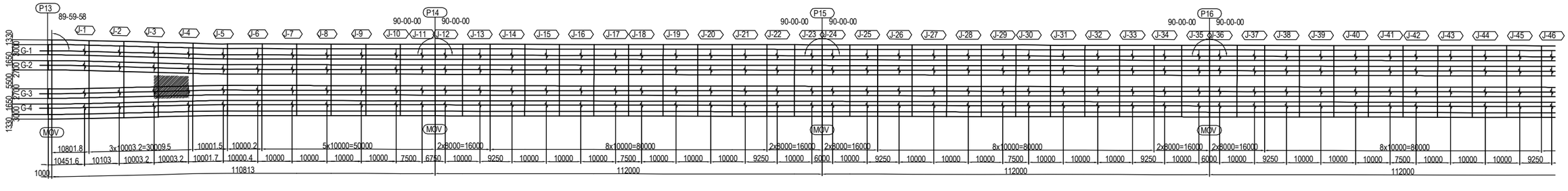
JL5 DECK(TOP SURFACE)
2-SPL PL 300x9x3319(SM490YA)
1-SPL PL 300x9x2499(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 788(SM490YA)
3-SPL PL 300x9x2439(SM490YA)
218-TCB M22x70(S10T)

JL6 DECK(TOP SURFACE)
2-SPL PL 300x9x3319(SM490YA)
1-SPL PL 300x9x2499(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 788(SM490YA)
3-SPL PL 300x9x2439(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM

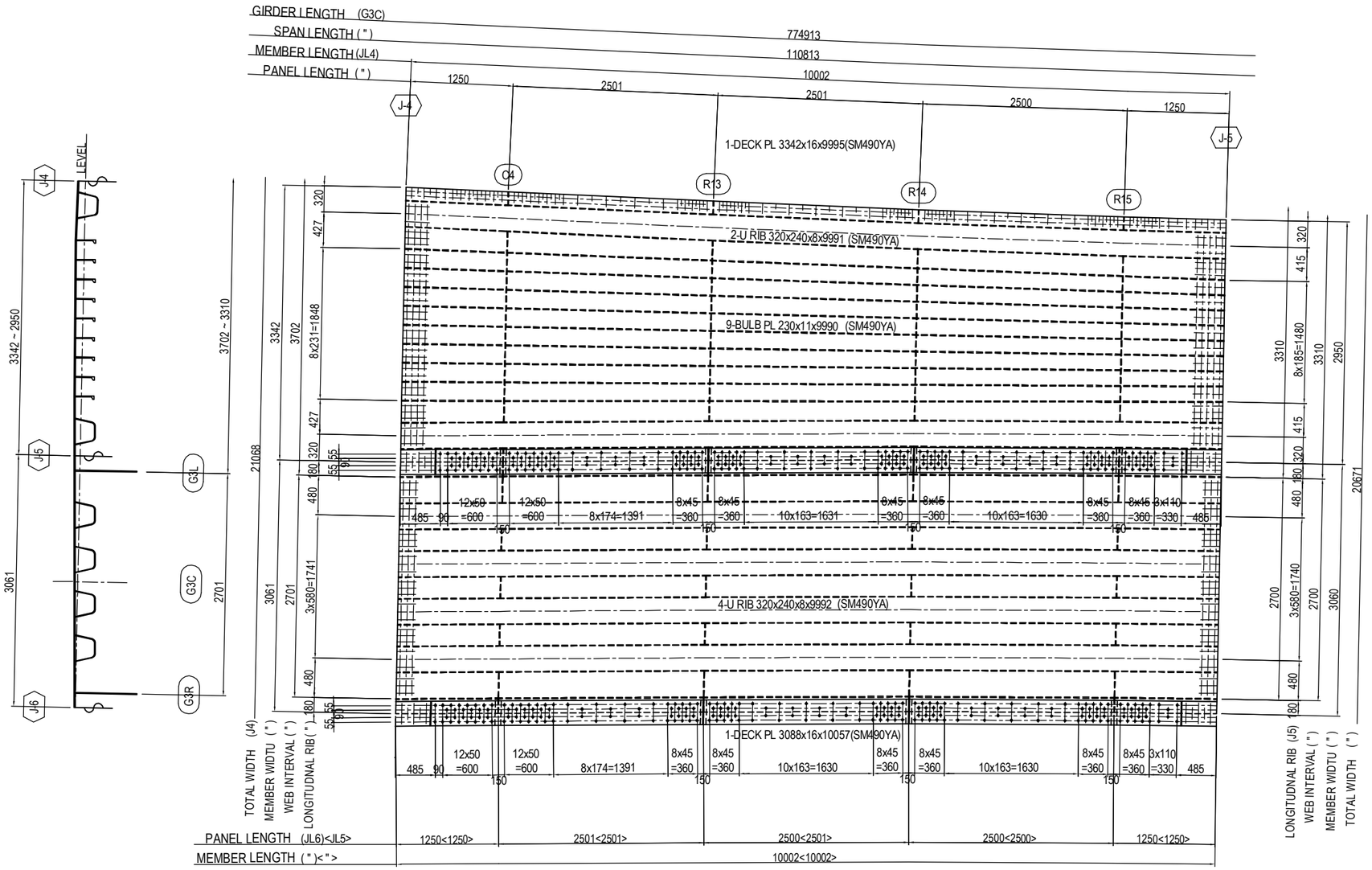


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

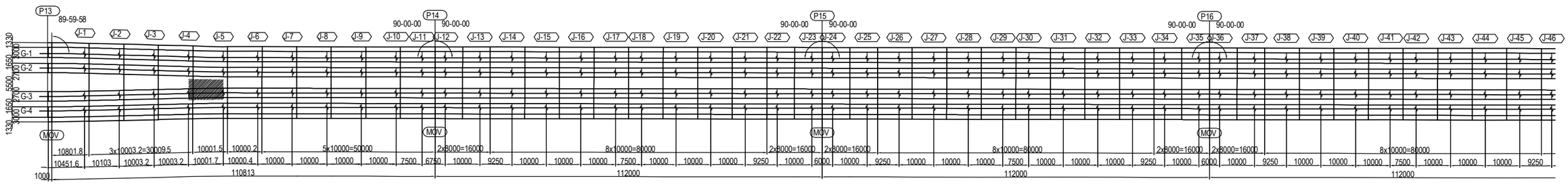
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (56)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1556

DETAIL OF DECK PLATE (57) S=1:60

(3-5)



MARKING DIAGRAM

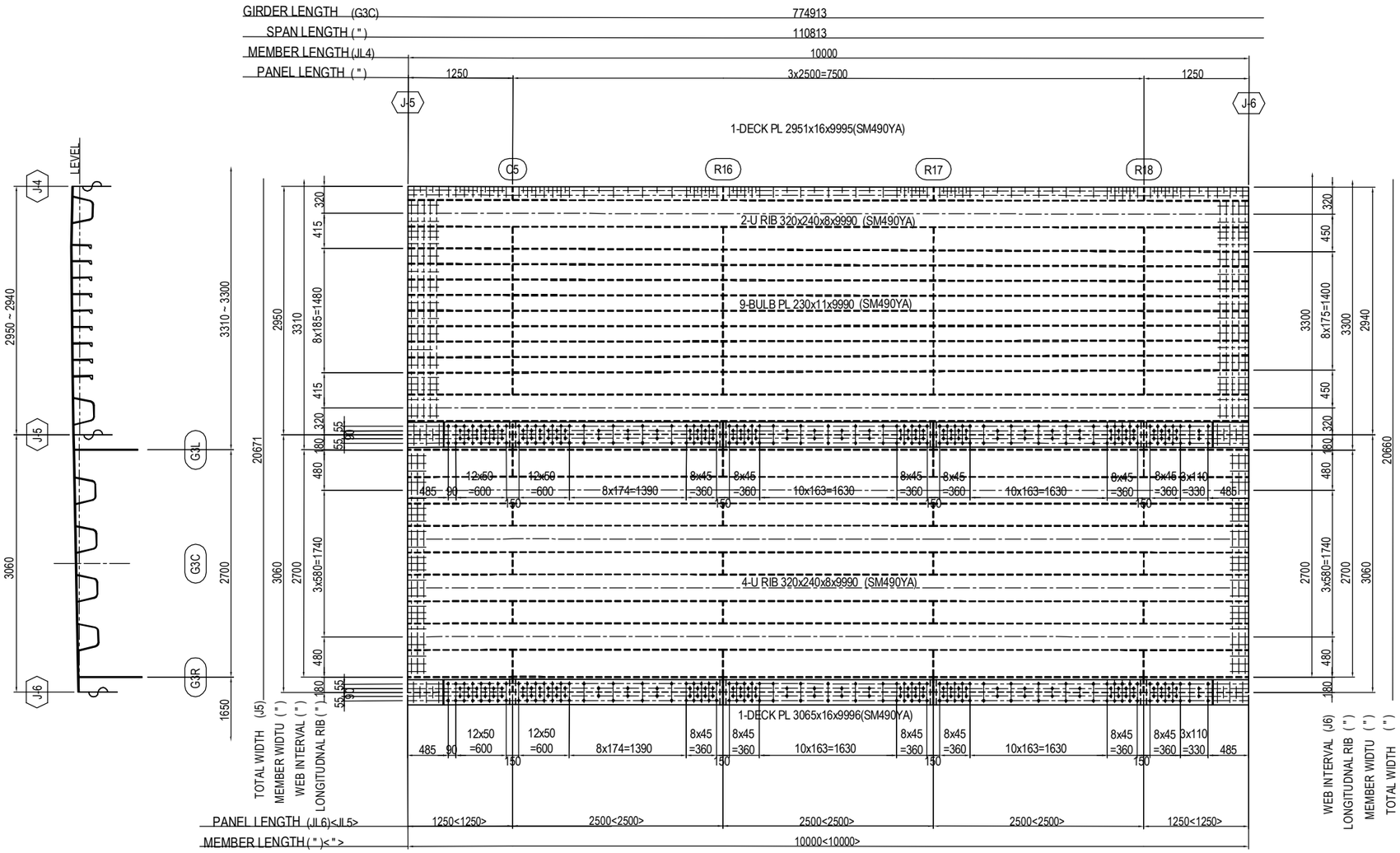


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (57)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1557

DETAIL OF DECK PLATE (58) S=1:60

(3-6)



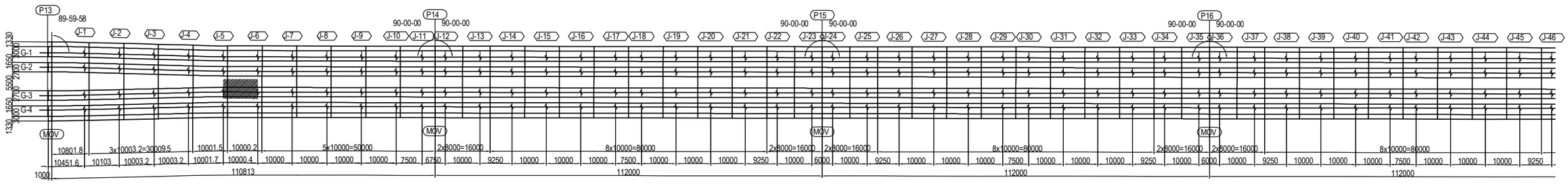
JL5 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
218-TCB M22x70(S10T)

JL6 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM



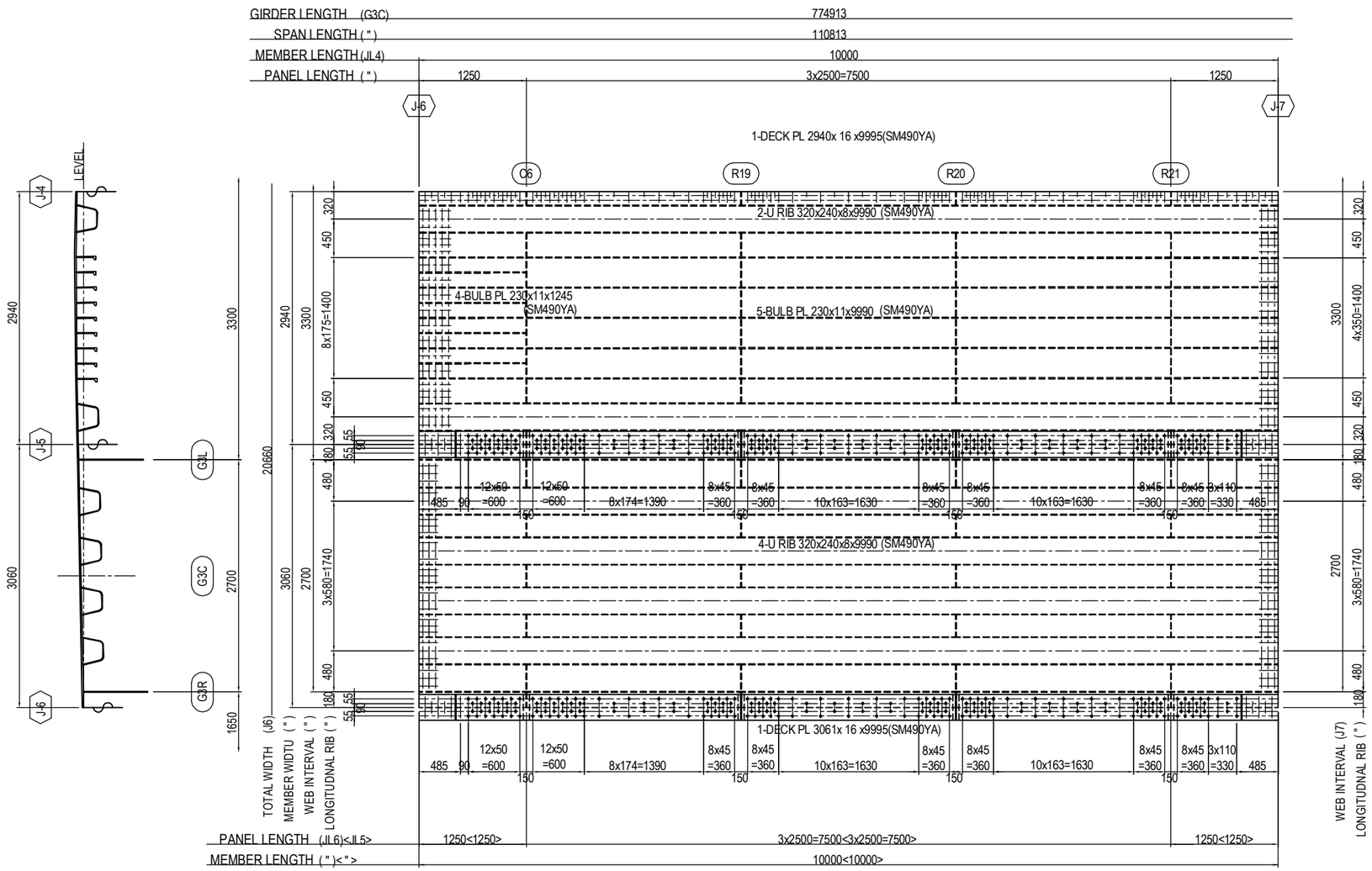
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF DECK PLATE (58)	2
	DWG No.
	P2-SB-1558

DETAIL OF DECK PLATE (59) S=1:60

(3-7)



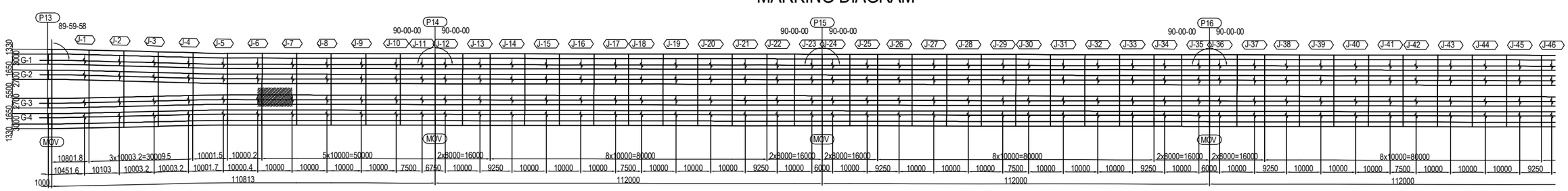
JL5 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

JL6 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM

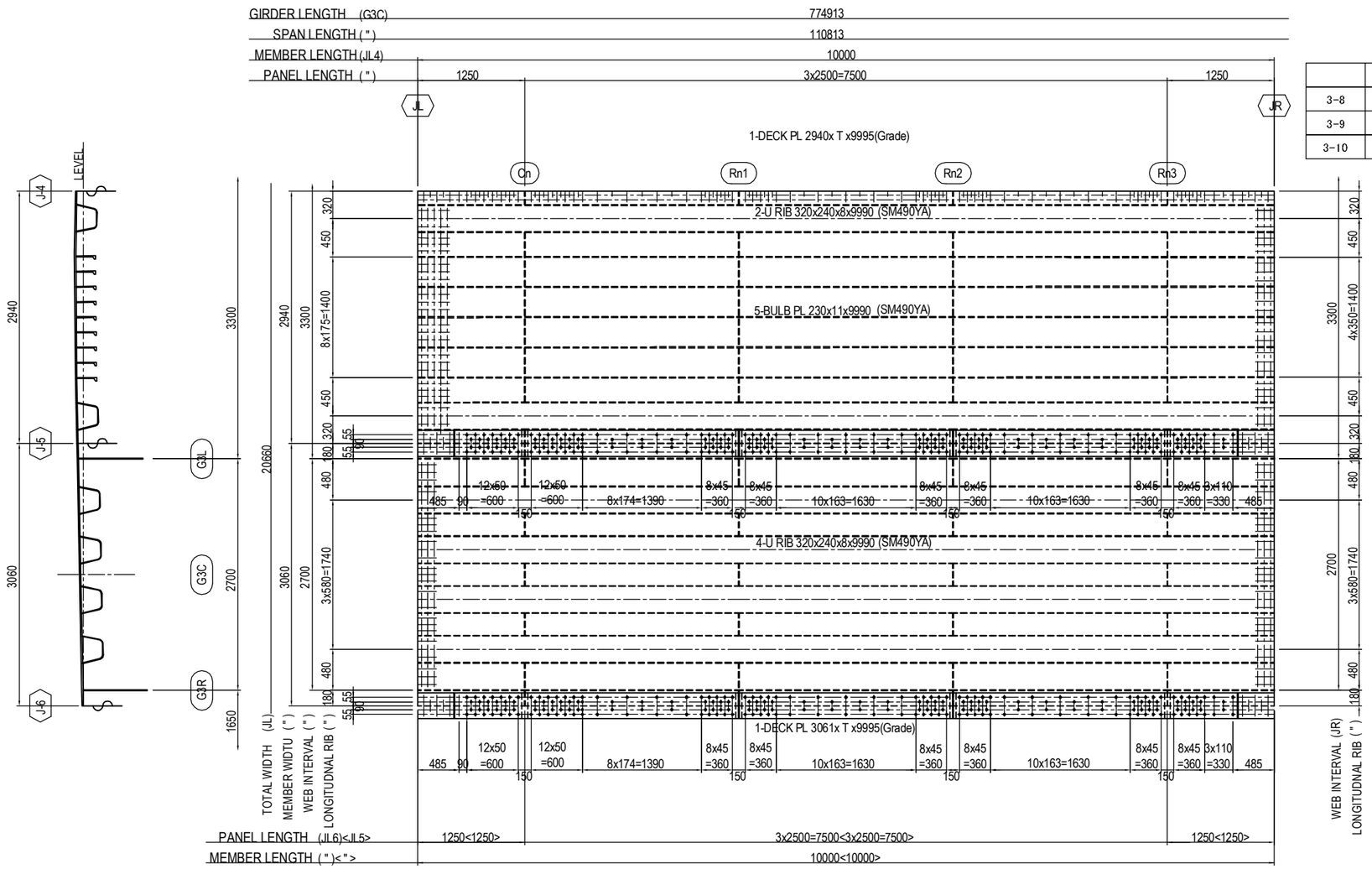


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (59)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1559

DETAIL OF DECK PLATE (60) S=1:60

(3-8,3-9,3-10)



	JL	JR	Cn	Rn1	Rn2	Rn3	T	Grade	L
3-8	J7	J8	C7	R22	R23	R24	16	SM490YA	70
3-9	J8	J9	C8	R25	R26	R27	16	SM490YA	70
3-10	J9	J10	C9	R28	R29	R30	22	SM490YB	75

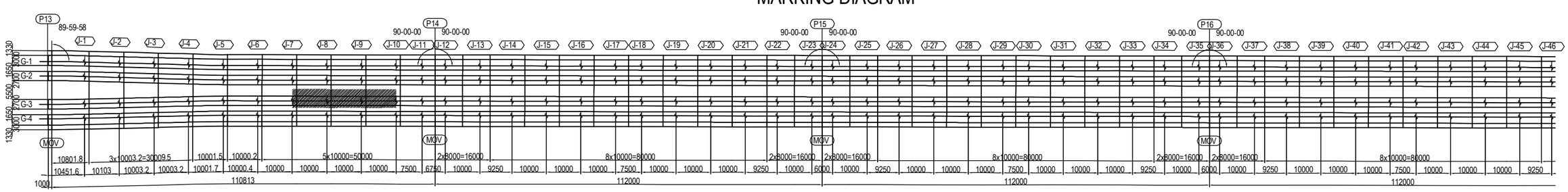
JL5 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22xL(S10T)

JL6 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22xL(S10T)

MARKING DIAGRAM

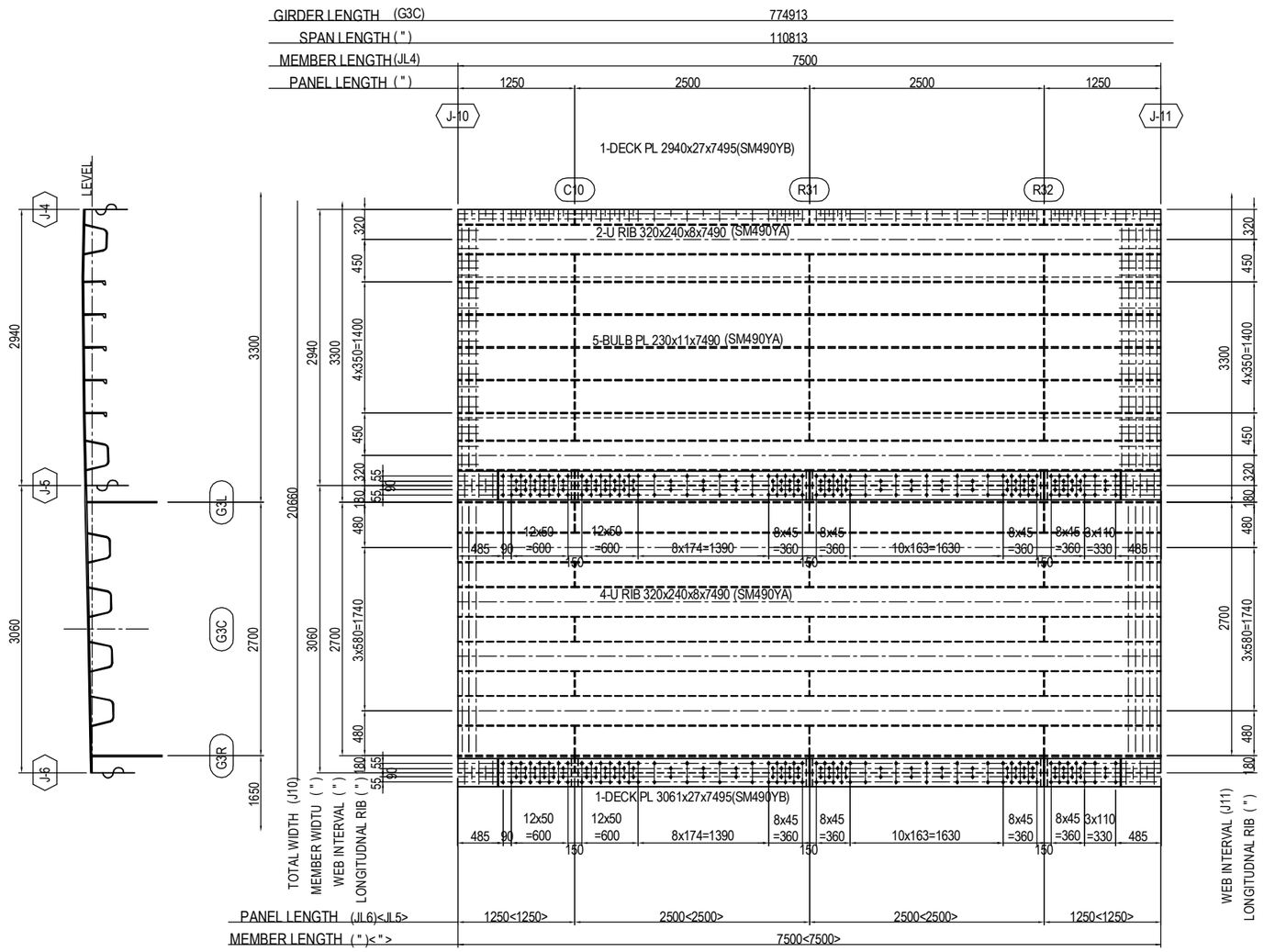


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (60)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1560

DETAIL OF DECK PLATE (61) S=1:60

(3-11)



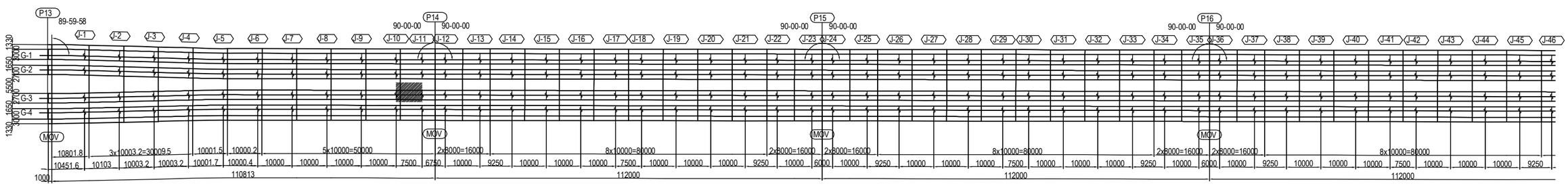
JL5 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
164-TCB M22x80(S10T)

JL6 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
164-TCB M22x80(S10T)

MARKING DIAGRAM

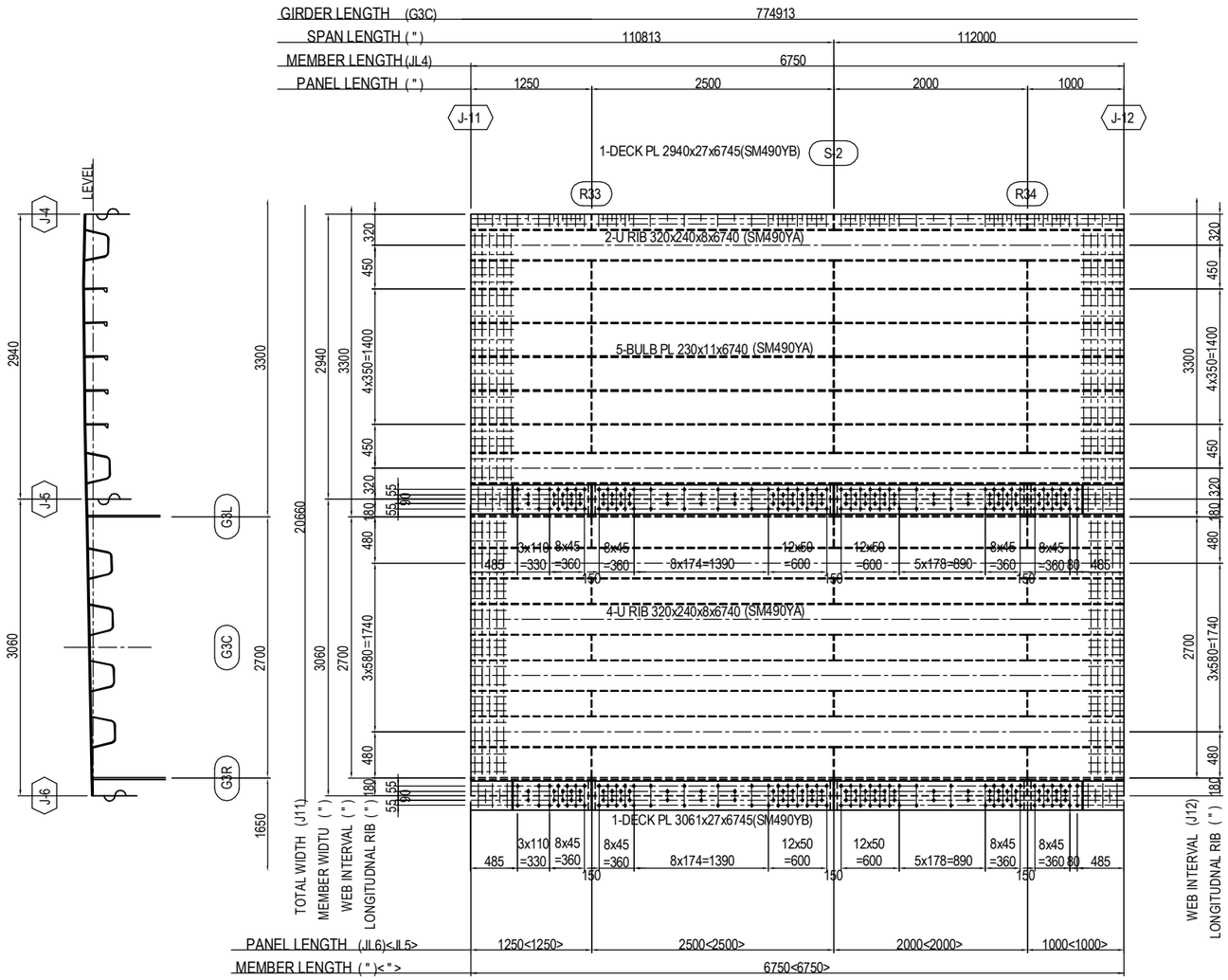


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (61)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1561

DETAIL OF DECK PLATE (62) S=1:60

(3-12)



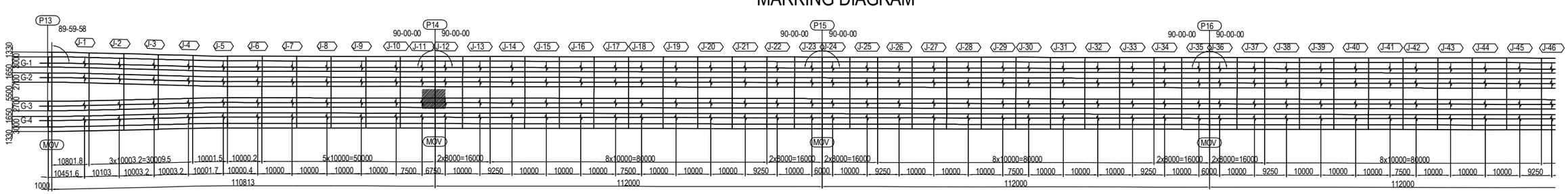
JL5 DECK(TOP SURFACE)
1-SPL PL 3000x9x 810(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
1-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
154-TCB M22x80(S10T)

JL6 DECK(TOP SURFACE)
1-SPL PL 300x9x 810(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
1-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
154-TCB M22x80(S10T)

MARKING DIAGRAM

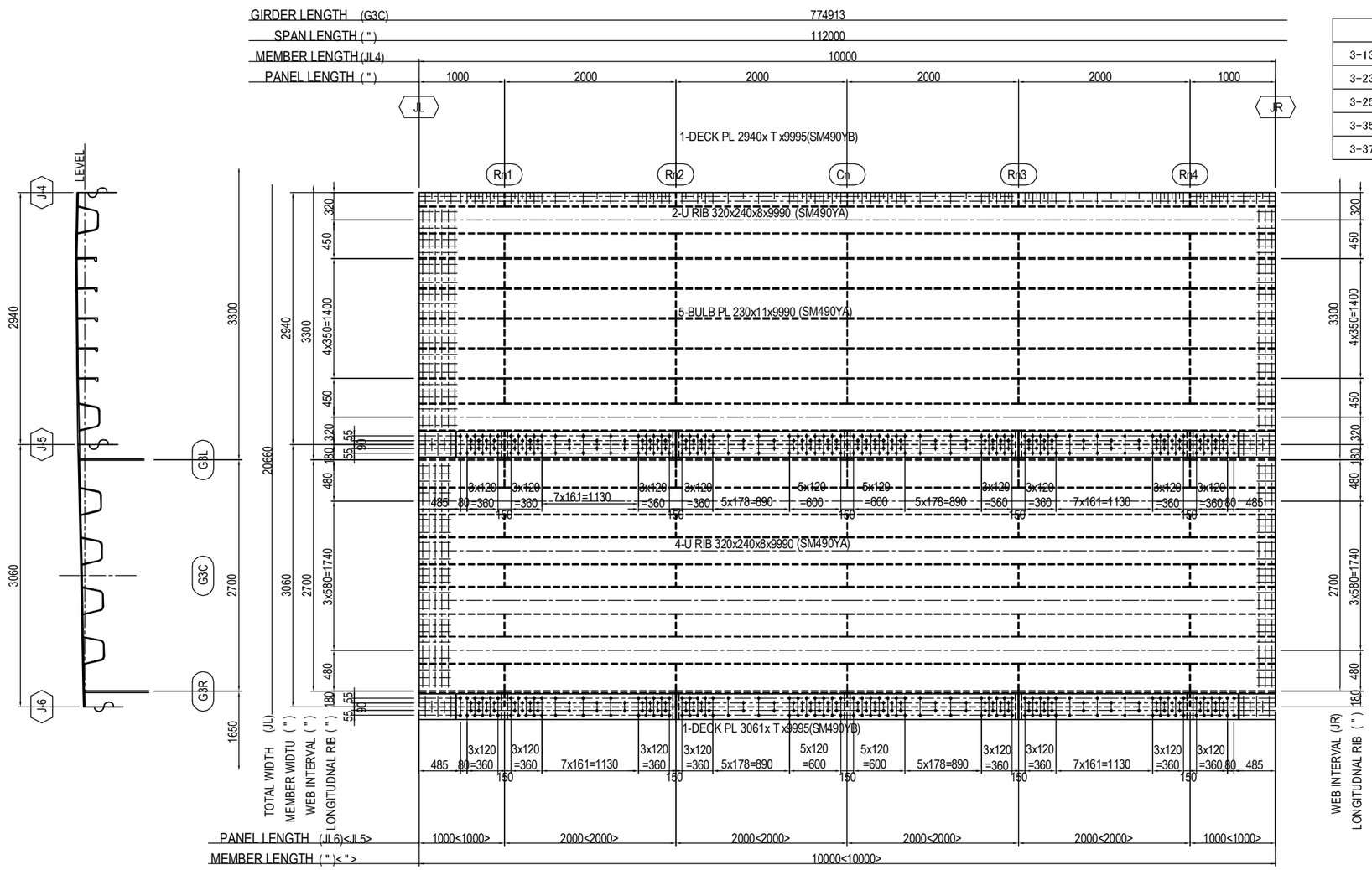


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (62)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1562

DETAIL OF DECK PLATE (63) S=1:60

(3-13,3-23,3-25,3-35,3-37)



	JL	JR	Cn	Rn1	Rn2	Rn3	Rn4	T	L
3-13	J12	J13	C11	R35	R36	R37	R38	27	80
3-23	J22	J23	C21	R65	R66	R67	R68	19	75
3-25	J24	J25	C22	R71	R72	R73	R74	19	75
3-35	J34	J35	C32	R101	R102	R103	R104	22	75
3-37	J36	J37	C33	R107	R108	R109	R110	22	75

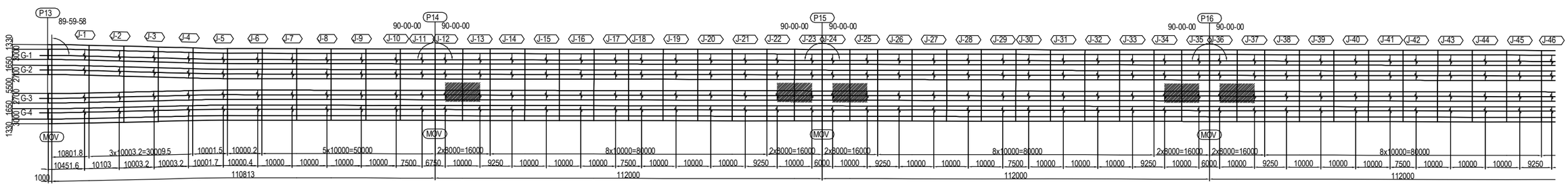
JL5 DECK(TOP SURFACE)
2-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x3990(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 530(SM490YA)
4-SPL PL 300x9x1930(SM490YA)
240-TCB M22xL(S10T)

JL6 DECK(TOP SURFACE)
2-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x3990(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 530(SM490YA)
4-SPL PL 300x9x1930(SM490YA)
240-TCB M22xL(S10T)

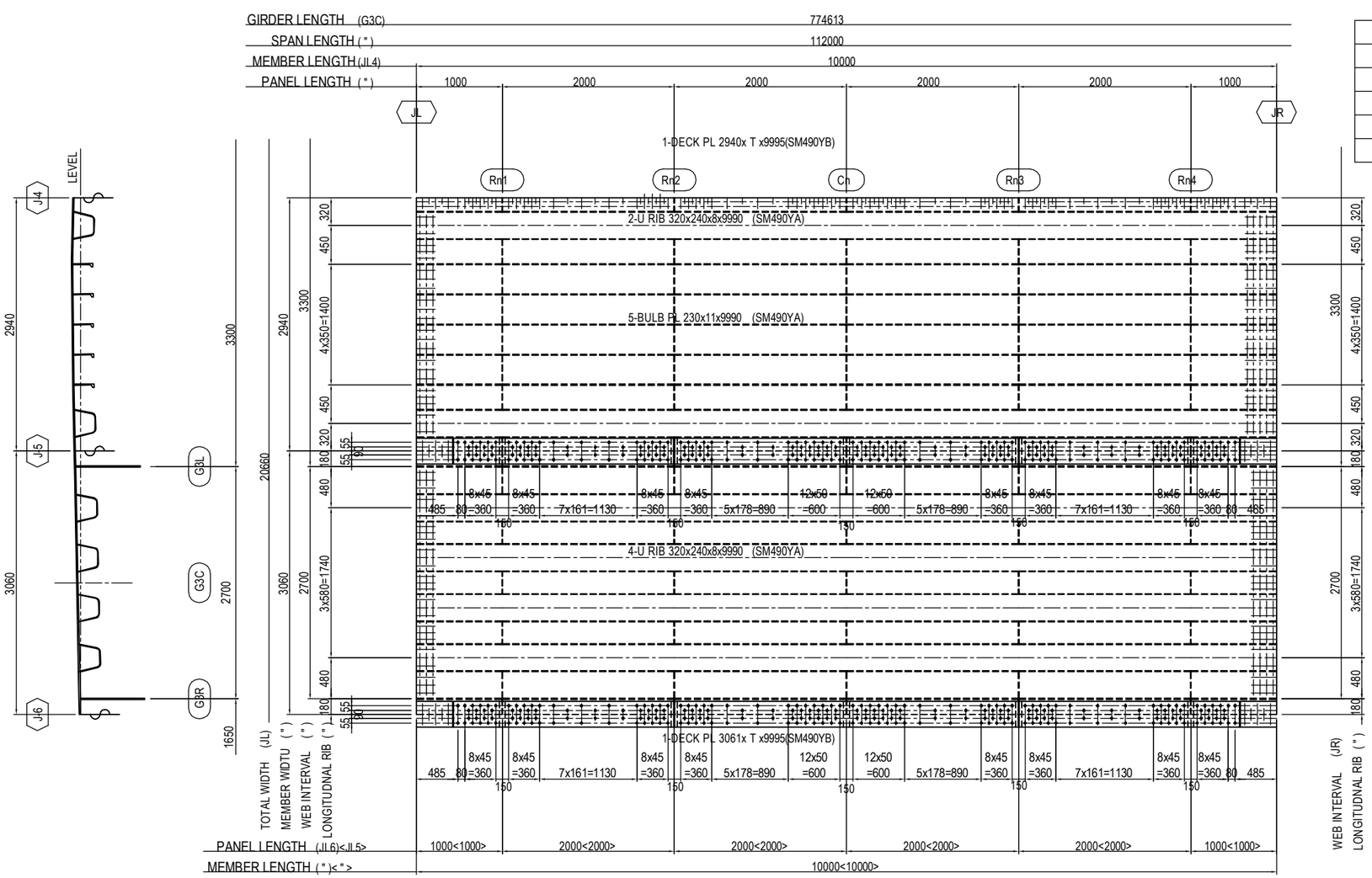
MARKING DIAGRAM



PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (63)	2
				CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1563

DETAIL OF DECK PLATE (64) S=1:60

(3-47,3-49,3-59,3-61,3-71)



	JL	JR	Cn	Rn1	Rn2	Rn3	Rn4	T	L
3-47	J46	J47	C43	R137	R138	R139	R140	21	75
3-48	J48	J49	C44	R143	R144	R145	R146	21	75
3-59	J58	J59	C54	R173	R174	R175	R176	20	75
3-61	J60	J61	C55	R179	R180	R181	R182	20	75
3-71	J70	J71	C65	R209	R210	R211	R212	25	80

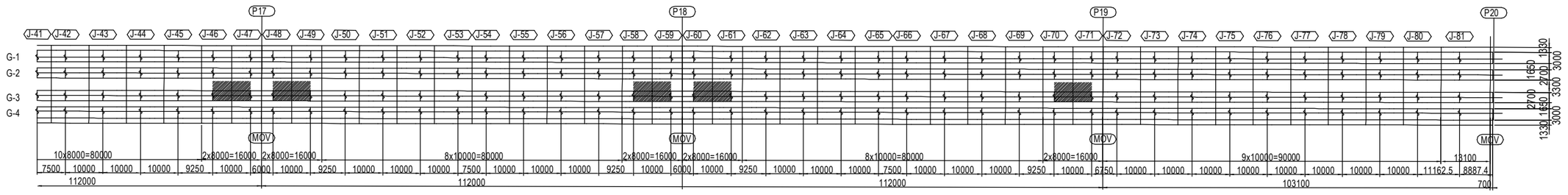
JL5 DECK(TOP SURFACE) (BOTTOM SURFACE)

2-SPL PL 300x9x2560(SM490YA) 2-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x3990(SM490YA) 4-SPL PL 300x9x1930(SM490YA)
240-TCB M22xL(S10T)

JL6 DECK(TOP SURFACE) (BOTTOM SURFACE)

2-SPL PL 300x9x2560(SM490YA) 2-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x3990(SM490YA) 4-SPL PL 300x9x1930(SM490YA)
240-TCB M22xL(S10T)

MARKING DIAGRAM



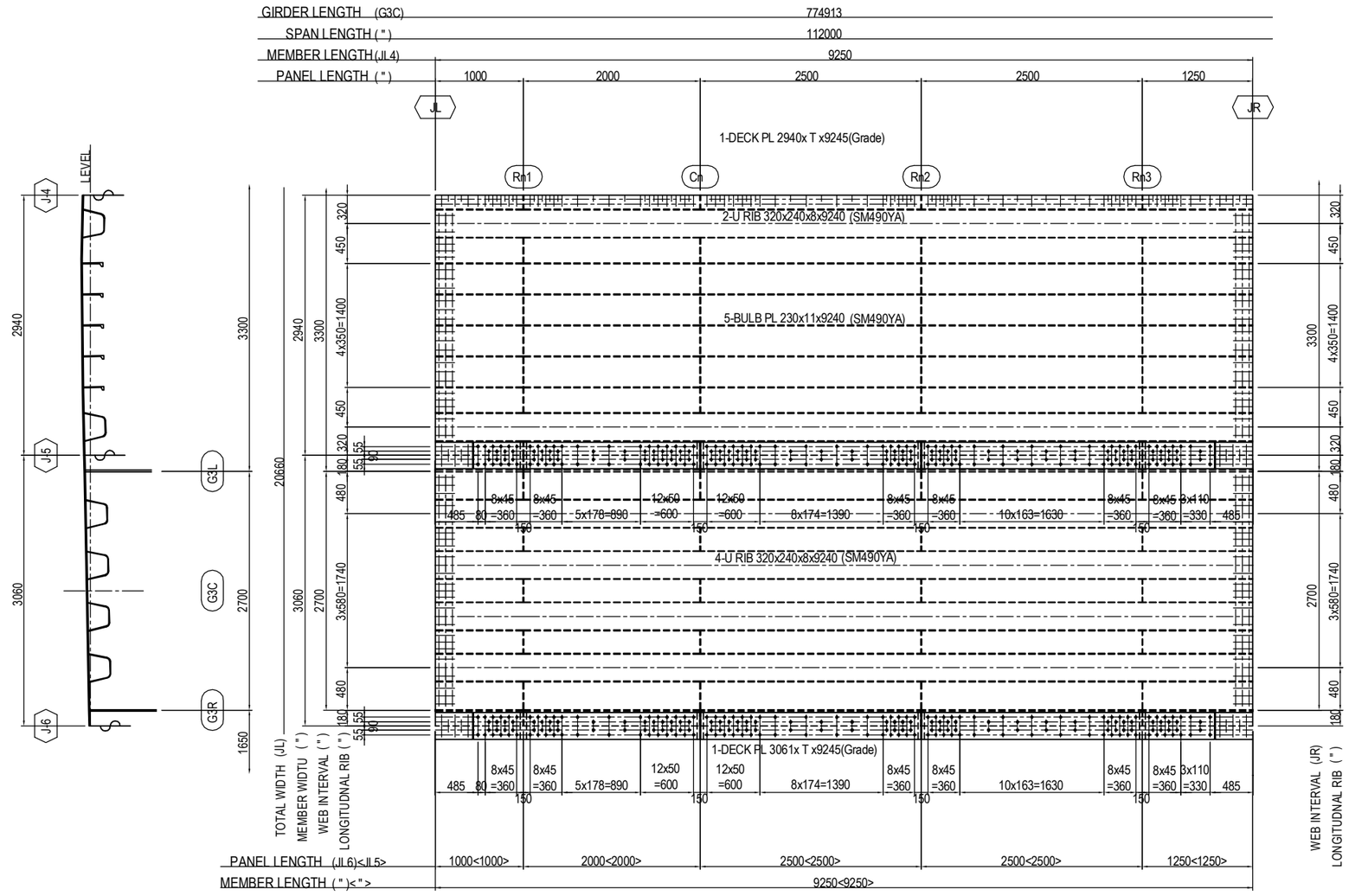
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF DECK PLATE (64)	2
	DWG No.
	P2-SB-1564

DETAIL OF DECK PLATE (65) S=1:60

(3-14,3-26,3-38)



	JL	JR	Cn	Rn1	Rn2	Rn3	T	Grade	L
3-14	J13	J14	C12	R39	R40	R41	22	SM490YB	75
3-26	J25	J26	C23	R75	R76	R77	16	SM490YA	70
3-38	J37	J38	C34	R111	R112	R113	16	SM490YA	70

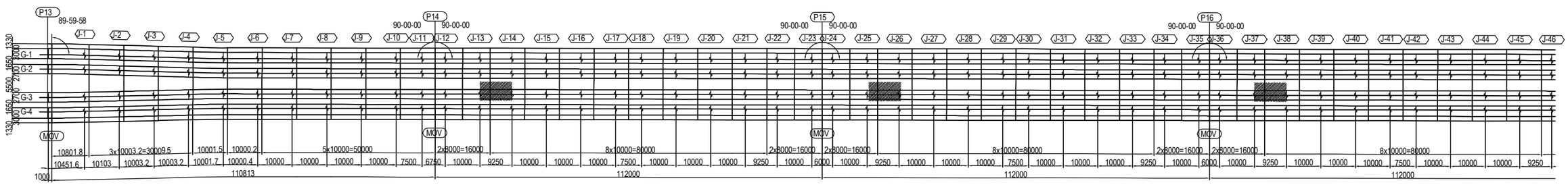
JL5 DECK(TOP SURFACE)
1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
208-TCB M22xL(S10T)

JL6 DECK(TOP SURFACE)
1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
208-TCB M22xL(S10T)

MARKING DIAGRAM

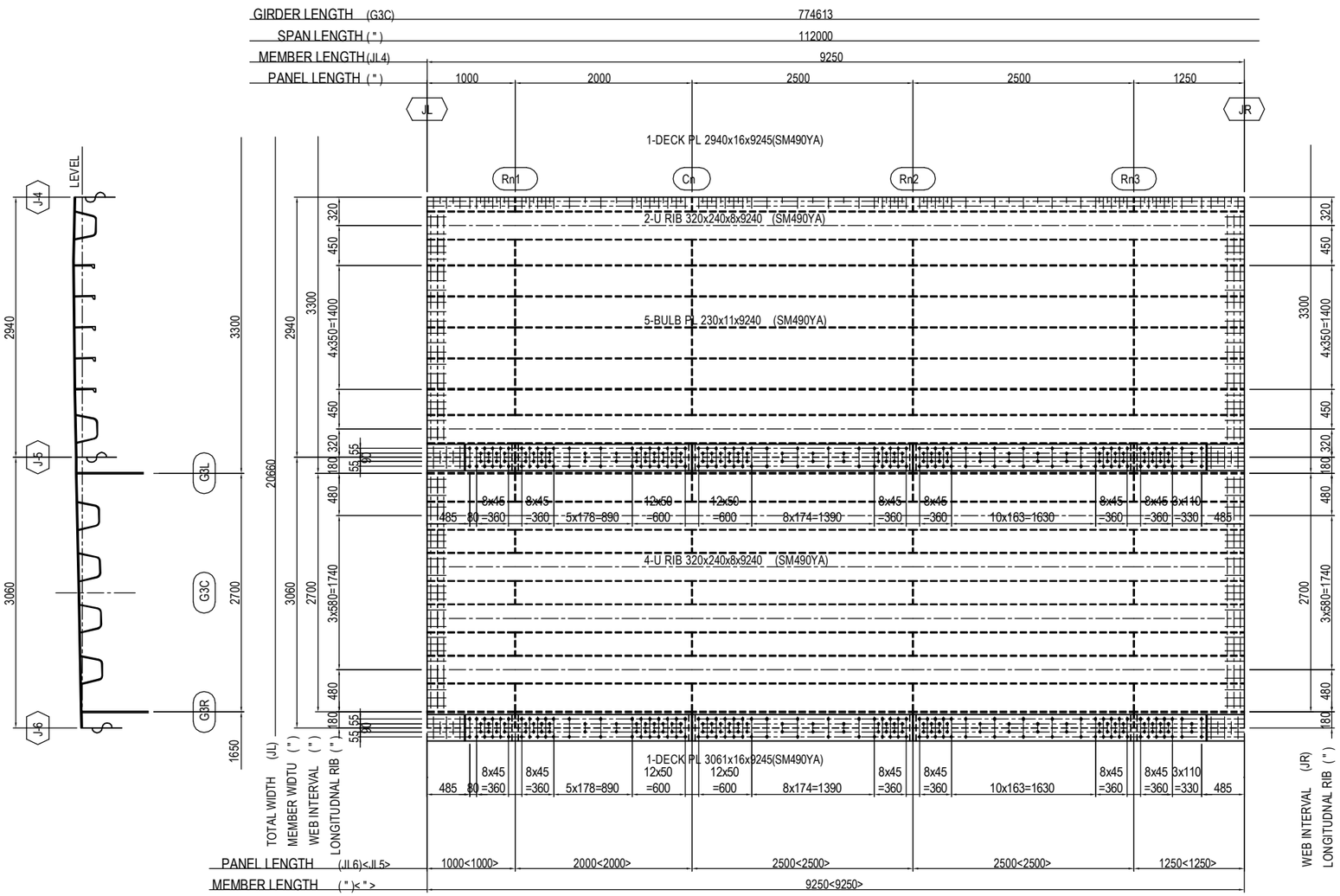


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (65)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1565

DETAIL OF DECK PLATE (66) S=1:60

(3-50,3-62)



	JL	JR	Cn	Rn1	Rn2	Rn3
3-50	J49	J50	C45	R147	R148	R149
3-62	J61	J62	C56	R183	R184	R185

JL5 DECK(TOP SURFACE)

1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
208-TCB M22x70(S10T)

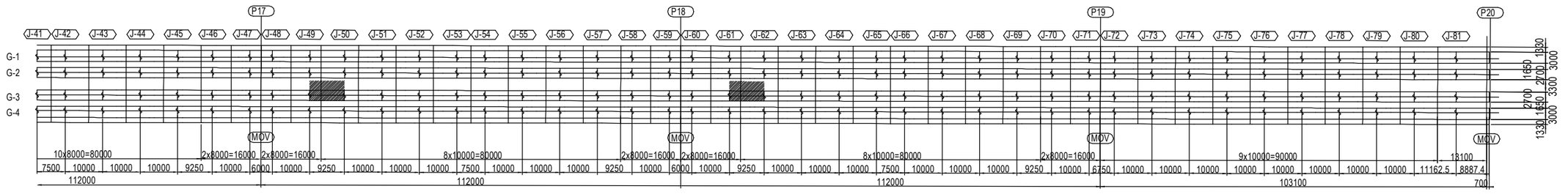
JL6 DECK(TOP SURFACE)

1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x3310(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
208-TCB M22x70(S10T)

MARKING DIAGRAM

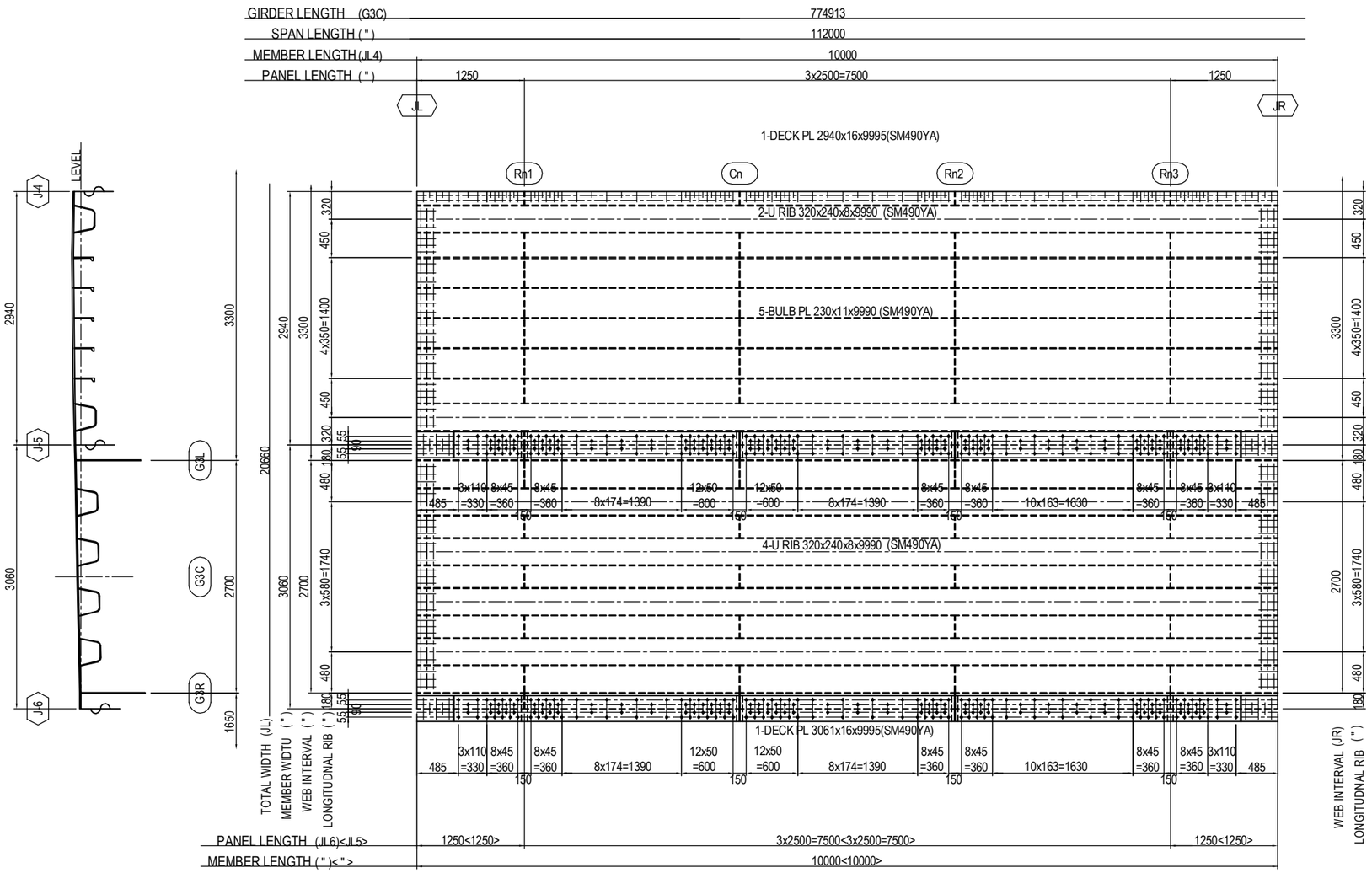


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (66)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1566

DETAIL OF DECK PLATE (67) S=1:60

(3-15,3-16,3-17,3-27,3-28,3-29,3-39,3-40,3-41)



	JL	JR	Cn	Rn1	Rn2	Rn3
3-15	J14	J15	C13	R42	R43	R44
3-16	J15	J16	C14	R45	R46	R47
3-17	J16	J17	C16	R48	R49	R50
3-27	J26	J27	C24	R78	R79	R80
3-28	J27	J28	C25	R81	R82	R83
3-29	J28	J29	C26	R84	R85	R86
3-39	J38	J39	C35	R114	R115	R116
3-40	J39	J40	C36	R117	R118	R119
3-41	J40	J41	C37	R120	R121	R122

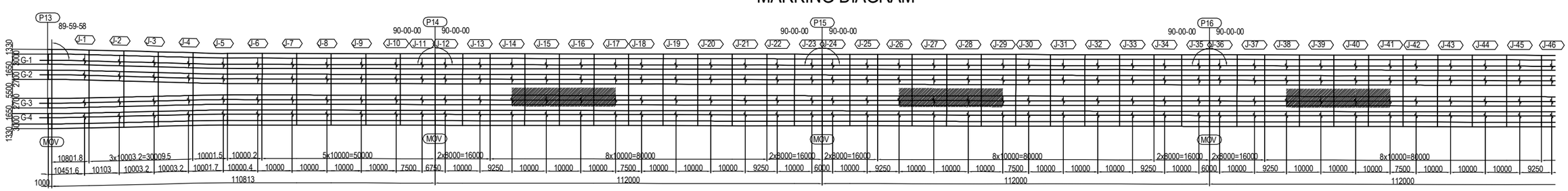
JL5 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

JL6 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM

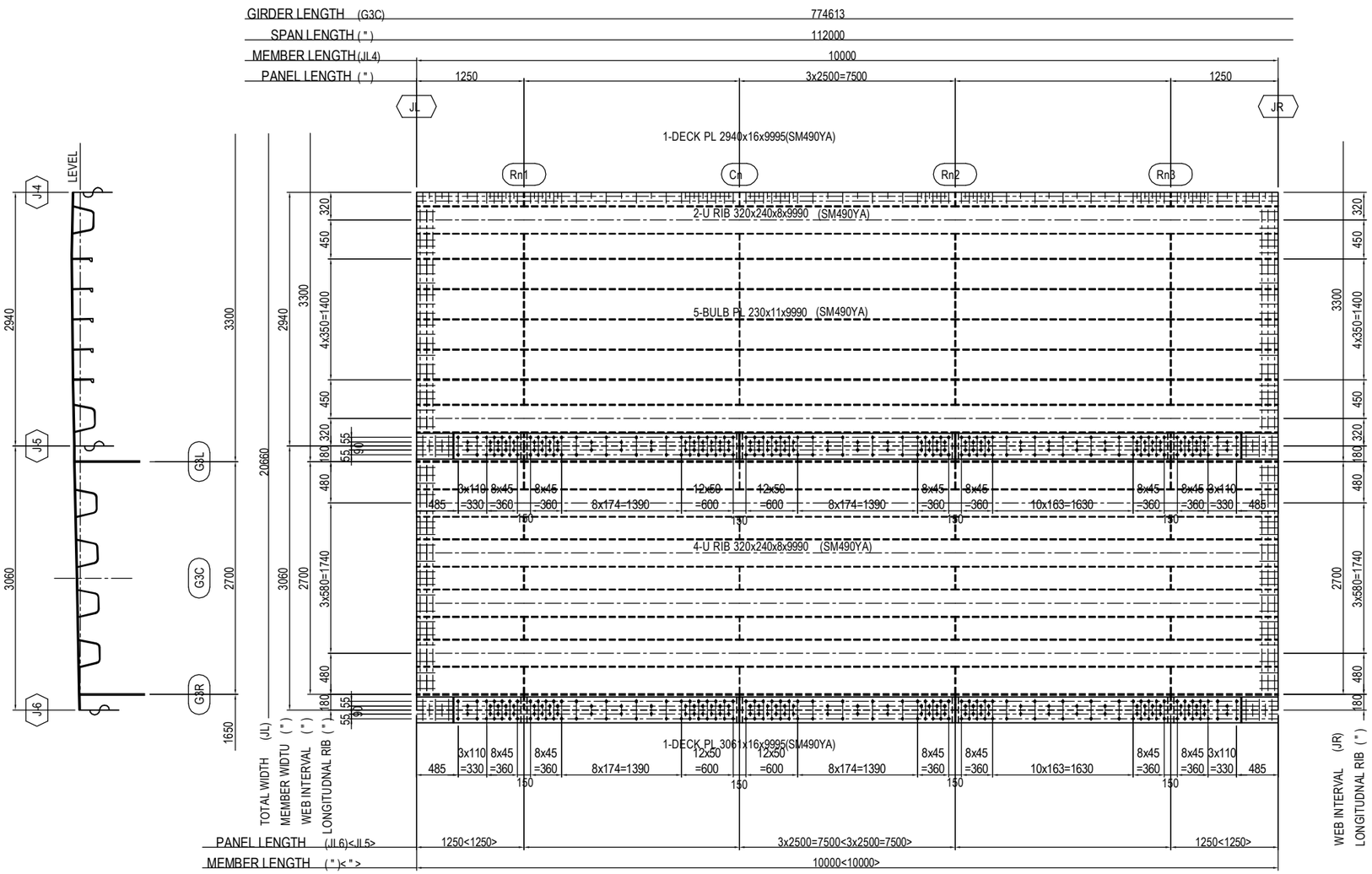


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (67)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1567

DETAIL OF DECK PLATE (68) S=1:60

(3-51,3-52,3-53,3-63,3-64,3-65)



	JL	JR	Cn	Rn1	Rn2	Rn3
3-51	J50	J51	C46	R150	R151	R152
3-52	J51	J52	C47	R153	R154	R155
3-53	J52	J53	C48	R156	R157	R158
3-63	J62	J63	C57	R186	R187	R188
3-6	J63	J64	C58	R189	R190	R191
3-65	J64	J65	C59	R192	R193	R194

JL5 DECK(TOP SURFACE)

2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)

2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

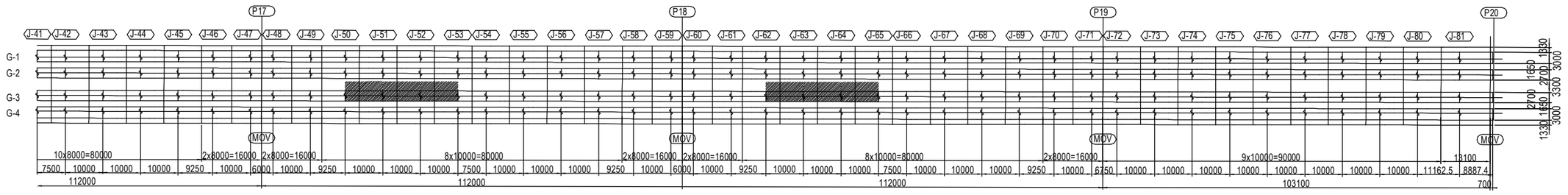
JL6 DECK(TOP SURFACE)

2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)

2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM

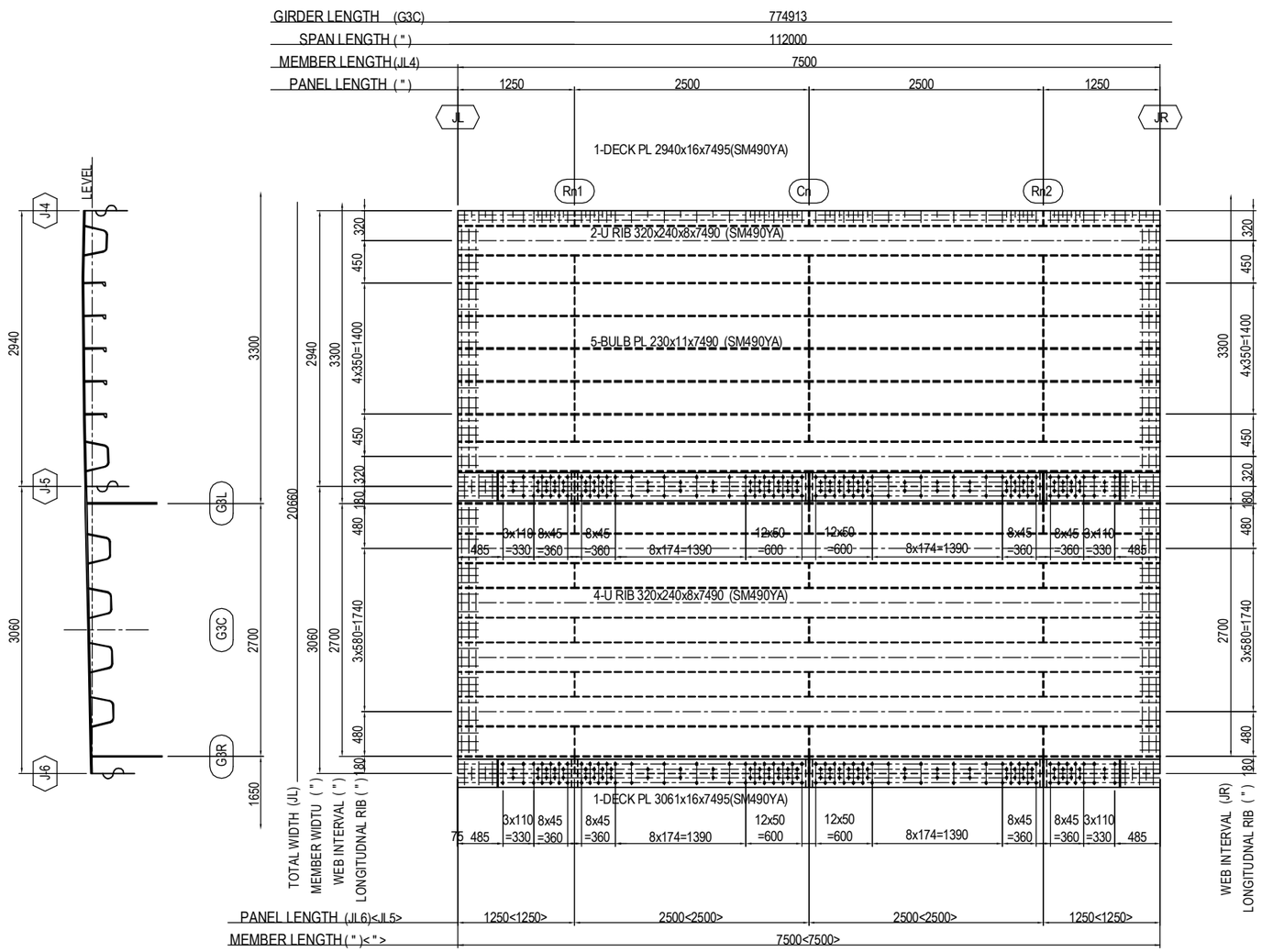


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (68)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1568

DETAIL OF DECK PLATE (69) S=1:60

(3-18,3-30,3-42)



	JL	JR	Cn	Rn1	Rn2
3-18	J17	J18	C16	R51	R52
3-30	J29	J30	C27	R87	R88
3-42	J41	J42	C38	R123	R124

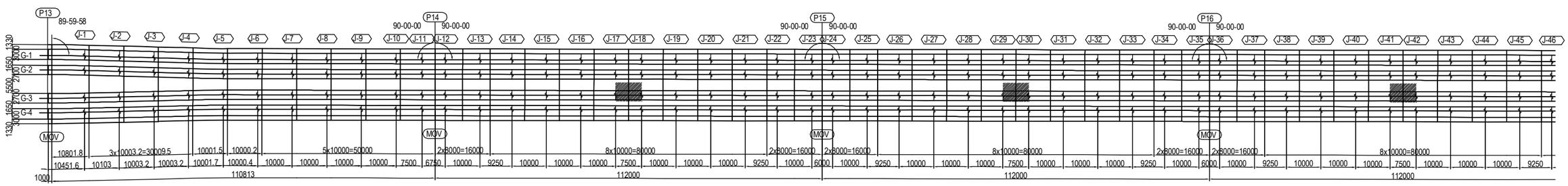
JL5 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
164-TCB M22x70(S10T)

JL6 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
164-TCB M22x70(S10T)

MARKING DIAGRAM

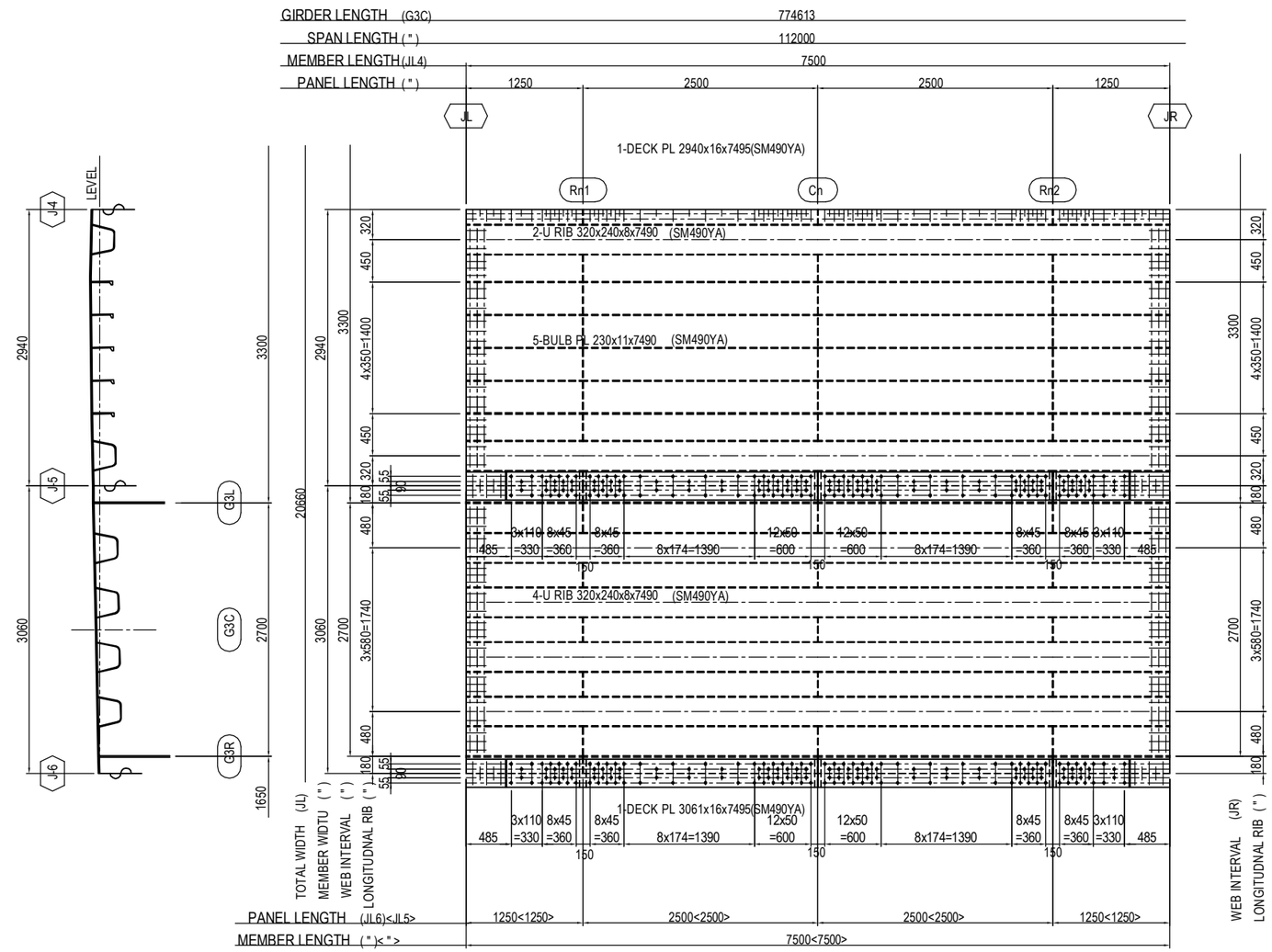


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (69)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1569

DETAIL OF DECK PLATE (70) S=1:60

(3-54,3-66)



	JL	JR	Cn	Rn1	Rn2
3-54	J53	J54	C49	R159	R160
3-66	J65	J66	C60	R195	R196

JL5 DECK(TOP SURFACE)

1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)

2-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
164-TCB M22x70(S10T)

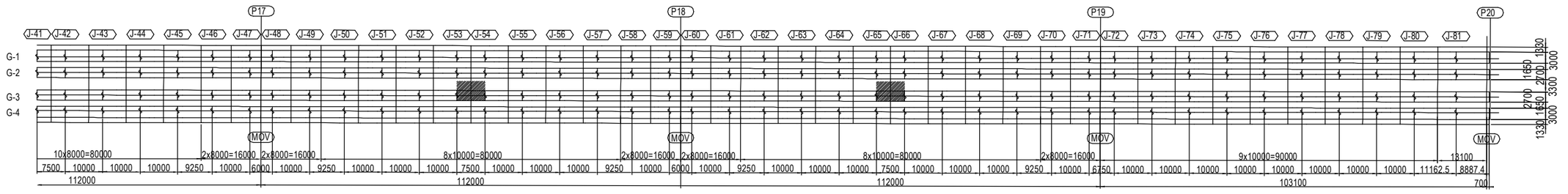
JL6 DECK(TOP SURFACE)

1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)

2-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
164-TCB M22x70(S10T)

MARKING DIAGRAM

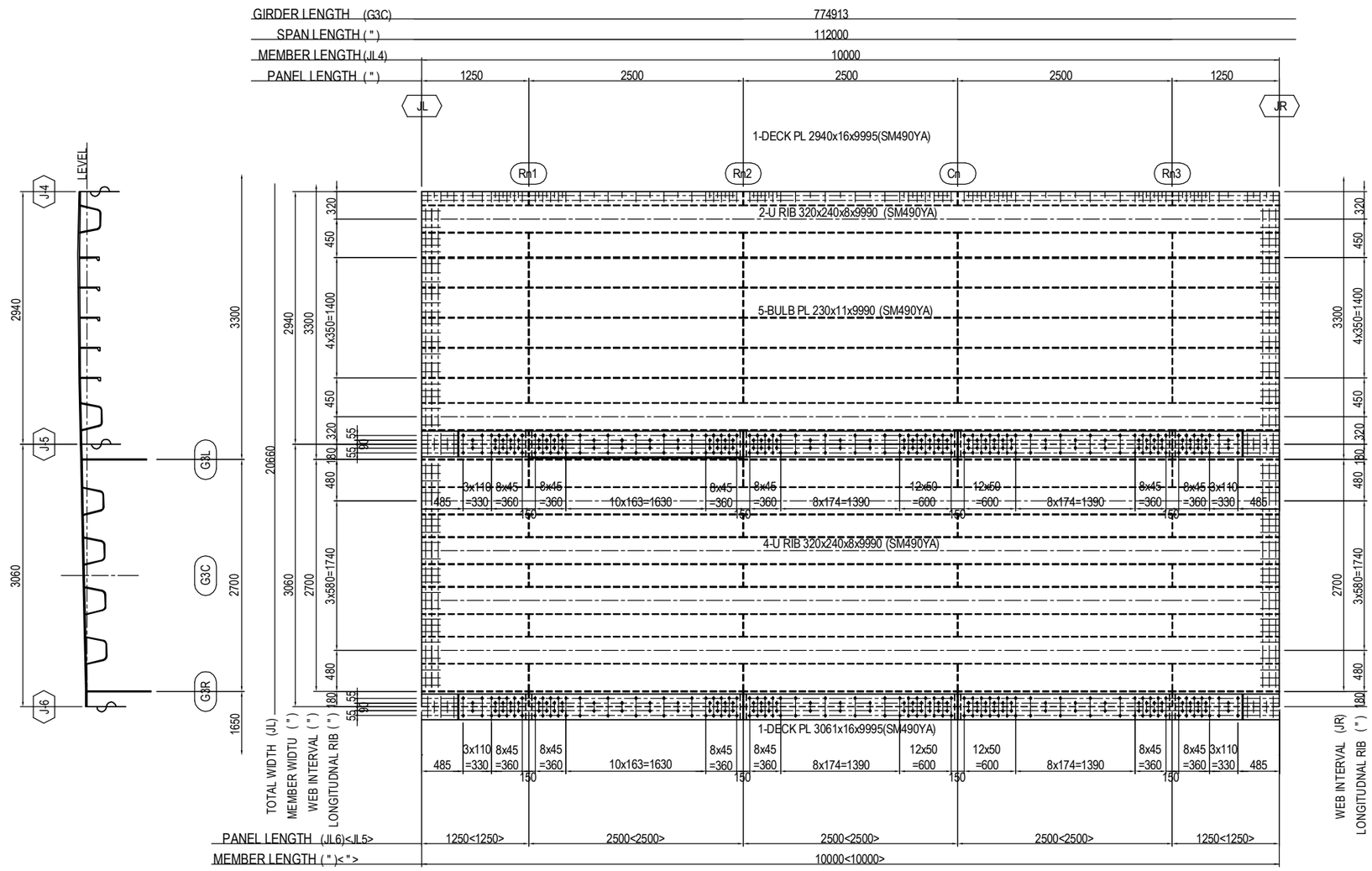


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (70)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1570

DETAIL OF DECK PLATE (71) S=1:60

(3-19,3-20,3-21,3-31,3-32,3-33,3-43,3-44,3-45)



	JL	JR	Cn	Rn1	Rn2	Rn3
3-19	J18	J19	C17	R53	R54	R55
3-20	J19	J20	C18	R56	R57	R58
3-21	J20	J21	C19	R59	R60	R61
3-31	J30	J31	C28	R89	R90	R91
3-32	J31	J32	C29	R92	R93	R94
3-33	J32	J33	C30	R95	R96	R97
3-43	J42	J43	C39	R125	R126	R127
3-44	J43	J44	C40	R128	R129	R130
3-45	J44	J45	C41	R131	R132	R133

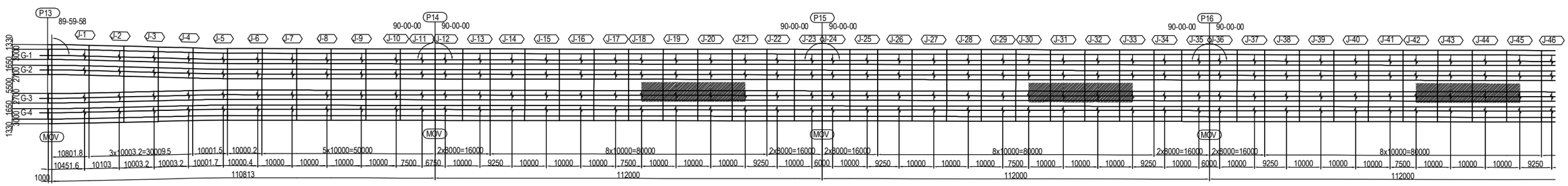
JL5 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

JL6 DECK(TOP SURFACE)
2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22x70(S10T)

MARKING DIAGRAM

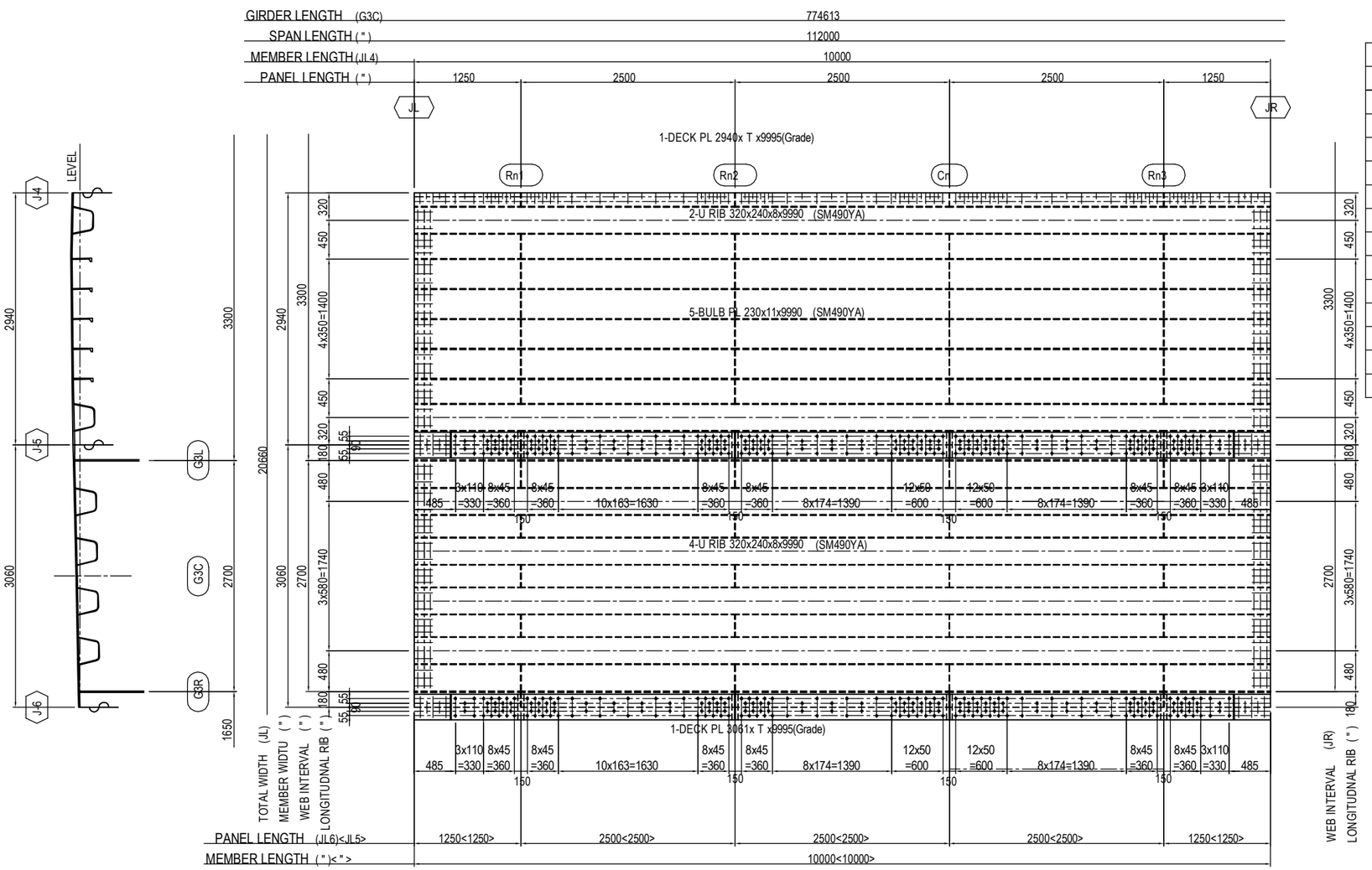


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (71)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1571

DETAIL OF DECK PLATE (72) S=1:60

(3-55,3-56,3-57,3-67,3-68,3-69,3-73,3-74,3-75,3-76,3-77,3-78,3-79,3-80)



	JL	JR	Cn	Rn1	Rn2	Rn3	T	Grade	L
3-55	J54	J55	C50	R161	R162	R163	16	SM490YA	70
3-56	J55	J56	C51	R164	R165	R166	16	SM490YA	70
3-57	J56	J57	C52	R167	R168	R169	16	SM490YA	70
3-67	J66	J67	C61	R197	R198	R199	16	SM490YA	70
3-68	J67	J68	C62	R200	R201	R202	16	SM490YA	70
3-69	J68	J69	C63	R203	R204	R205	16	SM490YA	70
3-73	J72	J73	C66	R215	R216	R217	25	SM490YB	80
3-74	J73	J74	C67	R218	R219	R220	16	SM490YA	70
3-75	J74	J75	C68	R221	R222	R223	16	SM490YA	70
3-76	J75	J76	C69	R224	R225	R226	16	SM490YA	70
3-77	J76	J77	C70	R227	R228	R229	16	SM490YA	70
3-78	J77	J78	C71	R230	R231	R232	16	SM490YA	70
3-79	J78	J79	C72	R233	R234	R235	16	SM490YA	70
3-80	J79	J80	C73	R236	R237	R238	16	SM490YA	70

JL5 DECK(TOP SURFACE)

2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)

2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22xL(S10T)

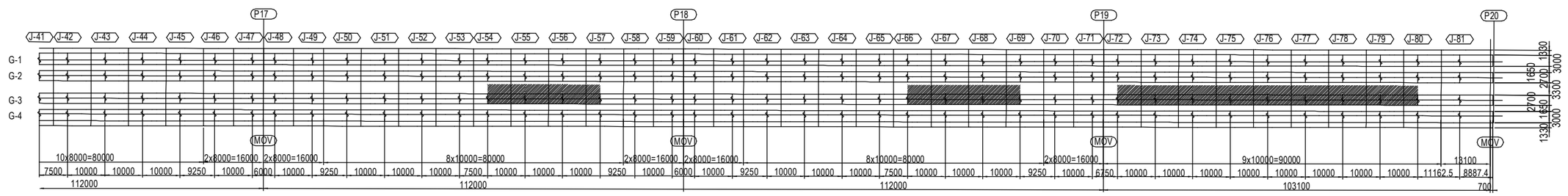
JL6 DECK(TOP SURFACE)

2-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)

(BOTTOM SURFACE)

2-SPL PL 300x9x 780(SM490YA)
3-SPL PL 300x9x2430(SM490YA)
218-TCB M22xL(S10T)

MARKING DIAGRAM

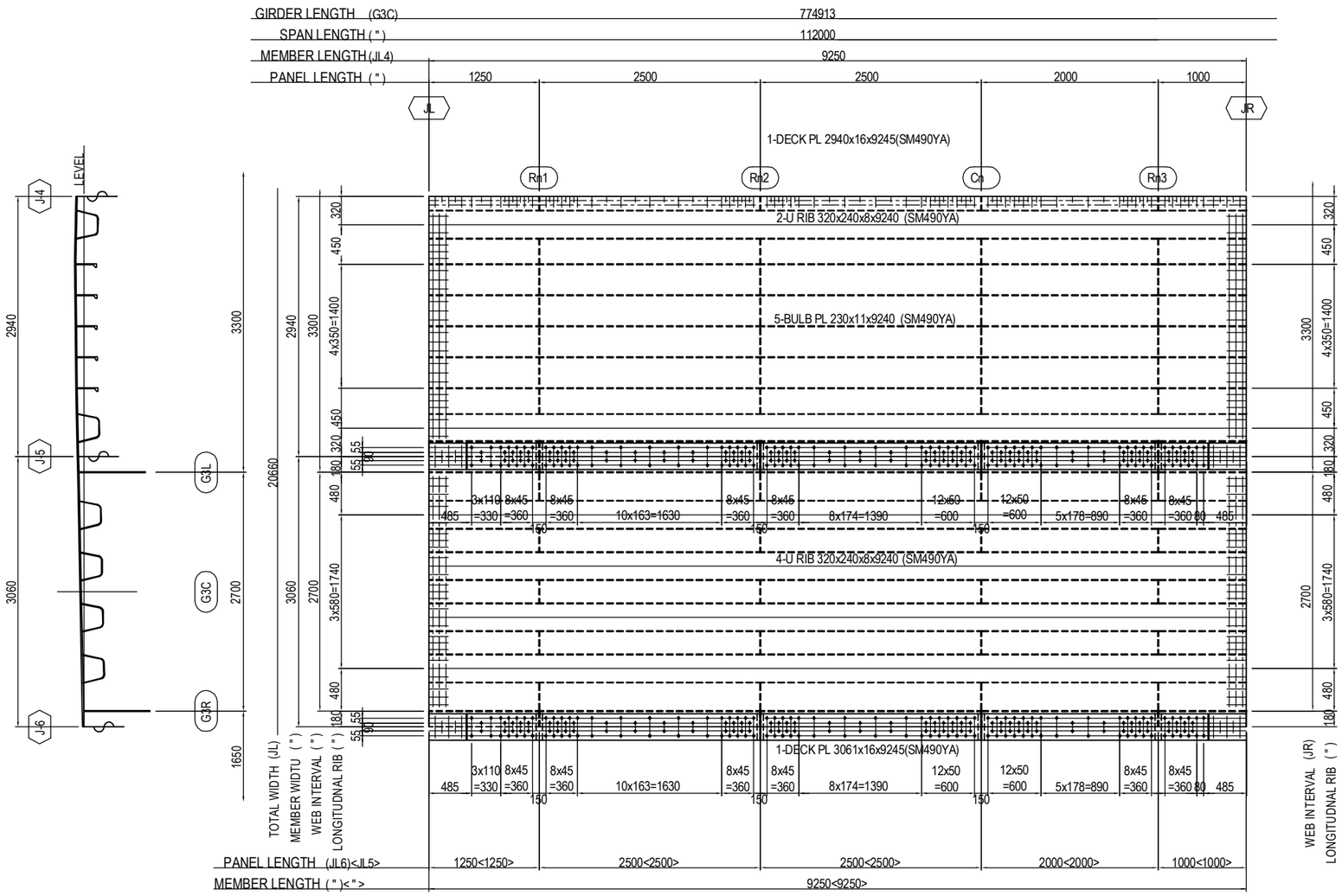


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (72)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1572

DETAIL OF DECK PLATE (73) S=1:60

(3-22,3-34,3-46)



	JL	JR	Cn	Rn1	Rn2	Rn3
3-22	J21	J22	C20	R62	R63	R64
3-34	J33	J34	C31	R98	R99	R100
3-46	J45	J46	C42	R134	R135	R136

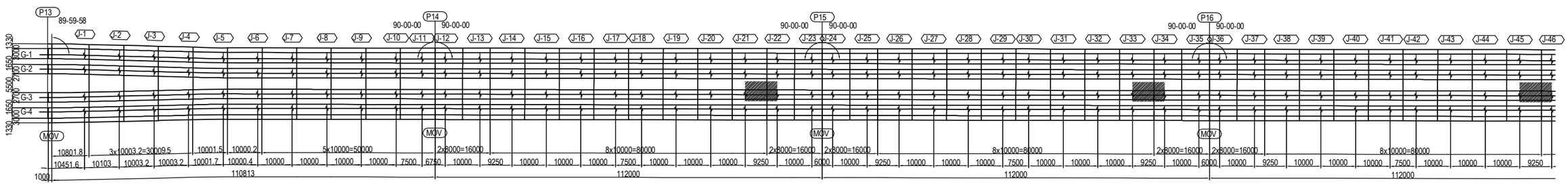
JL5 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
208-TCB M22x70(S10T)

JL6 DECK(TOP SURFACE)
1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
1-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
208-TCB M22x70(S10T)

MARKING DIAGRAM

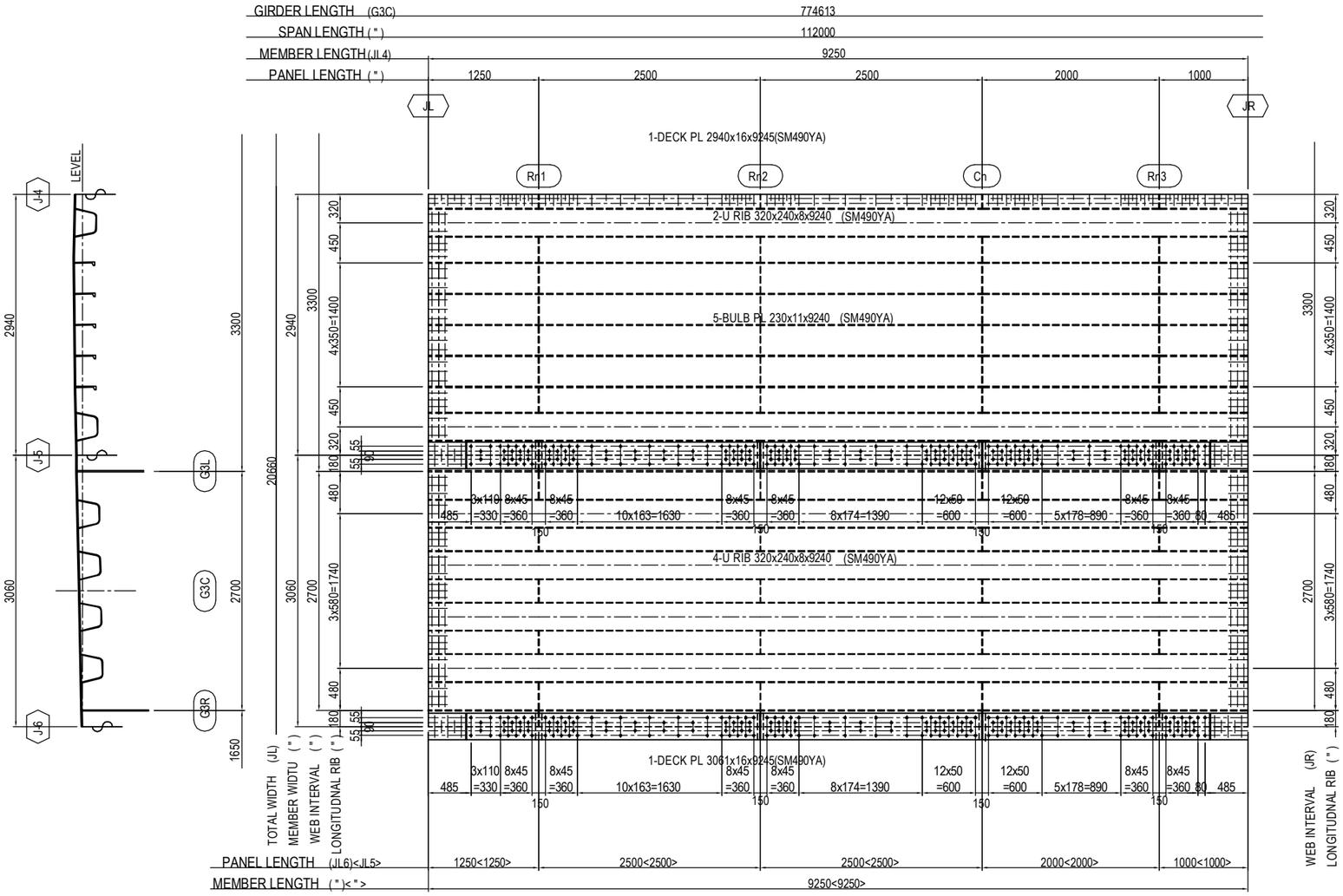


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (73)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1573

DETAIL OF DECK PLATE (74) S=1:60

(3-58,3-70)



	JL	JR	Cn	Rn1	Rn2	Rn3
2-58	J57	J58	C53	R170	R171	R172
2-70	J69	J70	C64	R206	R207	R208

JL5 DECK(TOP SURFACE)

1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
208-TCB M22x70(S10T)

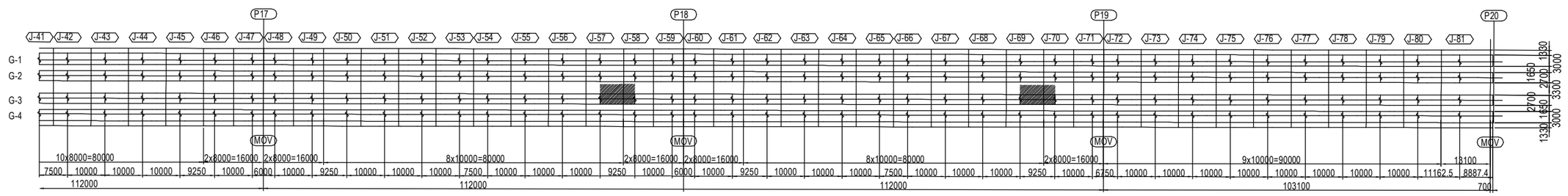
JL6 DECK(TOP SURFACE)

1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x 530(SM490YA)
208-TCB M22x70(S10T)

MARKING DIAGRAM

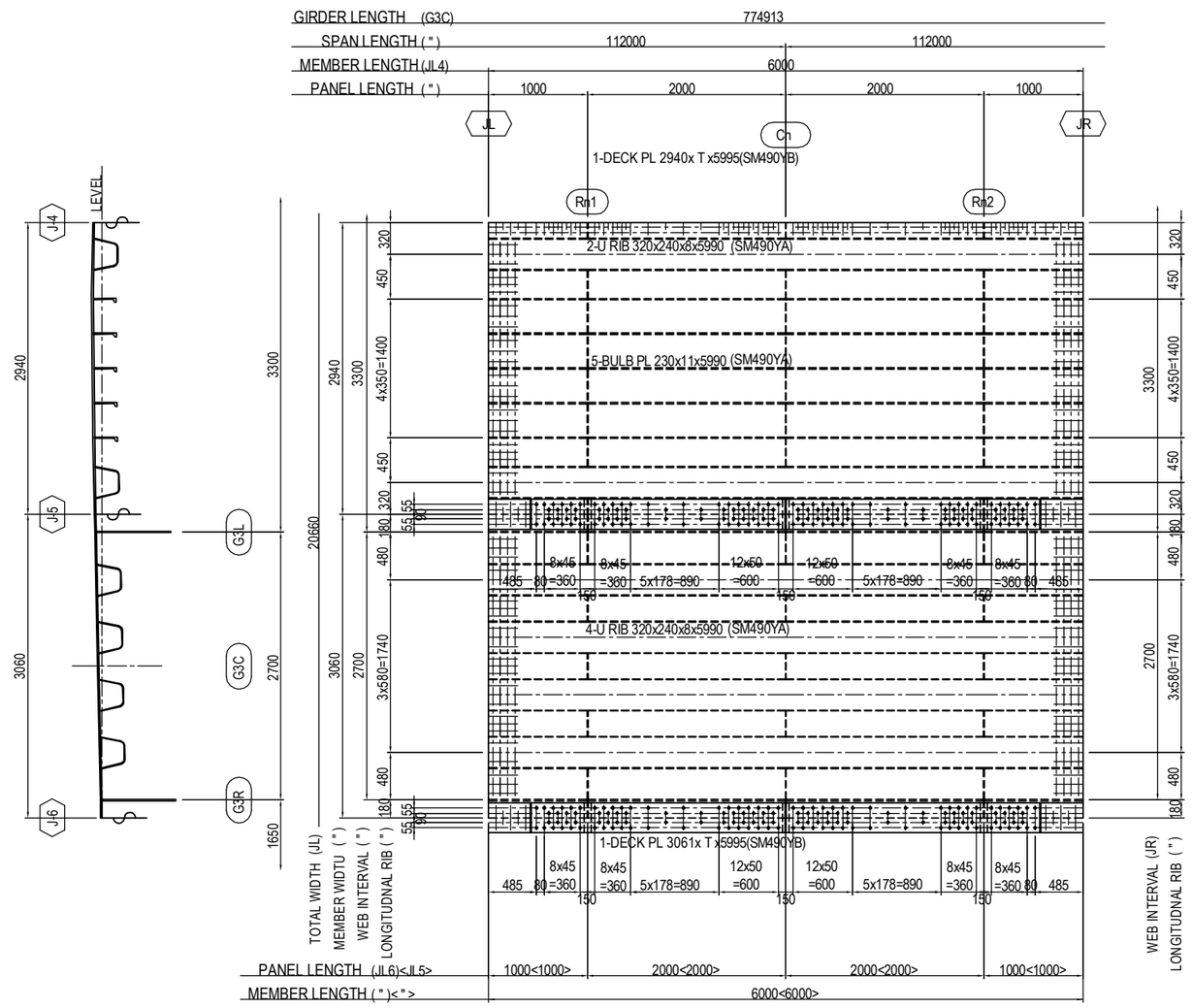


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (74)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1574

DETAIL OF DECK PLATE (75) S=1:60

(3-24,3-36)



	JL	JR	Cn	Rn1	Rn2	T
3-24	J23	J24	S3	R69	R70	19
3-36	J35	J36	S4	R105	R106	22

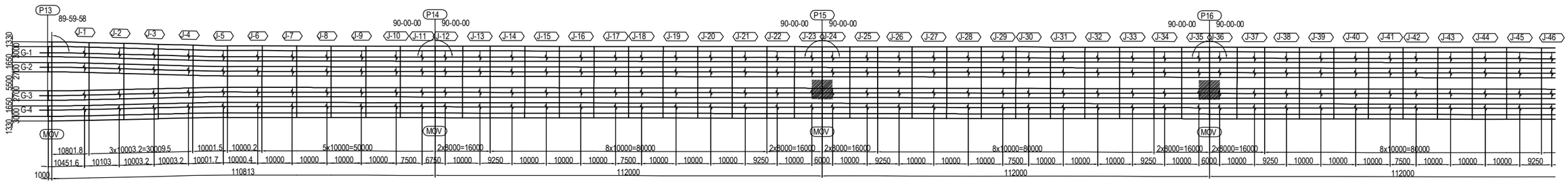
JL5 DECK(TOP SURFACE)
2-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 530(SM490YA)
2-SPL PL 300x9x1930(SM490YA)
144-TCB M22x75(S10T)

JL6 DECK(TOP SURFACE)
2-SPL PL 300x9x2560(SM490YA)

(BOTTOM SURFACE)
2-SPL PL 300x9x 530(SM490YA)
2-SPL PL 300x9x1930(SM490YA)
144-TCB M22x75(S10T)

MARKING DIAGRAM



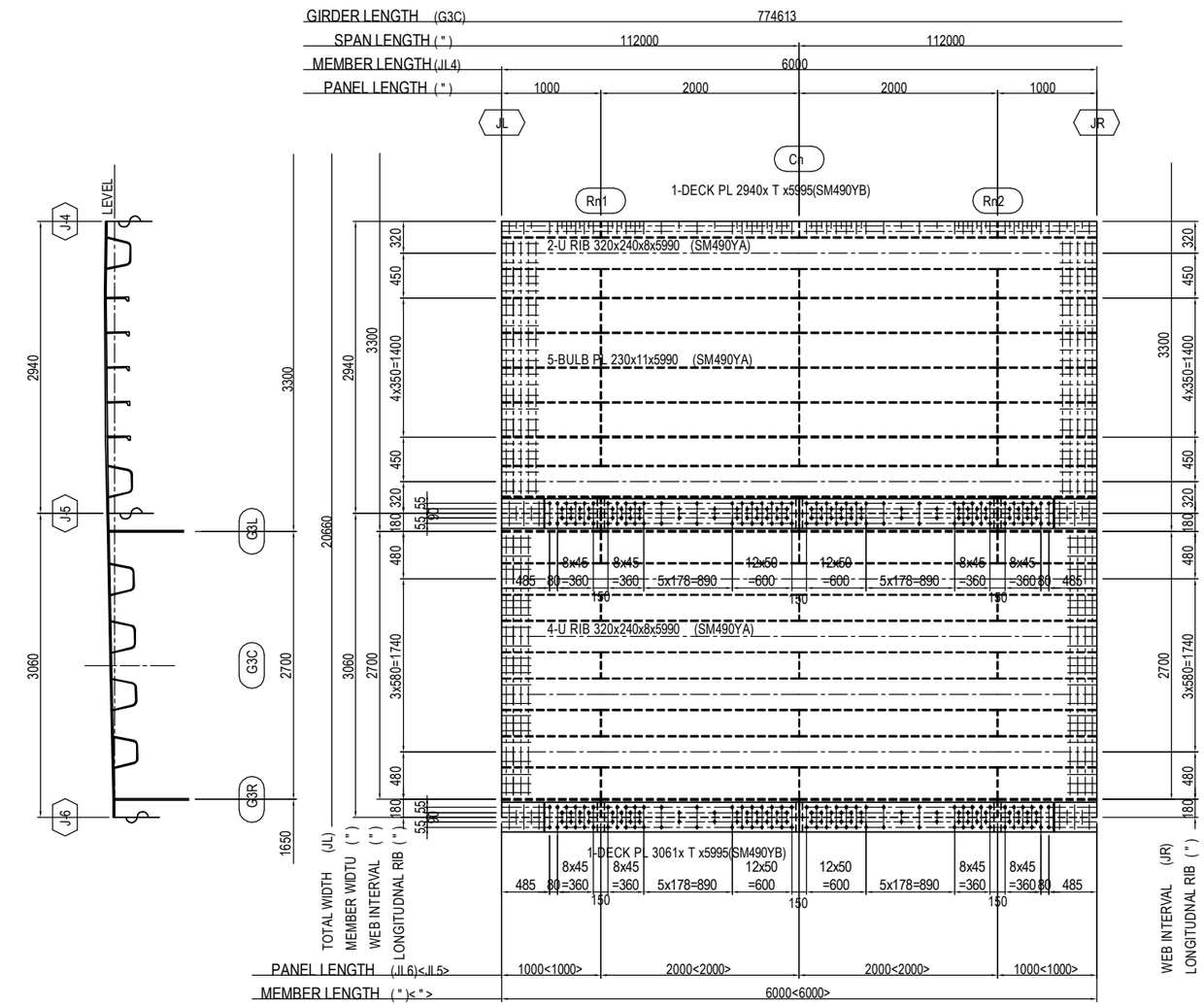
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF DECK PLATE (75)	2
	DWG No.
	P2-SB-1575

DETAIL OF DECK PLATE (76) S=1:60

(3-48,3-60)



	JL	JR	Cn	Rn1	Rn2	T
3-48	J47	J48	S5	R141	R142	21
3-60	J59	J60	S6	R177	R178	20

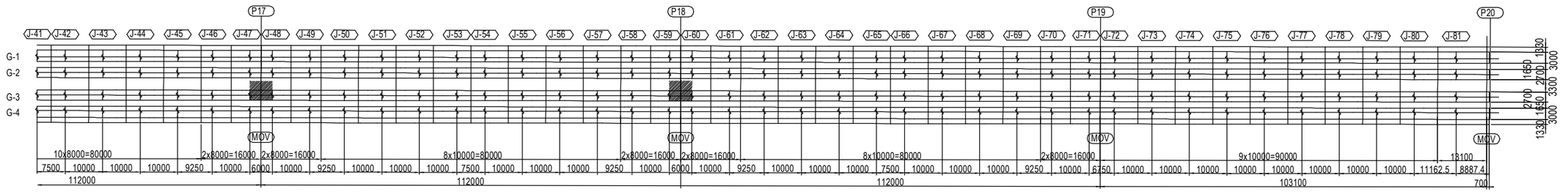
JL5 DECK(TOP SURFACE) (BOTTOM SURFACE)

2-SPL PL 300x9x2560(SM490YA) 2-SPL PL 300x9x 530(SM490YA)
2-SPL PL 300x9x1930(SM490YA)
144-TCB M22x75(S10T)

JL6 DECK(TOP SURFACE) (BOTTOM SURFACE)

2-SPL PL 300x9x2560(SM490YA) 2-SPL PL 300x9x 530(SM490YA)
2-SPL PL 300x9x1930(SM490YA)
144-TCB M22x75(S10T)

MARKING DIAGRAM

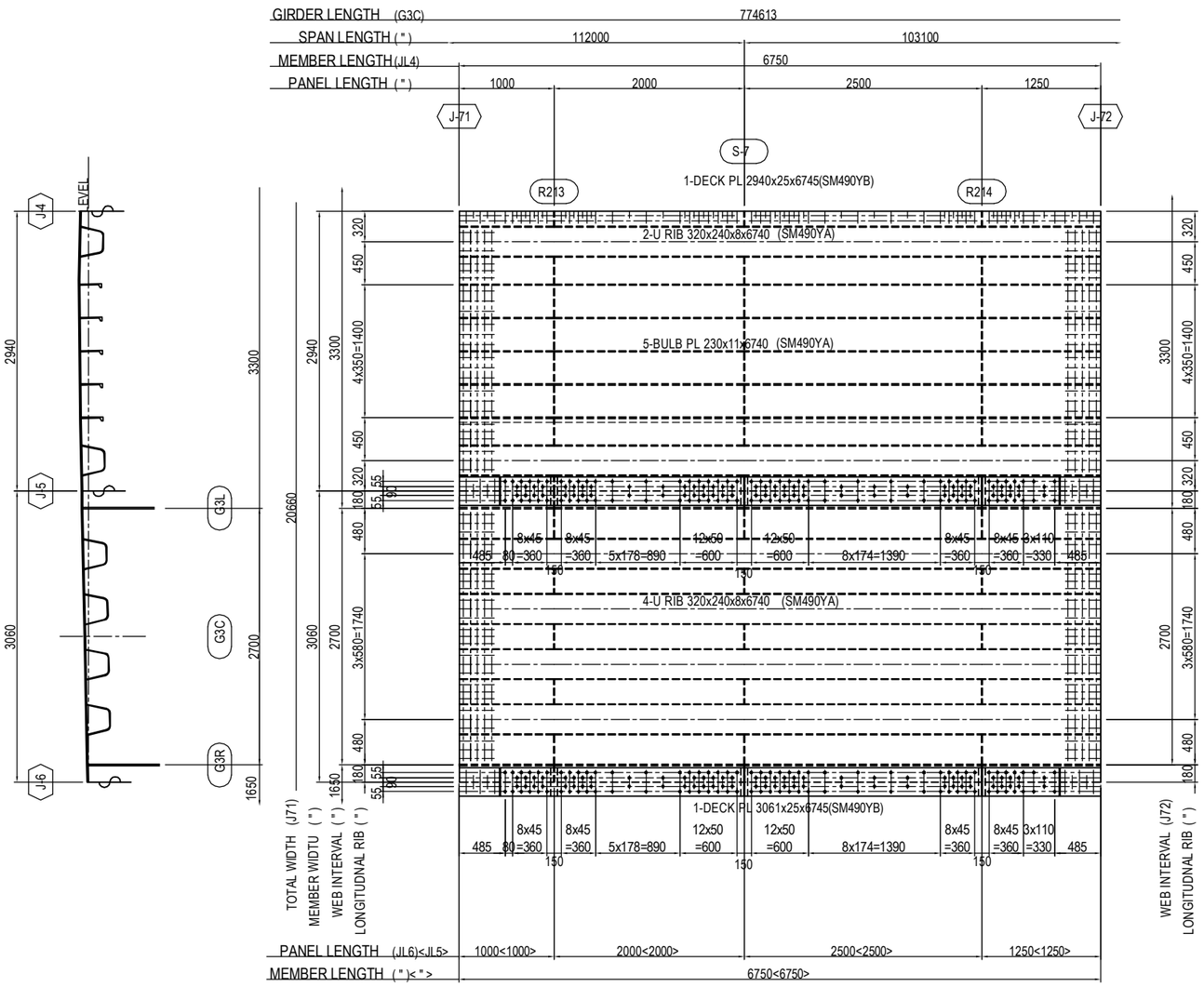


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (76)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1576

DETAIL OF DECK PLATE (77) S=1:60

(3-72)



JL5 DECK(TOP SURFACE)

1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
154-TCB M22x80(S10T)

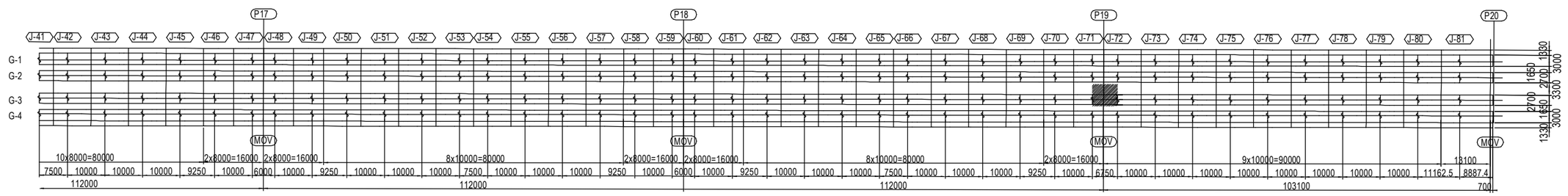
JL6 DECK(TOP SURFACE)

1-SPL PL 300x9x2560(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x 810(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 530(SM490YA)
1-SPL PL 300x9x1930(SM490YA)
1-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x 780(SM490YA)
154-TCB M22x80(S10T)

MARKING DIAGRAM

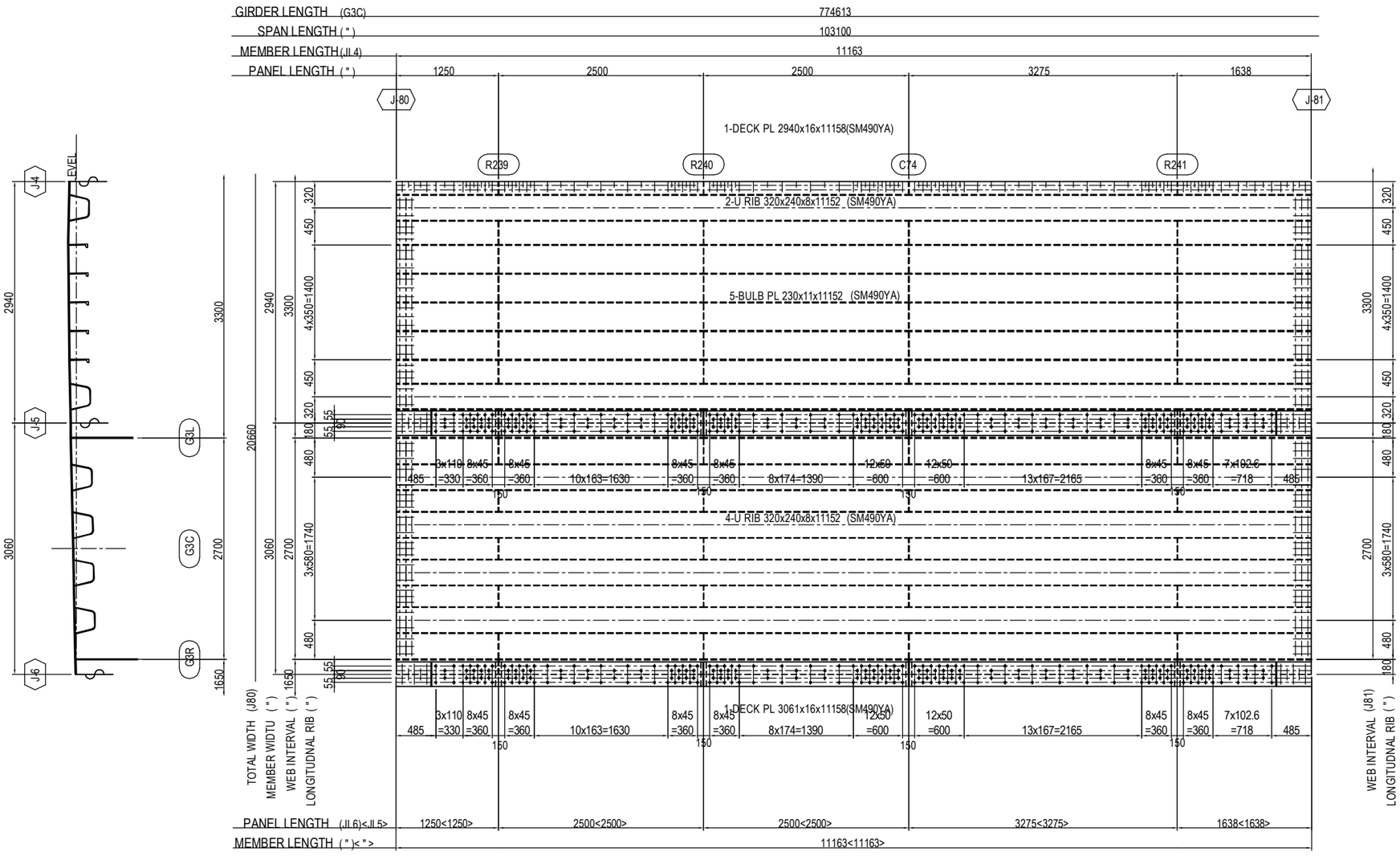


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	DRAWING TITLE: DETAIL OF DECK PLATE (77)	PACKAGE: 2
					DWG No.: P2-SB-1577

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DETAIL OF DECK PLATE (78) S=1:60

(3-81)



JL5 DECK(TOP SURFACE)

1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x4473(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x3205(SM490YA)
1-SPL PL 300x9x1168(SM490YA)
236-TCB M22x70(S10T)

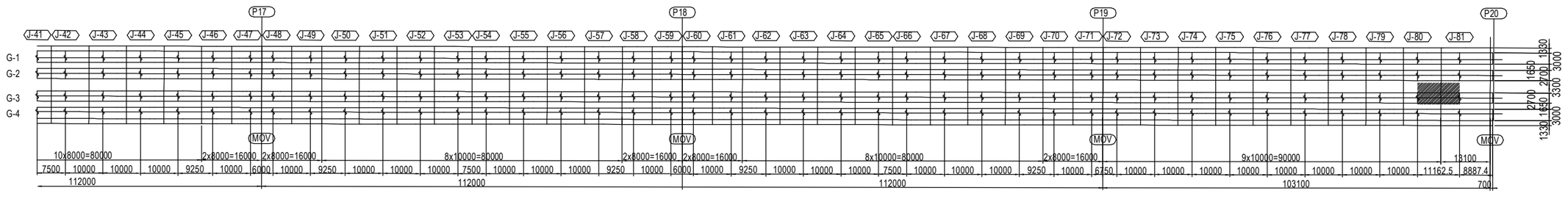
JL6 DECK(TOP SURFACE)

1-SPL PL 300x9x3310(SM490YA)
1-SPL PL 300x9x2490(SM490YA)
1-SPL PL 300x9x4473(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x 780(SM490YA)
2-SPL PL 300x9x2430(SM490YA)
1-SPL PL 300x9x3205(SM490YA)
1-SPL PL 300x9x1168(SM490YA)
236-TCB M22x70(S10T)

MARKING DIAGRAM



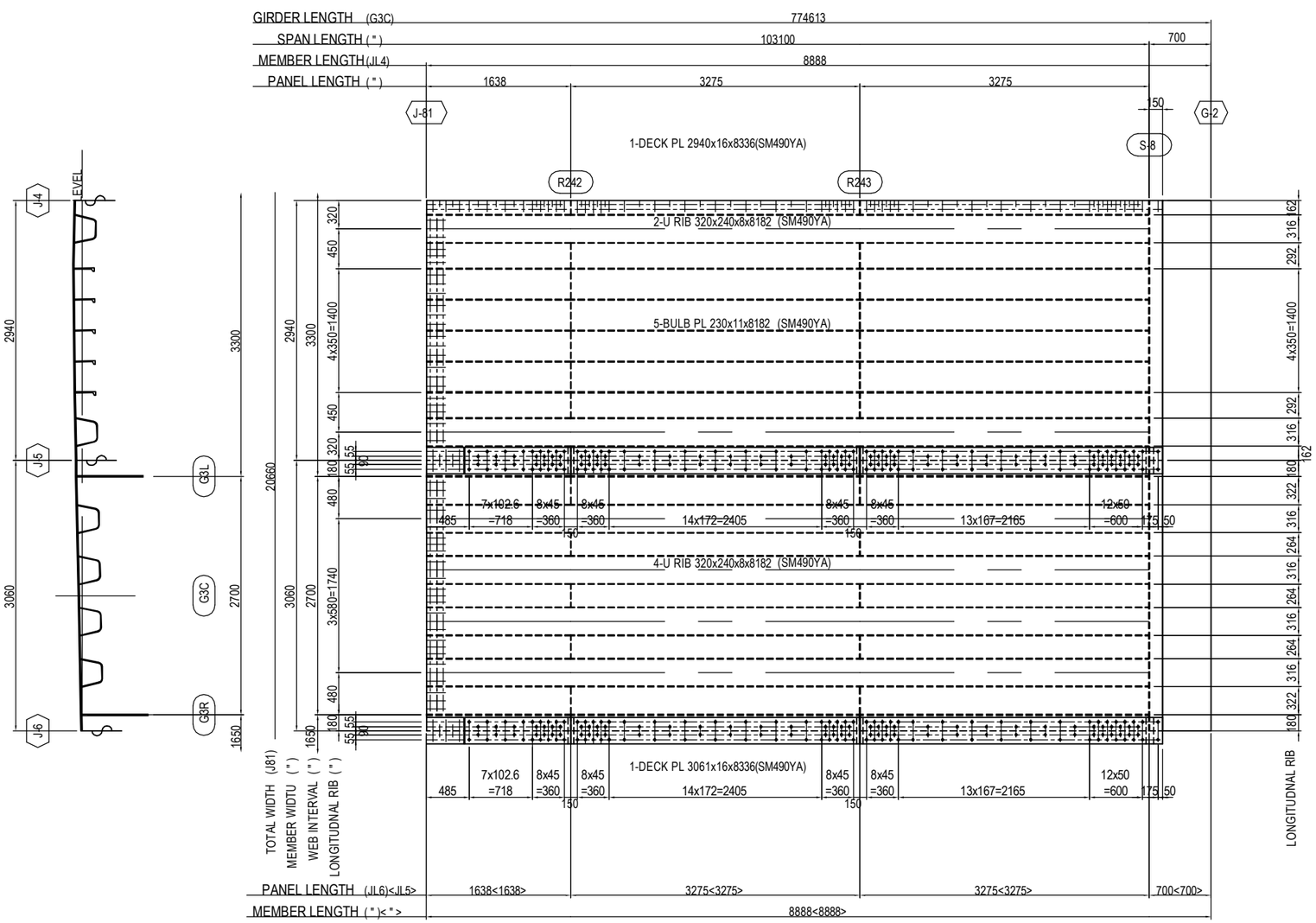
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF DECK PLATE (78)	2
	DWG No.
	P2-SB-1578

DETAIL OF DECK PLATE (79) S=1:60

(3-82)



JL5 DECK(TOP SURFACE)

1-SPL PL 300x9x1198(SM490YA)
1-SPL PL 300x9x3265(SM490YA)
1-SPL PL 300x9x3420(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x1168(SM490YA)
2-SPL PL 300x9x3205(SM490YA)
1-SPL PL 300x9x 100(SM490YA)
164-TCB M22x70(S10T)

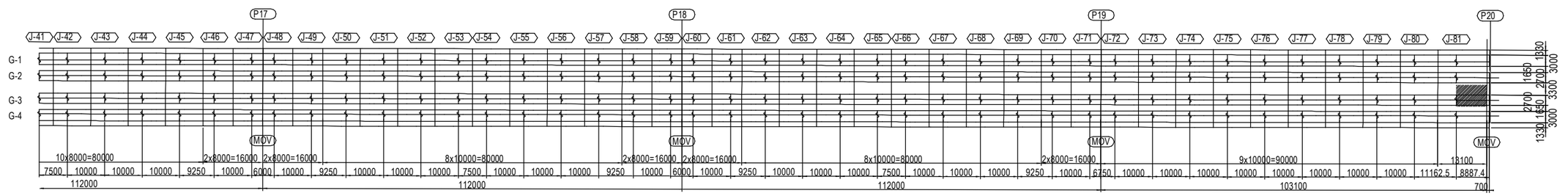
JL6 DECK(TOP SURFACE)

1-SPL PL 300x9x1198(SM490YA)
1-SPL PL 300x9x3265(SM490YA)
1-SPL PL 300x9x3420(SM490YA)

(BOTTOM SURFACE)

1-SPL PL 300x9x1168(SM490YA)
2-SPL PL 300x9x3205(SM490YA)
1-SPL PL 300x9x 100(SM490YA)
164-TCB M22x70(S10T)

MARKING DIAGRAM



PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF DECK PLATE (79)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1579

PAINTING SYSTEM DETAIL (1) S= 1:15

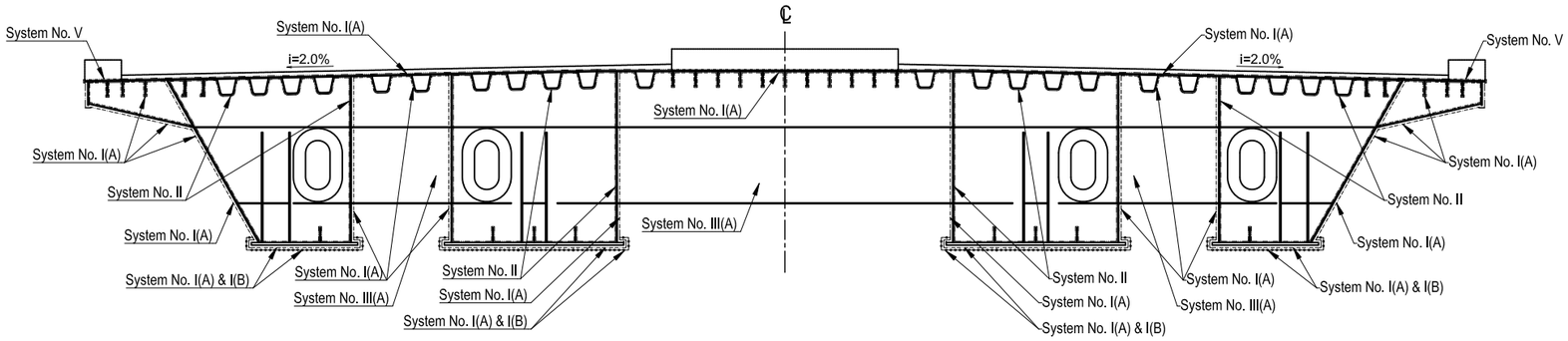
Description	General Surface			Joint Connection (Steel Mills and Fabrication Shop: splice plate, filler plate and contact surface of girder) (Construction Site: Splice Plate and Bolts)			Surface in Contact with Concrete and Pavement	
	I. External		II. Internal	III. External		IV. Internal	V. General Surface	VI. Joint Connection
	(A) Normal	(B) Particular		(A) Normal	(B) Particular			
Steel Mills								
1. Preliminary Surface Treatment	Blast Cleaned (ISO Sa2.5)	Blast Cleaned (ISO Sa2.5)	Blast Cleaned (ISO Sa2.5)	Blast Cleaned (ISO Sa2.5)	Blast Cleaned (ISO Sa2.5)	Blast Cleaned (ISO Sa2.5)	SSPC-SP10 Near - white Blast Cleaning	SSPC-SP10 Near - white Blast Cleaning
2. Primer	Inorganic Zinc-Rich Shop Primer DFT : 15µm (160g/m²)	Inorganic Zinc-Rich Shop Primer DFT : 15µm (160g/m²)	Inorganic Zinc-Rich Shop Primer DFT : 15µm (160g/m²)	Inorganic Zinc-Rich Shop Primer DFT : 15µm (160g/m²)	Inorganic Zinc-Rich Shop Primer DFT : 15µm (160g/m²)	Inorganic Zinc-Rich Shop Primer DFT : 15µm (160g/m²)	Inorganic Zinc-Rich Shop Primer DFT : 15µm (200g/m²)	Inorganic Zinc-Rich Shop Primer DFT : 15µm (200g/m²)
Fabrication Shop								
3. Surface Treatment	Blast Cleaned (ISO Sa2.5)	Blast Cleaned (ISO Sa2.5)	Power Tool Cleaned (ISO Sa3)	Blast Cleaned (ISO Sa2.5)	Blast Cleaned (ISO Sa2.5)	Blast Cleaned (ISO Sa2.5)	SSPC-SP10 Near - white Blast Cleaning	SSPC-SP10 Near - white Blast Cleaning
4. 1st Under-Coat	Inorganic Zinc-Rich Paint DFT : 75µm (600g/m²)	Inorganic Zinc-Rich Paint DFT : 75µm (600g/m²)	Formulated Epoxy Resin DFT : 120µm (410g/m²)	Inorganic Zinc-Rich Paint DFT : 75µm (600g/m²)	Inorganic Zinc-Rich Paint DFT : 75µm (600g/m²)	Inorganic Zinc-Rich Paint DFT : 75µm (600g/m²)	High Build Type Inorganic Zinc Rich Paint (Self-Curing Solvent Type) DFT : 30µm (280g/m²)	High Build Type Inorganic Zinc Rich Paint (Self-Curing Solvent Type) DFT : 75µm (700g/m²)
5. 2nd Under-Coat	Epoxy Resin DFT : (160g/m²)	Epoxy Resin DFT : (160g/m²)	Formulated Epoxy Resin DFT : 120µm (410g/m²)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)
6. 3rd Under-Coat	Epoxy Resin DFT : 120µm (540g/m²)	Epoxy Resin DFT : 240µm (1080g/m²)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)
7. 4th Under-Coat	Fluorescent Resin DFT : 30µm (170g/m²)	Fluorescent Resin DFT : 30µm (170g/m²)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)
8. 5th Intermediate Coat	Fluorescent Resin DFT : 25µm (140g/m²)	Fluorescent Resin DFT : 25µm (140g/m²)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)
9. Finish Coat	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.) (N.A.)
Construction Site								
10. Surface Treatment	(N.A.)	(N.A.)	(N.A.)	Power Tool Cleaned (ISO St3)	Power Tool Cleaned (ISO St3)	Power Tool Cleaned (ISO St3)	(N.A.)	(N.A.)
11. 1st Under-Coat	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)
12. 2nd Under-Coat	(N.A.)	(N.A.)	(N.A.)	Formulated Epoxy Resin DFT : 120µm (410g/m²)	Formulated Epoxy Resin DFT : 120µm (410g/m²)	Formulated Epoxy Resin DFT : 160g/m²	(N.A.)	(N.A.)
13. 3rd Under-Coat	(N.A.)	(N.A.)	(N.A.)	Ultra Thick Epoxy Resin DFT : 300µm (1100g/m²)	Ultra Thick Epoxy Resin DFT : 600µm (2200g/m²)	Ultra Thick Epoxy Resin DFT : 300µm (1100g/m²)	(N.A.)	(N.A.)
14. 4th Under-Coat	(N.A.)	(N.A.)	(N.A.)	Fluorescent Resin DFT : 25µm (170g/m²) (140g/m² by brush)	Fluorescent Resin DFT : 25µm (170g/m²) (140g/m² by brush)	(N.A.)	(N.A.)	(N.A.)
15. 5th Under-Coat	(N.A.)	(N.A.)	(N.A.)	Fluorescent Resin DFT : 25µm (140g/m²) (120g/m² by brush)	Fluorescent Resin DFT : 25µm (140g/m²) (120g/m² by brush)	(N.A.)	(N.A.)	(N.A.)
16. Intermediate Coat	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)
17. Finish Coat	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)	(N.A.)
Explanatory Remarks (Line/Hatch)								

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

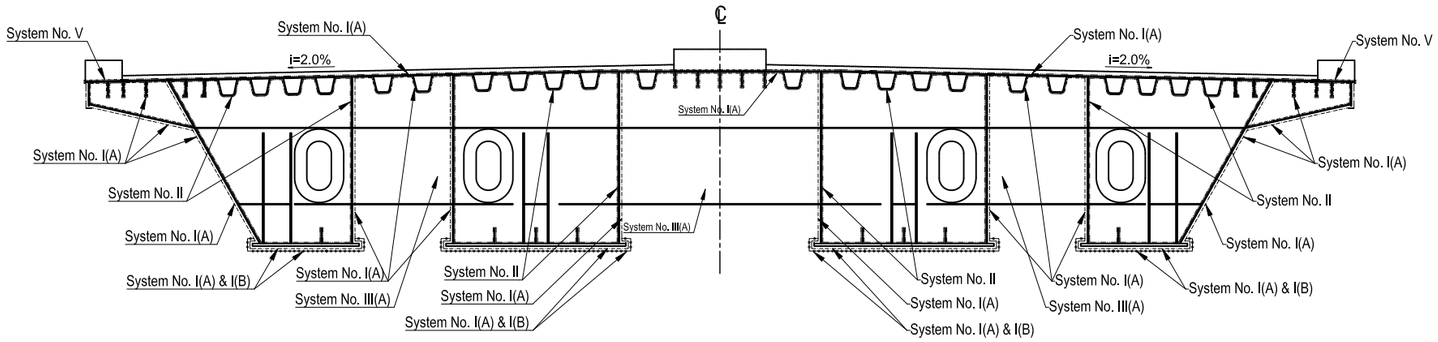
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	PAINTING SYSTEM DETAIL (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-1601

PAINTING SYSTEM DETAIL (2) S= 1:100

CROSS SECTION OF STEEL BOX GIRDER AT END SUPPORT (1)

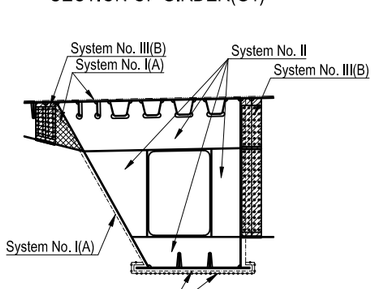


CROSS SECTION OF STEEL BOX GIRDER AT END SUPPORT (2)

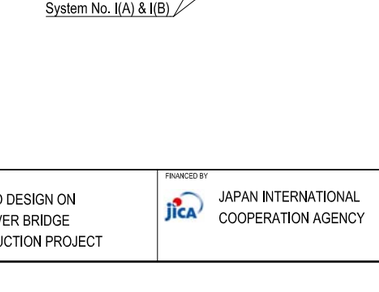


SECTIONS OF STEEL BOX GIRDER AT MID SPAN

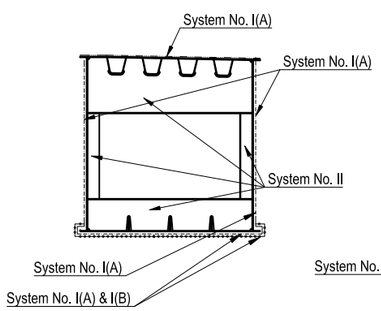
SECTION OF GIRDER(G1)



SECTION OF GIRDER(G2)



SECTION OF GIRDER(G3) (INTERNAL RIB)



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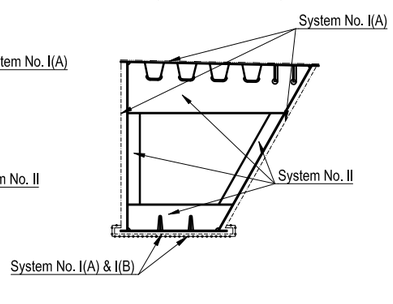
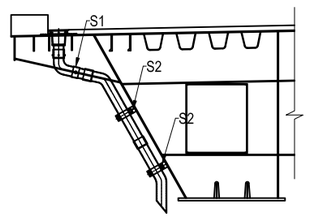
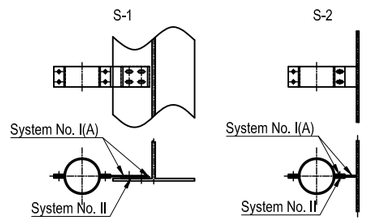


SECTION 1-1



SUPPORT DEVICES S= 1:30



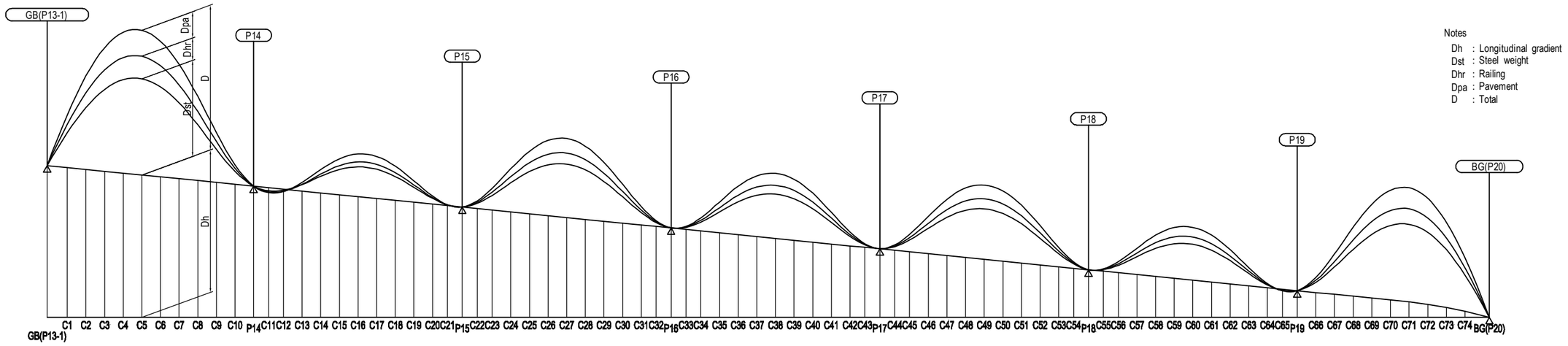
Note: The Contractor shall mark the Painting Record Table at the end of Girder Web.

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
PAINTING SYSTEM DETAIL (2)	2
	DWG No.
	P2-SB-1602

CAMBER VIEW



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G-1	Dh	2442	2411	2381	2351	2321	2291	2261	2231	2201	2171	2141	2111	2087	2063	2033	2003	1973	1943	1913	1883	1853	1823	1799	1775	1751	1727	1697	1667	1637	1607	1577	1547	1517	1487	1463	1439	1415	1391	1361	1331	1301	Dh	G-1
	Dst	0	111	199	263	301	309	289	244	179	106	41	0	-10	-4	21	53	81	96	94	76	48	18	2	0	17	47	93	136	164	172	159	128	84	40	12	0	7	29	68	106	133	Dst	
	Dhr	0	27	48	63	71	73	68	57	42	25	10	0	-3	-3	1	7	12	16	16	13	8	3	0	0	4	10	20	28	34	35	33	26	17	8	3	0	1	6	13	21	26	Dhr	
	Dpa	0	30	54	72	82	84	79	66	49	29	11	0	-3	-1	6	15	22	26	26	21	13	5	1	0	5	13	25	37	45	47	43	35	23	11	3	0	2	8	18	29	36	Dpa	
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G-2	Dh	2442	2411	2381	2351	2321	2291	2261	2231	2201	2171	2141	2111	2087	2063	2033	2003	1973	1943	1913	1883	1853	1823	1799	1775	1751	1727	1697	1667	1637	1607	1577	1547	1517	1487	1463	1439	1415	1391	1361	1331	1301	Dh	G-2
	Dst	0	111	199	263	301	310	290	244	179	106	41	0	-10	-4	21	53	81	96	94	76	48	18	2	0	17	47	93	135	163	172	159	128	84	40	12	0	7	29	67	106	133	Dst	
	Dhr	0	27	48	63	71	73	68	57	42	25	10	0	-3	-3	1	7	12	15	15	12	8	2	0	0	4	10	19	28	33	35	32	26	17	8	3	0	1	5	13	21	26	Dhr	
	Dpa	0	30	54	71	82	84	78	66	49	29	11	0	-3	-1	6	14	22	26	25	21	13	5	1	0	5	13	25	37	44	46	43	35	23	11	3	0	2	8	18	29	36	Dpa	
	D	0	168	300	397	453	466	436	368	270	160	63	0	-17	-8	27	74	115	137	134	109	68	25	2	0	25	70	138	200	241	253	235	188	124	58	18	0	10	42	98	155	194	D	
G-3	Dh	2442	2411	2381	2351	2321	2291	2261	2231	2201	2171	2141	2111	2087	2063	2033	2003	1973	1943	1913	1883	1853	1823	1799	1775	1751	1727	1697	1667	1637	1607	1577	1547	1517	1487	1463	1439	1415	1391	1361	1331	1301	Dh	G-3
	Dst	0	111	199	263	301	310	290	244	179	106	41	0	-10	-4	21	53	81	96	94	76	48	18	2	0	17	47	93	135	163	172	159	128	84	40	12	0	7	29	67	106	133	Dst	
	Dhr	0	27	48	63	71	73	68	57	42	25	10	0	-3	-3	1	7	12	15	15	12	8	2	0	0	4	10	19	28	33	35	32	26	17	8	3	0	1	5	13	21	26	Dhr	
	Dpa	0	30	54	71	82	84	78	66	49	29	11	0	-3	-1	6	14	22	26	25	21	13	5	1	0	5	13	25	37	44	46	43	35	23	11	3	0	2	8	18	29	36	Dpa	
	D	0	168	300	397	453	466	436	368	270	160	63	0	-17	-8	27	74	115	137	134	109	68	25	2	0	25	70	138	200	241	253	235	188	124	58	18	0	10	42	98	155	194	D	
G-4	Dh	2442	2411	2381	2351	2321	2291	2261	2231	2201	2171	2141	2111	2087	2063	2033	2003	1973	1943	1913	1883	1853	1823	1799	1775	1751	1727	1697	1667	1637	1607	1577	1547	1517	1487	1463	1439	1415	1391	1361	1331	1301	Dh	G-4
	Dst	0	111	199	263	301	309	289	244	179	106	41	0	-10	-4	21	53	81	96	94	76	48	18	2	0	17	47	93	136	164	172	159	128	84	40	12	0	7	29	68	106	133	Dst	
	Dhr	0	27	48	63	71	73	68	57	42	25	10	0	-3	-3	1	7	12	16	16	13	8	3	0	0	4	10	20	28	34	35	33	26	17	8	3	0	1	6	13	21	26	Dhr	
	Dpa	0	30	54	72	82	84	79	66	49	29	11	0	-3	-1	6	15	22	26	26	21	13	5	1	0	5	13	25	37	45	47	43	35	23	11	3	0	2	8	18	29	36	Dpa	
	D	0	169	300	397	453	466	436	368	271	160	63	0	-16	-8	28	75	116	138	135	110	69	26	3	0	25	70	139	201	242	254	235	189	125	59	19	0	10	42	99	156	195	D	

単位 mm

		C38	C39	C40	C41	C42	C43	P17	C44	C45	C46	C47	C48	C49	C50	C51	C52	C53	C54	P18	C55	C56	C57	C58	C59	C60	C61	C62	C63	C64	C65	P19	C66	C67	C68	C69	C70	C71	C72	C73	C74	BG(P20)		
G-1	Dh	1271	1241	1211	1181	1151	1127	1103	1079	1055	1025	995	965	935	905	875	845	815	791	767	743	719	689	659	629	599	569	539	509	479	455	431	401	371	341	311	281	250	211	160	98	0	Dh	G-1
	Dst	143	134	107	69	30	8	0	12	38	81	123	152	162	153	126	86	42	14	0	5	24	58	90	111	116	103	75	39	9	-4	0	33	88	151	205	240	249	231	186	117	0	Dst	
	Dhr	28	27	21	14	6	2	0	2	8	16	25	30	33	31	25	17	8	3	0	1	5	12	18	22	23	21	15	8	2	-1	0	7	18	30	41	48	50	46	37	23	0	Dhr	
	Dpa	39	36	29	19	8	2	0	3	10	22	33	41	44	42	34	23	11	4	0	1	7	16	25	30	31	28	20	11	2	-1	0	9	24	41	56	65	68	63	51	32	0	Dpa	
	D	210	196	158	102	45	12	0	17	56	120	181	223	239	226	186	126	62	21	0	7	35	85	133	164	170	151	110	58	13	-6	0	49	129	222	302	353	367	341	274	172	0	D	
G-2	Dh	1271	1241	1211	1181	1151	1127	1103	1079	1055	1025	995	965	935	905	875	845	815	791	767	743	719	689	659	629	599	569	539	509	479	455	431	401	371	341	311	281	250	211	160	98	0	Dh	G-2
	Dst	142	133	107	69	30	8	0	12	38	81	123	151	162	153	126	85	42	14	0	5	24	58	90	111	115	102	75	39	9	-4	0	33	88	150	205	240	249	232	186	116	0	Dst	
	Dhr	28	26	21	13	6	1	0	2	8	16	24	30	32	30	25	17	8	3	0	1	5	11	18	22	23	20	15	8	2	-1	0	7	17	30	41	48	49	46	37	23	0	Dhr	
	Dpa	39	36	29	19	8	2	0	3	10	22	33	41	44	41	34	23	11	4	0	1	6	16	24	30	31	28	20	11	2	-1	0	9	24	41	55	65	68	63	50	31	0	Dpa	
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G-3	Dh	1271	1241	1211	1181	1151	1127	1103	1079	1055	1025	995	965	935	905	875	845	815	791	767	743	719	689	659	629	599	569	539	509	479	455	431	401	371	341	311	281	250	211	160	98	0	Dh	G-3
	Dst	142	133	107	69	30	8	0	12	38	81	123	151	162	153	126	85	42	14	0	5	24	58	90	111	115	102	75	39	9	-4	0	33	88	150	205	240	249	232	186	116	0	Dst	
	Dhr	28	26	21	13	6	1	0	2	8	16	24	30	32	30	25	17	8	3	0	1	5	11	18	22	23	20	15	8	2	-1	0	7	17	30	41	48	49	46	37	23	0	Dhr	
	Dpa	39	36	29	19	8	2	0	3	10	22	33	41	44	41	34	23	11	4	0	1	6	16	24	30	31	28	20	11	2	-1	0	9	24	41	55	65	68	63	50	31	0	Dpa	
	D	209	196	157	101	44	11	0	17	56	119	180	222	238	225	185	125	61	20	0	7	35	84	132	163	169	150	109	57	13	-6	0	48	129	221	301	352	366	340	274	171	0	D	
G-4	Dh	1271	1241	1211	1181	1151	1127	1103	1079	1055	1025	995	965	935	905	875	845	815	791	767	743	719	689	659	629	599	569	539	509	479	455	431	401	371	341	311	281	250	211	160	98	0	Dh	G-4
	Dst	143	134	107	69	30	8	0	12	38	81	123	152	162	153	126	86	42	14	0	5	24	58	90	111	116	103	75	39	9	-4	0	33	88	151	205	240	249	231	186	117	0	Dst	
	Dhr	28	27	21	14	6	2	0	2	8	16	25	30	33	31	25	17	8	3	0	1	5	12	18	22	23	21	15	8	2	-1	0	7	18	30	41	48	50	46	37	23	0	Dhr	
	Dpa	39	36	29	19	8	2	0	3	10	22	33	41	44	42	34	23	11	4	0	1	7	16	25	30	31	28	20	11	2	-1	0	9	24	41	56	65	68	63	51	32	0	Dpa	
	D	210	196	158	102	45	12	0	17	56	120	181	223	239	226	186	126	62	21	0	7	35	85	133	164	170	151	110	58	13	-6	0	49	129	222	302	353	367	341	274	172	0	D	

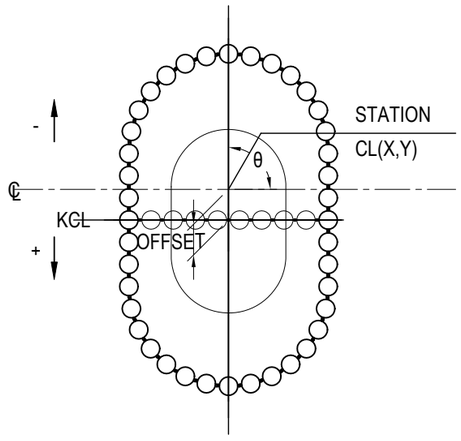
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

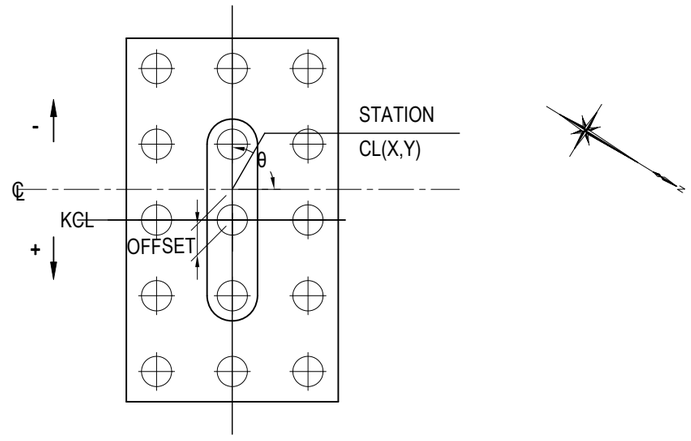
DRAWING TITLE	PACKAGE
CAMBER VIEW	2
	DWG No.
	P2-SB-1283

COORDINATES OF SUBSTRUCTURE (P14-P19)

NAME		P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	A2
STATION		1+424.000	1+536.000	1+648.000	1+760.000	1+872.000	1+984.000	2+088.000	2+138.000	2+188.000	2+238.000	2+288.000	2+338.000	2+388.000
CL	X	1858363.5073	1858460.4724	1858557.4375	1858654.4026	1858751.3677	1858848.3328	1858938.3718	1858981.6598	1859024.9477	1859068.2357	1859111.5237	1859154.8117	1859198.0997
	Y	204959.0244	204902.9729	204846.9214	204790.8699	204734.8184	204678.7669	204626.7190	204601.6961	204576.6731	204551.6501	204526.6271	204501.6041	204476.5811
AZIMUTH		239d 58′ 10.5″	239d 58′ 10.5″	239d 58′ 10.5″	239d 58′ 10.5″	239d 58′ 10.5″	239d 58′ 10.5″	239d 58′ 10.5″	239d 58′ 10.5″	239d 58′ 10.5″	239d 58′ 10.5″	239d 58′ 10.5″	239d 58′ 10.5″	239d 58′ 10.5″
SKEW ANGLE (θ)		90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″	90d 00′ 00″
OFFSET (m)		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

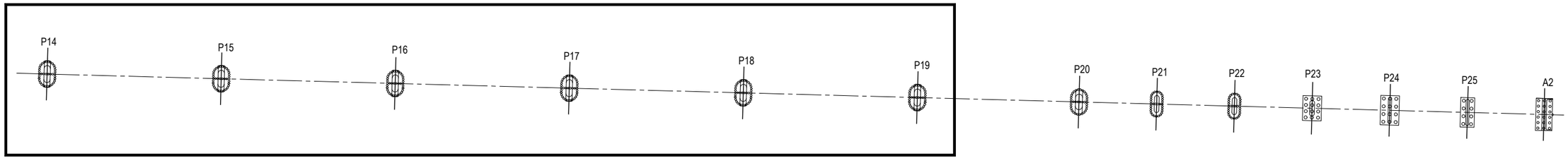


P14~ P22



P23~ A2

STEEL BOX GIRDER BRIDGE



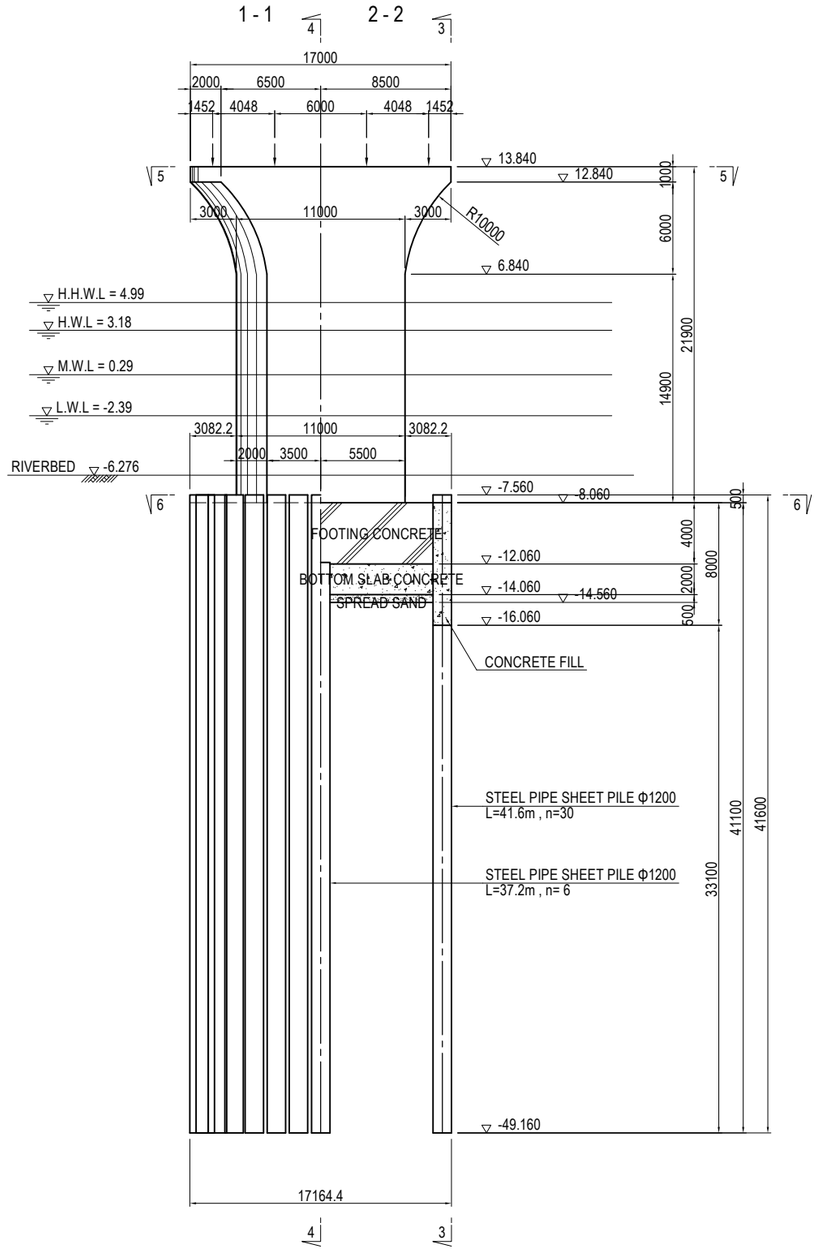
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

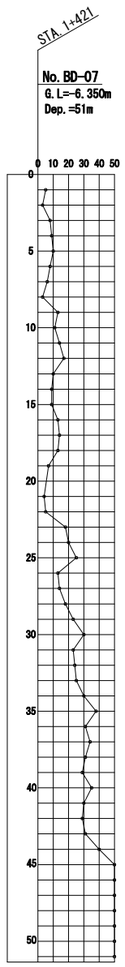
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S.IMADA		29 Sep. 2017	COORDINATES OF SUBSTRUCTURE (P14-P19)	2
CHECKED BY	T. HAYAKAWA		3 Oct. 2017		DWG No.
APPROVED BY	Y. SANO		6 Oct. 2017		P2-SB-2000

GENERAL VIEW OF P14 PIER (1)

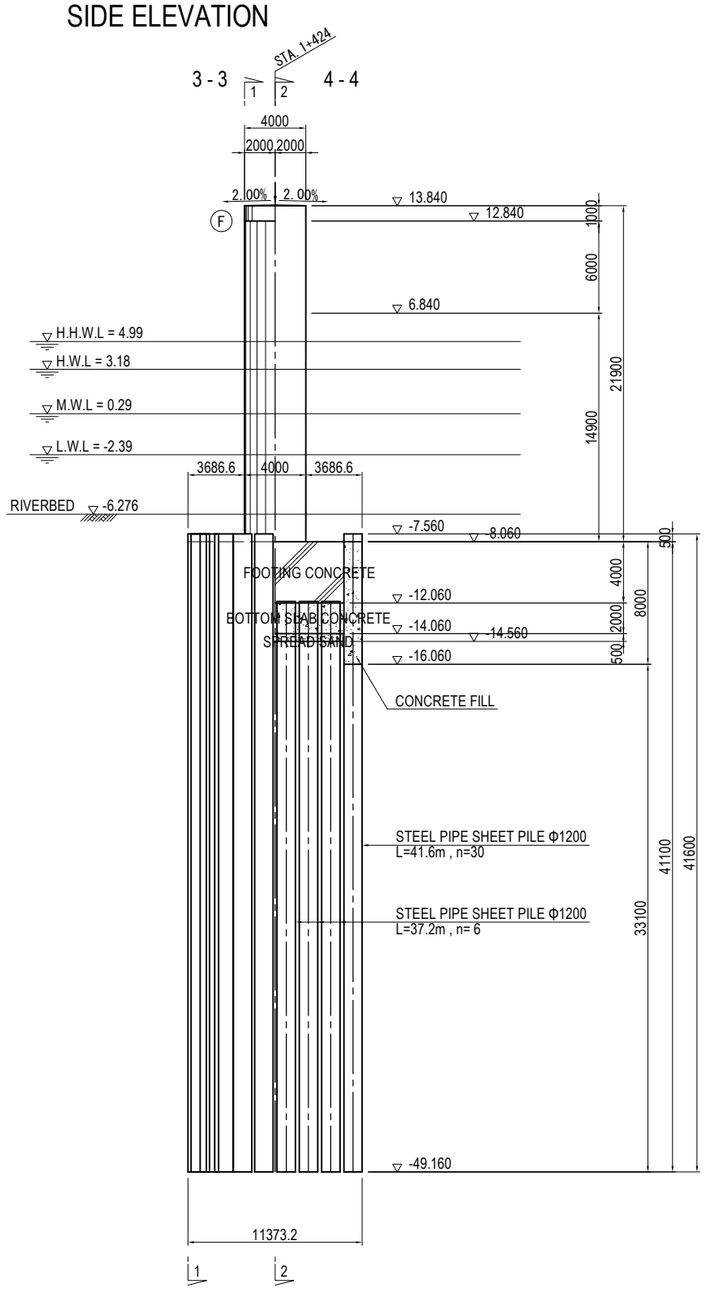
S=1:400

FRONT ELEVATION



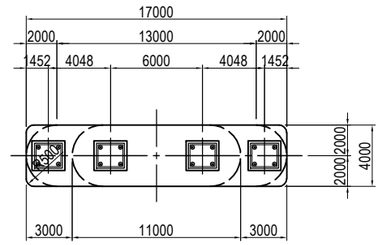


SIDE ELEVATION



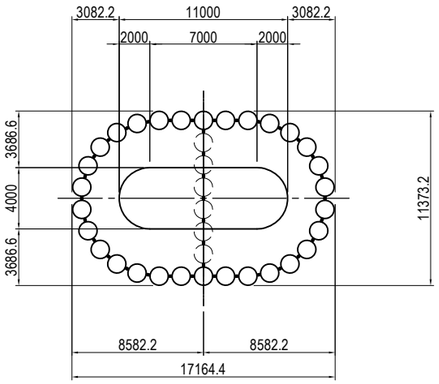
PLAN

5 - 5



PLAN

6 - 6



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm²	SD345
COLUMN	σck = 30 N/mm²	SD390, SD345
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

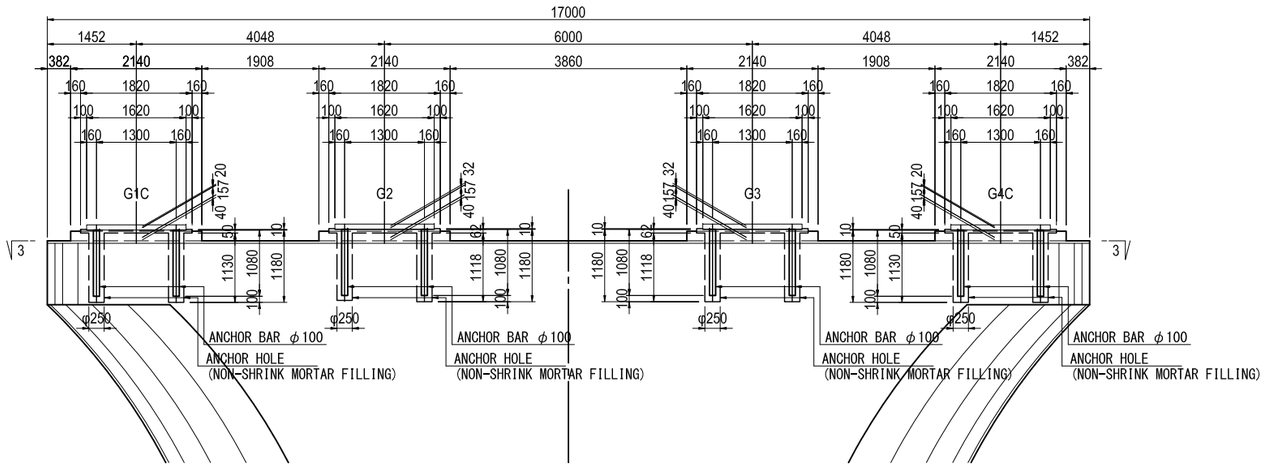
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	GENERAL VIEW OF P14 PIER(1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2001

GENERAL VIEW OF P14 PIER (2)

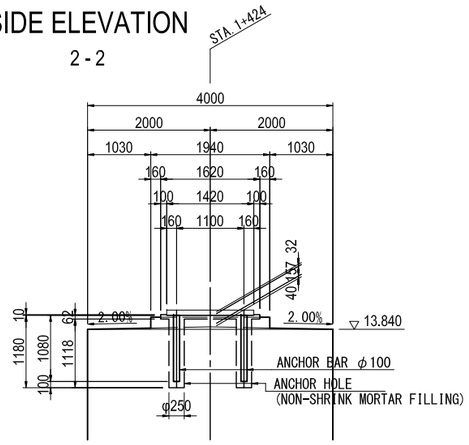
S=1:100

DETAIL OF BEARING AND ANCHOR

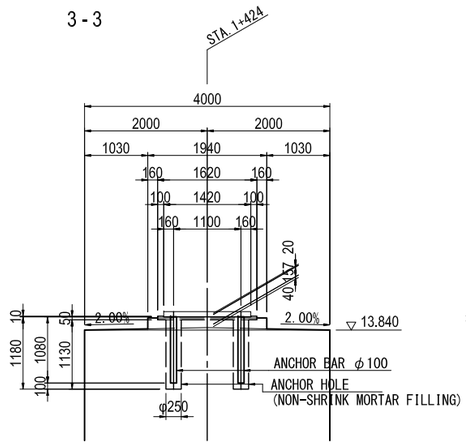
FRONT ELEVATION
1 - 1



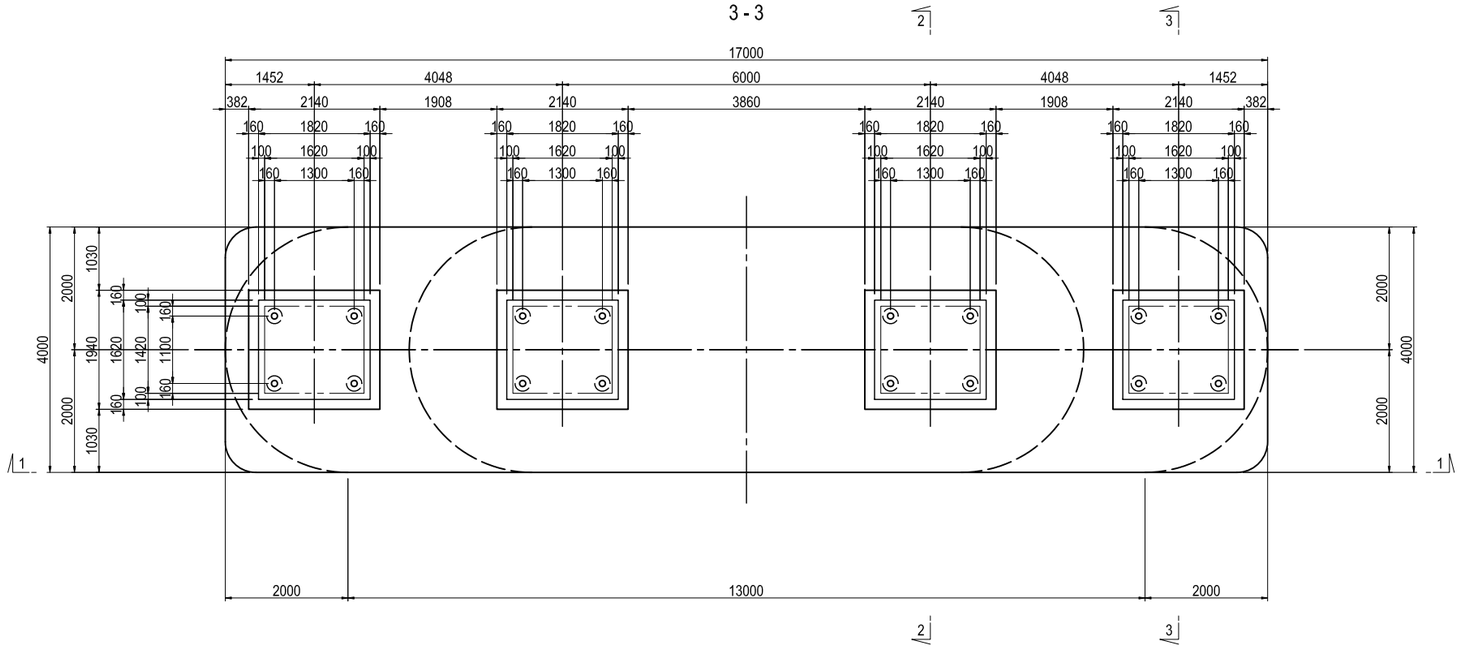
SIDE ELEVATION
2 - 2

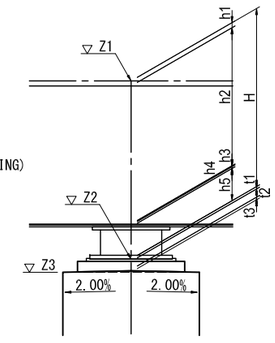


SIDE ELEVATION
3 - 3



PLAN
3 - 3





		P14 PIER			
		G1C	G2	G3	G4C
PROPOSED HEIGHT	Z1	17.297	17.378	17.378	17.297
PAVEMENT	h1	0.080	0.080	0.080	0.080
GIRDER	h2	2.709	2.790	2.790	2.709
BOTTOM FLANGE	h3	0.052	0.040	0.040	0.052
SOLE PLATE	h4	0.040	0.040	0.040	0.040
BEARING	h5	0.359	0.359	0.359	0.359
SUBTOTAL	H	3.240	3.309	3.309	3.240
ELEVATION OF BEARING BOTTOM	Z2	14.057	14.069	14.069	14.057
MORTAR	t1	0.020	0.032	0.032	0.020
BEARING BASE	t2	0.157	0.157	0.157	0.157
DRAINAGE INCLINE	t3	0.040	0.040	0.040	0.040
ELEVATION OF PIER TOP	Z3	13.840	13.840	13.840	13.840

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

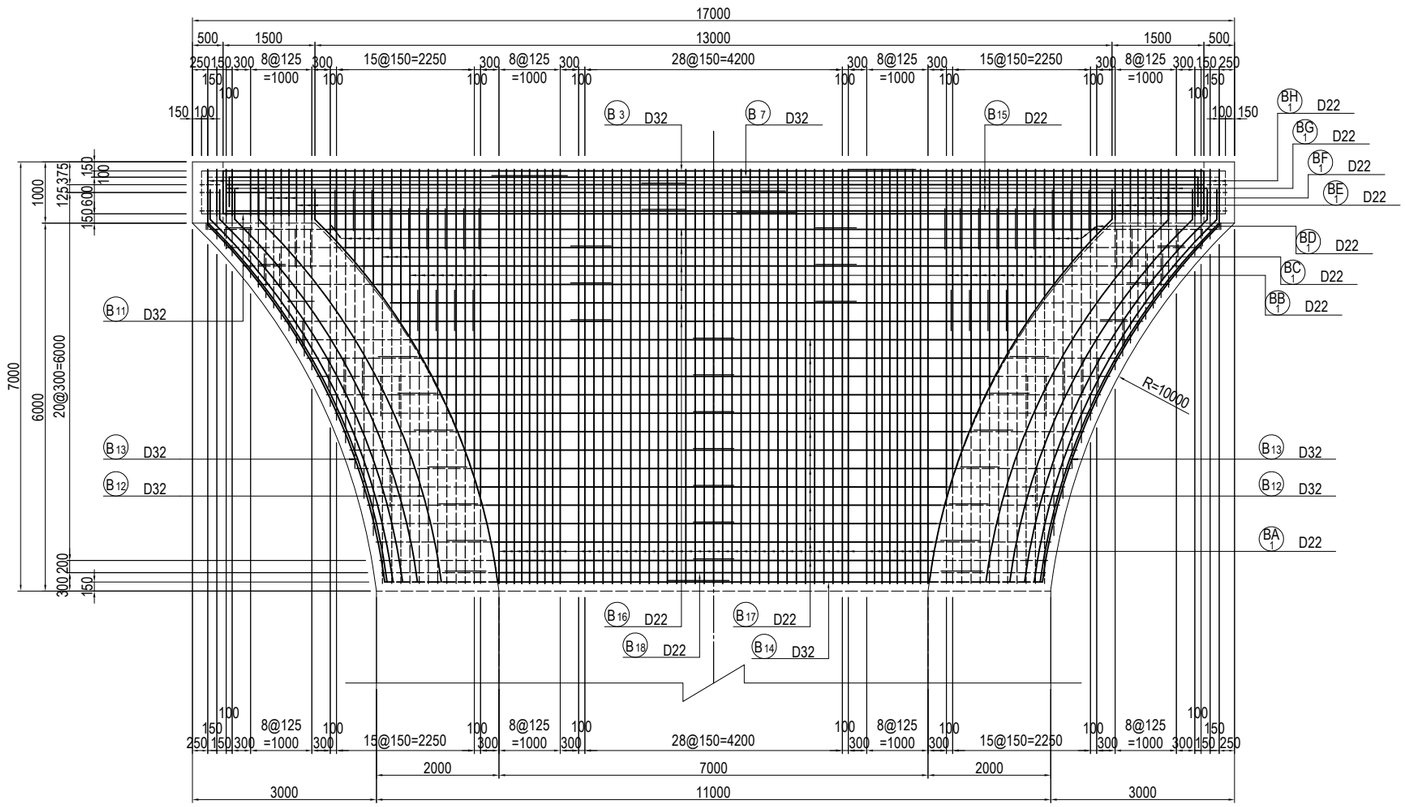
DRAWING TITLE
GENERAL VIEW OF P14 PIER(2)

PACKAGE 2
DWG No. P2-SB-2002

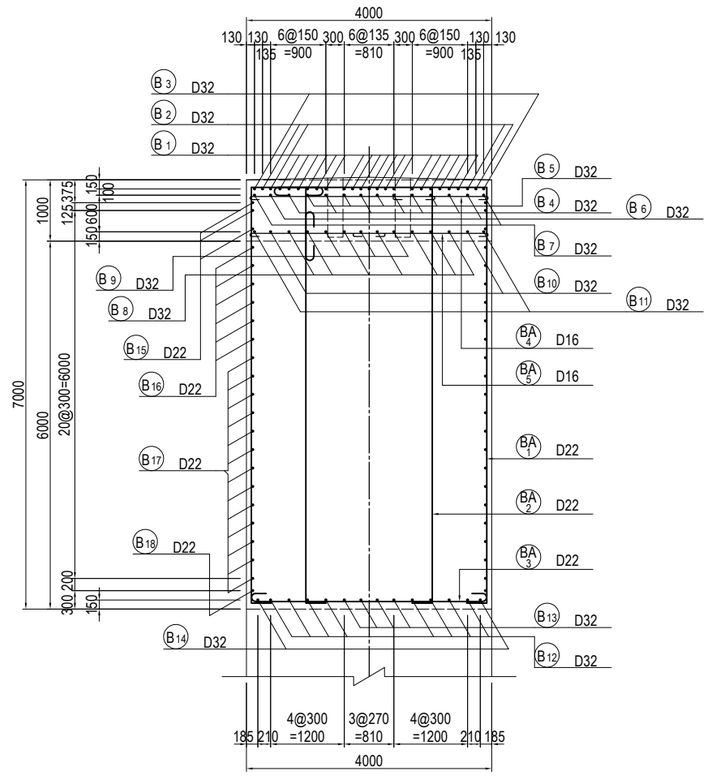
BAR ARRANGEMENT OF P14 PIER (1) S=1:100

BEAM

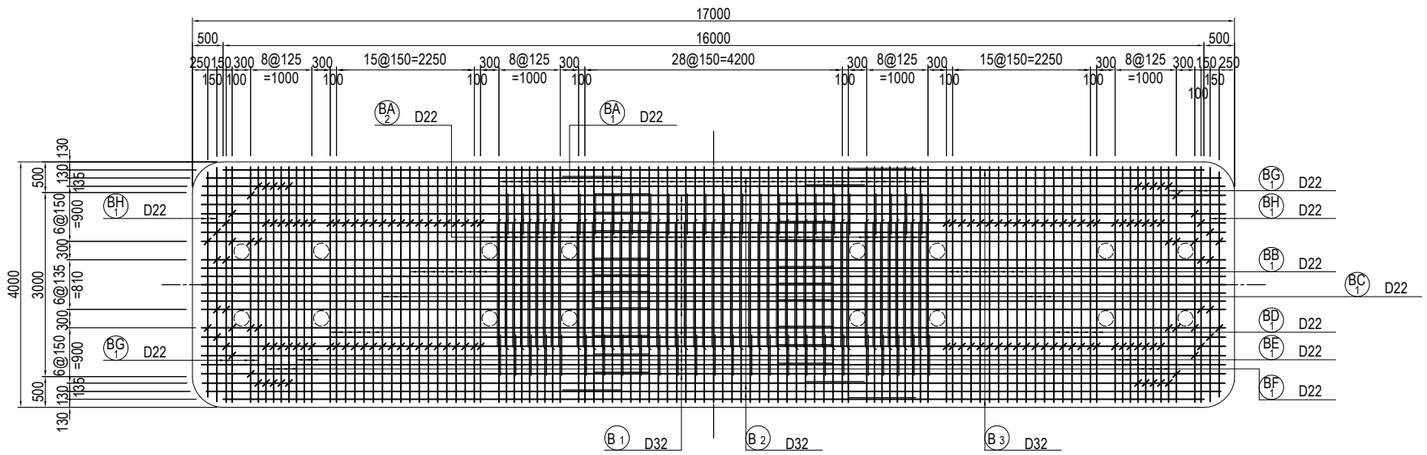
FRONT ELEVATION
1 - 1



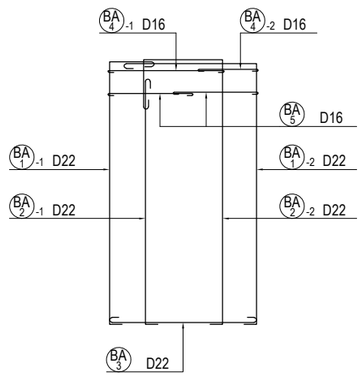
SECTION
3 - 3



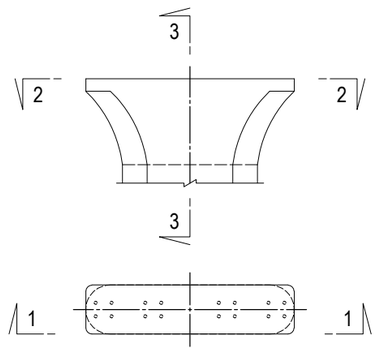
PLAN
2 - 2



ASSEMBLY DRAWING OF STIRRUP



MARKING DIAGRAM



USE MATERIALS

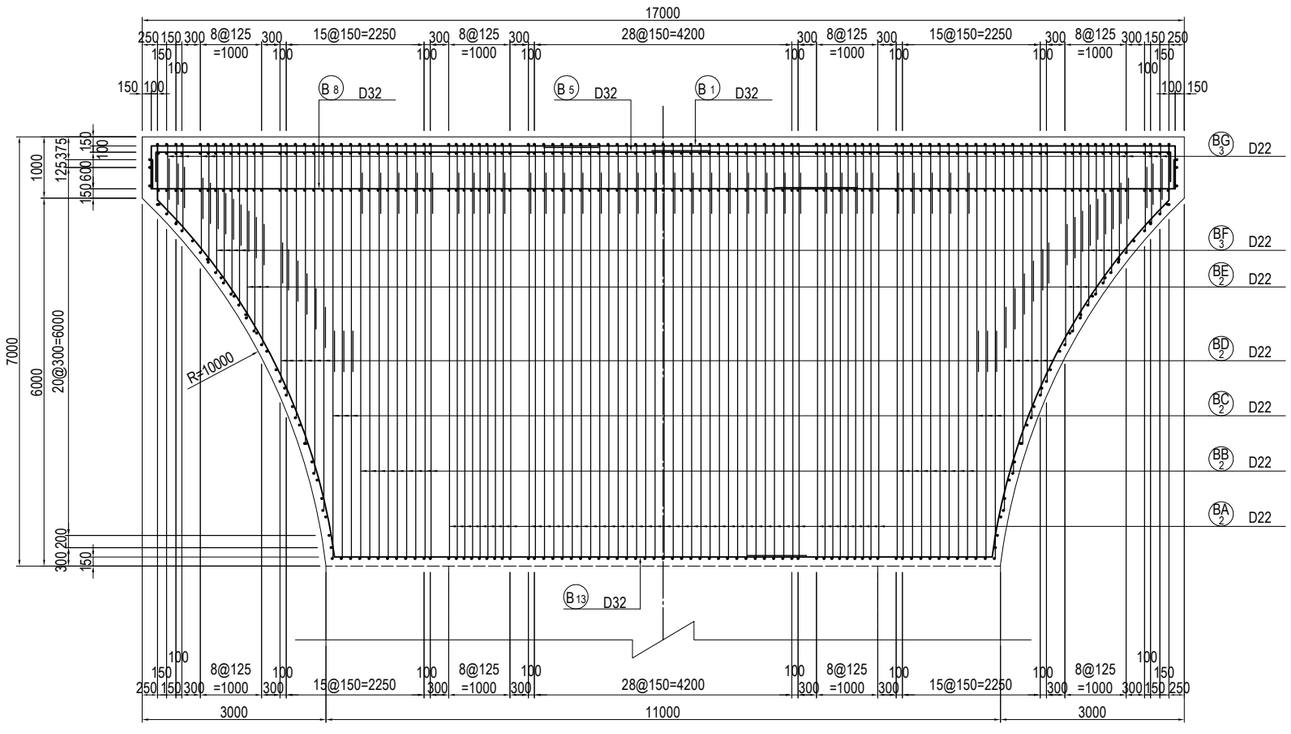
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P14 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2003

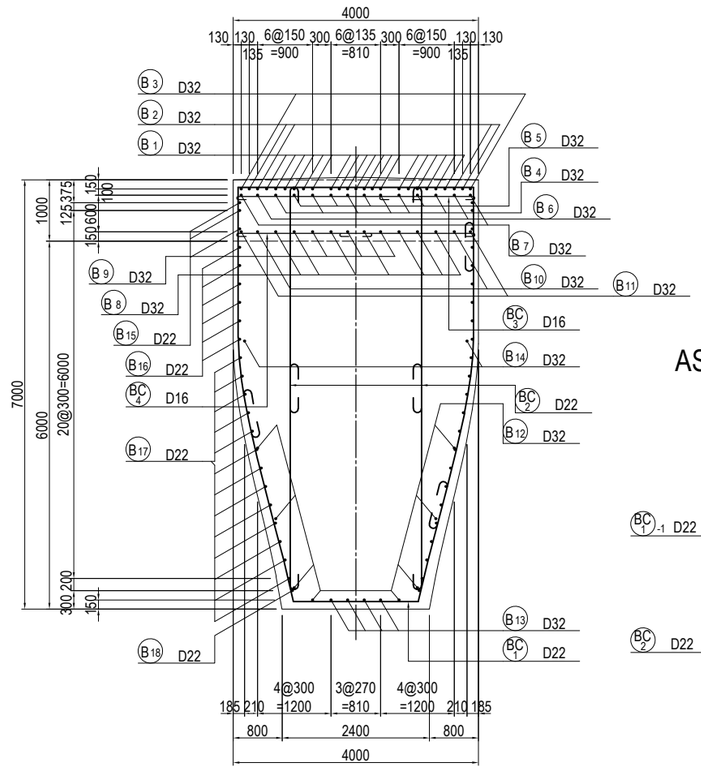
BAR ARRANGEMENT OF P14 PIER (2) S=1:100

BEAM

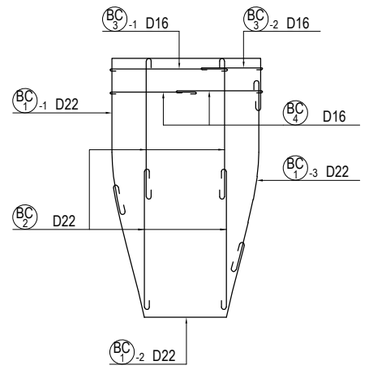
SECTION 4 - 4



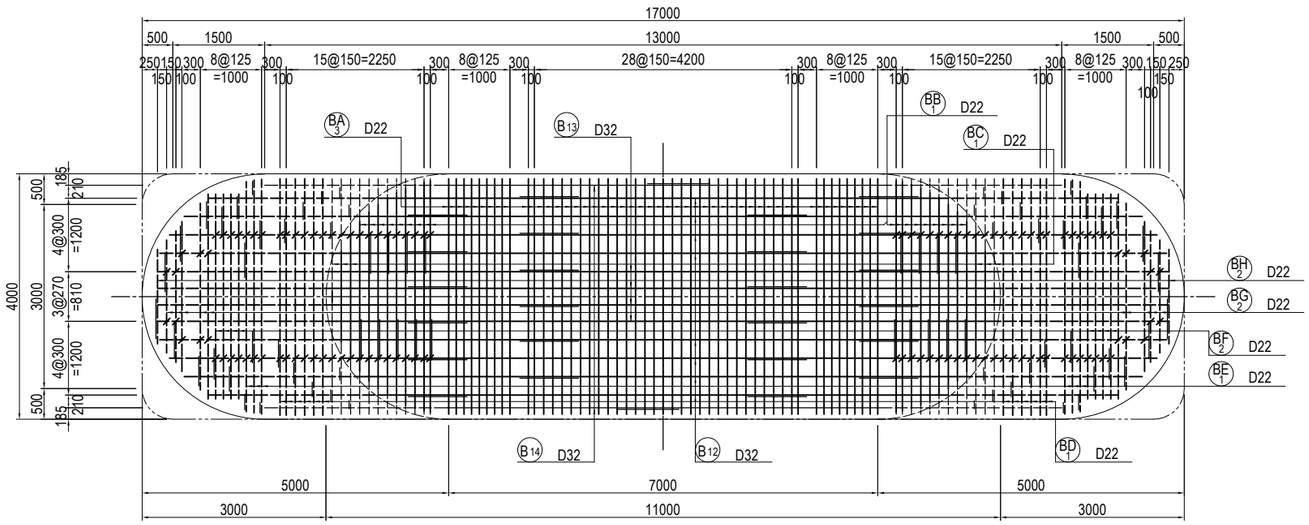
SECTION 7 - 7



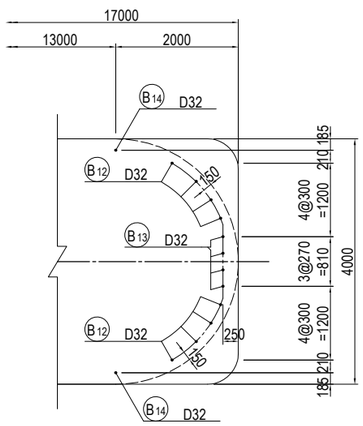
ASSEMBLY DRAWING OF STIRRUP



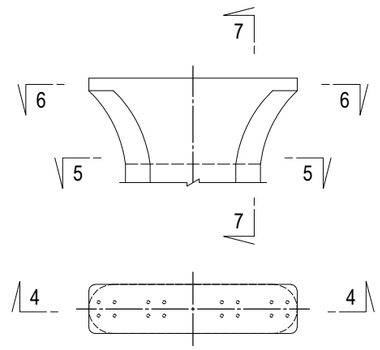
PLAN 5 - 5



PLAN 6 - 6



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

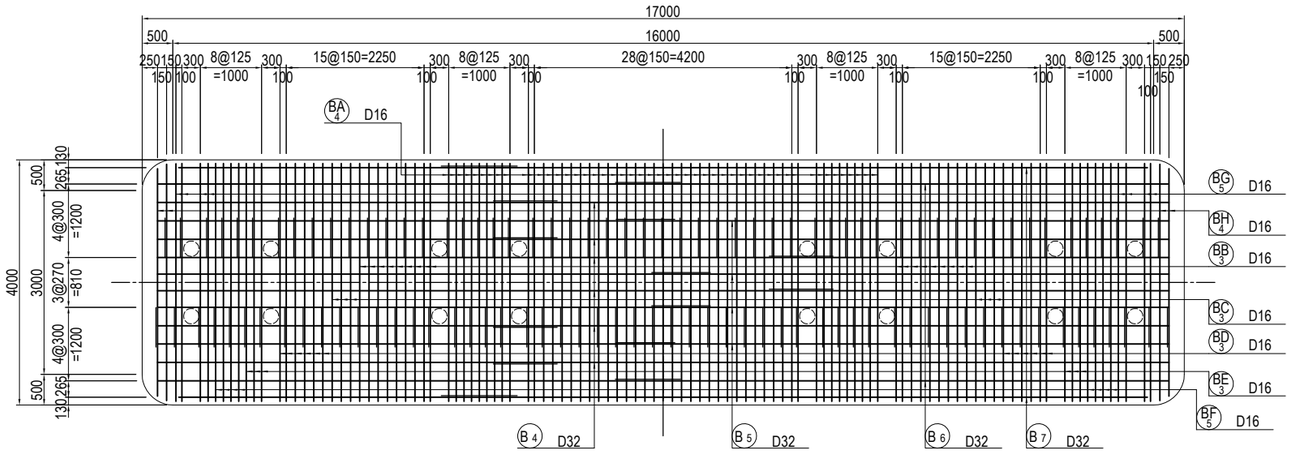
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P14 PIER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2004

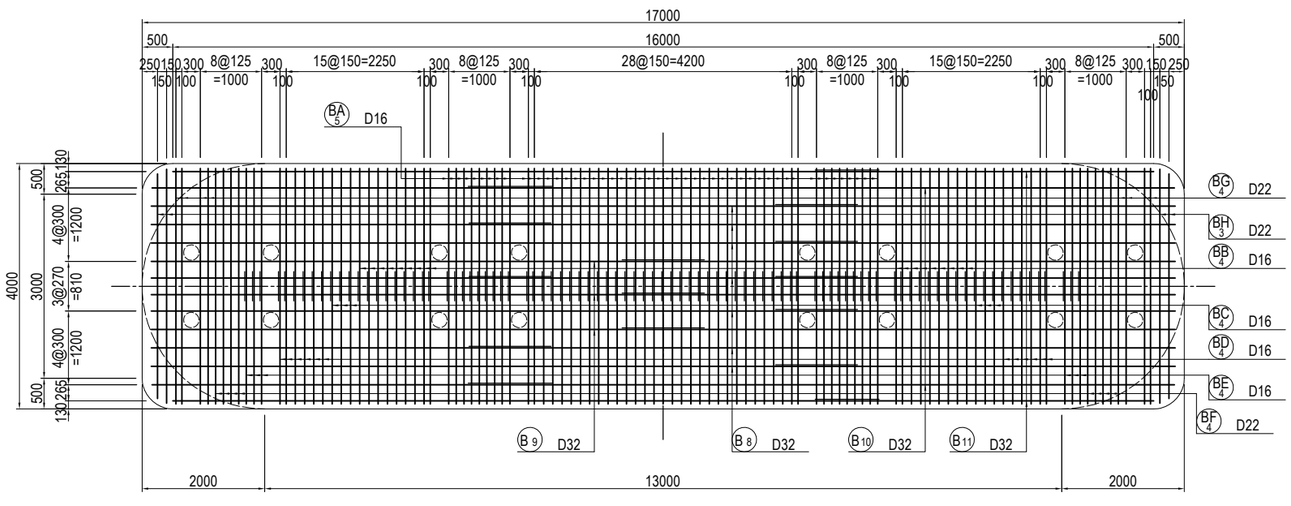
BAR ARRANGEMENT OF P14 PIER (3) S=1:100

BEAM

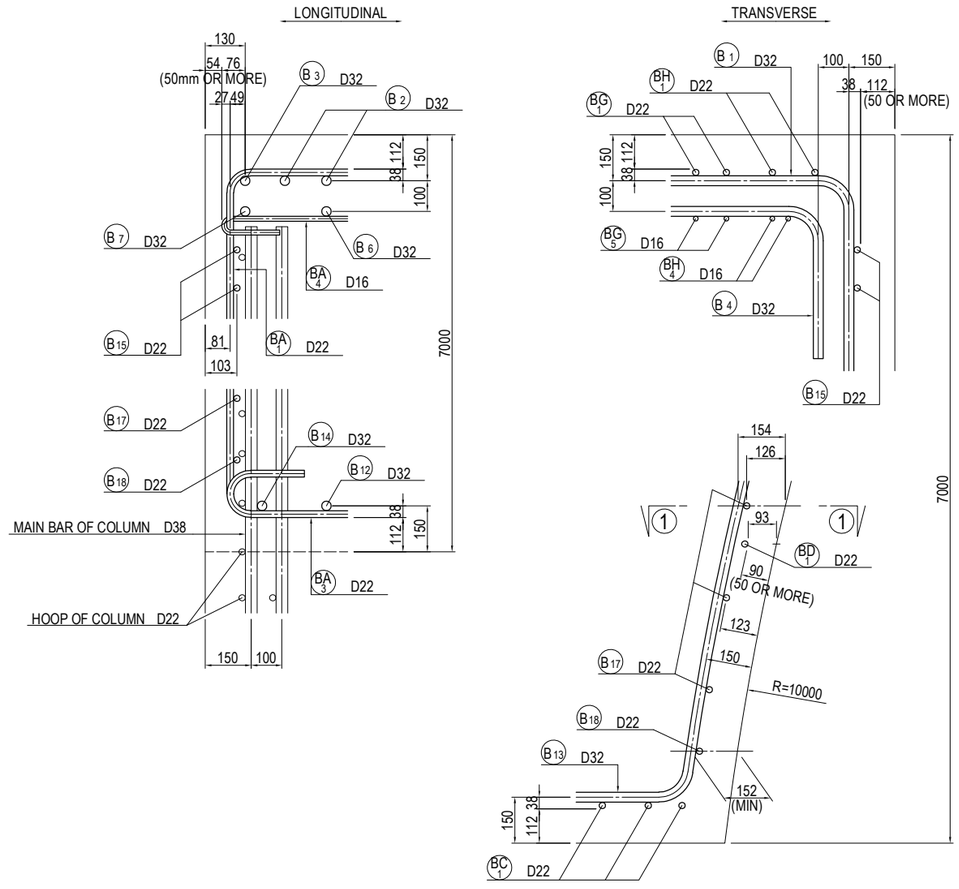
PLAN 8 - 8



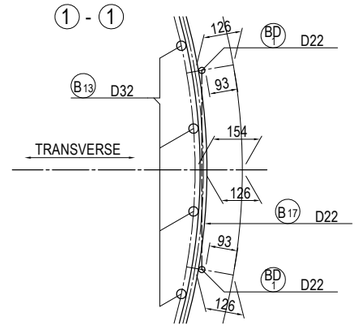
PLAN 9 - 9



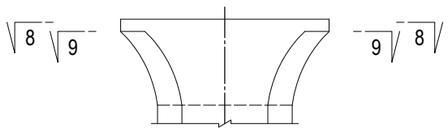
DETAIL OF BEAM S=1:20



1 - 1



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P14 PIER (3)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2005

BAR ARRANGEMENT OF P14 PIER (4) S=1:100

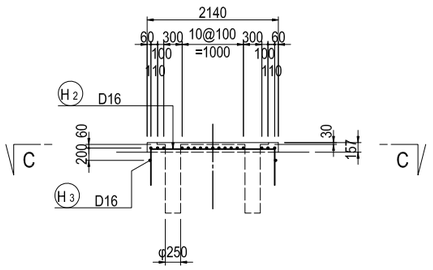
BEAM

BAR ARRANGEMENT OF BEARING BASE

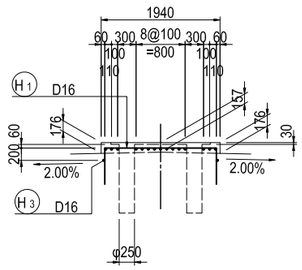
(N = 4)

SECTION

A - A

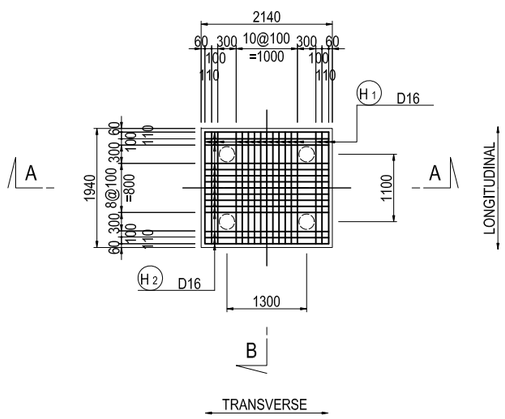


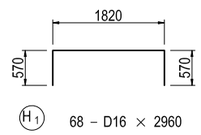
B - B



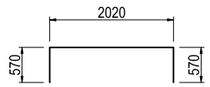
PLAN

C - C

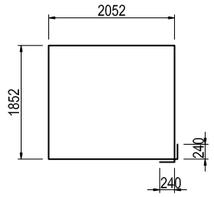




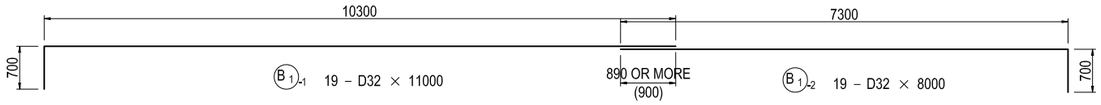
H1 68 – D16 × 2960

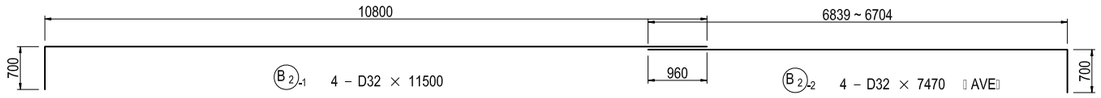


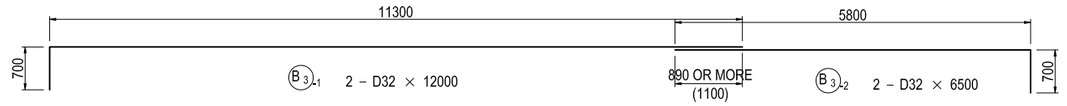
H2 60 – D16 × 3160

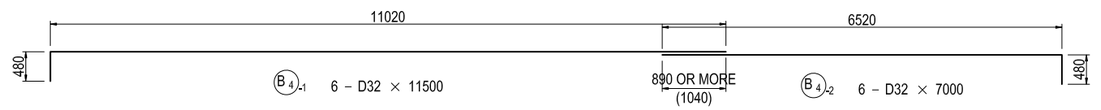


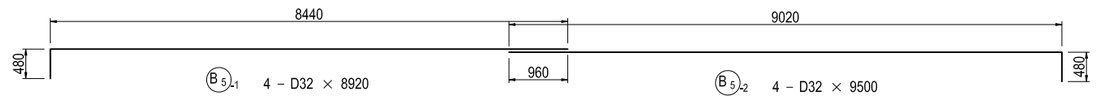
H3 4 – D16 × 8290

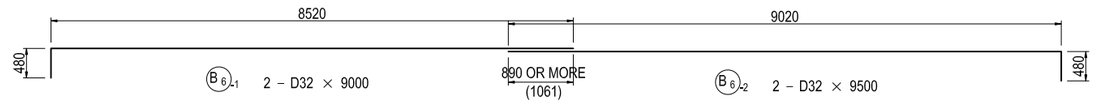


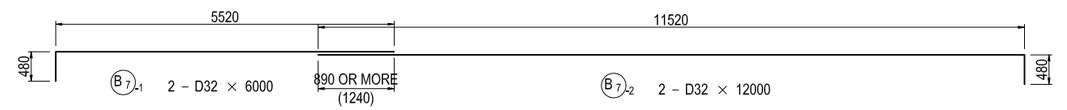












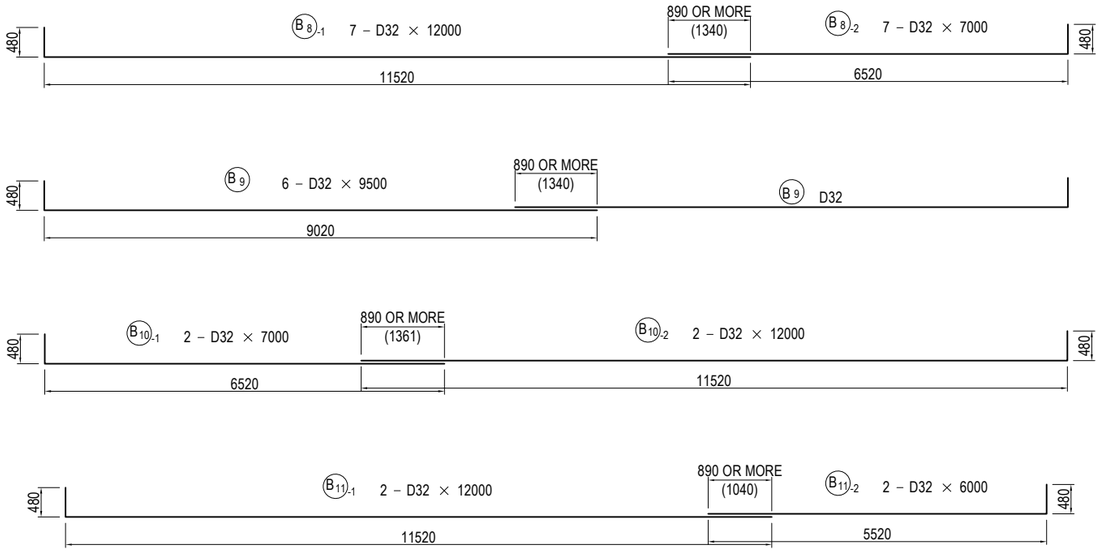
USE MATERIALS

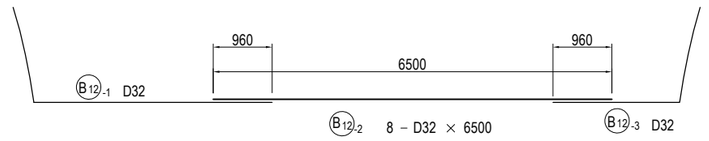
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

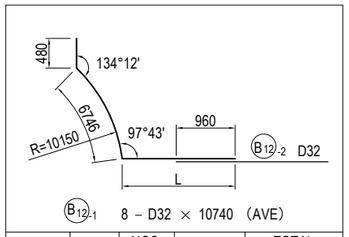
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME	SIGNATURE / DATE
				PREPARED BY	S. IMADA / 15 Jun.2017
				CHECKED BY	T. HAYAKAWA / 20 Jun.2017
				APPROVED BY	Y. SANO / 21 Jun.2017
				DRAWING TITLE	BAR ARRANGEMENT OF P14 PIER (4)
				PACKAGE	2
				DWG No.	P2-SB-2006

BAR ARRANGEMENT OF P14 PIER (5) S=1:100

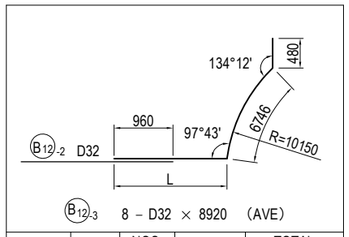
BEAM



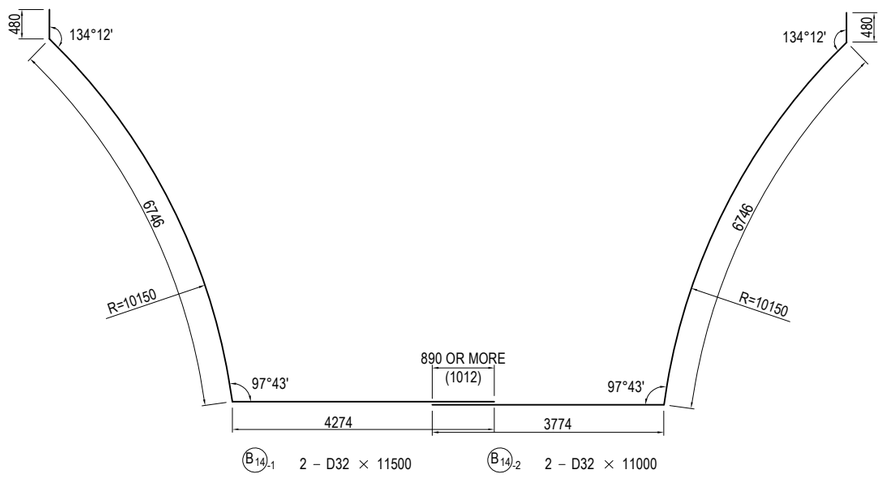


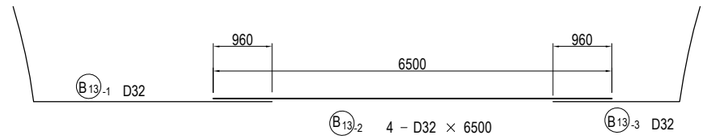


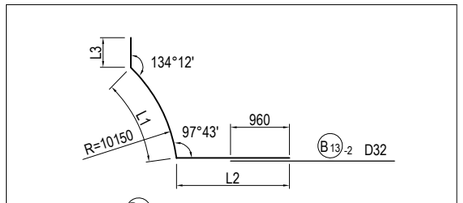
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B12 -1 1	D32	2	3058	10284
2	"	2	3449	10675
3	"	2	3691	10917
4	"	2	3848	11074
AVE		8		10738



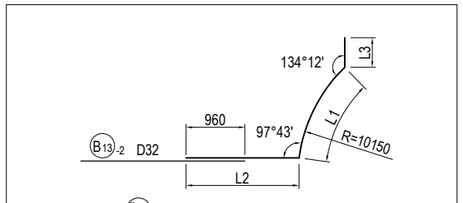
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B12 -3 1	D32	2	1238	8464
2	"	2	1629	8855
3	"	2	1871	9097
4	"	2	2028	9254
AVE		8		8918







MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
B13 -1 1	D32	2	6669	3943	840	11452
2	"	2	6613	3983	880	11476
AVE		4				11464



MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
B13 -3 1	D32	2	6669	2123	840	9632
2	"	2	6613	2163	880	9656
AVE		4				9644

USE MATERIALS

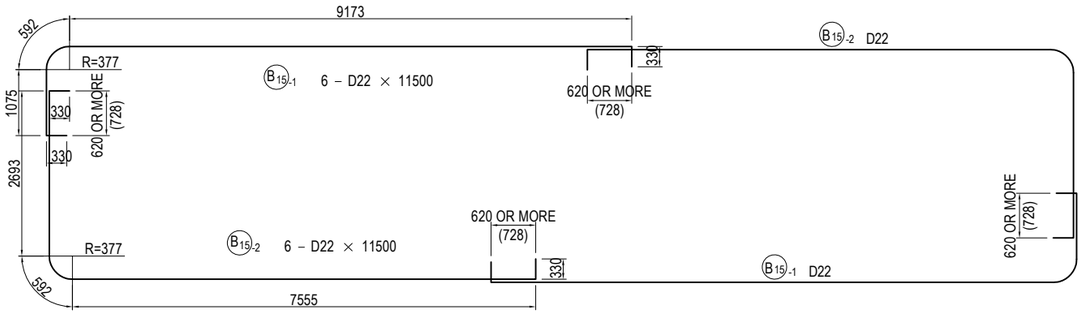
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

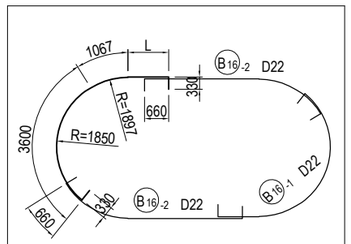
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P14 PIER (5)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2007

BAR ARRANGEMENT OF P14 PIER (6) S=1:100

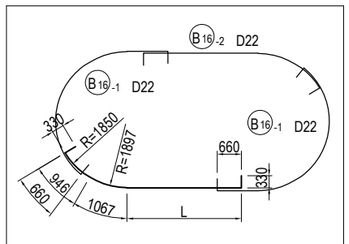
BEAM





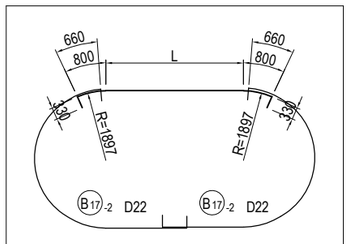
B16-1 12 – D22 × 9300 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-1 1	D22	2	4612	9939
2	"	2	4328	9655
3	"	2	4065	9392
4	"	2	3823	9150
5	"	2	3598	8925
6	"	2	3391	8718
AVE		12		9297



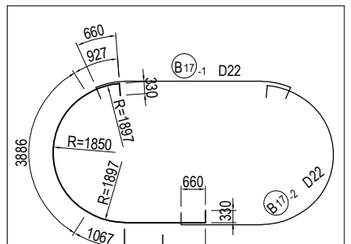
B16-2 12 – D22 × 10640 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-2 1	D22	2	8612	11285
2	"	2	8328	11001
3	"	2	8065	10738
4	"	2	7823	10496
5	"	2	7598	10271
6	"	2	7391	10064
AVE		12		10643



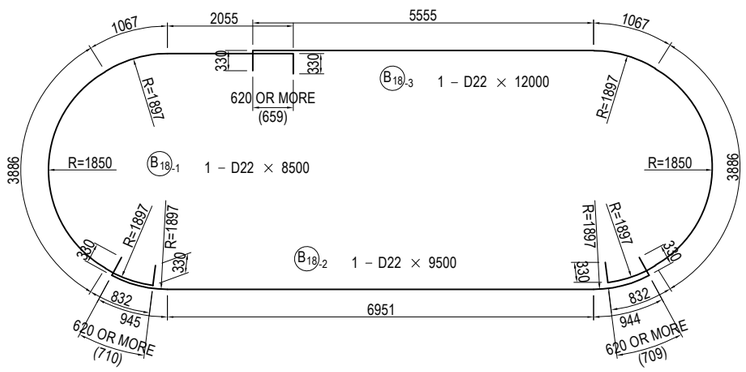
B17-1 13 – D22 × 10400 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B17-1 1	D22	1	9737	11997
2	"	1	9381	11641
3	"	1	9052	11312
4	"	1	8749	11009
5	"	1	8470	10730
6	"	1	8215	10475
7	"	1	7982	10242
8	"	1	7771	10031
9	"	1	7580	9840
10	"	1	7410	9670
11	"	1	7260	9520
12	"	1	7128	9388
13	"	1	7016	9276
AVE		13		10395



B17-2 26 – D22 × 10940 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B17-2 1	D22	2	5198	11738
2	"	2	5020	11560
3	"	2	4856	11396
4	"	2	4705	11245
5	"	2	4565	11105
6	"	2	4438	10978
7	"	2	4321	10861
8	"	2	4215	10755
9	"	2	4120	10660
10	"	2	4035	10575
11	"	2	3960	10500
12	"	2	3894	10434
13	"	2	3838	10378
AVE		26		10937



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

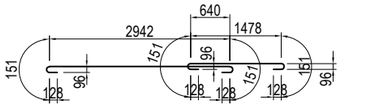
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

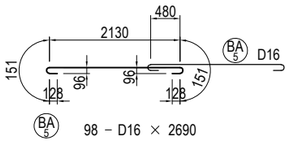
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P14 PIER (6)	2
	DWG No.
	P2-SB-2008

BAR ARRANGEMENT OF P14 PIER (7) S=1:100

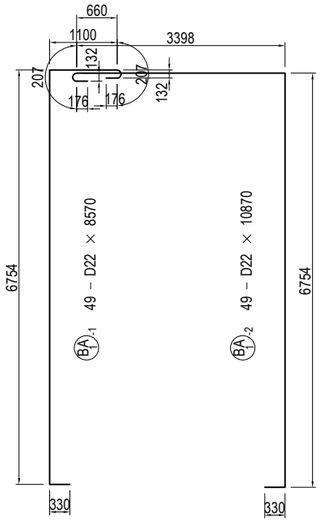
BEAM

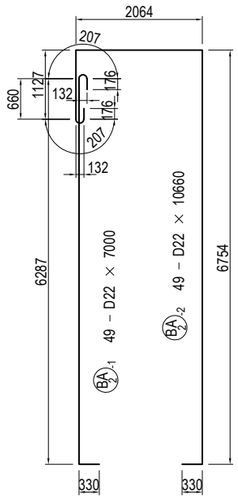


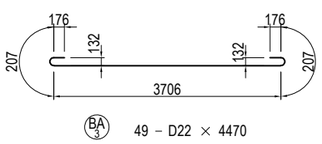
BA4-1 49 – D16 × 3500 BA4-2 49 – D16 × 2040



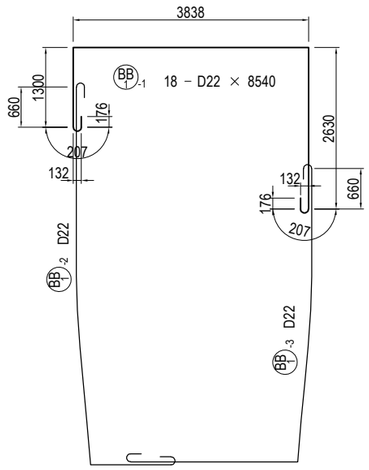
BA5 98 – D16 × 2690

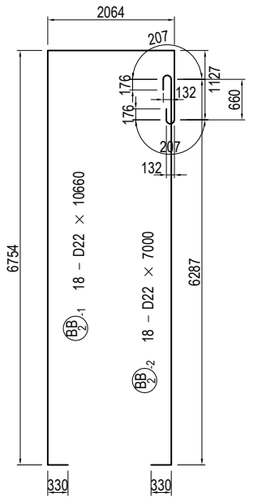


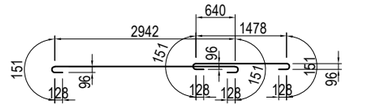




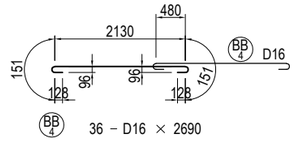
BA3 49 – D22 × 4470



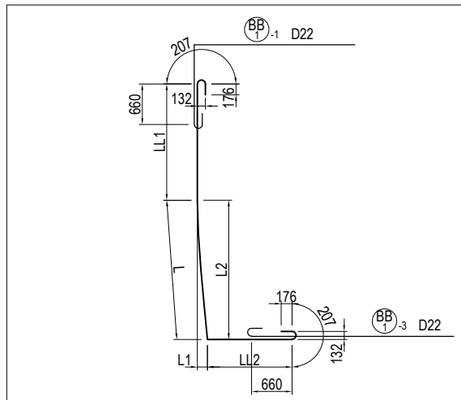




BB3-1 18 – D16 × 3500 BB3-2 18 – D16 × 2040

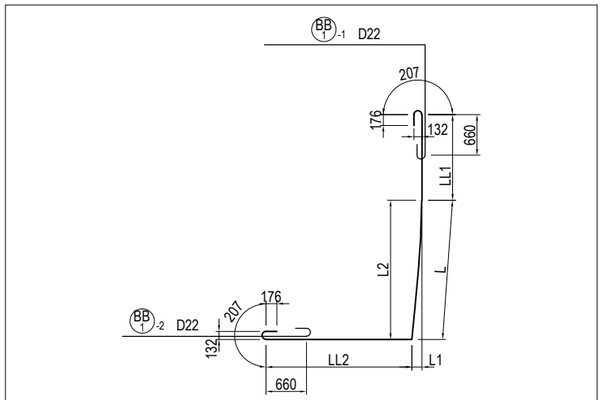


BB4 36 – D16 × 2690



BB1-2 18 – D22 × 8160 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL1	LENGTH LL2	TOTAL LENGTH ΣL
BB1-2 1	D22	2	1464	33	1464	4650	1511	8391
2	"	2	1892	54	1891	4223	1490	8371
3	"	2	2282	97	2280	3834	1447	8329
4	"	2	2606	155	2601	3513	1389	8274
5	"	2	3029	227	3020	3094	1317	8206
6	"	2	3241	315	3225	2889	1229	8125
7	"	2	3607	416	3580	2534	1128	8035
8	"	2	3827	541	3785	2329	1003	7925
9	"	2	4115	698	4051	2063	846	7790
AVE		18						8161



BB1-3 18 – D22 × 8240 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL1	LENGTH LL2	TOTAL LENGTH ΣL
BB1-3 1	D22	2	1464	33	1464	3320	2921	8471
2	"	2	1892	54	1891	2893	2900	8451
3	"	2	2282	97	2280	2504	2857	8409
4	"	2	2606	155	2601	2183	2799	8354
5	"	2	3029	227	3020	1764	2727	8286
6	"	2	3241	315	3225	1559	2639	8205
7	"	2	3607	416	3580	1204	2538	8115
8	"	2	3827	541	3785	999	2413	8005
9	"	2	4115	698	4051	733	2256	7870
AVE		18						8241

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME
DETAILED DESIGN ON
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METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

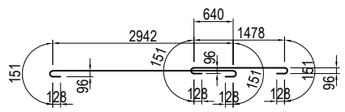
DRAWING TITLE: BAR ARRANGEMENT OF P14 PIER (7)

PACKAGE: 2

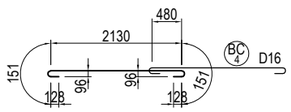
DWG No.: P2-SB-2009

BAR ARRANGEMENT OF P14 PIER (8) S=1:100

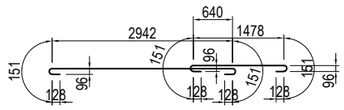
BEAM



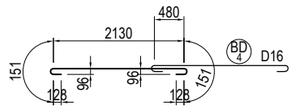
(BC3)-1 6 – D16 × 3500 (BC3)-2 6 – D16 × 2040



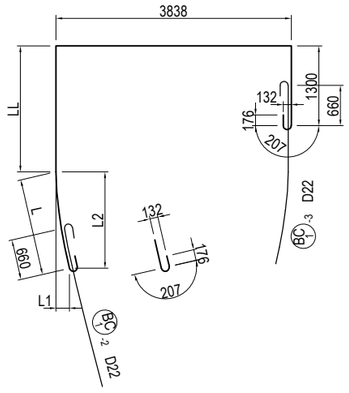
(BC4) 12 – D16 × 2690



(BD3)-1 12 – D16 × 3500 (BD3)-2 12 – D16 × 2040

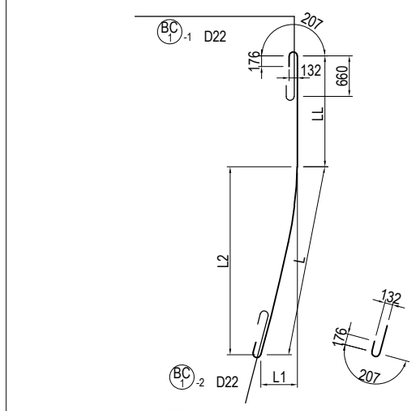


(BD4) 24 – D16 × 2690



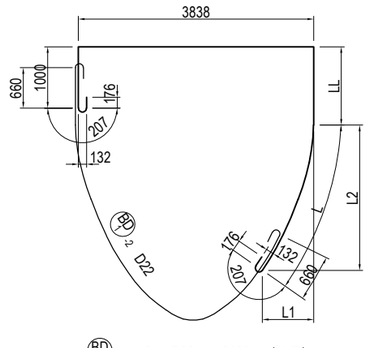
(BC1)-1 6 – D22 × 9950 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BC1-1 1	D22	2	1591	219	1573	2451	9946
2	"	2	1871	304	1837	2177	9952
3	"	2	2008	400	1961	2049	9961
AVE		6					9953



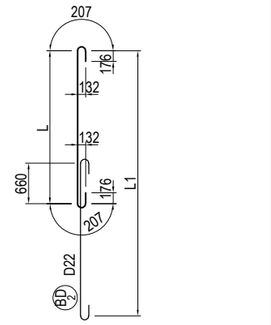
(BC1)-3 6 – D22 × 5730 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BC1-3 1	D22	2	3129	594	3064	1811	5706
2	"	2	3426	761	3327	1537	5729
3	"	2	3591	975	3434	1409	5766
AVE		6					5734



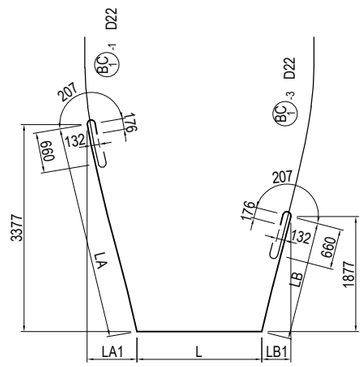
(BD1)-1 12 – D22 × 9420 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BD1-1 1	D22	2	1907	407	1855	1851	9362
2	"	2	2150	524	2071	1623	9377
3	"	2	2289	665	2171	1503	9396
4	"	2	2544	836	2369	1277	9425
5	"	2	2697	1045	2436	1167	9468
6	"	2	2879	1218	2528	1027	9510
AVE		12					9423



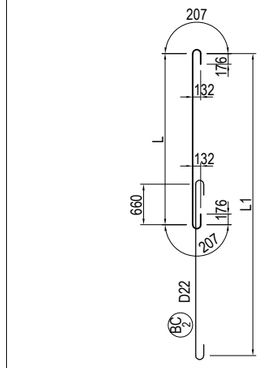
(BD2) 24 – D22 × 2980 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BD2 1	D22	4	2645	4630	3411
2	"	4	2445	4229	3211
3	"	4	2266	3872	3032
4	"	4	2105	3549	2871
5	"	4	1957	3253	2723
6	"	4	1864	3068	2630
AVE		24			2980



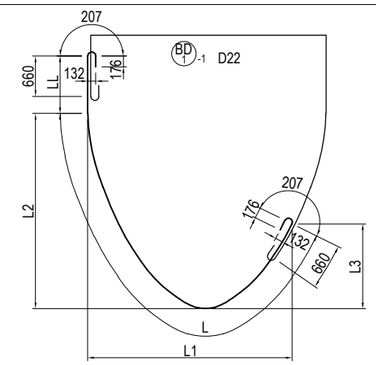
(BC1)-2 6 – D22 × 7630 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LB	LENGTH LB1	LENGTH L	TOTAL LENGTH ΣL
BC1-2 1	D22	2	3474	811	1936	474	2038	8214
2	"	2	3536	1043	1981	760	1465	7748
3	"	2	3791	1621	2209	1120	171	6937
AVE		6						7633



(BC2) 12 – D22 × 3960 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BC2 1	D22	4	3543	6425	4309
2	"	4	3159	5657	3925
3	"	4	2877	5093	3643
AVE		12			3959



(BD1)-2 12 – D22 × 8250 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BD1-2 1	D22	2	8159	3633	4120	2894	1511	10436
2	"	2	7303	3548	3741	2287	1283	9352
3	"	2	6546	3453	3373	1799	1163	8475
4	"	2	5999	3336	3183	1383	937	7702
5	"	2	5399	3189	2925	1015	827	6992
6	"	2	5104	3072	2841	791	687	6557
AVE		12						8252

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

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METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

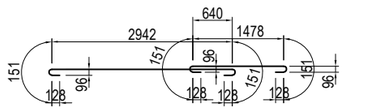
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE: BAR ARRANGEMENT OF P14 PIER (8)

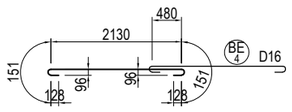
PACKAGE: 2
DWG No.: P2-SB-2010

BAR ARRANGEMENT OF P14 PIER (9) S=1:100

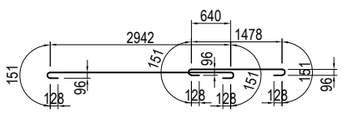
BEAM



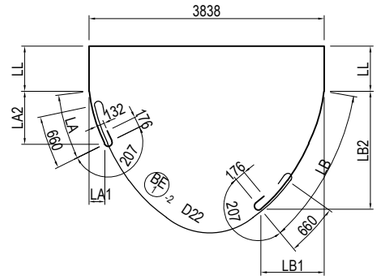
BE3-1 6 – D16 × 3500 BE3-2 6 – D16 × 2040



BE4 12 – D16 × 2690

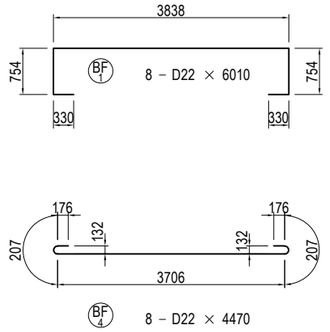


BF5-1 8 – D16 × 3500 BF5-2 8 – D16 × 2040

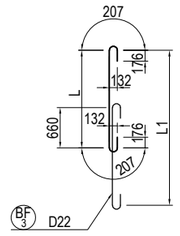


BF1-1 6 – D22 × 9620 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LA2	LENGTH LB	LENGTH LB1	LENGTH LB2	LENGTH LL	TOTAL LENGTH ΣL
BE1-1 1	D22	2	820	196	793	2475	1141	2129	818	9535
2	"	2	905	257	863	2624	1351	2154	736	9605
3	"	2	970	325	906	2780	1612	2117	679	9712
AVE		6								9617

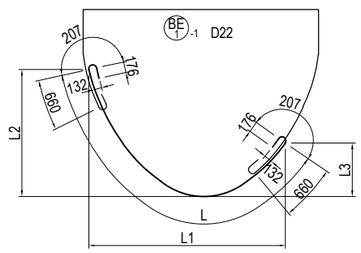


BF4 8 – D22 × 4470



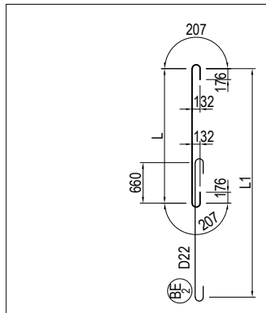
BF3 16 – D22 × 1980 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BF3 1	D22	4	1335	2009	2101
2	"	4	1251	1841	2017
3	"	4	1170	1680	1936
4	"	4	1093	1526	1859
AVE		16			1978



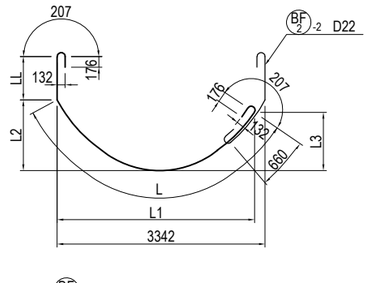
BE1-2 6 – D22 × 4990 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
BE1-2 1	D22	2	4693	3139	2292	792	5459
2	"	2	4230	2959	2069	569	4996
3	"	2	3755	2725	1858	358	4521
AVE		6					4992



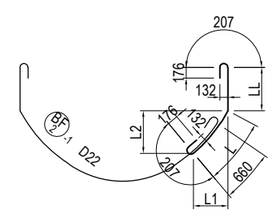
BE2 12 – D22 × 2280 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BE2 1	D22	4	1611	2561	2377
2	"	4	1514	2368	2280
3	"	4	1423	2185	2189
AVE		12			2282



BF2-1 8 – D22 × 5850 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BF2-1 1	D22	2	4397	3300	1340	1258	1228	6391
2	"	2	4172	3218	1287	1068	1092	6030
3	"	2	3933	3126	1233	887	964	5663
4	"	2	3721	3016	1196	713	829	5316
AVE		8						5850



BF2-2 8 – D22 × 2790 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BF2-2 1	D22	2	753	407	631	1228	2747
2	"	2	912	530	737	1092	2770
3	"	2	1069	665	828	964	2799
4	"	2	1243	821	914	829	2838
AVE		8					2789

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME
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	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

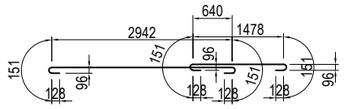
DRAWING TITLE: BAR ARRANGEMENT OF P14 PIER (9)

PACKAGE: 2

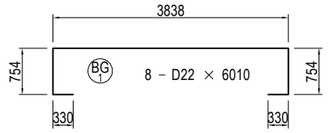
DWG No. P2-SB-2011

BAR ARRANGEMENT OF P14 PIER (10) S=1:100

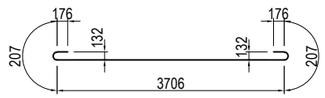
BEAM



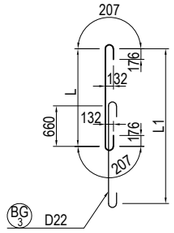
BG5-1 8 – D16 × 3500 BG5-2 8 – D16 × 2040



BG1 8 – D22 × 6010

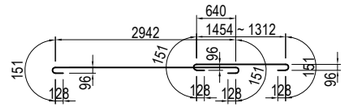


BG4 8 – D22 × 4470



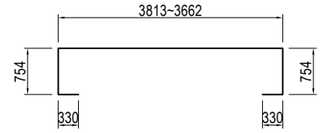
BG3 20 – D22 × 1700 (AVE)

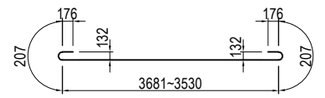
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BG3 1	D22	4	1113	1565	1879
2	"	4	1038	1415	1804
3	"	4	869	1077	1635
4	"	4	866	1071	1632
5	"	4	787	914	1553
AVE		20			1701



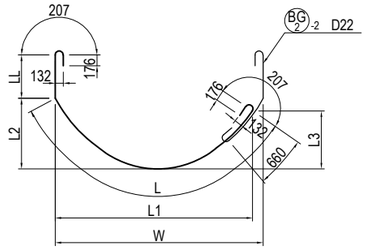
BH4-1 4 – D16 × 3500 BH4-2 4 – D16 × 1940 (AVE)

BH1 4 – D22 × 5910 (AVE)



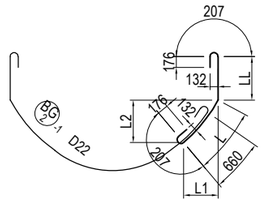


BH3 4 – D22 × 4370 (AVE)



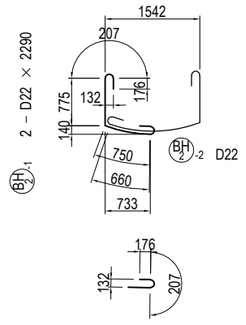
BG2-1 10 – D22 × 4390 (AVE)

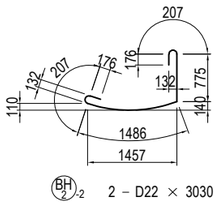
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH W	LENGTH LL	TOTAL LENGTH ΣL
BG2-1 1	D22	2	4015	3220	1151	948	3342	707	5488
2	"	2	3528	2977	876	789	3042	824	5118
3	"	2	2594	2371	491	432	2442	852	4212
4	"	2	2227	2077	369	321	2142	863	3856
5	"	2	1715	1639	271	159	1842	799	3280
AVE		10							4391



BG2-2 10 – D22 × 2390 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BG2-2 1	D22	2	898	561	694	707	2371
2	"	2	769	545	536	824	2359
3	"	2	752	645	379	852	2370
4	"	2	740	662	320	863	2369
5	"	2	892	840	269	799	2457
AVE		10					2385





BH2-2 2 – D22 × 3030

USE MATERIALS

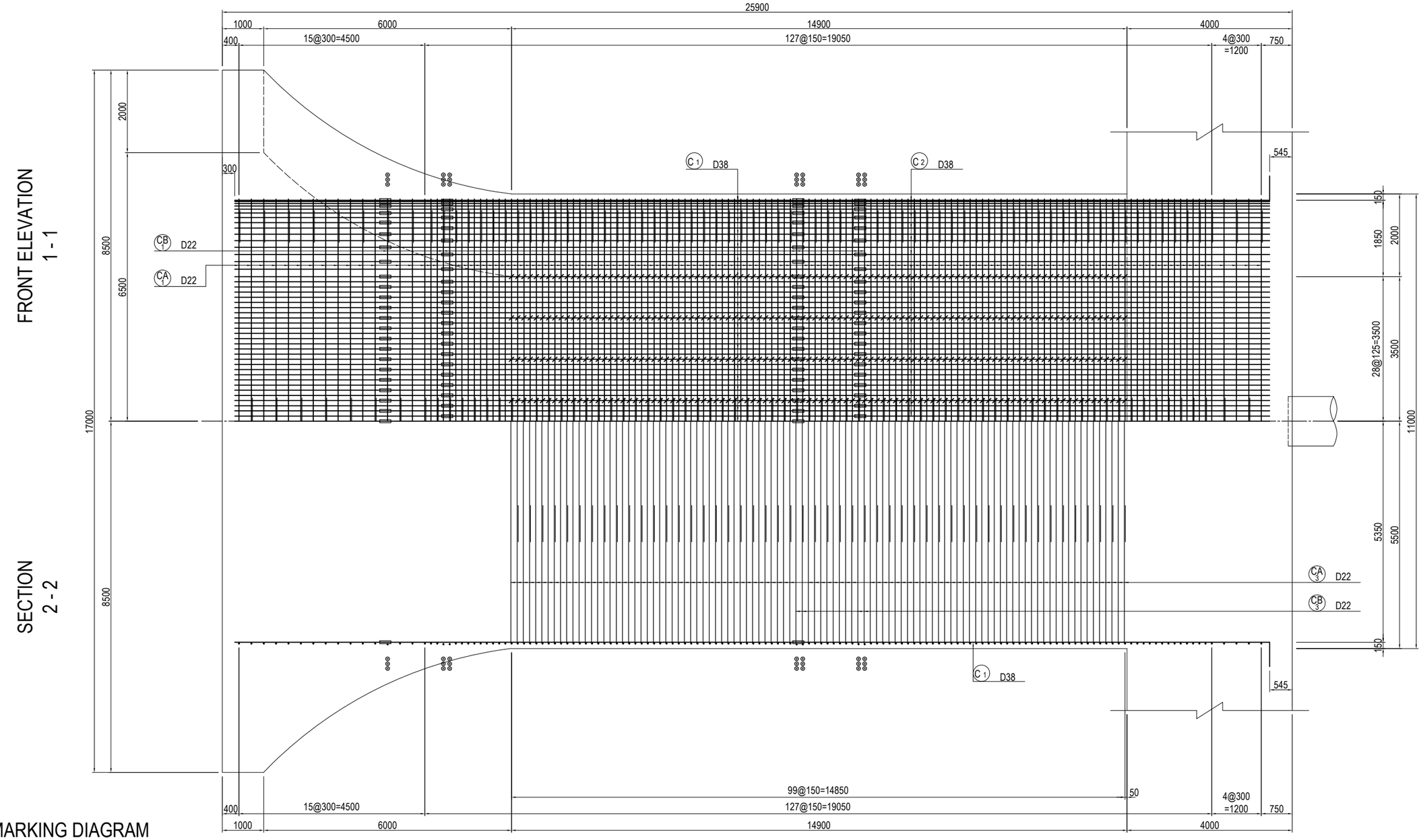
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P14 PIER (10)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2012

BAR ARRANGEMENT OF P14 PIER (11) S=1:100

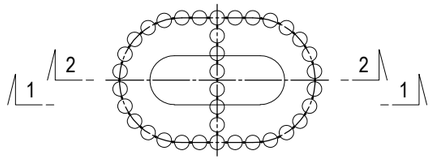
COLUMN

FRONT ELEVATION
1 - 1



SECTION
2 - 2

MARKING DIAGRAM



Notes) 1. ⊙⊙⊙ : This mark indicates hoop arranged in the location of mechanical joint.
2. —▭— : This mark indicates a mechanical joint.

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

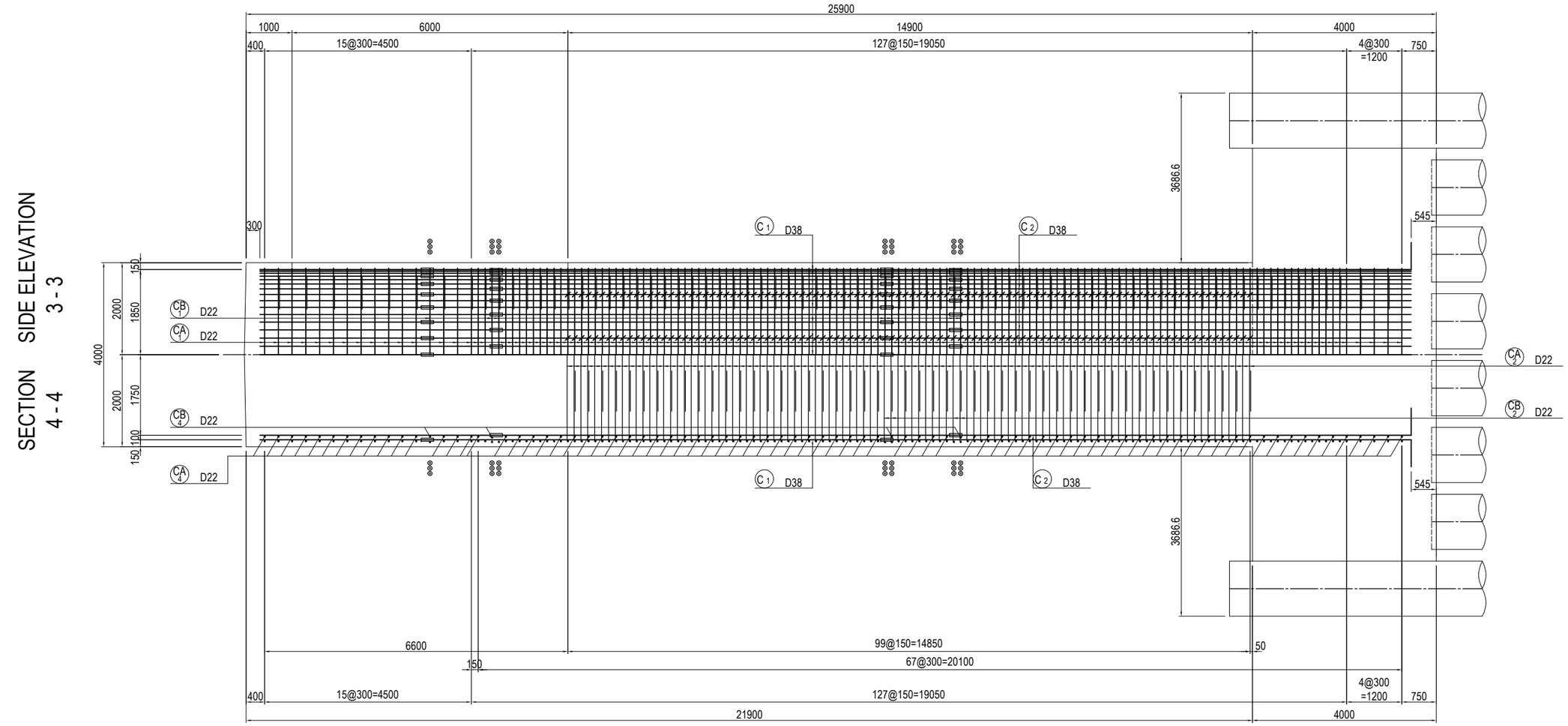
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P14 PIER (11)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2013

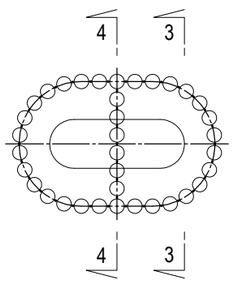
BAR ARRANGEMENT OF P14 PIER (12) S=1:100

COLUMN

SECTION 4 - 4 SIDE ELEVATION 3 - 3



MARKING DIAGRAM



Notes) 1. ⊚⊚⊚ : This mark indicates hoop arranged in the location of mechanical joint.
2. —▭— : This mark indicates a mechanical joint.

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

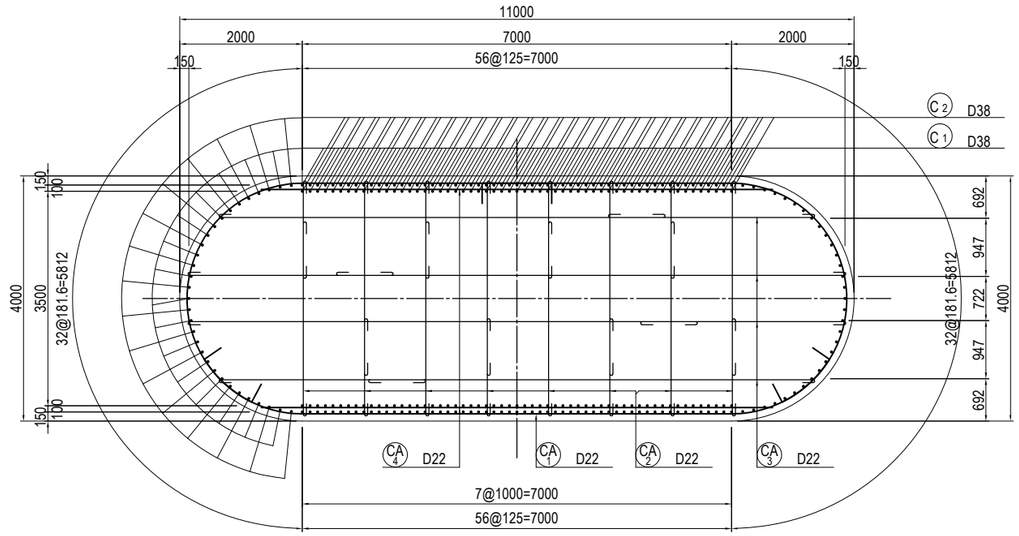
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P14 PIER (12)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2014

BAR ARRANGEMENT OF P14 PIER (13) S=1:100

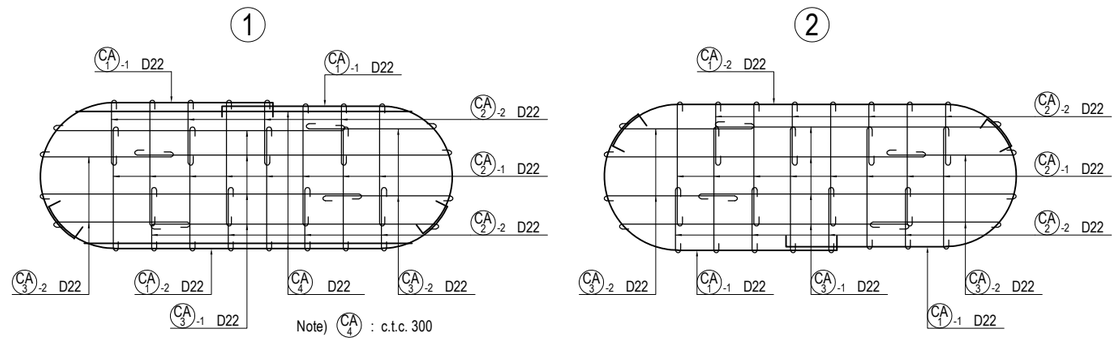
COLUMN

PLAN
5 - 5

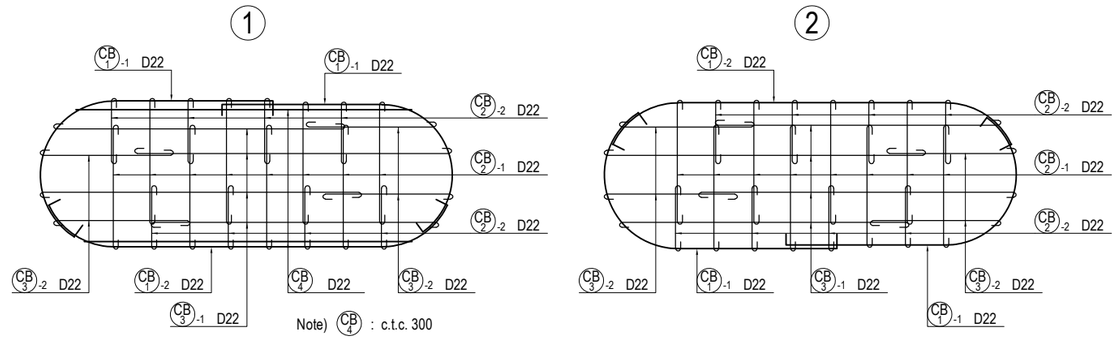


ASSEMBLY DRAWING OF HOOP
(c.t.c. 150)

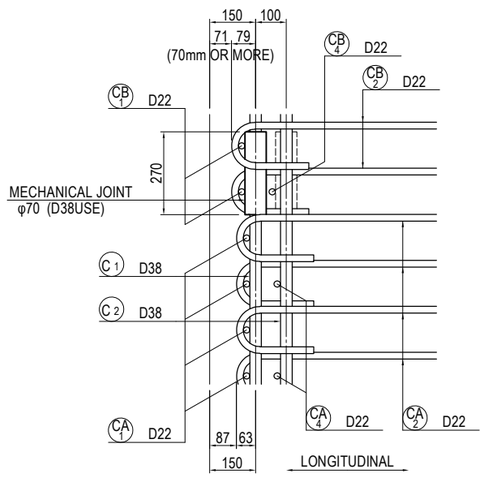
【STANDARD PART】



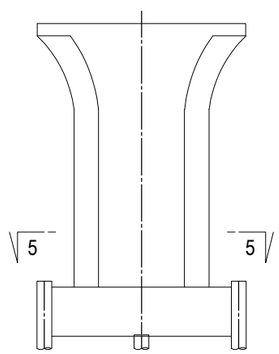
【MECHANICAL JOINT PART】



DETAIL OF COLUMN S=1:20



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

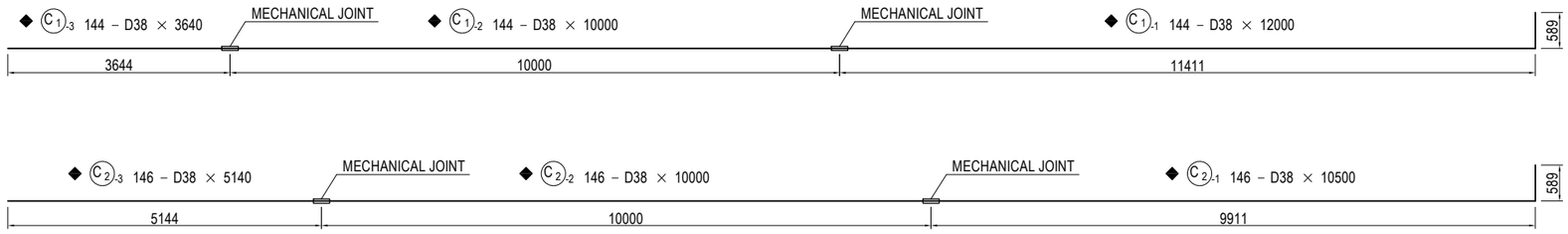
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

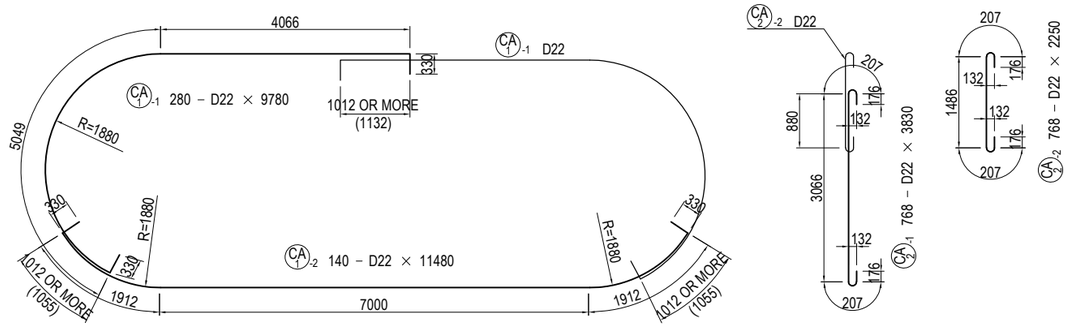
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

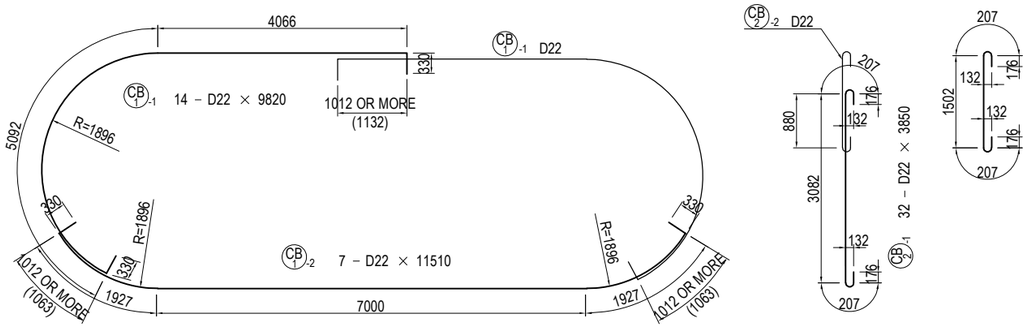
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P14 PIER (13)	2
	DWG No.
	P2-SB-2015

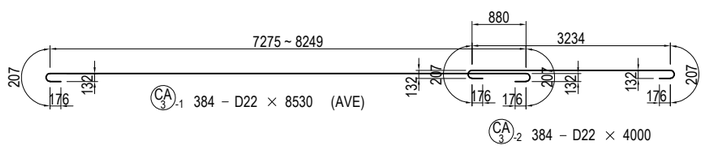
BAR ARRANGEMENT OF P14 PIER (14) S=1:100

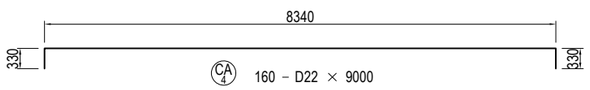
COLUMN

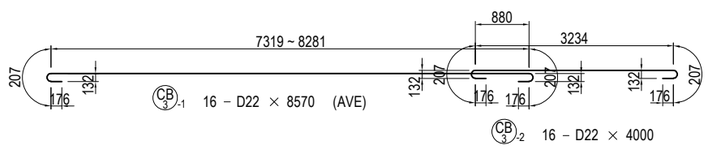


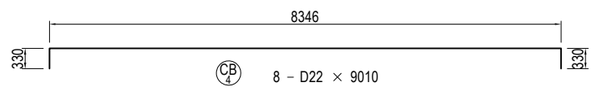




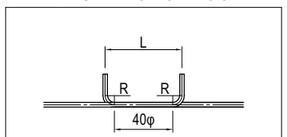








LAP LENGTH LIST OF HOOP



DIA.	R	LAP LENGTH (40φ)	L
D13	39	520	598
D16	48	640	736
D19	57	760	874
D22	66	880	1012
D25	75	1000	1150
D29	87	1160	1334
D32	96	1280	1472

Notes) 1. ◆ : SD390
2. ▭ : MECHANICAL JOINT

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME	SIGNATURE / DATE
				PREPARED BY	S. IMADA / 15 Jun.2017
				CHECKED BY	T. HAYAKAWA / 20 Jun.2017
				APPROVED BY	Y. SANO / 21 Jun.2017

DRAWING TITLE: BAR ARRANGEMENT OF P14 PIER (14)

PACKAGE: 2

DWG No.: P2-SB-2016

BAR ARRANGEMENT OF P14 PIER (15) NOT TO SCALE

BAR SCHEDULE (SD390)

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
C 1-1	D38	12000	144	8.95	107.40	15466	(144)
1-2	"	10000	144	"	89.50	12888	(144)
1-3	"	3640	144	"	32.58	4692	
2-1	"	10500	146	"	93.98	13721	(146)
2-2	"	10000	146	"	89.50	13067	(146)
2-3	"	5140	146	"	46.00	6716	
					SUBTOTAL	66550 kg	
							(MECHANICAL JOINT)
	SD390		D38		66550 kg		(580)
			TOTAL		66550 kg		(580)

BAR SCHEDULE (SD345)

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
B 1-1	D32	11000	19	6.23	68.53	1302	
1-2	"	8000	19	"	49.84	947	
2-1	"	11500	4	"	71.65	287	
2-2	"	7470	4	"	46.54	186	(AVE)
3-1	"	12000	2	"	74.76	150	
3-2	"	6500	2	"	40.50	81	
4-1	"	11500	6	"	71.65	430	
4-2	"	7000	6	"	43.61	262	
5-1	"	8920	4	"	55.57	222	
5-2	"	9500	4	"	59.19	237	
6-1	"	9000	2	"	56.07	112	
6-2	"	9500	2	"	59.19	118	
7-1	"	6000	2	"	37.38	75	
7-2	"	12000	2	"	74.76	150	
8-1	"	12000	7	"	74.76	523	
8-2	"	7000	7	"	43.61	305	
9	"	9500	6	"	59.19	355	
10-1	"	7000	2	"	43.61	87	
10-2	"	12000	2	"	74.76	150	
11-1	"	12000	2	"	74.76	150	
11-2	"	6000	2	"	37.38	75	
12-1	"	10740	8	"	66.91	535	(AVE)
12-2	"	6500	8	"	40.50	324	
12-3	"	8920	8	"	55.57	445	(AVE)
13-1	"	11460	4	"	71.40	286	(AVE)
13-2	"	6500	4	"	40.50	162	
13-3	"	9640	4	"	60.06	240	(AVE)
14-1	"	11500	2	"	71.65	143	
14-2	"	11000	2	"	68.53	137	
15-1	D22	11500	6	3.04	34.96	210	
15-2	"	11500	6	"	34.96	210	
16-1	"	9300	12	"	28.27	339	(AVE)
16-2	"	10640	12	"	32.35	388	(AVE)
17-1	"	10400	13	"	31.62	411	(AVE)
17-2	"	10940	26	"	33.26	865	(AVE)
18-1	"	8500	1	"	25.84	26	
18-2	"	9500	1	"	28.88	29	
18-3	"	12000	1	"	36.48	36	
					SUBTOTAL	10990 kg	
BA 1-1	D22	8570	49	3.04	26.05	1276	
1-2	"	10870	49	"	33.04	1619	
2-1	"	7000	49	"	21.28	1043	
2-2	"	10660	49	"	32.41	1588	
3	"	4470	49	"	13.59	666	
4-1	D16	3500	49	1.56	5.46	268	
4-2	"	2040	49	"	3.18	156	
5	"	2690	98	"	4.20	412	
					SUBTOTAL	7028 kg	

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
BB 1-1	D22	8540	18	3.04	25.96	467	
1-2	"	8160	18	"	24.81	447	(AVE)
1-3	"	8240	18	"	25.05	451	(AVE)
2-1	"	10660	18	"	32.41	583	
2-2	"	7000	18	"	21.28	383	
3-1	D16	3500	18	1.56	5.46	98	
3-2	"	2040	18	"	3.18	57	"
4	"	2690	36	"	4.20	151	"
					SUBTOTAL	2637 kg	
BC 1-1	D22	9950	6	3.04	30.25	182	(AVE)
1-2	"	7630	6	"	23.20	139	(AVE)
1-3	"	5730	6	"	17.42	105	(AVE)
2	"	3960	12	"	12.04	144	(AVE)
3-1	D16	3500	6	1.56	5.46	33	
3-2	"	2040	6	"	3.18	19	"
4	"	2690	12	"	4.20	50	"
					SUBTOTAL	672 kg	
BD 1-1	D22	9420	12	3.04	28.64	344	(AVE)
1-2	"	8250	12	"	25.08	301	(AVE)
2	"	2980	24	"	9.06	217	(AVE)
3-1	D16	3500	12	1.56	5.46	66	
3-2	"	2040	12	"	3.18	38	"
4	"	2690	24	"	4.20	101	"
					SUBTOTAL	1067 kg	
BE 1-1	D22	9620	6	3.04	29.24	175	(AVE)
1-2	"	4990	6	"	15.17	91	(AVE)
2	"	2280	12	"	6.93	83	(AVE)
3-1	D16	3500	6	1.56	5.46	33	
3-2	"	2040	6	"	3.18	19	"
4	"	2690	12	"	4.20	50	"
					SUBTOTAL	451 kg	
BF 1	D22	6010	8	3.04	18.27	146	
2-1	"	5850	8	"	17.78	142	(AVE)
2-2	"	2790	8	"	8.48	68	(AVE)
3	"	1980	16	"	6.02	96	(AVE)
4	"	4470	8	"	13.59	109	
5-1	D16	3500	8	1.56	5.46	44	
5-2	"	2040	8	"	3.18	25	"
					SUBTOTAL	630 kg	
BG 1	D22	6010	8	3.04	18.27	146	
2-1	"	4390	10	"	13.35	134	(AVE)
2-2	"	2390	10	"	7.27	73	(AVE)
3	"	1700	20	"	5.17	103	(AVE)
4	"	4470	8	"	13.59	109	
5-1	D16	3500	8	1.56	5.46	44	
5-2	"	2040	8	"	3.18	25	"
					SUBTOTAL	634 kg	

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
BH 1	D22	5910	4	3.04	17.97	72	(AVE)
2-1	"	2290	2	"	6.96	14	
2-2	"	3030	2	"	9.21	18	
3	"	4370	4	"	13.28	53	(AVE)
4-1	D16	3500	4	1.56	5.46	22	
4-2	"	1940	4	"	3.03	12	(AVE)
					SUBTOTAL	191 kg	
H 1	D16	2960	68	1.56	4.62	314	
2	"	3160	60	"	4.93	296	"
3	"	8290	4	"	12.93	52	
					SUBTOTAL	662 kg	
CA 1-1	D22	9780	280	3.04	29.73	8324	
1-2	"	11480	140	"	34.90	4886	
2-1	"	3830	768	"	11.64	8940	
2-2	"	2250	768	"	6.84	5253	"
3-1	"	8530	384	"	25.93	9957	(AVE)
3-2	"	4000	384	"	12.16	4669	"
4	"	9000	160	"	27.36	4378	
					SUBTOTAL	46407 kg	
CB 1-1	D22	9820	14	3.04	29.85	418	
1-2	"	11510	7	"	34.99	245	
2-1	"	3850	32	"	11.70	374	
2-2	"	2270	32	"	6.90	221	"
3-1	"	8570	16	"	26.05	417	(AVE)
3-2	"	4000	16	"	12.16	195	"
4	"	9010	8	"	27.39	219	
					SUBTOTAL	2089 kg	
	SD345		D32		8476 kg		
			D22		62597 *		
			D16		2385 *		
			TOTAL		73458 kg		

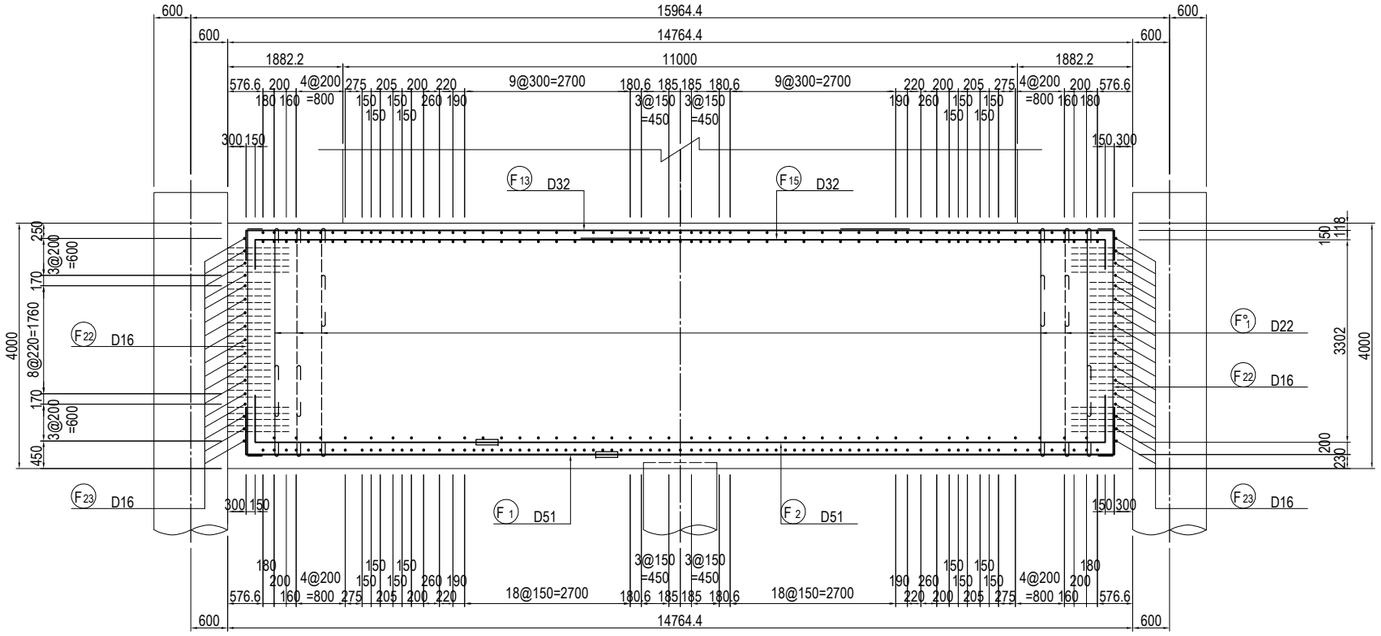
USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm 2	MAIN BAR	SD390
		OTHERS	SD345

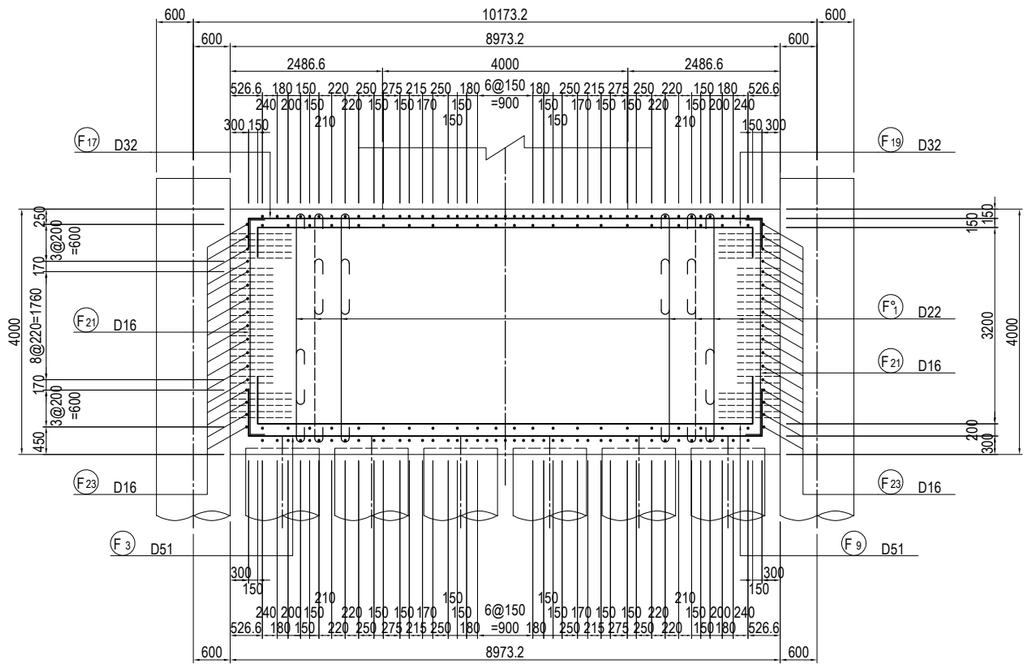
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT			
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY			
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE			
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
	NAME	SIGNATURE	DATE	
PREPARED BY	S. IMADA		15 Jun.2017	
CHECKED BY	T. HAYAKAWA		20 Jun.2017	
APPROVED BY	Y. SANO		21 Jun.2017	
DRAWING TITLE	BAR ARRANGEMENT OF P14 PIER (15)			
PACKAGE	2			
DWG No.	P2-SB-2017			

BAR ARRANGEMENT OF P14 FOOTING (1) S=1:100

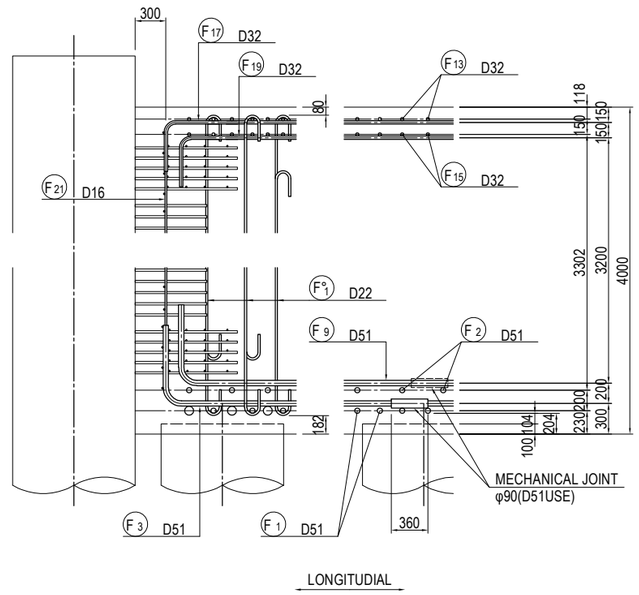
SECTION 1 - 1



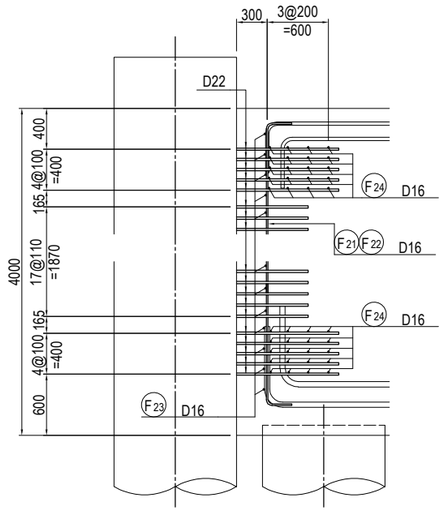
SECTION 2 - 2



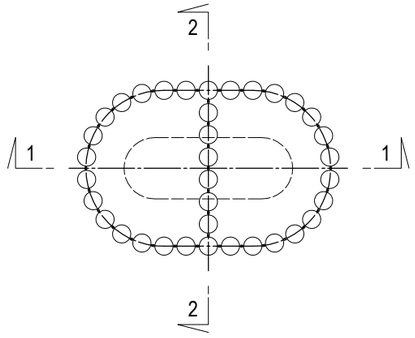
DETAIL OF PILE CAP S=1:60



DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:60



MARKING DIAGRAM



Note) : MECHANICAL JOINT

USE MATERIALS

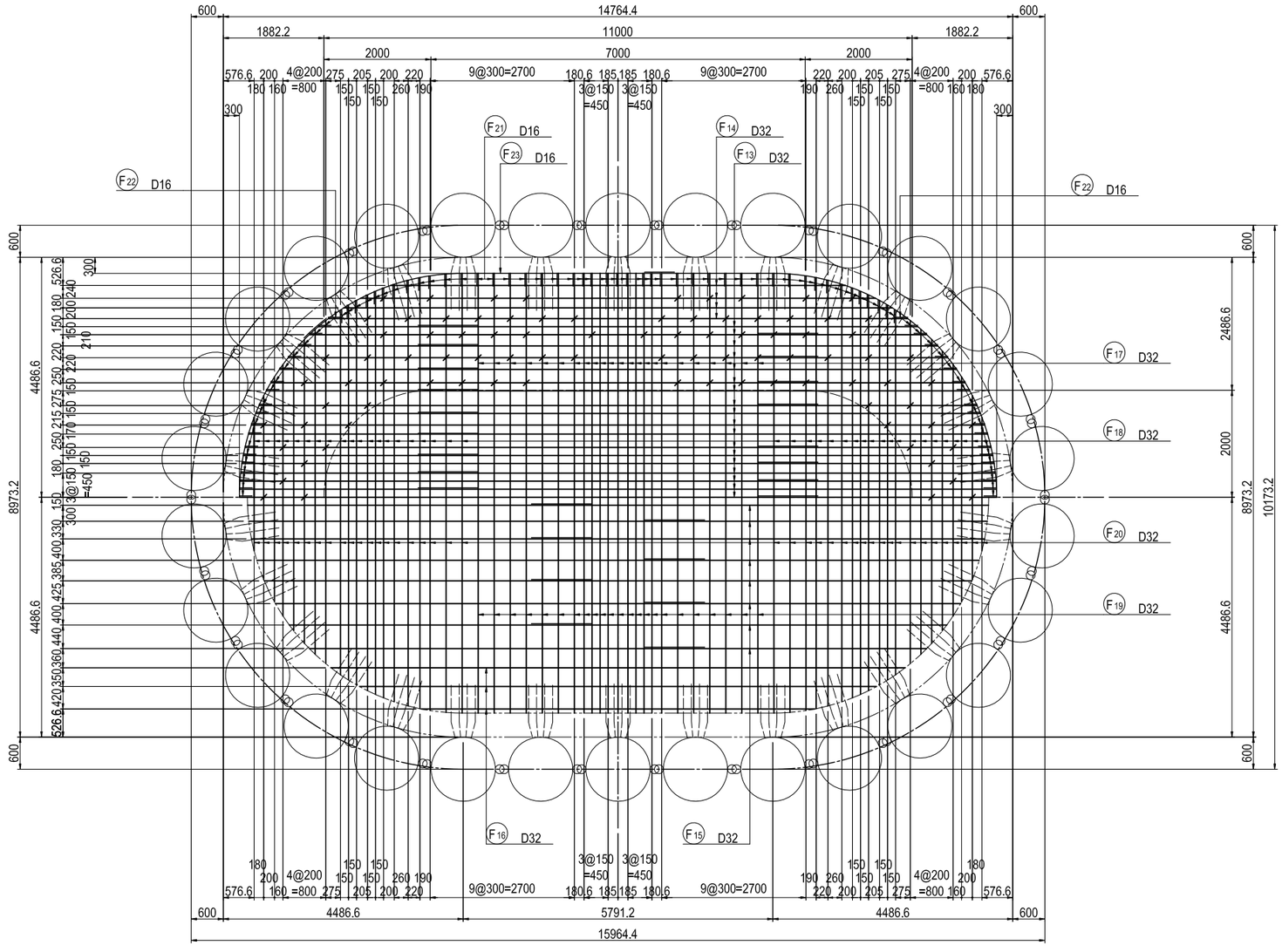
	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P14 FOOTING (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2018

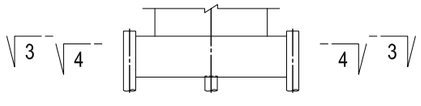
BAR ARRANGEMENT OF P14 FOOTING (2) S=1:100

PLAN 3 - 3

PLAN 4 - 4



MARKING DIAGRAM



USE MATERIALS

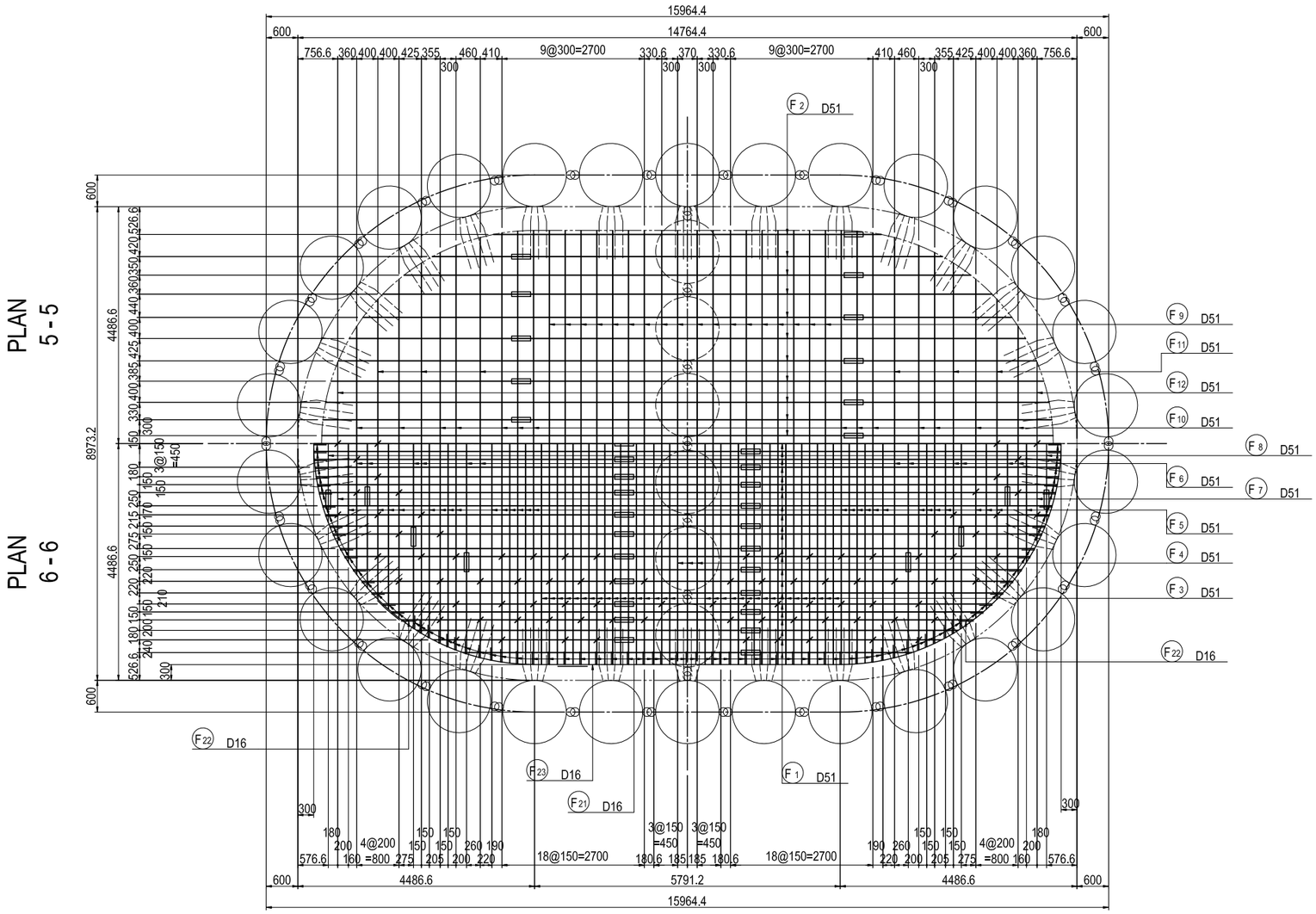
	CONCRETE	BAR
FOOTING	σck = 24 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

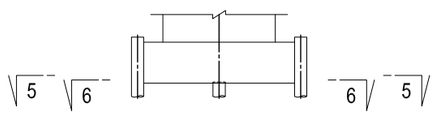
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P14 FOOTING (2)	2
	DWG No.
	P2-SB-2019

BAR ARRANGEMENT OF P14 FOOTING (3) S=1:100



MARKING DIAGRAM



USE MATERIALS

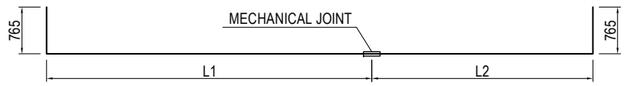
	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

Note: ⊣⊢ : MECHANICAL JOINT

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P14 FOOTING (3)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2020

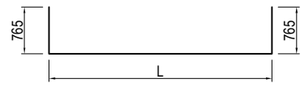
BAR ARRANGEMENT OF P14 FOOTING (4) S=1:100



(F1)-1 43 – D51 × 8270 (AVE)

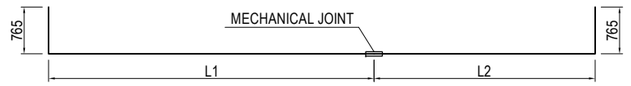
(F1)-2 43 – D51 × 5870 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F1 -1 1	D51	1	8282	9047	F1 -2 1	D51	1	5882	6647
2	〃	2	8280	9045	2	〃	2	5880	6645
3	〃	2	8271	9036	3	〃	2	5871	6636
4	〃	2	8258	9023	4	〃	2	5858	6623
5	〃	2	8235	9000	5	〃	2	5835	6600
6	〃	2	8209	8974	6	〃	2	5809	6574
7	〃	2	8178	8943	7	〃	2	5778	6543
8	〃	2	8112	8877	8	〃	2	5712	6477
9	〃	2	8059	8824	9	〃	2	5659	6424
10	〃	2	7979	8744	10	〃	2	5579	6344
11	〃	2	7915	8680	11	〃	2	5515	6280
12	〃	2	7779	8544	12	〃	2	5379	6144
13	〃	2	7694	8459	13	〃	2	5294	6059
14	〃	2	7533	8298	14	〃	2	5133	5898
15	〃	2	7369	8134	15	〃	2	4969	5734
16	〃	2	7181	7946	16	〃	2	4781	5546
17	〃	2	6974	7739	17	〃	2	4574	5339
18	〃	2	6807	7572	18	〃	2	4407	5172
19	〃	2	6620	7385	19	〃	2	4220	4985
20	〃	2	6331	7096	20	〃	2	3931	4696
21	〃	2	6016	6781	21	〃	2	3616	4381
22	〃	2	5454	6219	22	〃	2	3054	3819
AVE		43		8272	AVE		43		5872



(F5) 28 – D51 × 8930 (AVE)

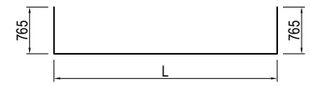
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F5 1	D51	2	8373	9903
2	〃	2	8366	9896
3	〃	2	8349	9879
4	〃	2	8320	9850
5	〃	2	8281	9811
6	〃	2	8215	9745
7	〃	2	7825	9355
8	〃	2	7704	9234
9	〃	2	7569	9099
10	〃	2	7361	8891
11	〃	2	6610	8140
12	〃	2	6278	7808
13	〃	2	5901	7431
14	〃	2	4502	6032
AVE		28		8934



(F2)-1 22 – D51 × 9940 (AVE)

(F2)-2 22 – D51 × 3640 (AVE)

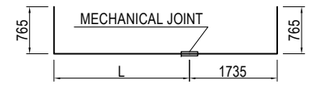
MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F2 -1 1	D51	2	10079	10844	F2 -2 1	D51	2	3779	4544
2	〃	2	10057	10822	2	〃	2	3757	4522
3	〃	2	10006	10771	3	〃	2	3706	4471
4	〃	2	9906	10671	4	〃	2	3606	4371
5	〃	2	9766	10531	5	〃	2	3466	4231
6	〃	2	9558	10323	6	〃	2	3258	4023
7	〃	2	9299	10064	7	〃	2	2999	3764
8	〃	2	8924	9689	8	〃	2	2624	3389
9	〃	2	8519	9284	9	〃	2	2219	2984
10	〃	2	7985	8750	10	〃	2	1685	2450
11	〃	2	6828	7593	11	〃	2	528	1293
AVE		22		9940	AVE		22		3640



(F10) 14 – D51 × 8600 (AVE)

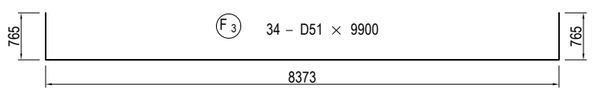
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F10 1	D51	2	8073	9603
2	〃	2	8048	9578
3	〃	2	7977	9507
4	〃	2	7503	9033
5	〃	2	7236	8766
6	〃	2	6226	7756
7	〃	2	4444	5974
AVE		14		8602

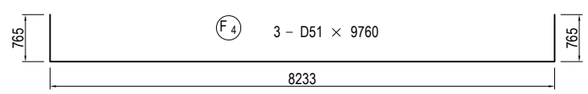
(F11)-2 6 – D51 × 2500

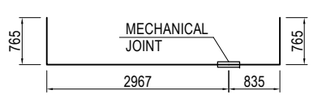


(F11)-1 6 – D51 × 5730 (AVE)

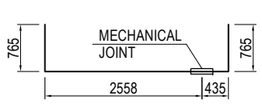
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F11 -1 1	D51	2	6071	6836
2	〃	2	5104	5869
3	〃	2	3732	4497
AVE		6		5734



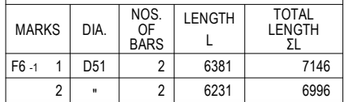




(F7)-1 2 – D51 × 3730 (F7)-2 2 – D51 × 1600

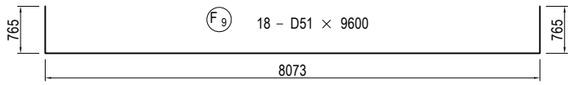


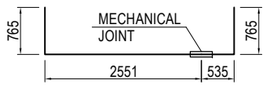
(F8)-1 2 – D51 × 3320 (F8)-2 2 – D51 × 1200



(F6)-1 12 – D51 × 5820 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F6 -1 1	D51	2	6381	7146
2	〃	2	6231	6996
3	〃	2	5456	6221
4	〃	2	5268	6033
5	〃	2	3734	4499
6	〃	2	3233	3998
AVE		12		5816





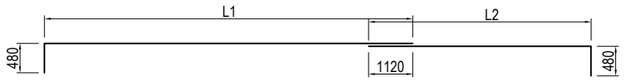
(F12)-1 2 – D51 × 3320 (F12)-2 2 – D51 × 1300

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

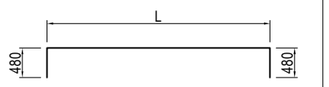
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P14 FOOTING (4)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2021

BAR ARRANGEMENT OF P14 FOOTING (5) S=1:100



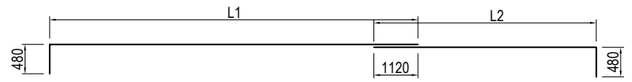
F13-1 35 – D32 × 10850 (AVE)　　F13-2 35 – D32 × 4490 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F13-1 1	D32	1	10822	11302	F13-2 1	D32	1	4462	4942
2	〃	2	10820	11300	2	〃	2	4460	4940
3	〃	2	10811	11291	3	〃	2	4451	4931
4	〃	2	10798	11278	4	〃	2	4438	4918
5	〃	2	10775	11255	5	〃	2	4415	4895
6	〃	2	10749	11229	6	〃	2	4389	4869
7	〃	2	10718	11198	7	〃	2	4358	4838
8	〃	2	10652	11132	8	〃	2	4292	4772
9	〃	2	10599	11079	9	〃	2	4239	4719
10	〃	2	10519	10999	10	〃	2	4159	4639
11	〃	2	10455	10935	11	〃	2	4095	4575
12	〃	2	10319	10799	12	〃	2	3959	4439
13	〃	2	10234	10714	13	〃	2	3874	4354
14	〃	2	10073	10553	14	〃	2	3713	4193
15	〃	2	9909	10389	15	〃	2	3549	4029
16	〃	2	9721	10201	16	〃	2	3361	3841
17	〃	2	9514	9994	17	〃	2	3154	3634
18	〃	2	9347	9827	18	〃	2	2987	3467
AVE		35		10847	AVE		35		4487



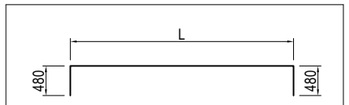
F18 40 – D32 × 7680 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F18 1	D32	2	8373	9333
2	〃	2	8349	9309
3	〃	2	8281	9241
4	〃	2	8215	9175
5	〃	2	8116	9076
6	〃	2	7966	8926
7	〃	2	7825	8785
8	〃	2	7704	8664
9	〃	2	7569	8529
10	〃	2	7361	8321
11	〃	2	7191	8151
12	〃	2	7003	7963
13	〃	2	6610	7570
14	〃	2	6278	7238
15	〃	2	5901	6861
16	〃	2	5469	6429
17	〃	2	4968	5928
18	〃	2	4502	5462
19	〃	2	3802	4762
20	〃	2	2993	3953
AVE		20		7684



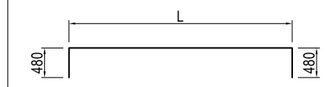
F15-1 16 – D32 × 8650 (AVE)　　F15-2 16 – D32 × 6530 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F15-1 1	D32	2	8549	9029	F15-2 1	D32	2	6429	6909
2	〃	2	8527	9007	2	〃	2	6407	6887
3	〃	2	8476	8956	3	〃	2	6356	6836
4	〃	2	8376	8856	4	〃	2	6256	6736
5	〃	2	8236	8716	5	〃	2	6116	6596
6	〃	2	8028	8508	6	〃	2	5908	6388
7	〃	2	7769	8249	7	〃	2	5649	6129
8	〃	2	7394	7874	8	〃	2	5274	5754
AVE		16		8649	AVE		16		6529



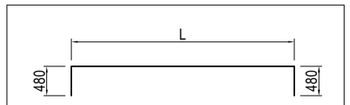
F16 6 – D32 × 10220 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F16 1	D32	2	10738	11698
2	〃	2	9671	10631
3	〃	2	7356	8316
AVE		6		10215



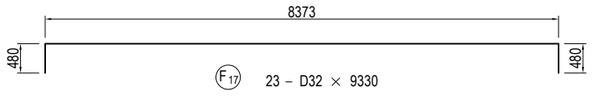
F20 40 – D32 × 7270 (AVE)

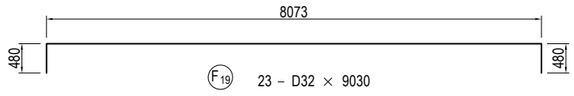
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F20 1	D32	2	8073	9033
2	〃	2	8048	9008
3	〃	2	7977	8937
4	〃	2	7909	8869
5	〃	2	7806	8766
6	〃	2	7650	8610
7	〃	2	7503	8463
8	〃	2	7377	8337
9	〃	2	7236	8196
10	〃	2	7018	7978
11	〃	2	6839	7799
12	〃	2	6641	7601
13	〃	2	6226	7186
14	〃	2	5872	6832
15	〃	2	5467	6427
16	〃	2	4998	5958
17	〃	2	4444	5404
18	〃	2	3916	4876
19	〃	2	3086	4046
20	〃	2	2006	2966
AVE		40		7265

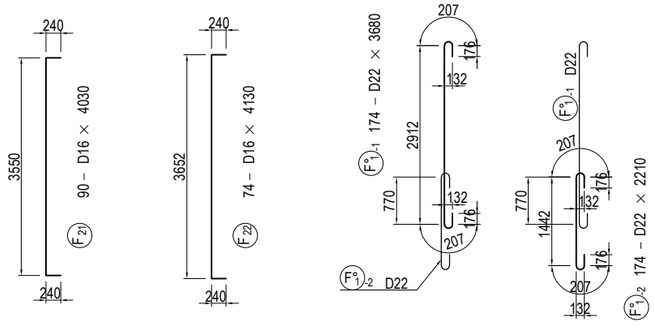


F14 8 – D32 × 10770 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F14 1	D32	2	10840	11800
2	〃	2	10262	11222
3	〃	2	9633	10593
4	〃	2	8509	9469
AVE		8		10771







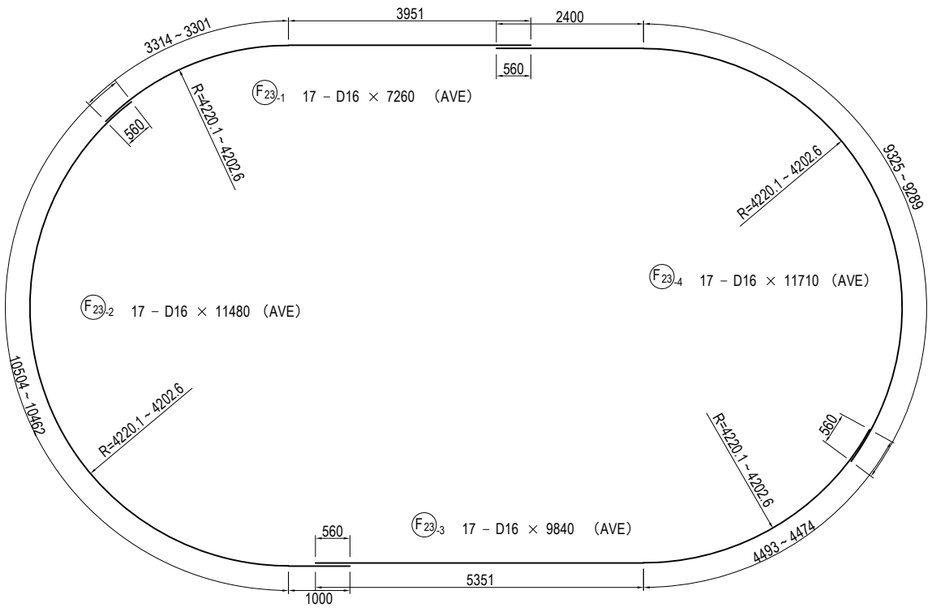
USE MATERIALS

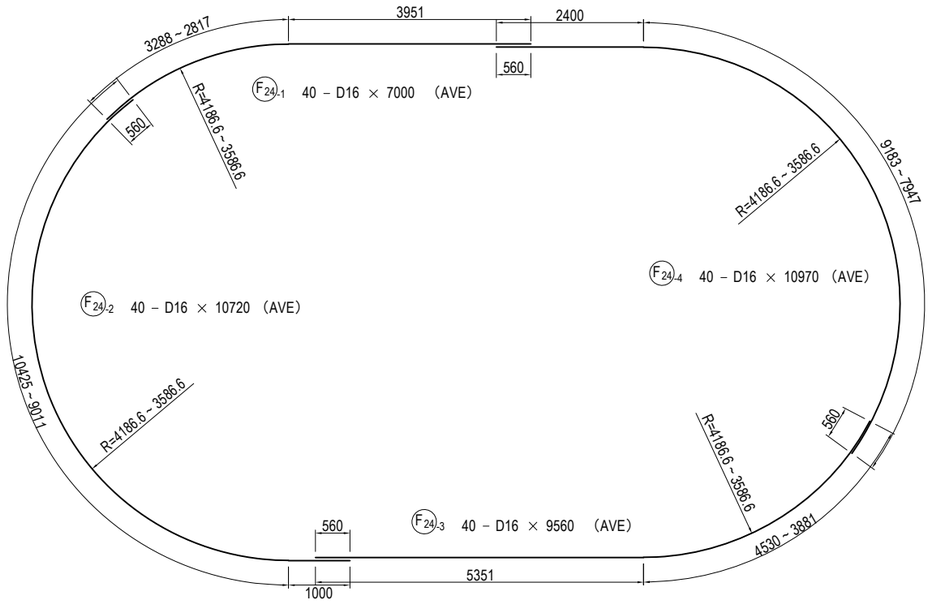
	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P14 FOOTING (5)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2022

BAR ARRANGEMENT OF P14 FOOTING (6) S=1:100





Note） The joint position of the reinfocing bar is rotated 180 degrees for each step arranged.

BAR SCHEDULE

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
F 1-1	D51	8270	43	15.9	131.49	5654	(43) (AVE)
1-2	"	5870	43	"	93.33	4013	(AVE)
2-1	"	9940	22	"	158.05	3477	(22) (AVE)
2-2	"	3640	22	"	57.88	1273	(AVE)
3	"	9900	34	"	157.41	5352	
4	"	9760	3	"	155.18	466	"
5	"	8930	28	"	141.99	3976	" (AVE)
6-1	"	5820	12	"	92.54	1110	(12) (AVE)
6-2	"	2500	12	"	39.75	477	
7-1	"	3730	2	"	59.31	119	(2)
7-2	"	1600	2	"	25.44	51	
8-1	"	3320	2	"	52.79	106	(2)
8-2	"	1200	2	"	19.08	38	
9	"	9600	18	"	152.64	2748	
10	"	8600	14	"	136.74	1914	" (AVE)
11-1	"	5730	6	"	91.11	547	(6) (AVE)
11-2	"	2500	6	"	39.75	239	
12-1	"	3320	2	"	52.79	106	(2)
12-2	"	1300	2	"	20.67	41	
13-1	D32	10850	35	6.23	67.60	2366	(AVE)
13-2	"	4490	35	"	27.97	979	(AVE)
14	"	10770	8	"	67.10	537	(AVE)
15-1	"	8650	16	"	53.89	862	(AVE)
15-2	"	6530	16	"	40.68	651	(AVE)
16	"	10220	6	"	63.67	382	(AVE)
17	"	9330	23	"	58.13	1337	"
18	"	7680	40	"	47.85	1914	" (AVE)
19	"	9030	23	"	56.26	1294	"
20	"	7270	40	"	45.29	1812	" (AVE)
21	D16	4030	90	1.56	6.29	566	
22	"	4130	74	"	6.44	477	"
23-1	"	7260	17	"	11.33	193	(AVE)
23-2	"	11480	17	"	17.91	304	(AVE)
23-3	"	9840	17	"	15.35	261	(AVE)
23-4	"	11710	17	"	18.27	311	(AVE)
24-1	"	7000	40	"	10.92	437	(AVE)
24-2	"	10720	40	"	16.72	669	(AVE)
24-3	"	9560	40	"	14.91	596	(AVE)
24-4	"	10970	40	"	17.11	684	(AVE)
					SUBTOTAL	48339 kg	
F° 1-1	D22	3680	174	3.04	11.19	1947	
1-2	"	2210	174	"	6.72	1169	"
					SUBTOTAL	3116 kg	

(MECHANICAL JOINT)

D51	31707 kg	(89)
D32	12134 "	
D22	3116 "	
D16	4498 "	
TOTAL	51455 kg	(89)

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

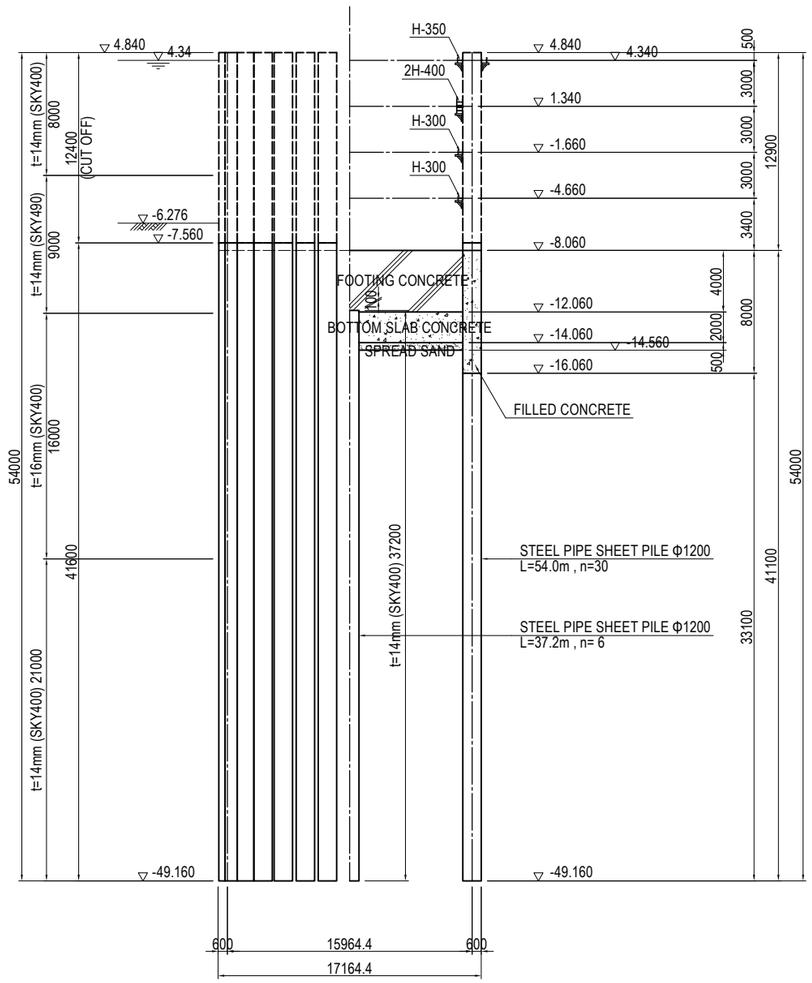
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P14 FOOTING (6)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2023

GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P14 PIER

S=1:400

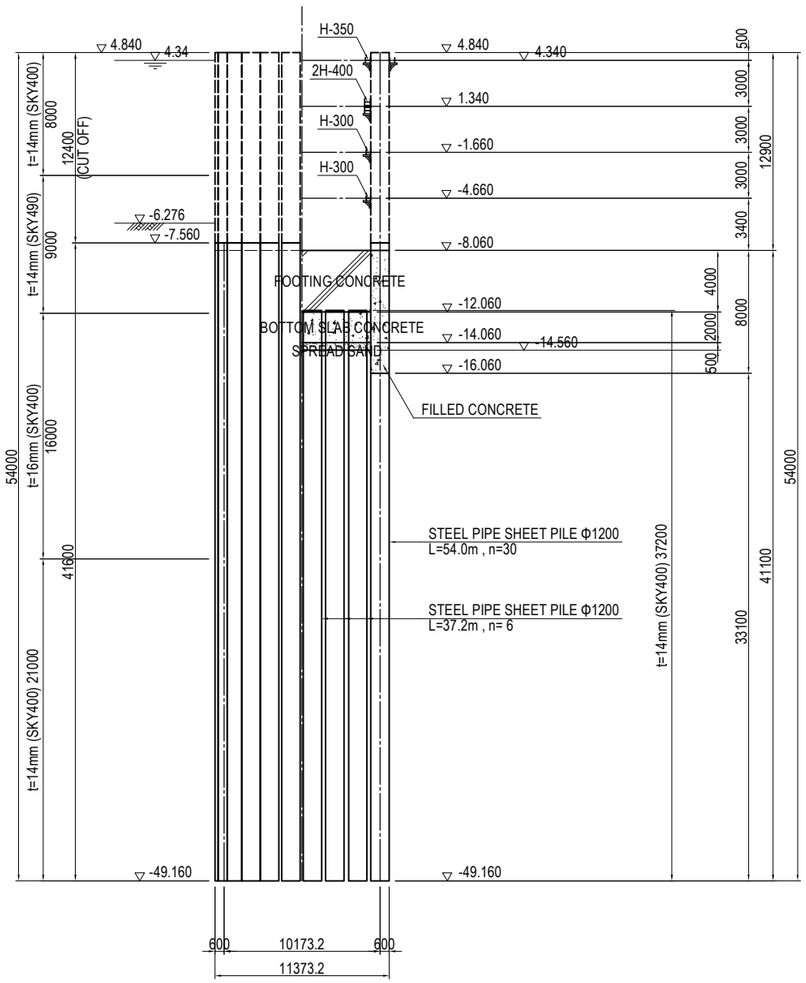
FRONT ELEVATION

1 - 1　　2 - 2

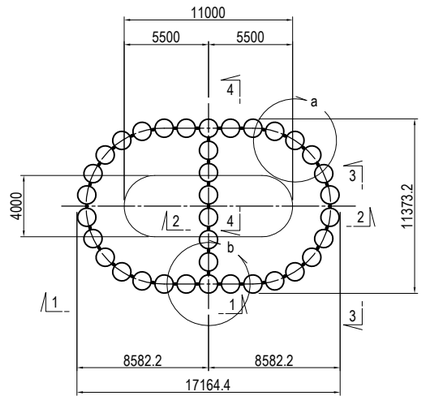


SIDE ELEVATION

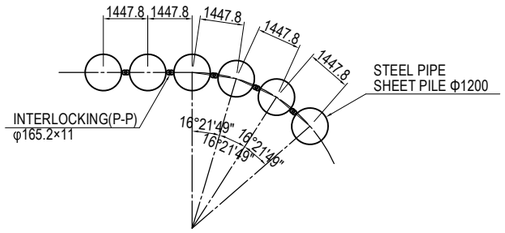
3 - 3　　4 - 4



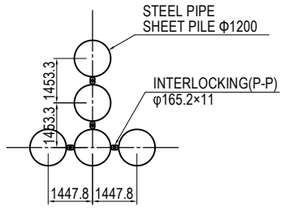
PLAN



DETAIL a　S=1:200



DETAIL b　S=1:200



USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

Note: Temporary support can be used for reference only.

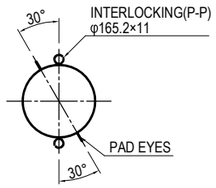
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P14 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2024

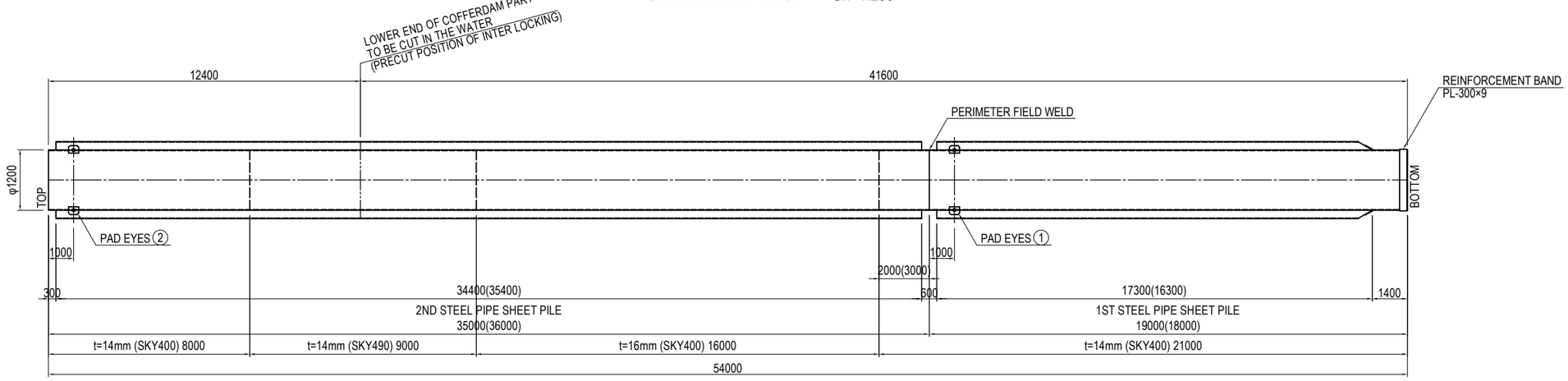
DETAIL OF STEEL PIPE SHEET PILE OF P14 PIER (1)

CROSS SECTION S=1:200

TYPE A
(TYPE B)

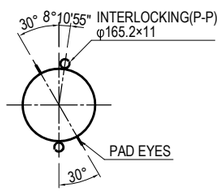


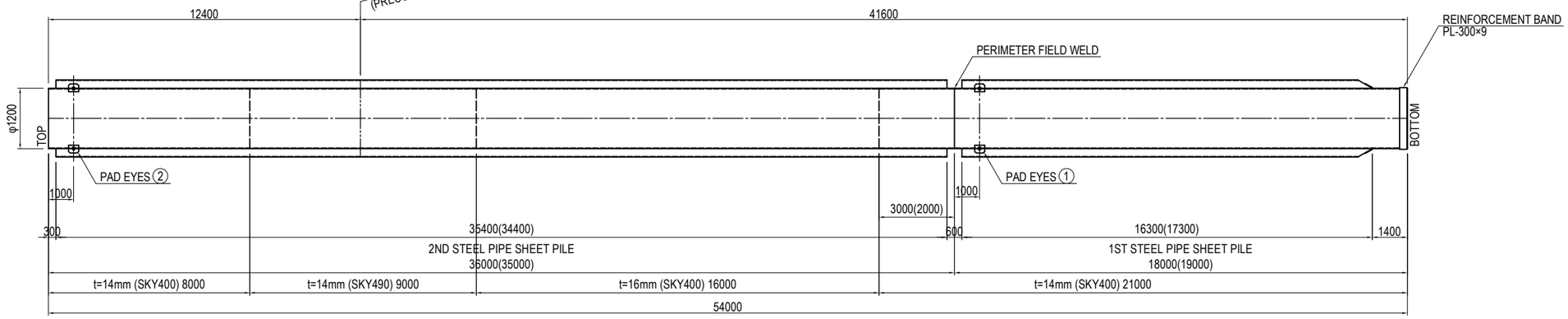
SIDE ELEVATION Sv=1:100 Sh=1:200



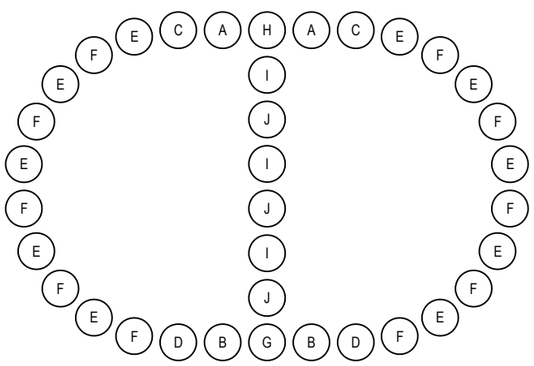
CROSS SECTION S=1:200

TYPE C
(TYPE D)



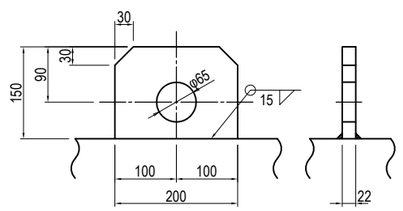


STEEL PIPE SHEET PILE TYPE AND POSITION

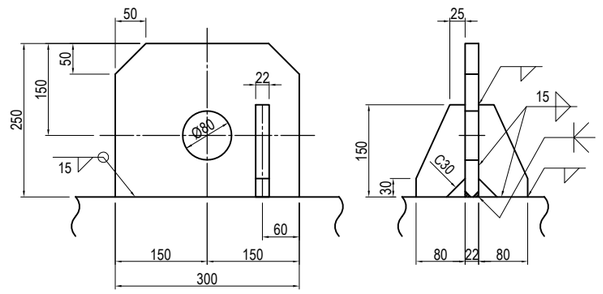


DETAIL OF EYES S=1:10

PAD EYES ① PL-200x150x22(SM490A)



PAD EYES ② PL-300x250x22(SM490A)



Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

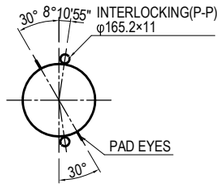
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF STEEL PIPE SHEET PILE OF P14 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2025

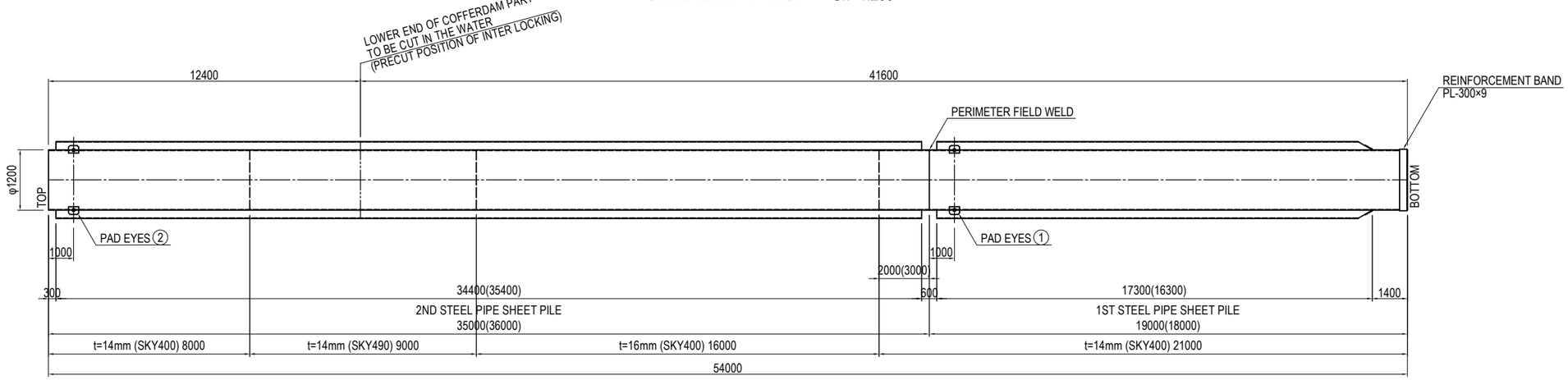
DETAIL OF STEEL PIPE SHEET PILE OF P14 PIER (2)

CROSS SECTION S=1:200

TYPE E
(TYPE F)

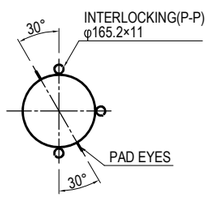


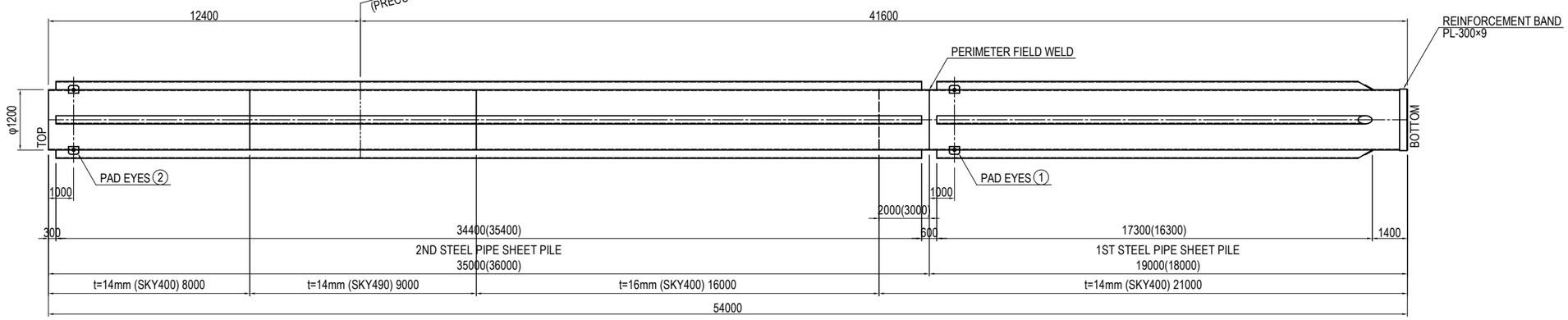
SIDE ELEVATION Sv=1:100 Sh=1:200



CROSS SECTION S=1:200

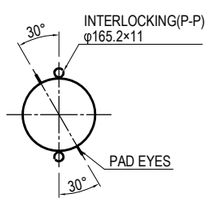
TYPE G
(TYPE H)

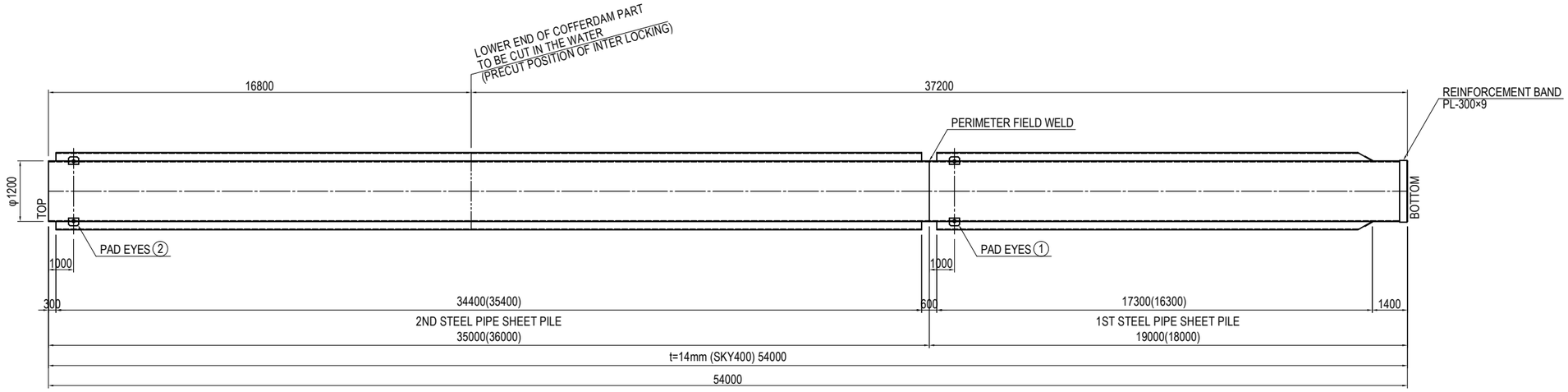




CROSS SECTION S=1:200

TYPE I
(TYPE J)





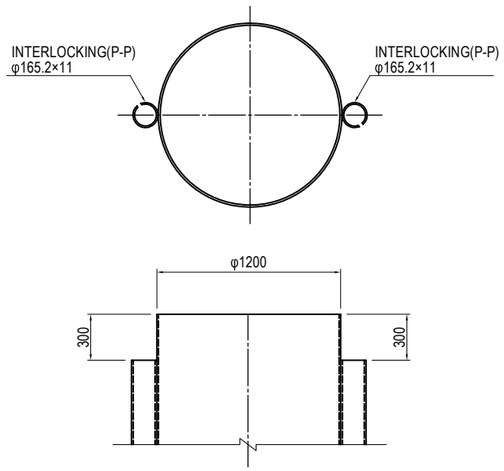
Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

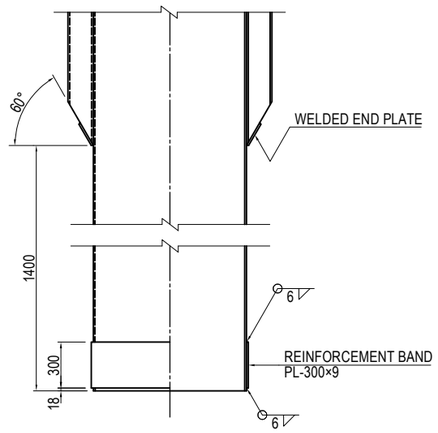
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF STEEL PIPE SHEET PILE OF P14 PIER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2026

DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P14 PIER

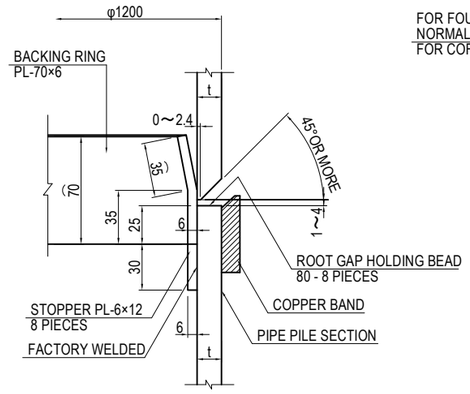
DETAIL OF STEEL PIPE SHEET PILE TOP S=1:40



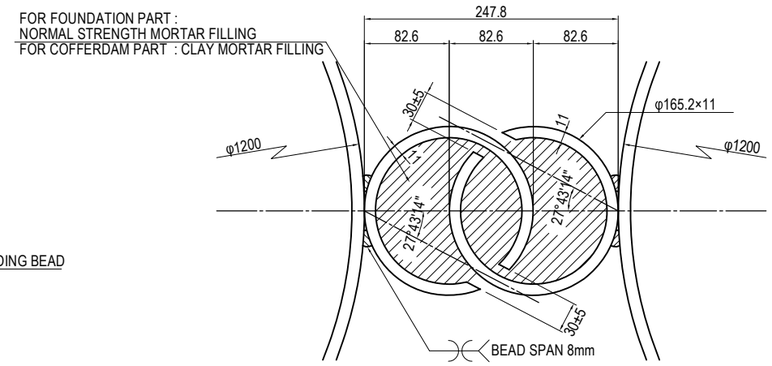
DETAIL OF STEEL PIPE SHEET PILE TOE S=1:40



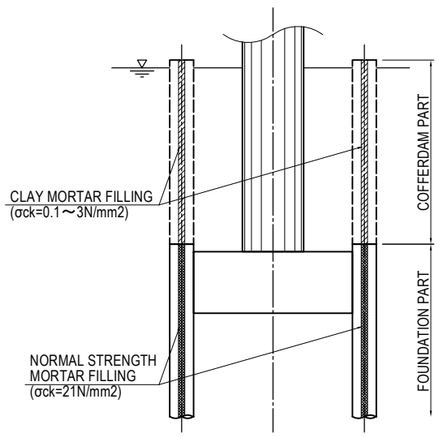
DETAIL OF PERIMETER FIELD WELDING OF STEEL PIPE SHEET PILE S=1:4



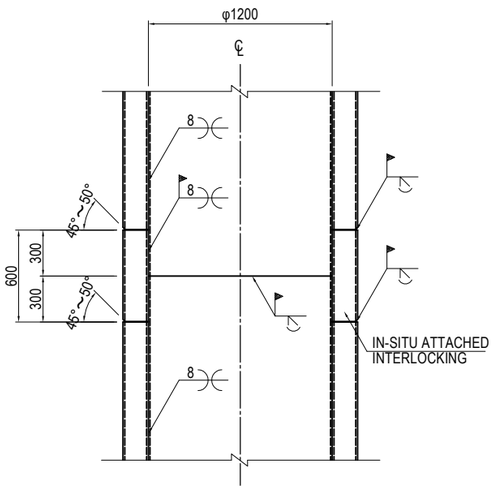
DETAIL OF CONNECTED INTERLOCKING(P-P) S=1:6



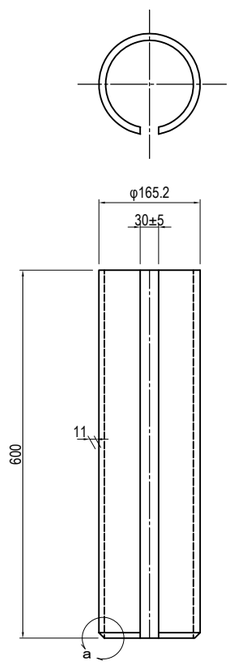
TREATMENT OF STEEL PIPE SHEET PILE INTERLOCKING



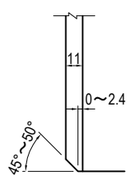
DETAIL OF IN-SITU LONGITUDINAL WELDING PART S=1:40



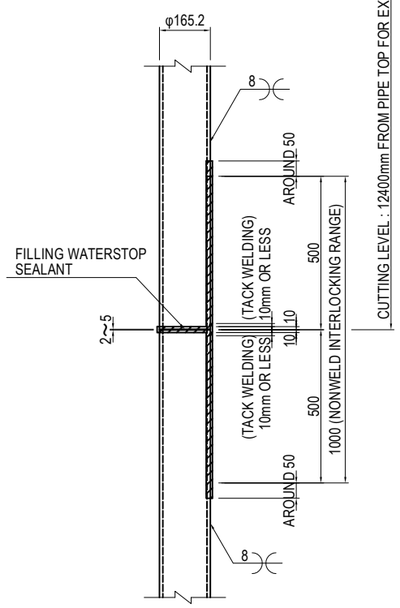
DETAIL OF IN-SITU ATTACHED INTERLOCKING S=1:10



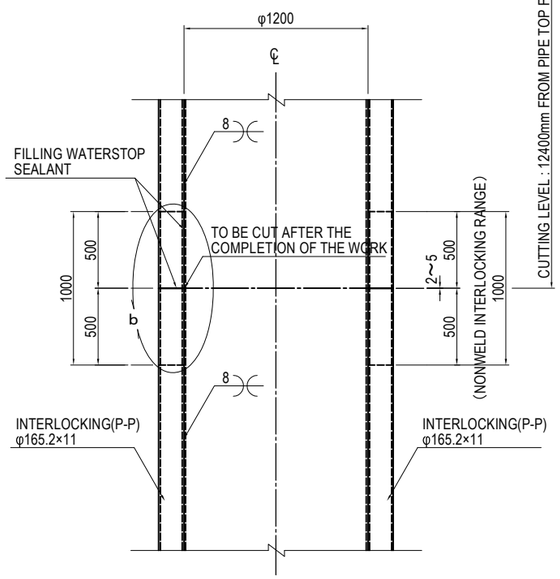
DETAIL a



DETAIL b

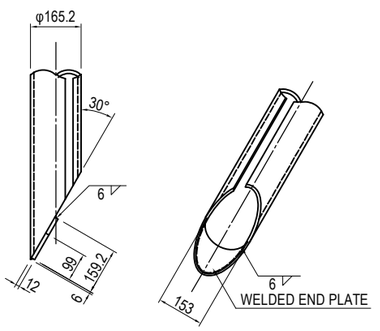


DETAIL OF PRECUT INTERRLOCKING S=1:40



CUTTING LEVEL : 12400mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING

DETAIL OF INTERRLOCKING TOE S=1:20



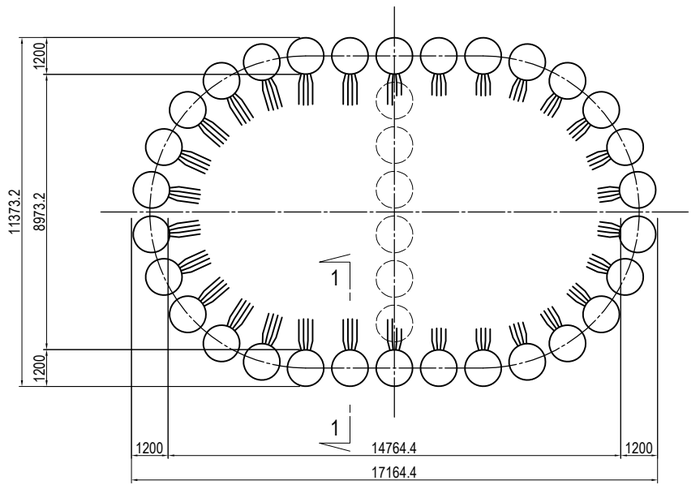
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

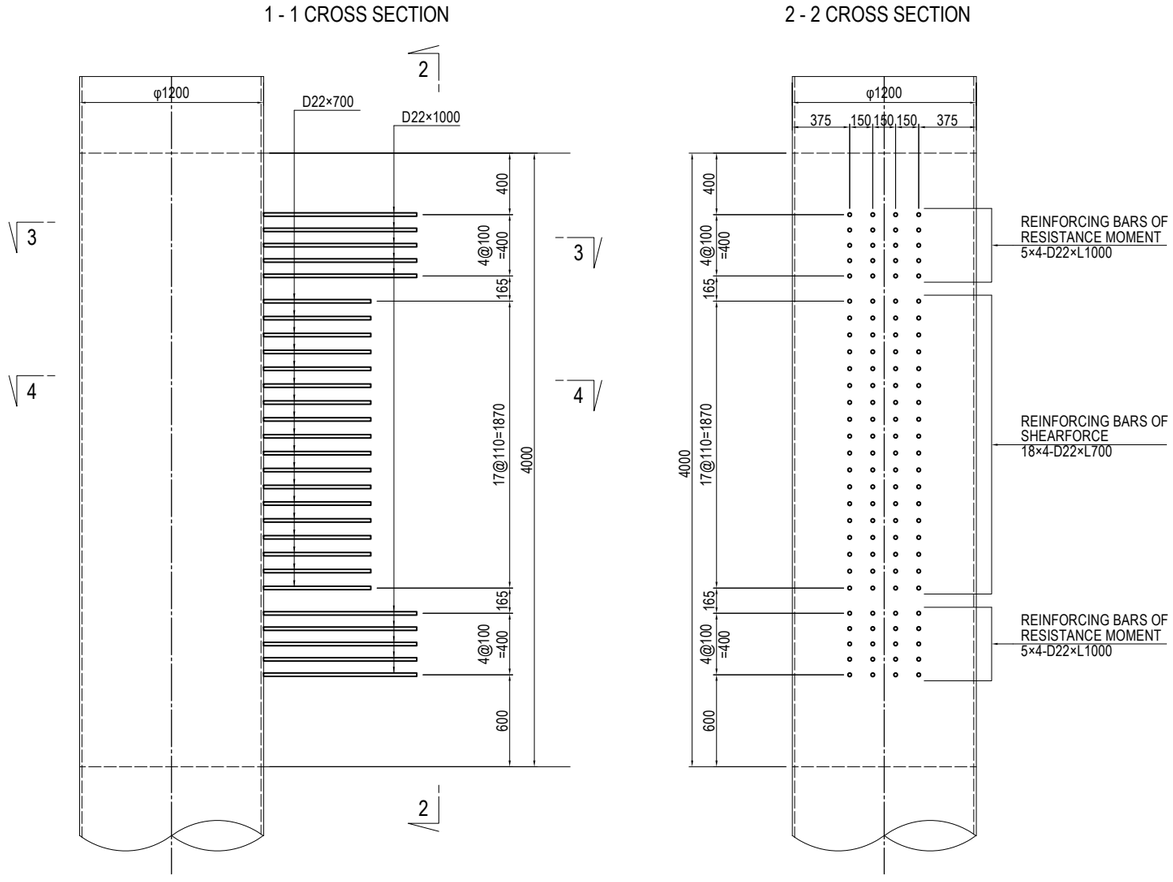
DRAWING TITLE	PACKAGE
DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P14 PIER	2
	DWG No.
	P2-SB-2027

DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P14 PIER

PLAN S=1:200

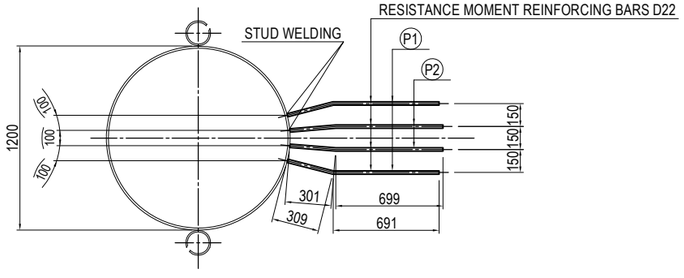


DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:40

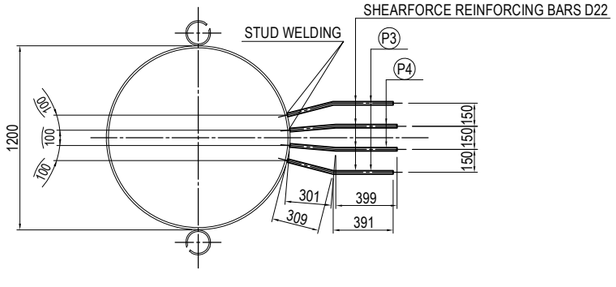


CROSS SECTION OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND REINFORCING BARS S=1:40

3 - 3 CROSS SECTION
(RESISTANCE MOMENT REINFORCING BARS CONNECTION PART)



4 - 4 CROSS SECTION
(SHEARFORCE REINFORCING BARS CONNECTION PART)



FABRICATION OF REINFORCING BARS S=1:40

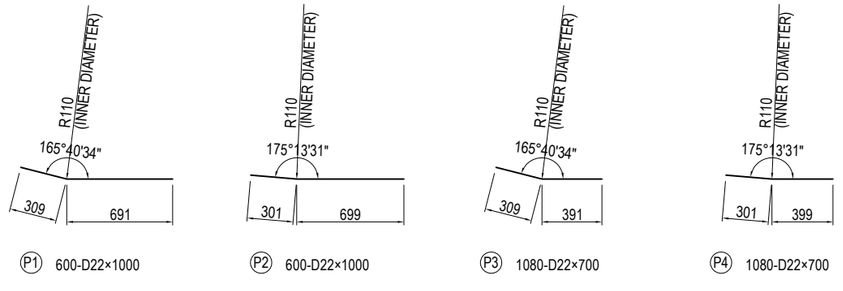


TABLE OF REINFORCING BARS

MARK	TYPE	LENGTH (mm)	PIECES (piece)	UNIT WEIGHT (kg/m)	UNIT WEIGHT (kg/piece)	WEIGHT (kg)	GRADE	MEMO
P1	D22	1000	600	3.04	3.04	1824.0	SD345 for STUD WELDING	
P2	D22	1000	600	3.04	3.04	1824.0	SD345 for STUD WELDING	
P3	D22	700	1080	3.04	2.13	2300.4	SD345 for STUD WELDING	
P4	D22	700	1080	3.04	2.13	2300.4	SD345 for STUD WELDING	
				D22		8248.8	kg	
				TOTAL WEIGHT		8248.8	kg	

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

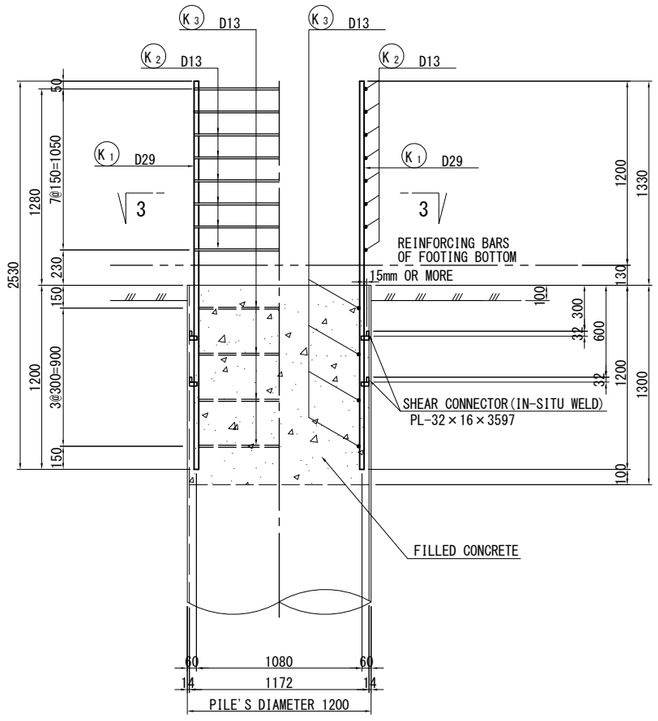
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

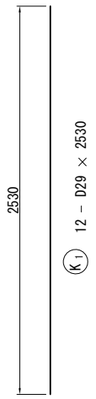
DRAWING TITLE	PACKAGE
DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P14 PIER	2
	DWG No.
	P2-SB-2028

DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P14 PIER S=1:40

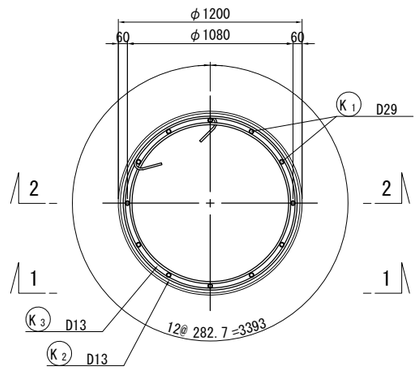
DETAIL OF PILE TOP

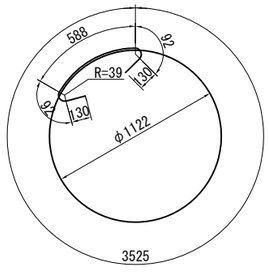
1 - 1　　2 - 2



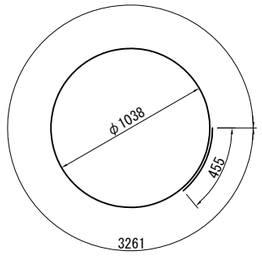


3 - 3





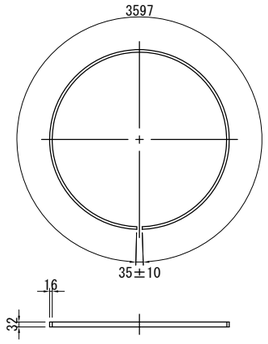
K2　8 - D13 × 4560



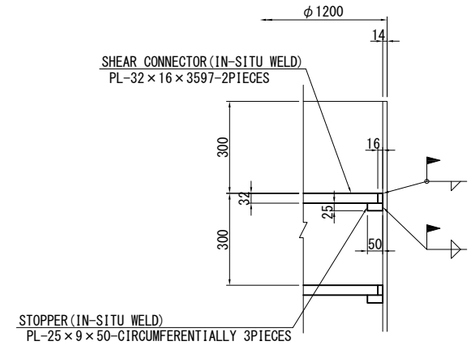
K3　4 - D13 × 3720

DETAIL OF ATTACHMENT OF SHEAR CONNECTOR

CENTER OF LENGTH



SETTING IN THE FIELD S=1:20



MATERIAL LIST

WEIGHT/EA.

MARKS	SECTION SIZE	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	MATERIAL	REMARKS
PILE TOP ACCOMPANYING ITEMS								
PL	PL-32*16	3597	2	4.019	14.456	28.9	SS400	SHEAR CONNECTOR
PL	PL-25*9	50	6	1.766	0.088	0.5	SS400	STOPPER
REINFORCEMENT								
K1	D29	2530	12	5.04	12.75	153	SD345	｜
K2	D13	4560	8	0.995	4.54	36.3	SD345	○
K3	D13	3720	4	0.995	3.70	14.8	SD345	○
TOTAL						204		
FILLED CONCRETE　(σck = 24 N/mm^2)								
V = 1/4 × π × 1.172^2 × 1.300　=　1.402 m^3								

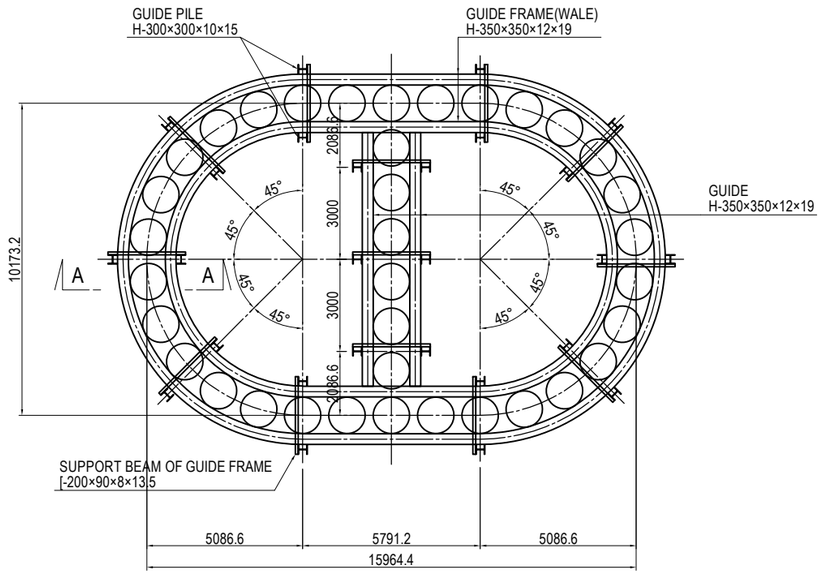
ITEM	DIVISION		UNIT CONTENT	WEIGHT/EA.	QUANTITY
NUMBER OF PILE			Number		6
PILE TOP	SS400	TOTAL	kg	29.4	176.4
REINFORCEMENT	SD345	D29	kg	153	918
		D13	kg	51	307
		TOTAL	kg	204	1225
FILLED CONCRETE	σck = 24 N/mm^2		m^3	1.402	8.4

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

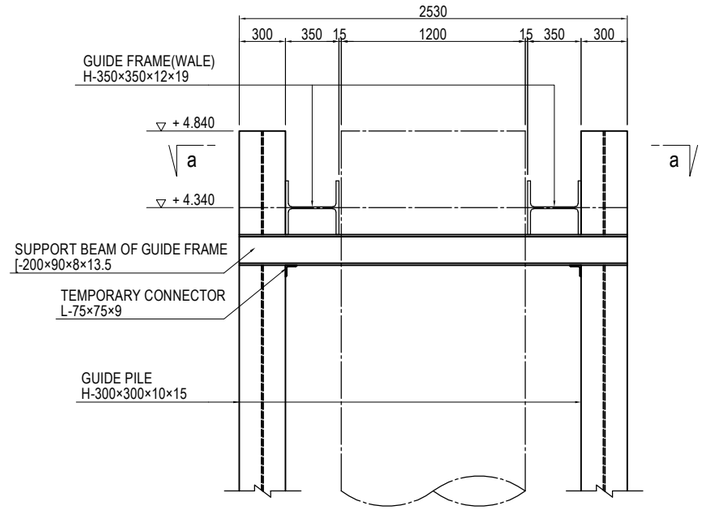
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P14 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2029

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P14 PIER (1)

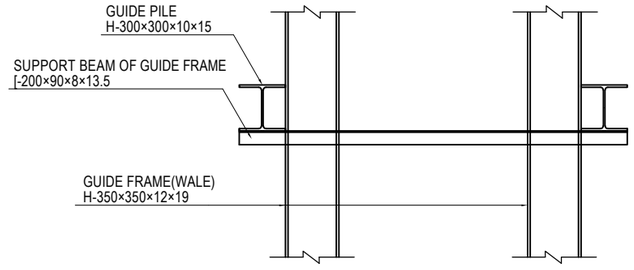
LAYOUT PLAN OF GUIDE FRAMES AND GUIDE PILES S=1:200



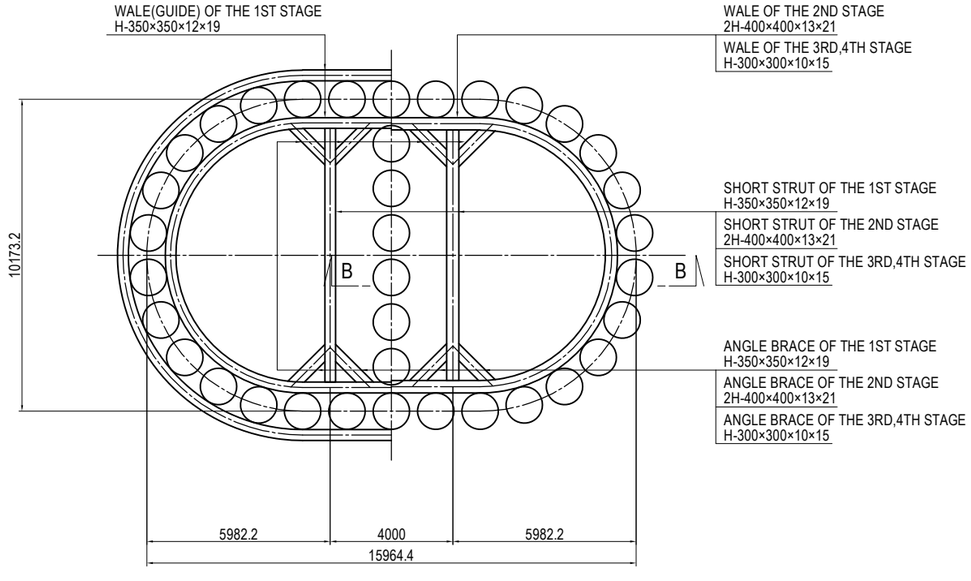
DETAIL OF ATTACHMENT OF GUIDE PILES AND GUIDE FRAMES S=1:40



a - a



LAYOUT PLAN OF STRUTS AND WALES S=1:200

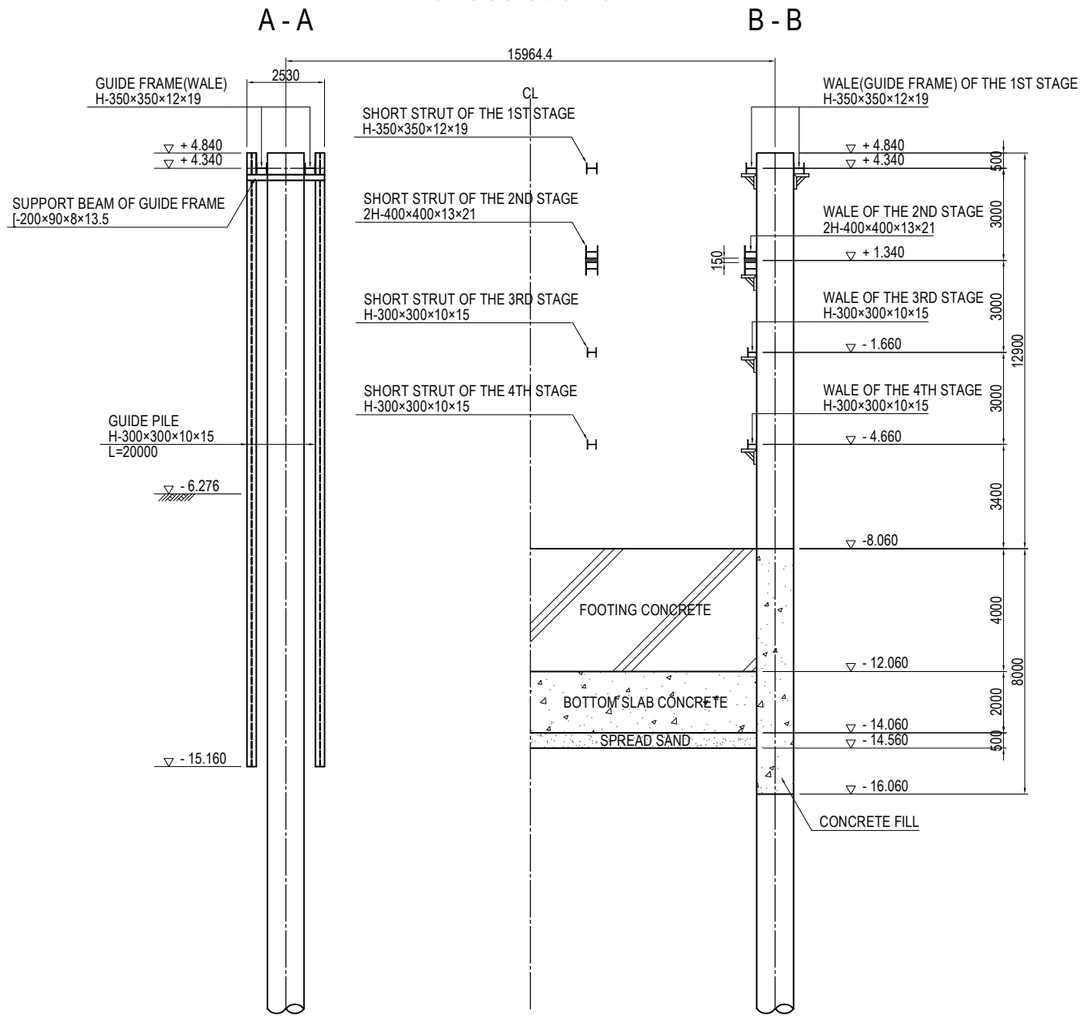


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

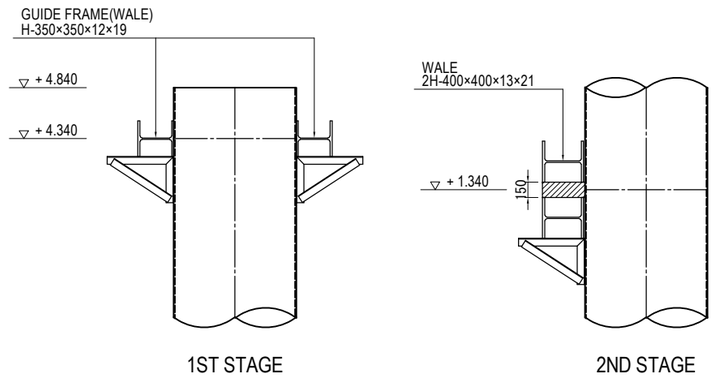
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P14 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2030

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P14 PIER (2)

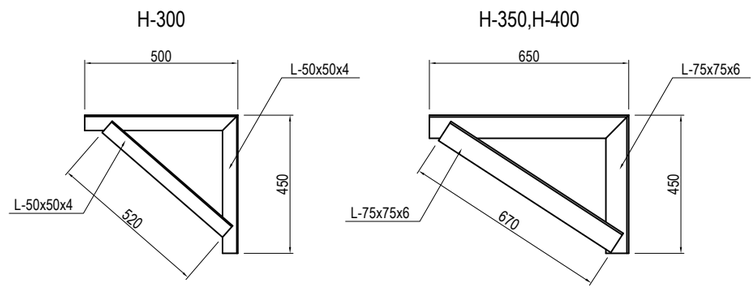
CROSS SECTION S=1:200



DETAIL OF ATTACHMENT OF WALE S=1:60



DETAIL OF BRACKET S=1:20

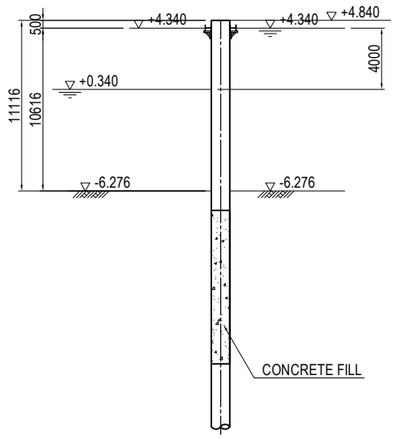


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P14 PIER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2031

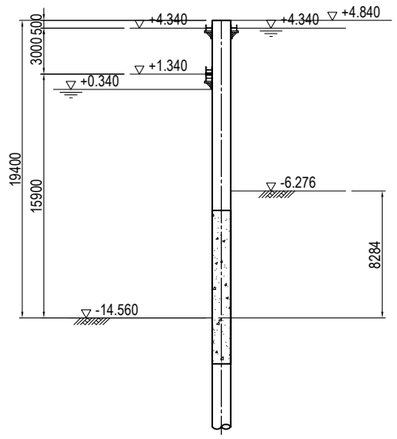
(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P14 PIER S=1:400

STEP 1



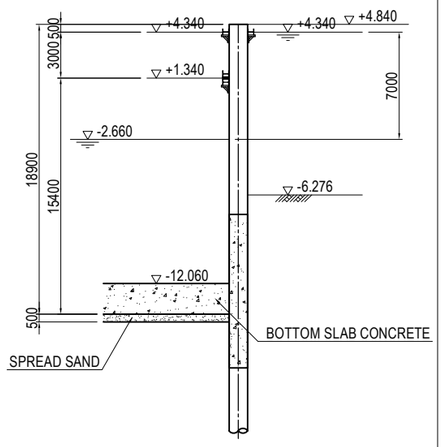
Excavate inside of exterior sheet pilles and filled with concrete as shown.
Draining the inside of cofferdam up to +0.340m level.
The 1st support Installation.

STEP 2



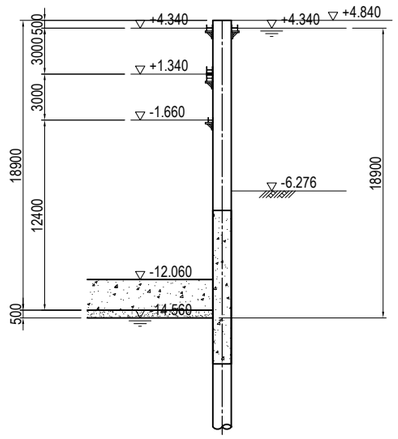
The 2nd support Installation.
Underwater excavation up to -14.560m level.

STEP 3



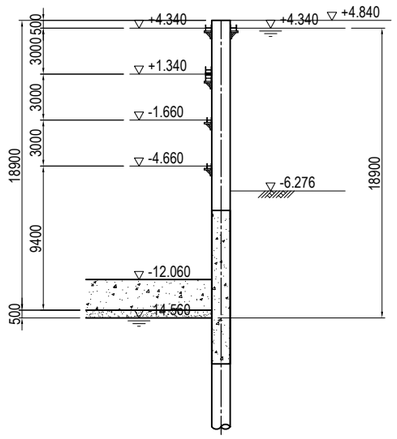
Draining the inside of cofferdam up to -2.660m level.
Placement of spread sand followed by
Casting undeawater bottom slab concrete.

STEP 4



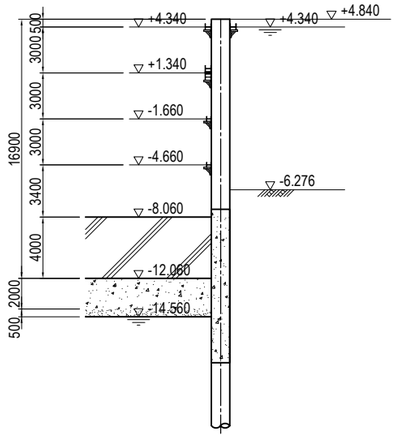
The 3rd support Installation.
Dry up inside the cofferdam.

STEP 5



The 4th support Installation.

STEP 6



Casting of footing concrete.

Note : This drawing can be used for reference only.

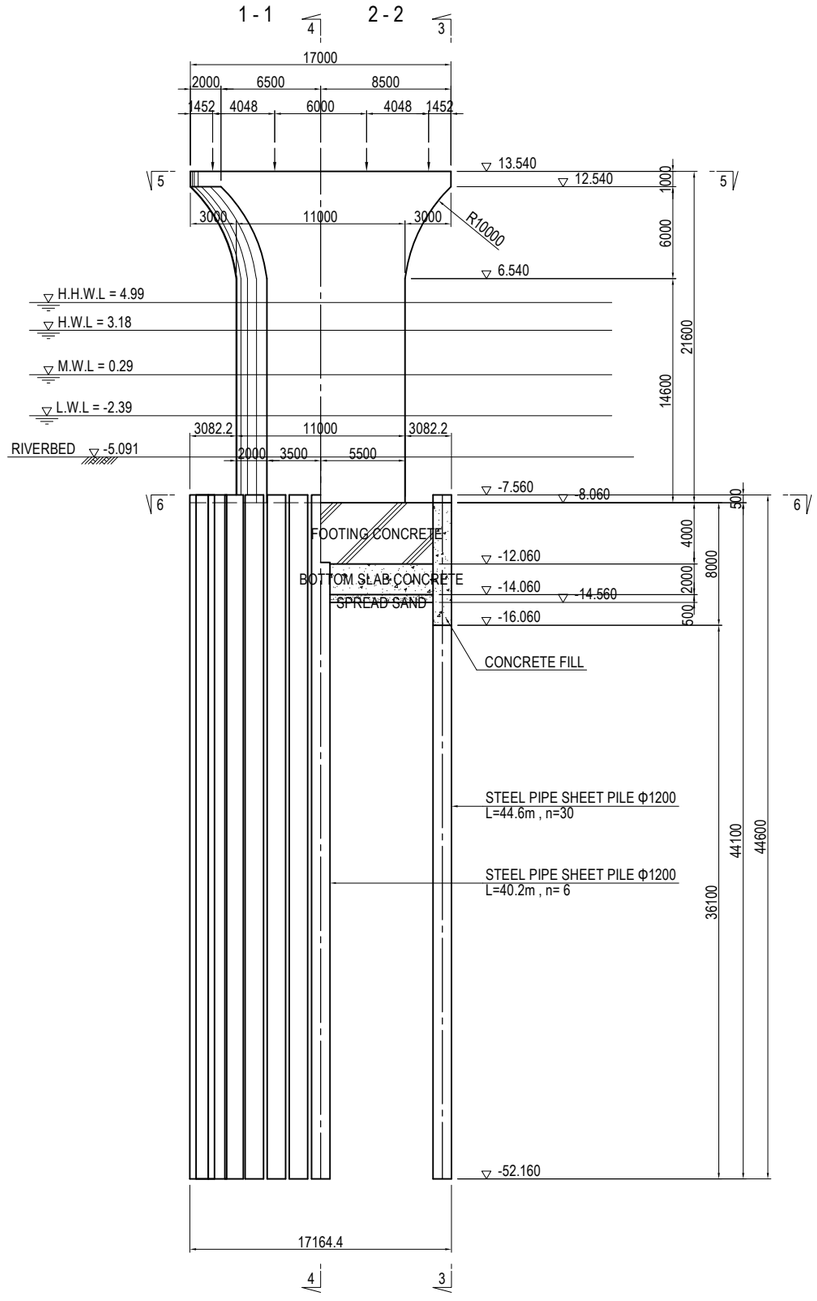
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			

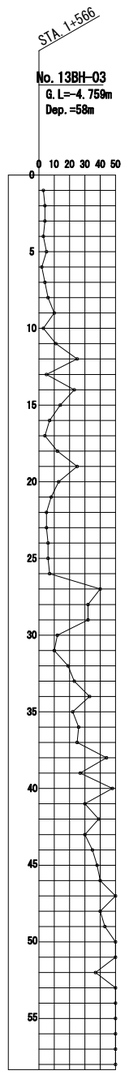
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P14 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2032

GENERAL VIEW OF P15 PIER (1)

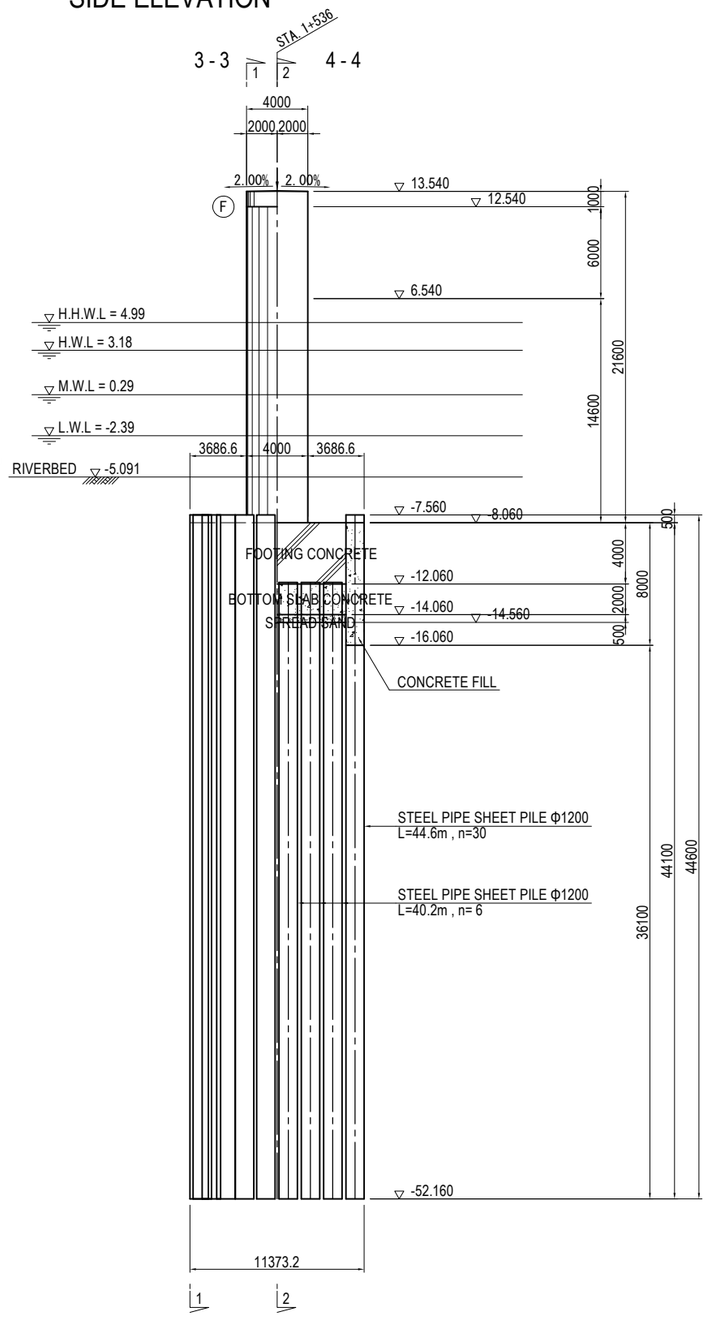
S=1:400

FRONT ELEVATION



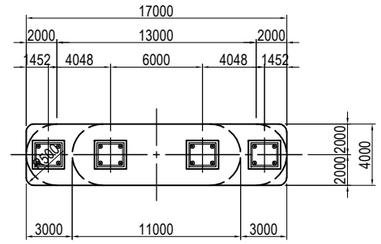


SIDE ELEVATION



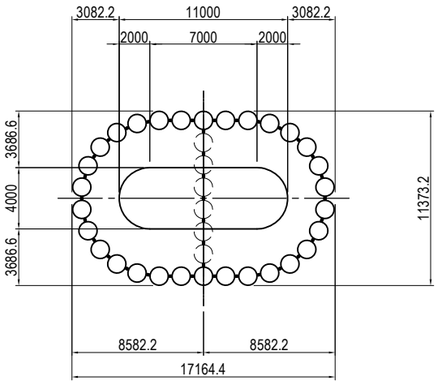
PLAN

5 - 5



PLAN

6 - 6



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm²	SD345
COLUMN	σck = 30 N/mm²	SD390 ・ SD345
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

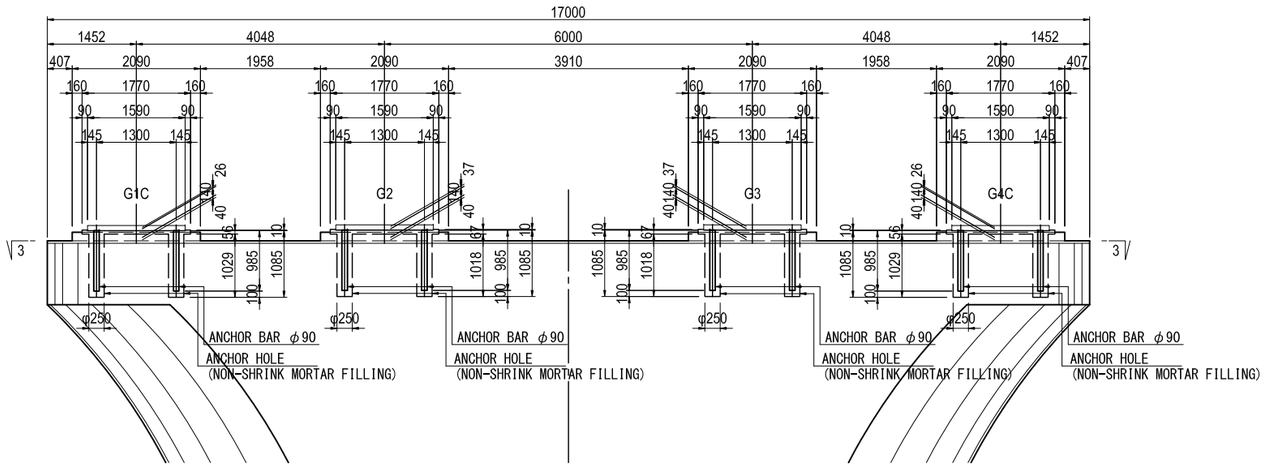
DRAWING TITLE	PACKAGE
GENERAL VIEW OF P15 PIER (1)	2
	DWG No.
	P2-SB-2101

GENERAL VIEW OF P15 PIER (2)

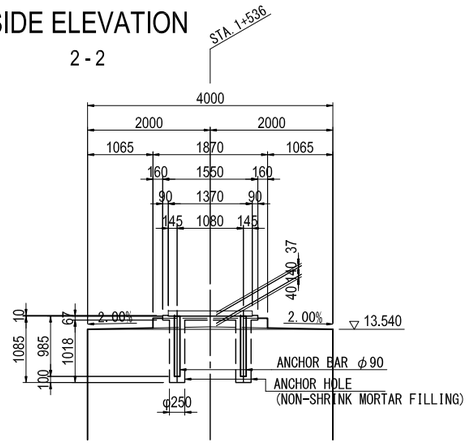
S=1:100

DETAIL OF BEARING AND ANCHOR

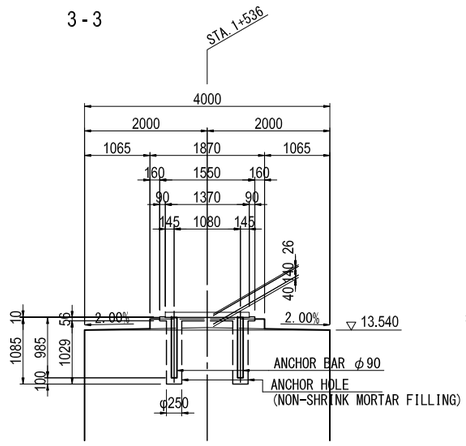
FRONT ELEVATION
1 - 1



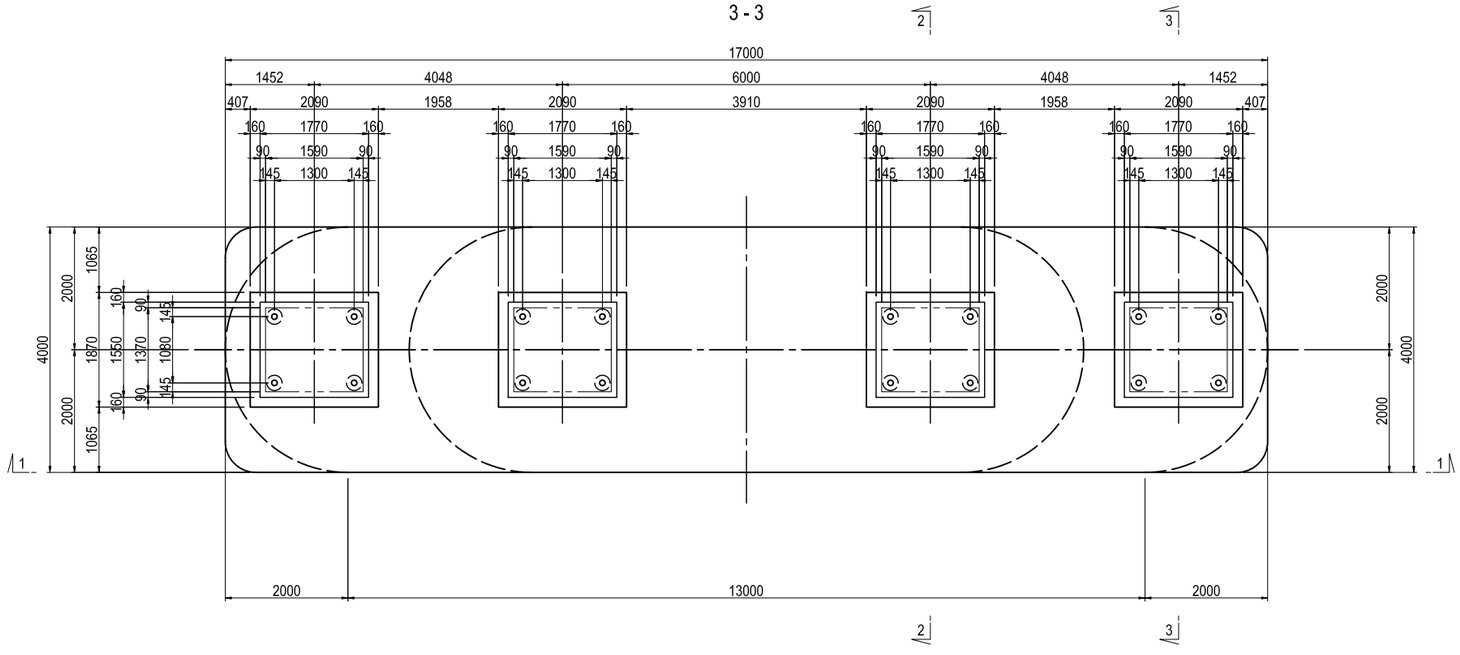
SIDE ELEVATION
2 - 2

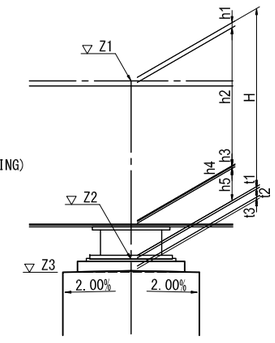


SIDE ELEVATION
3 - 3



PLAN
3 - 3





		P15 PIER			
		G1C	G2	G3	G4C
PROPOSED HEIGHT	Z1	16.961	17.042	17.042	16.961
PAVEMENT	h1	0.080	0.080	0.080	0.080
GIRDER	h2	2.709	2.790	2.790	2.709
BOTTOM FLANGE	h3	0.038	0.027	0.027	0.038
SOLE PLATE	h4	0.035	0.035	0.035	0.035
BEARING	h5	0.353	0.353	0.353	0.353
SUBTOTAL	H	3.215	3.285	3.285	3.215
ELEVATION OF BEARING BOTTOM	Z2	13.746	13.757	13.757	13.746
MORTAR	t1	0.026	0.037	0.037	0.026
BEARING BASE	t2	0.140	0.140	0.140	0.140
DRAINAGE INCLINE	t3	0.040	0.040	0.040	0.040
ELEVATION OF PIER TOP	Z3	13.540	13.540	13.540	13.540

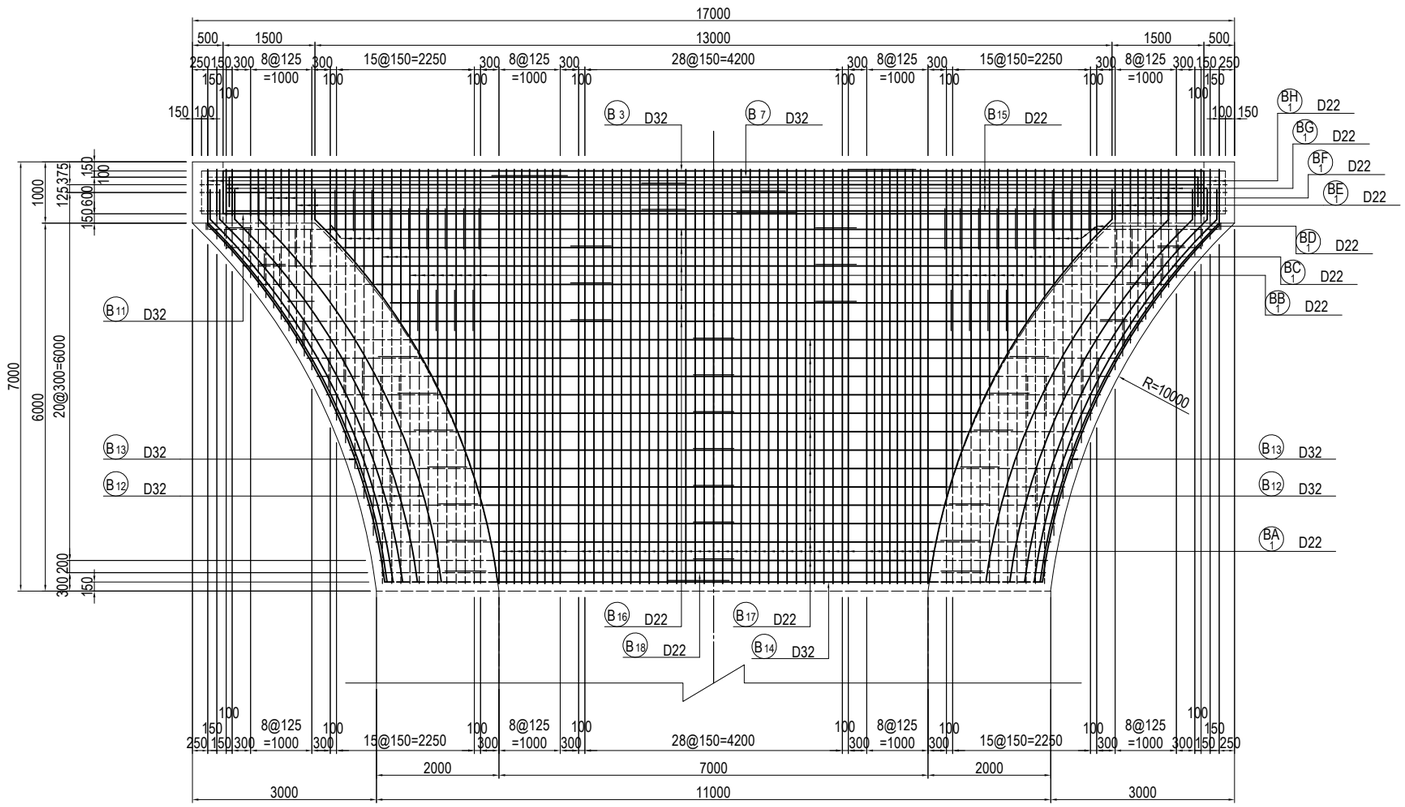
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	GENERAL VIEW OF P15 PIER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2102

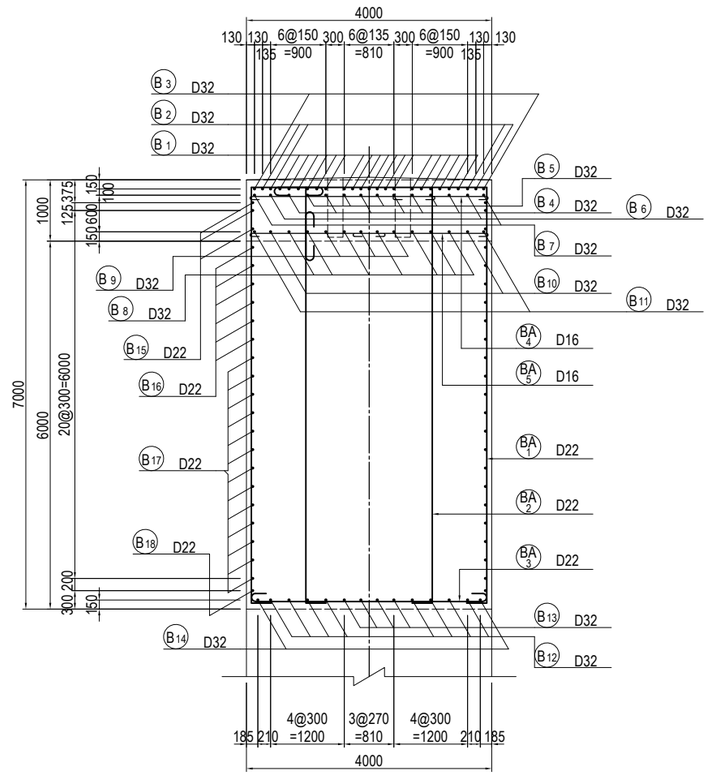
BAR ARRANGEMENT OF P15 PIER (1) S=1:100

BEAM

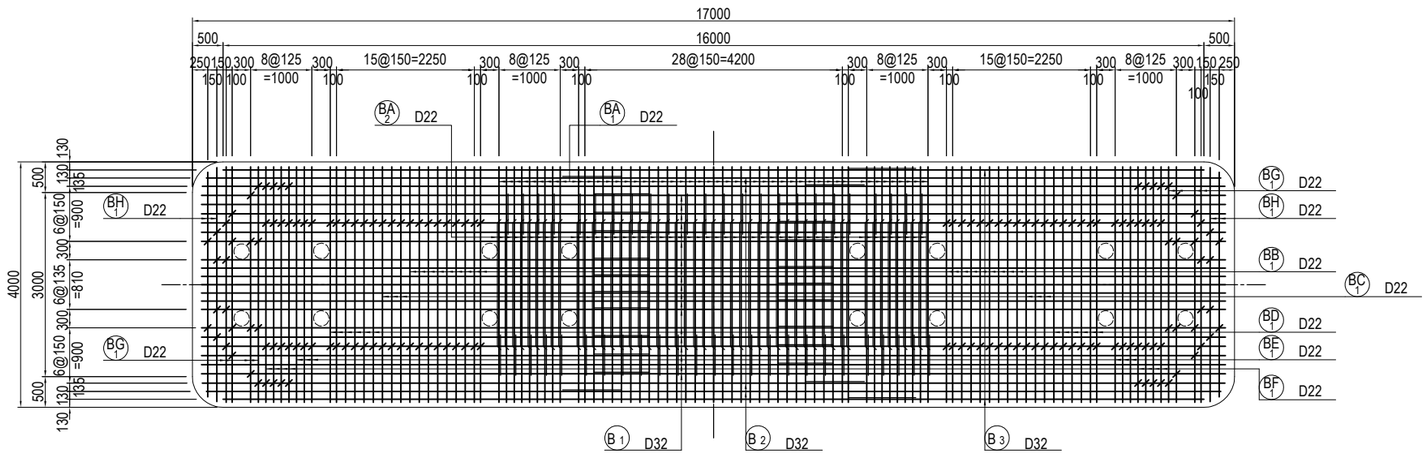
FRONT ELEVATION
1 - 1



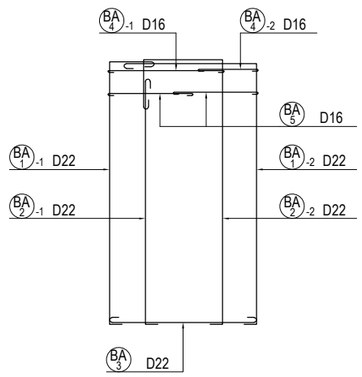
SECTION
3 - 3



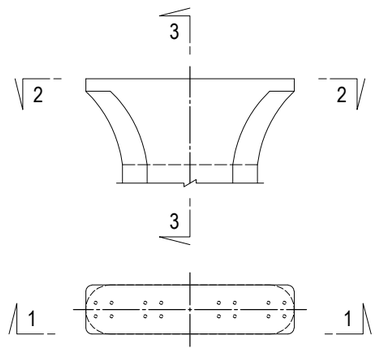
PLAN
2 - 2



ASSEMBLY DRAWING OF STIRRUP



MARKING DIAGRAM



USE MATERIALS

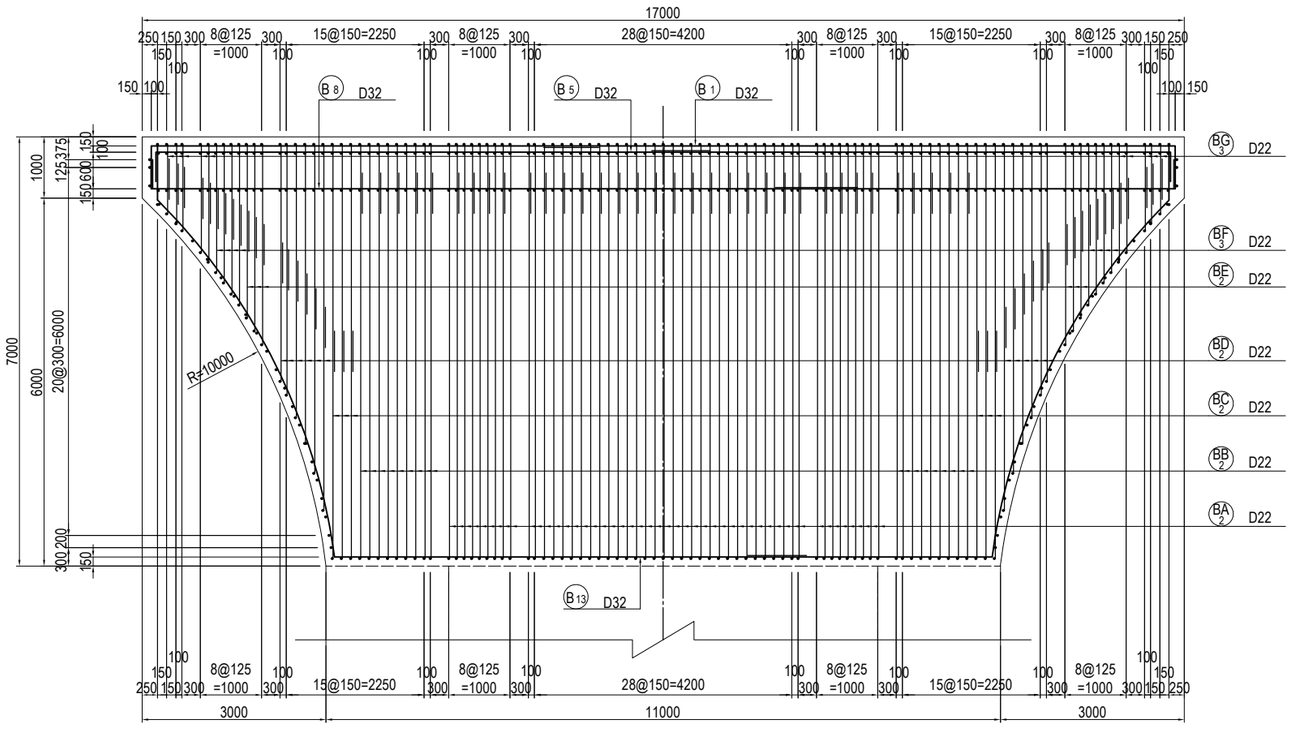
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P15 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2103

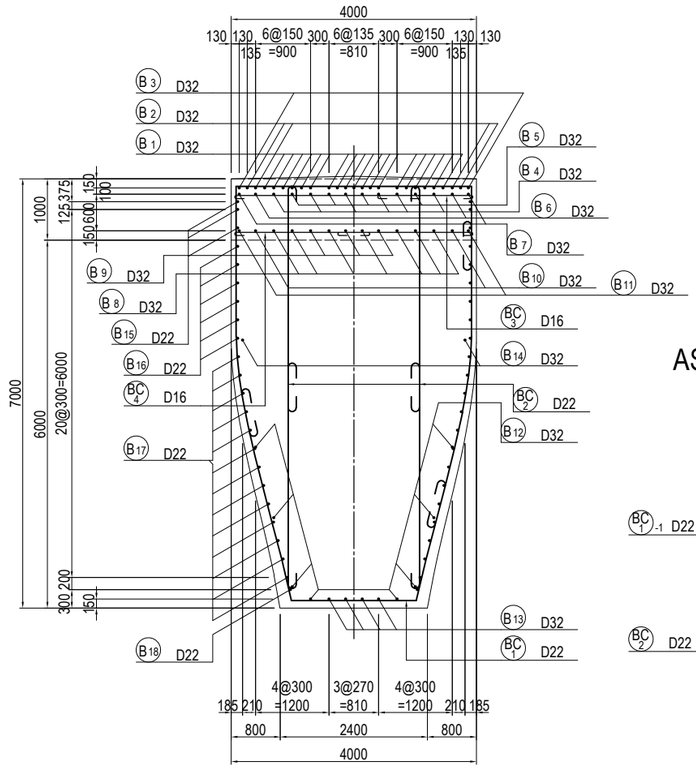
BAR ARRANGEMENT OF P15 PIER (2) S=1:100

BEAM

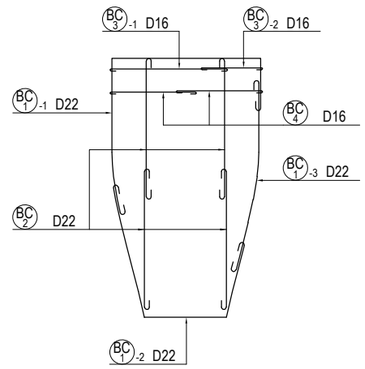
SECTION 4 - 4



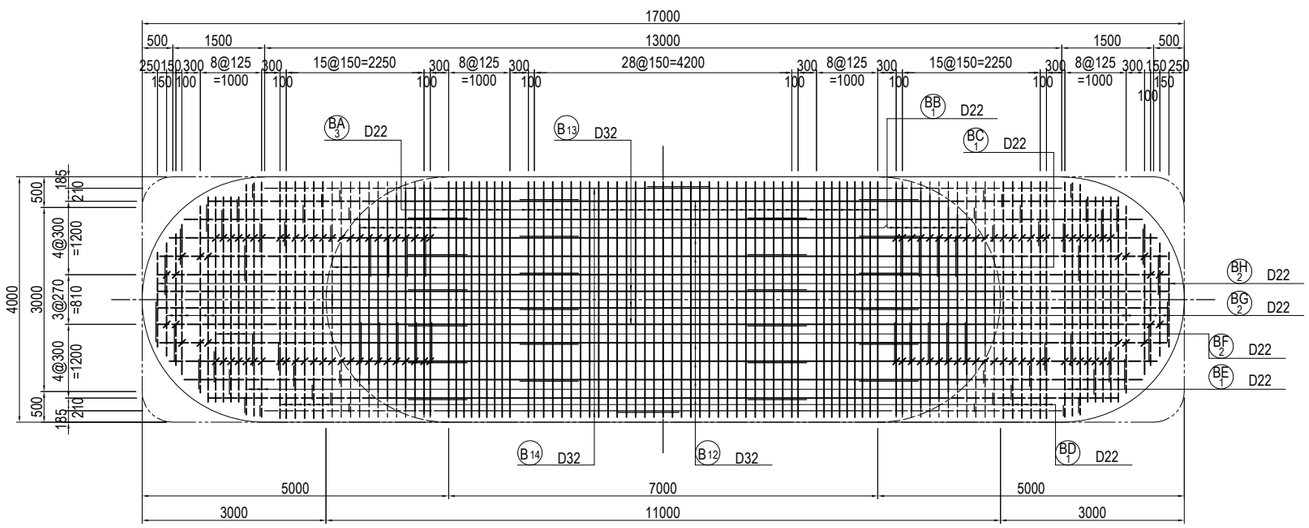
SECTION 7 - 7



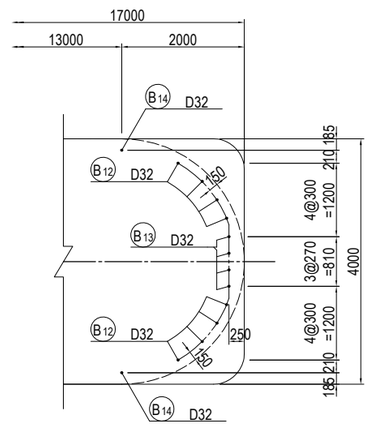
ASSEMBLY DRAWING OF STIRRUP



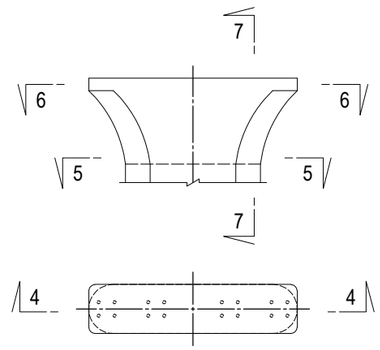
PLAN 5 - 5



PLAN 6 - 6



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

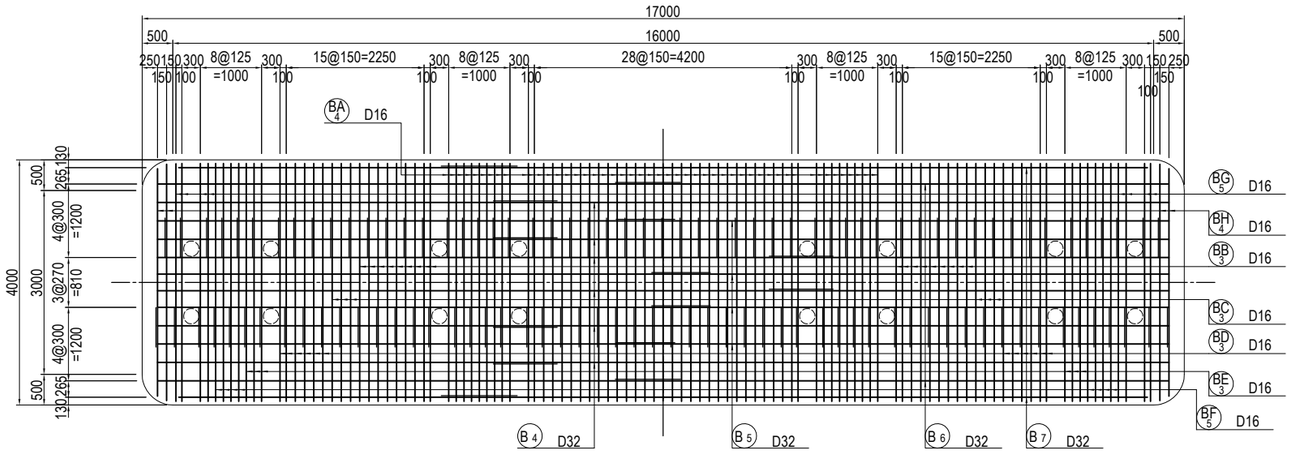
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P15 PIER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2104

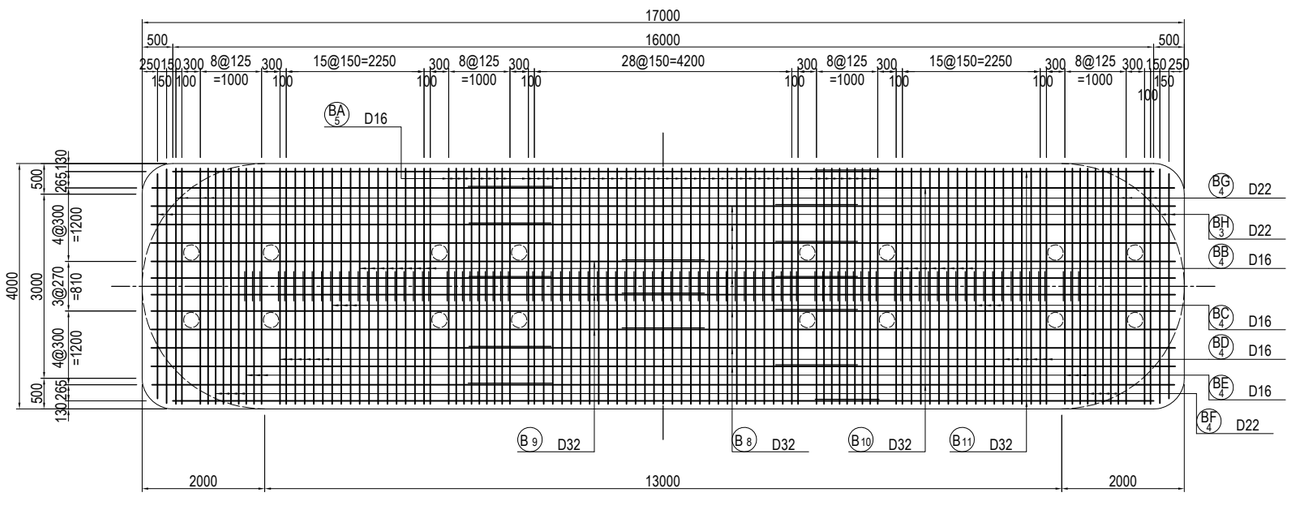
BAR ARRANGEMENT OF P15 PIER (3) S=1:100

BEAM

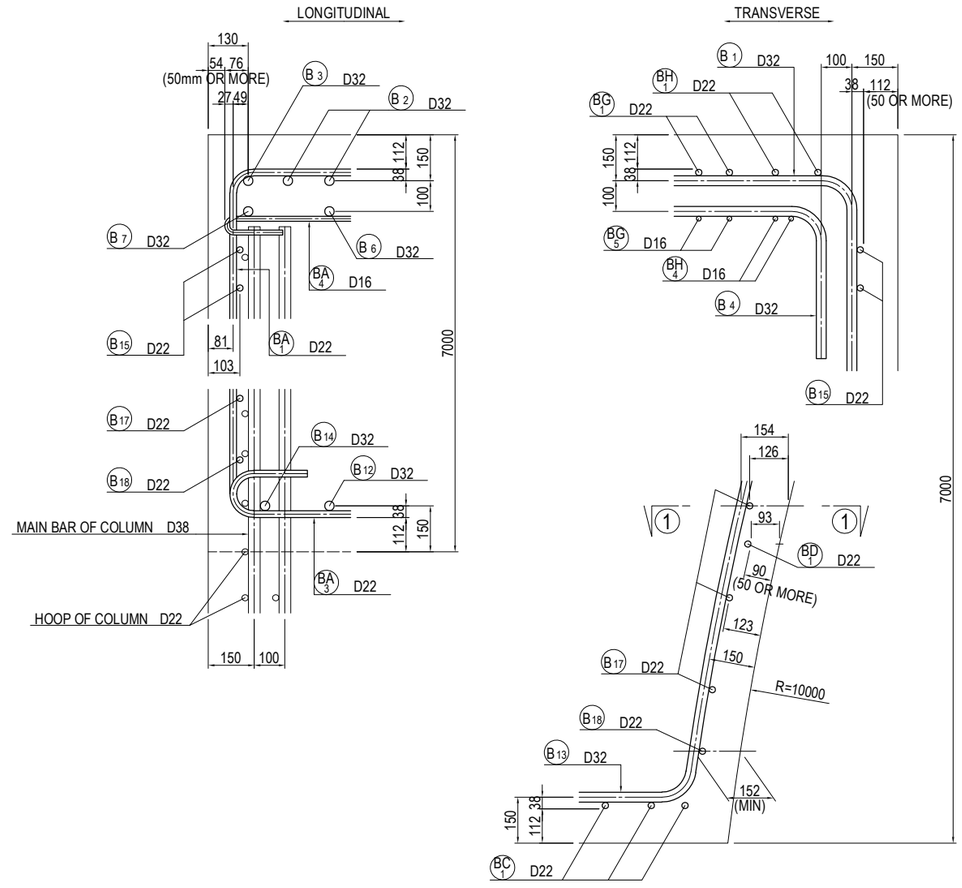
PLAN 8 - 8

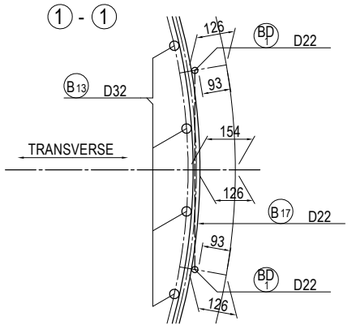


PLAN 9 - 9

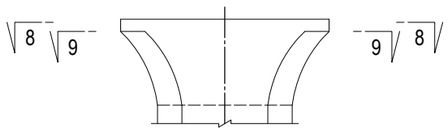


DETAIL OF BEAM S=1:20





MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P15 PIER (3)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2105

BAR ARRANGEMENT OF P15 PIER (4) S=1:100

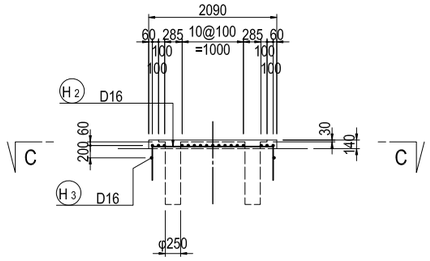
BEAM

BAR ARRANGEMENT OF BEARING BASE

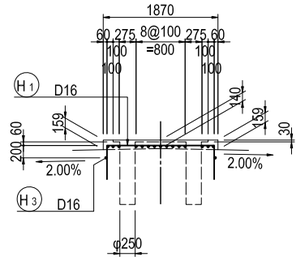
(N = 4)

SECTION

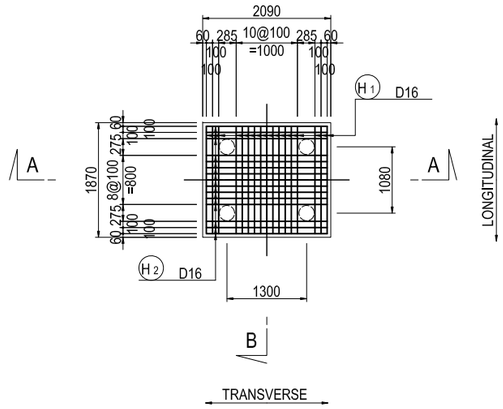
A - A

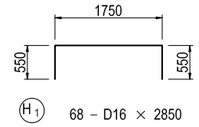


B - B

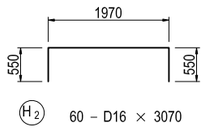


PLAN
C - C

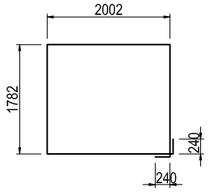




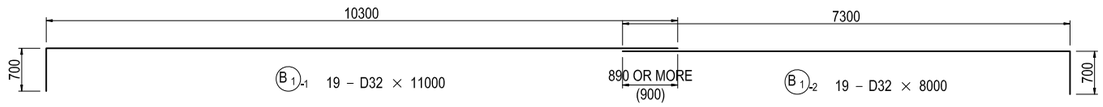
H1 68 – D16 × 2850

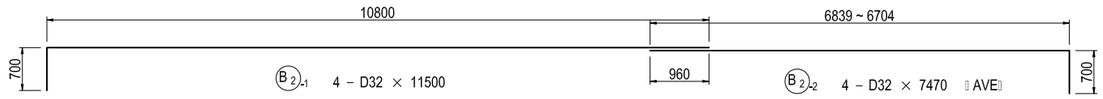


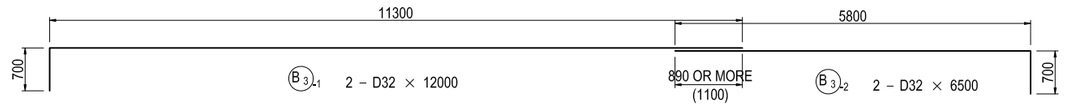
H2 60 – D16 × 3070

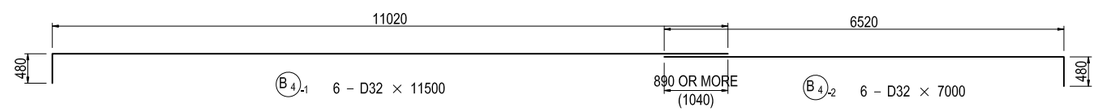


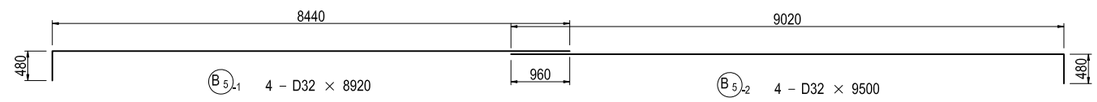
H3 4 – D16 × 8050

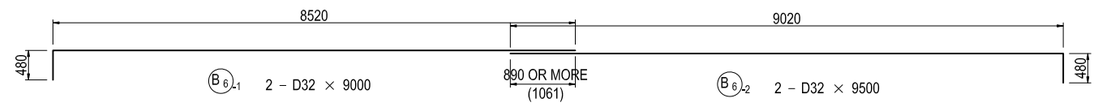


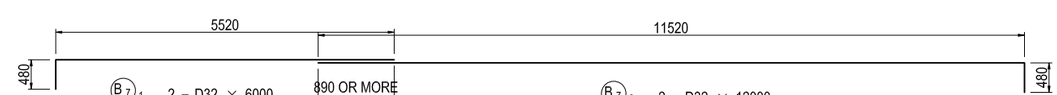












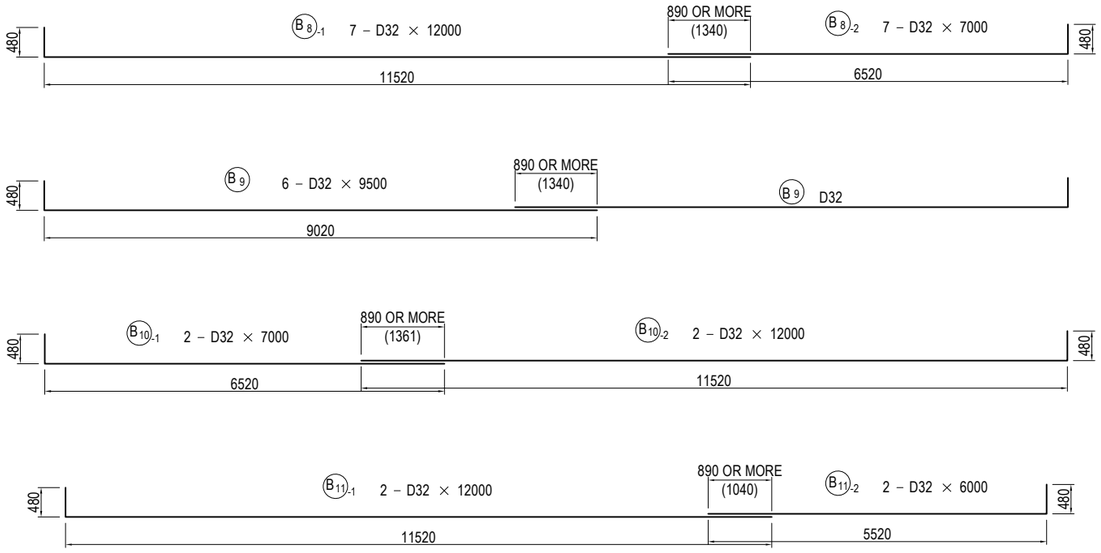
USE MATERIALS

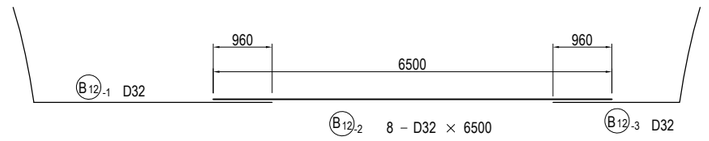
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

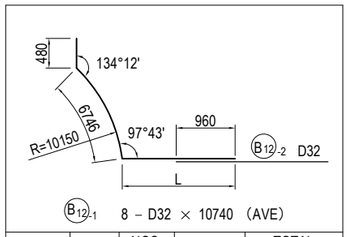
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P15 PIER (4)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2106

BAR ARRANGEMENT OF P15 PIER (5) S=1:100

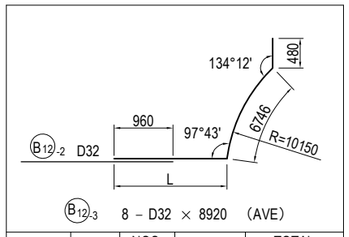
BEAM



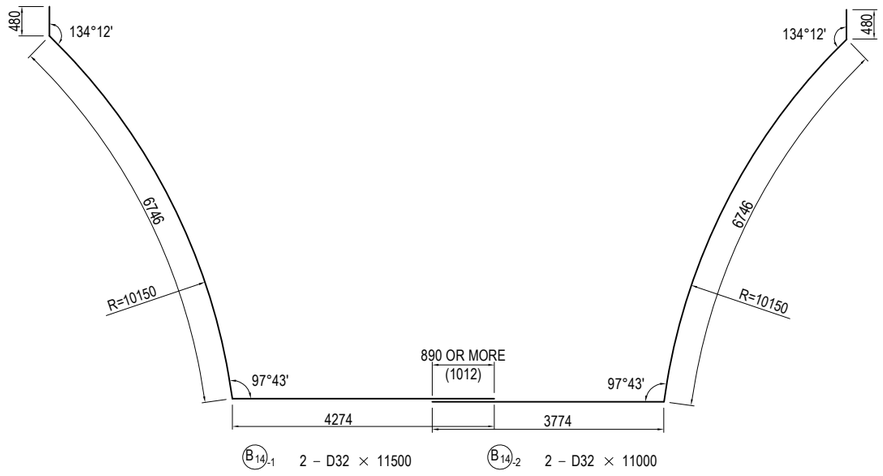


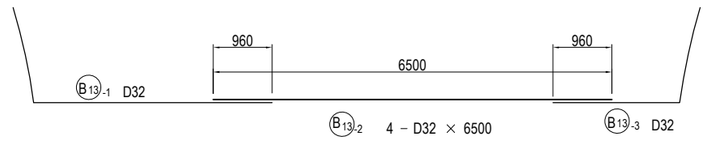


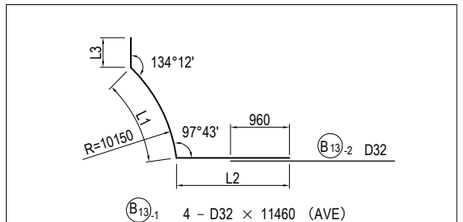
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B12 -1 1	D32	2	3058	10284
2	"	2	3449	10675
3	"	2	3691	10917
4	"	2	3848	11074
AVE		8		10738



MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B12 -3 1	D32	2	1238	8464
2	"	2	1629	8855
3	"	2	1871	9097
4	"	2	2028	9254
AVE		8		8918







MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
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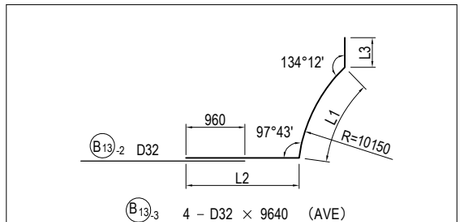
2	"	2	6613	3983	880	11476
AVE		4				11464



MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
B13 -3 1	D32	2	6669	2123	840	9632
2	"	2	6613	2163	880	9656
AVE		4				9644

USE MATERIALS

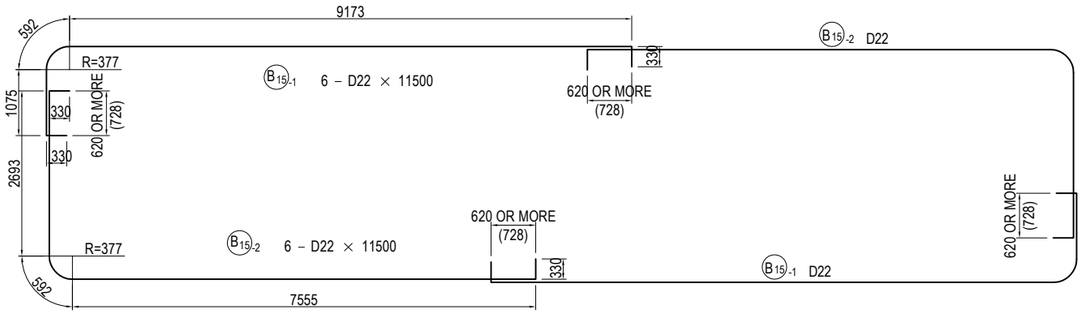
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

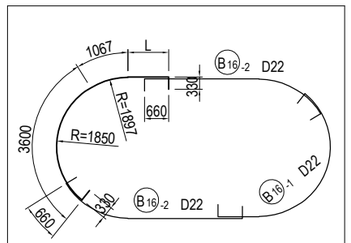
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P15 PIER (5)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2107

BAR ARRANGEMENT OF P15 PIER (6) S=1:100

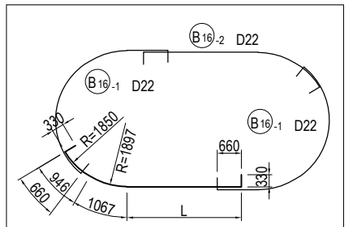
BEAM





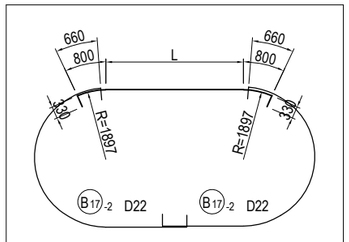
B16-1 12 – D22 × 9300 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-1 1	D22	2	4612	9939
2	"	2	4328	9655
3	"	2	4065	9392
4	"	2	3823	9150
5	"	2	3598	8925
6	"	2	3391	8718
AVE		12		9297



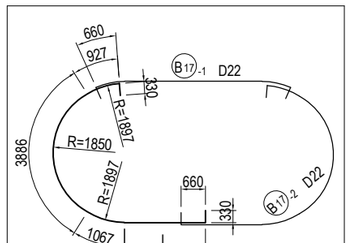
B16-2 12 – D22 × 10640 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-2 1	D22	2	8612	11285
2	"	2	8328	11001
3	"	2	8065	10738
4	"	2	7823	10496
5	"	2	7598	10271
6	"	2	7391	10064
AVE		12		10643



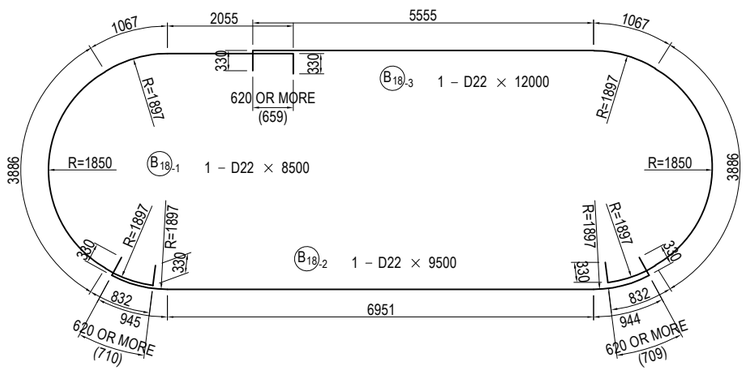
B17-1 13 – D22 × 10400 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B17-1 1	D22	1	9737	11997
2	"	1	9381	11641
3	"	1	9052	11312
4	"	1	8749	11009
5	"	1	8470	10730
6	"	1	8215	10475
7	"	1	7982	10242
8	"	1	7771	10031
9	"	1	7580	9840
10	"	1	7410	9670
11	"	1	7260	9520
12	"	1	7128	9388
13	"	1	7016	9276
AVE		13		10395



B17-2 26 – D22 × 10940 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B17-2 1	D22	2	5198	11738
2	"	2	5020	11560
3	"	2	4856	11396
4	"	2	4705	11245
5	"	2	4565	11105
6	"	2	4438	10978
7	"	2	4321	10861
8	"	2	4215	10755
9	"	2	4120	10660
10	"	2	4035	10575
11	"	2	3960	10500
12	"	2	3894	10434
13	"	2	3838	10378
AVE		26		10937



USE MATERIALS

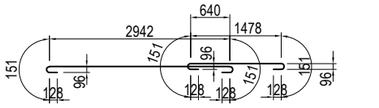
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

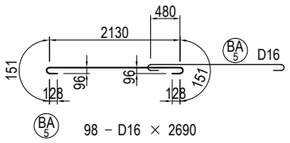
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME	SIGNATURE / DATE
				PREPARED BY	S. IMADA / 15 Jun.2017
				CHECKED BY	T. HAYAKAWA / 20 Jun.2017
				APPROVED BY	Y. SANO / 21 Jun.2017

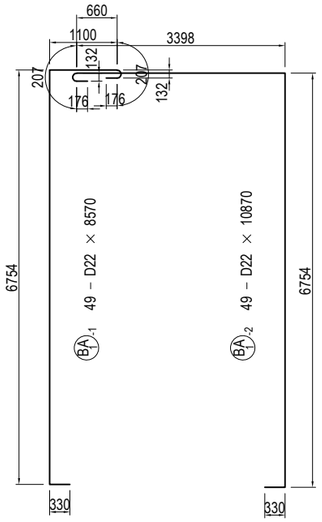
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P15 PIER (6)	2
	DWG No.
	P2-SB-2108

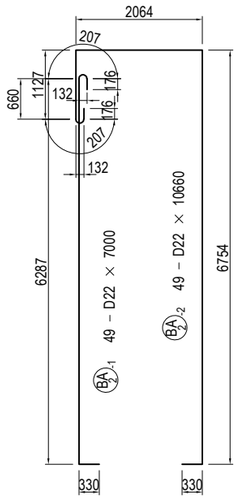
BAR ARRANGEMENT OF P15 PIER (7) S=1:100

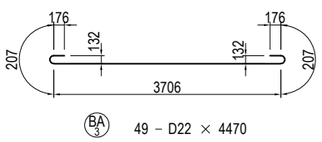
BEAM

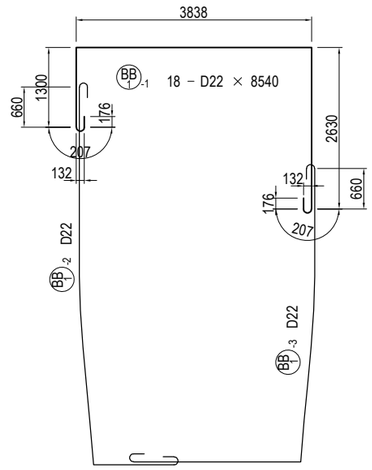


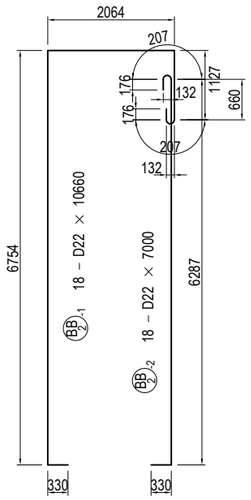


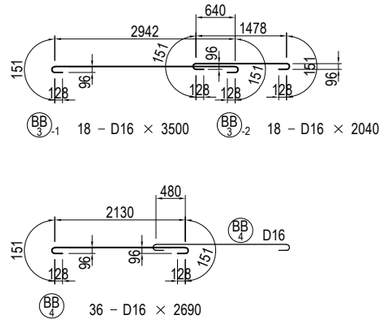


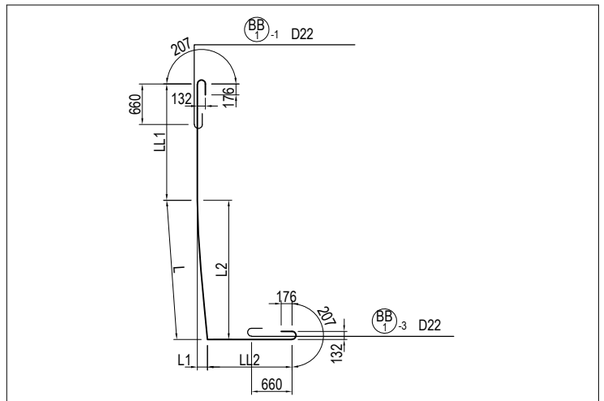






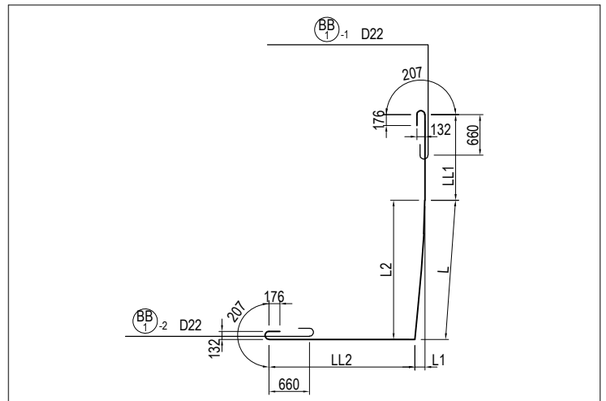






BB1-2 18 – D22 × 8160 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL1	LENGTH LL2	TOTAL LENGTH ΣL
BB1-2 1	D22	2	1464	33	1464	4650	1511	8391
2	"	2	1892	54	1891	4223	1490	8371
3	"	2	2282	97	2280	3834	1447	8329
4	"	2	2606	155	2601	3513	1389	8274
5	"	2	3029	227	3020	3094	1317	8206
6	"	2	3241	315	3225	2889	1229	8125
7	"	2	3607	416	3580	2534	1128	8035
8	"	2	3827	541	3785	2329	1003	7925
9	"	2	4115	698	4051	2063	846	7790
AVE		18						8161



BB1-3 18 – D22 × 8240 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL1	LENGTH LL2	TOTAL LENGTH ΣL
BB1-3 1	D22	2	1464	33	1464	3320	2921	8471
2	"	2	1892	54	1891	2893	2900	8451
3	"	2	2282	97	2280	2504	2857	8409
4	"	2	2606	155	2601	2183	2799	8354
5	"	2	3029	227	3020	1764	2727	8286
6	"	2	3241	315	3225	1559	2639	8205
7	"	2	3607	416	3580	1204	2538	8115
8	"	2	3827	541	3785	999	2413	8005
9	"	2	4115	698	4051	733	2256	7870
AVE		18						8241

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

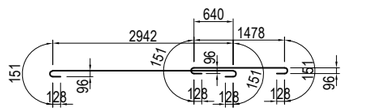
DRAWING TITLE: BAR ARRANGEMENT OF P15 PIER (7)

PACKAGE: 2

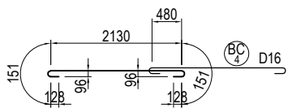
DWG No.: P2-SB-2109

BAR ARRANGEMENT OF P15 PIER (8) S=1:100

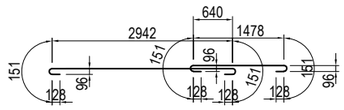
BEAM



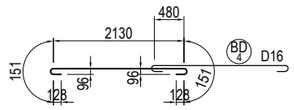
(BC3)-1 6 – D16 × 3500 (BC3)-2 6 – D16 × 2040



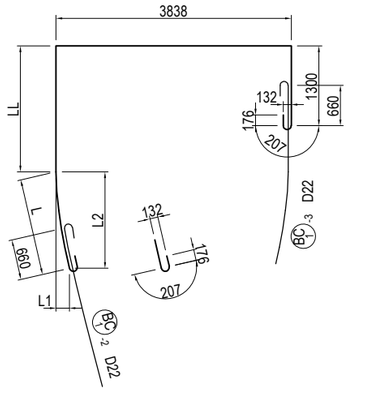
(BC4) 12 – D16 × 2690



(BD3)-1 12 – D16 × 3500 (BD3)-2 12 – D16 × 2040

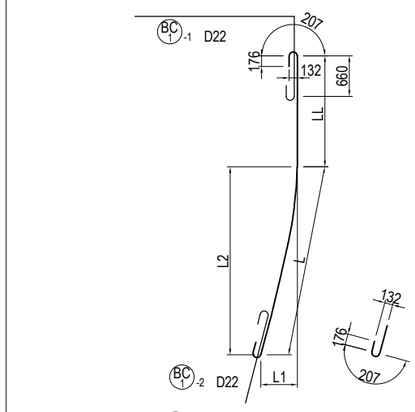


(BD4) 24 – D16 × 2690



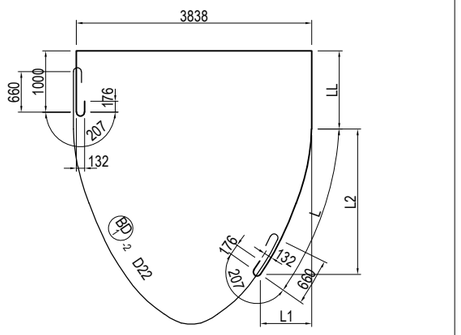
(BC1)-1 6 – D22 × 9950 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BC1-1 1	D22	2	1591	219	1573	2451	9946
2	"	2	1871	304	1837	2177	9952
3	"	2	2008	400	1961	2049	9961
AVE		6					9953



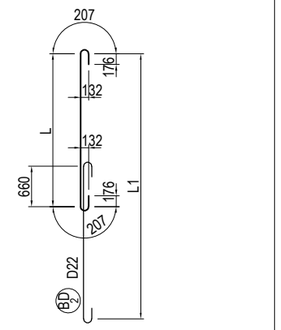
(BC1)-3 6 – D22 × 5730 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BC1-3 1	D22	2	3129	594	3064	1811	5706
2	"	2	3426	761	3327	1537	5729
3	"	2	3591	975	3434	1409	5766
AVE		6					5734



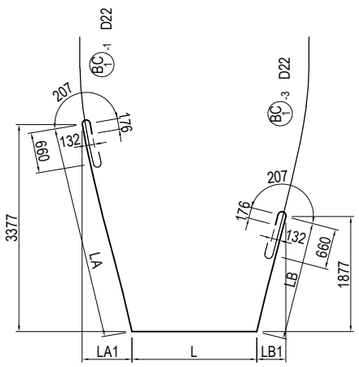
(BD1)-1 12 – D22 × 9420 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BD1-1 1	D22	2	1907	407	1855	1851	9362
2	"	2	2150	524	2071	1623	9377
3	"	2	2289	665	2171	1503	9396
4	"	2	2544	836	2369	1277	9425
5	"	2	2697	1045	2436	1167	9468
6	"	2	2879	1218	2528	1027	9510
AVE		12					9423



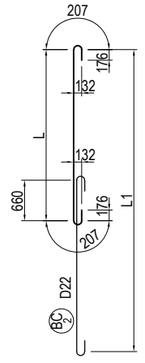
(BD2) 24 – D22 × 2980 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BD2 1	D22	4	2645	4630	3411
2	"	4	2445	4229	3211
3	"	4	2266	3872	3032
4	"	4	2105	3549	2871
5	"	4	1957	3253	2723
6	"	4	1864	3068	2630
AVE		24			2980



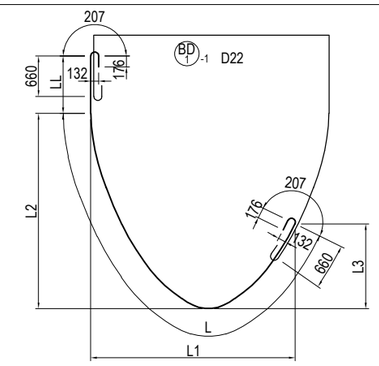
(BC1)-2 6 – D22 × 7630 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LB	LENGTH LB1	LENGTH L	TOTAL LENGTH ΣL
BC1-2 1	D22	2	3474	811	1936	474	2038	8214
2	"	2	3536	1043	1981	760	1465	7748
3	"	2	3791	1621	2209	1120	171	6937
AVE		6						7633



(BC2) 12 – D22 × 3960 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BC2 1	D22	4	3543	6425	4309
2	"	4	3159	5657	3925
3	"	4	2877	5093	3643
AVE		12			3959



(BD1)-2 12 – D22 × 8250 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BD1-2 1	D22	2	8159	3633	4120	2894	1511	10436
2	"	2	7303	3548	3741	2287	1283	9352
3	"	2	6546	3453	3373	1799	1163	8475
4	"	2	5999	3336	3183	1383	937	7702
5	"	2	5399	3189	2925	1015	827	6992
6	"	2	5104	3072	2841	791	687	6557
AVE		12						8252

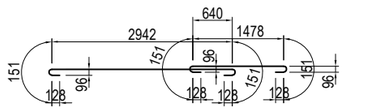
USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

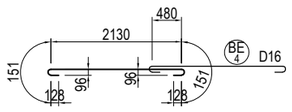
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P15 PIER (8)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2110

BAR ARRANGEMENT OF P15 PIER (9) S=1:100

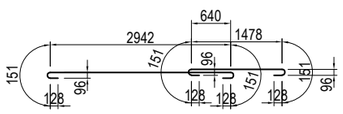
BEAM



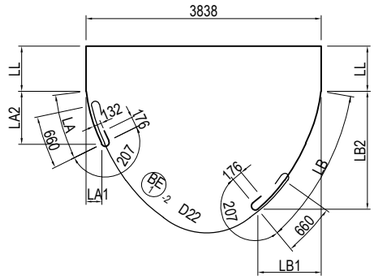
BE3-1 6 – D16 × 3500 BE3-2 6 – D16 × 2040



BE4 12 – D16 × 2690

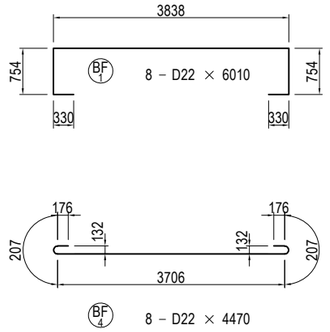


BF5-1 8 – D16 × 3500 BF5-2 8 – D16 × 2040

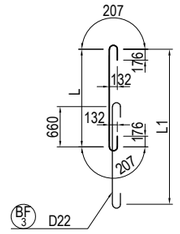


BF1-1 6 – D22 × 9620 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LA2	LENGTH LB	LENGTH LB1	LENGTH LB2	LENGTH LL	TOTAL LENGTH ΣL
BE1-1 1	D22	2	820	196	793	2475	1141	2129	818	9535
2	"	2	905	257	863	2624	1351	2154	736	9605
3	"	2	970	325	906	2780	1612	2117	679	9712
AVE		6								9617

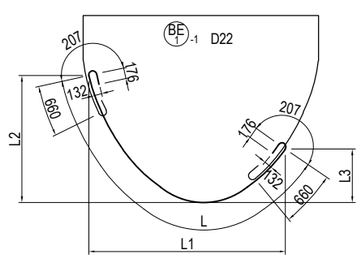


BF4 8 – D22 × 4470



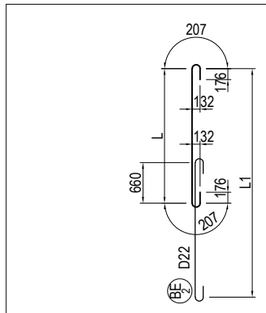
BF3 16 – D22 × 1980 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BF3 1	D22	4	1335	2009	2101
2	"	4	1251	1841	2017
3	"	4	1170	1680	1936
4	"	4	1093	1526	1859
AVE		16			1978



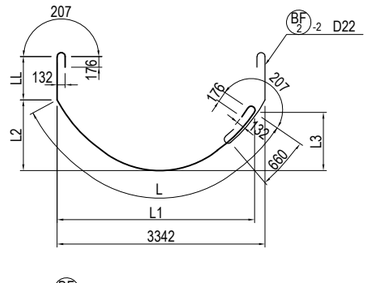
BE1-2 6 – D22 × 4990 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
BE1-2 1	D22	2	4693	3139	2292	792	5459
2	"	2	4230	2959	2069	569	4996
3	"	2	3755	2725	1858	358	4521
AVE		6					4992



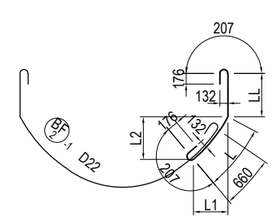
BE2 12 – D22 × 2280 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BE2 1	D22	4	1611	2561	2377
2	"	4	1514	2368	2280
3	"	4	1423	2185	2189
AVE		12			2282



BF2-1 8 – D22 × 5850 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BF2-1 1	D22	2	4397	3300	1340	1258	1228	6391
2	"	2	4172	3218	1287	1068	1092	6030
3	"	2	3933	3126	1233	887	964	5663
4	"	2	3721	3016	1196	713	829	5316
AVE		8						5850



BF2-2 8 – D22 × 2790 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BF2-2 1	D22	2	753	407	631	1228	2747
2	"	2	912	530	737	1092	2770
3	"	2	1069	665	828	964	2799
4	"	2	1243	821	914	829	2838
AVE		8					2789

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

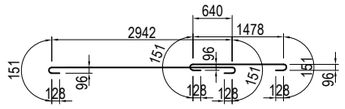
DRAWING TITLE: BAR ARRANGEMENT OF P15 PIER (9)

PACKAGE: 2

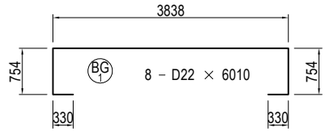
DWG No. P2-SB-2111

BAR ARRANGEMENT OF P15 PIER (10) S=1:100

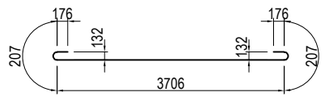
BEAM



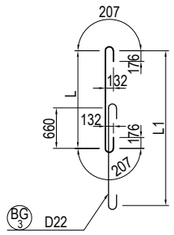
BG5-1 8 – D16 × 3500 BG5-2 8 – D16 × 2040



BG1 8 – D22 × 6010

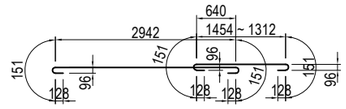


BG4 8 – D22 × 4470



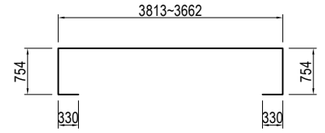
BG3 20 – D22 × 1700 (AVE)

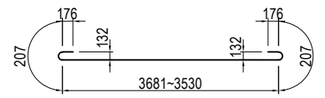
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BG3 1	D22	4	1113	1565	1879
2	"	4	1038	1415	1804
3	"	4	869	1077	1635
4	"	4	866	1071	1632
5	"	4	787	914	1553
AVE		20			1701



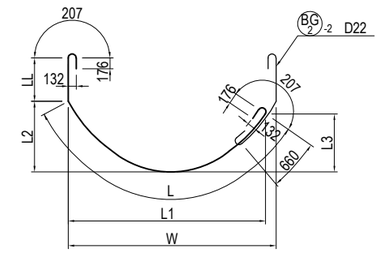
BH4-1 4 – D16 × 3500 BH4-2 4 – D16 × 1940 (AVE)

BH1 4 – D22 × 5910 (AVE)



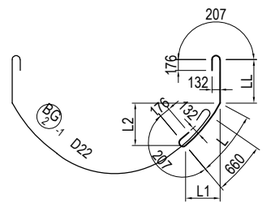


BH3 4 – D22 × 4370 (AVE)



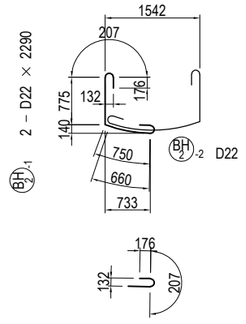
BG2-1 10 – D22 × 4390 (AVE)

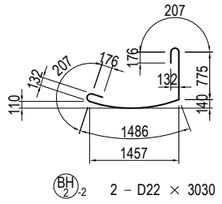
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH W	LENGTH LL	TOTAL LENGTH ΣL
BG2-1 1	D22	2	4015	3220	1151	948	3342	707	5488
2	"	2	3528	2977	876	789	3042	824	5118
3	"	2	2594	2371	491	432	2442	852	4212
4	"	2	2227	2077	369	321	2142	863	3856
5	"	2	1715	1639	271	159	1842	799	3280
AVE		10							4391



BG2-2 10 – D22 × 2390 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BG2-2 1	D22	2	898	561	694	707	2371
2	"	2	769	545	536	824	2359
3	"	2	752	645	379	852	2370
4	"	2	740	662	320	863	2369
5	"	2	892	840	269	799	2457
AVE		10					2385





BH2-2 2 – D22 × 3030

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

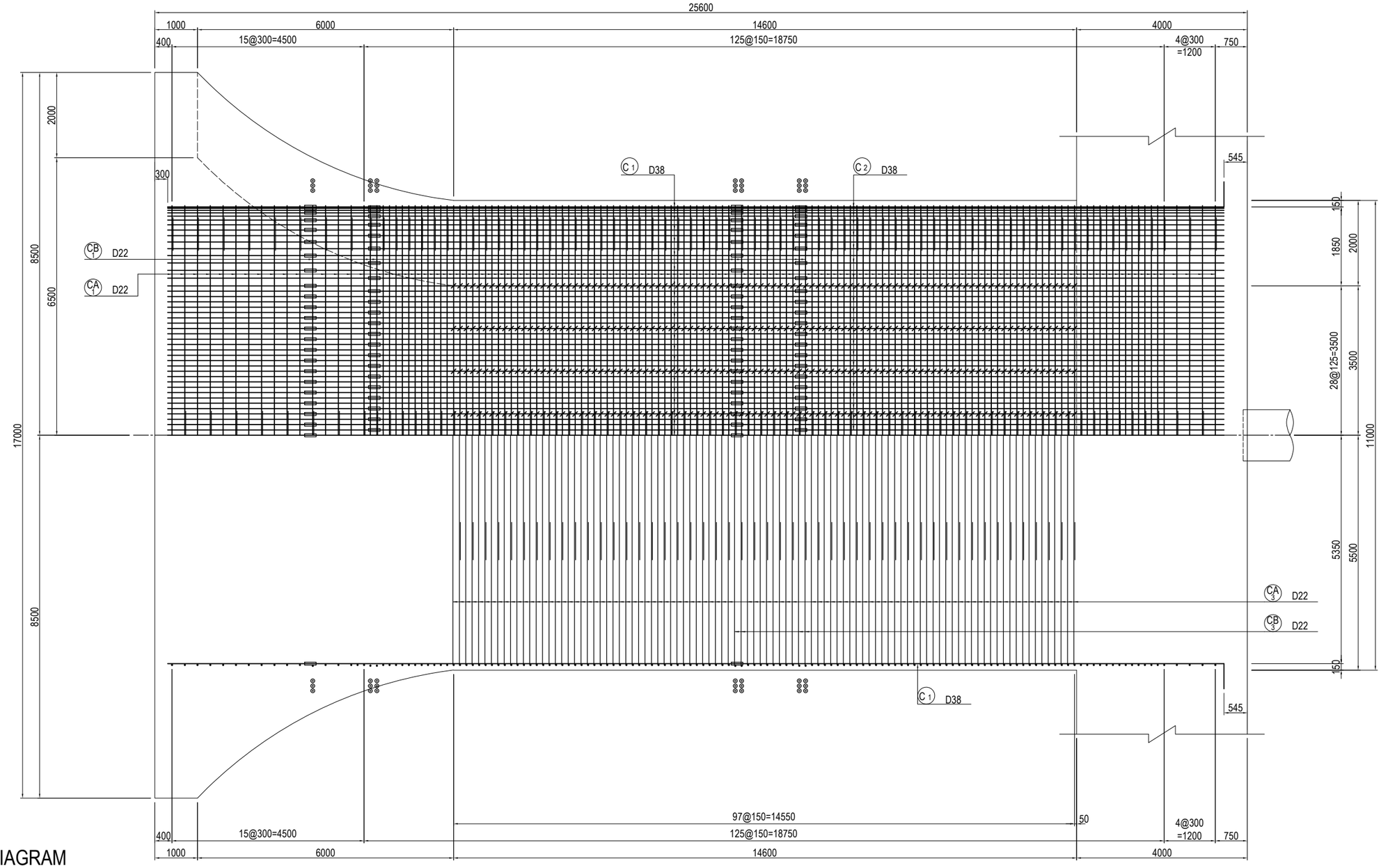
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P15 PIER (10)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2112

BAR ARRANGEMENT OF P15 PIER (11) S=1:100

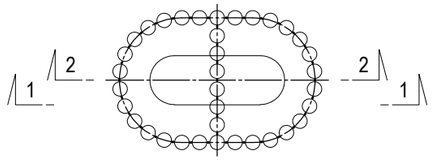
COLUMN

FRONT ELEVATION
1 - 1



SECTION
2 - 2

MARKING DIAGRAM



Notes) 1. ⊙⊙⊙ : This mark indicates hoop arranged in the location of mechanical joint.
2. —▭— : This mark indicates a mechanical joint.

USE MATERIALS

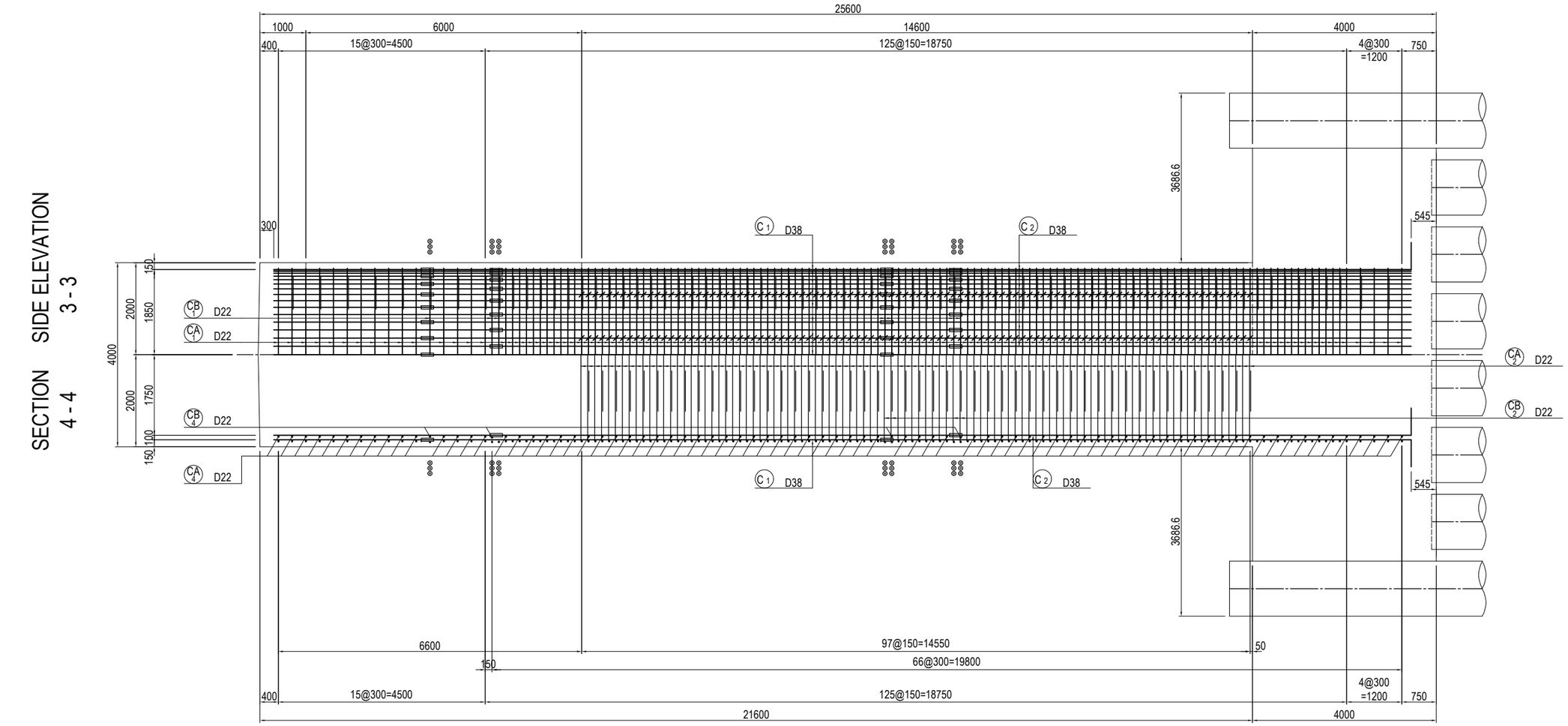
	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P15 PIER (11)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2113

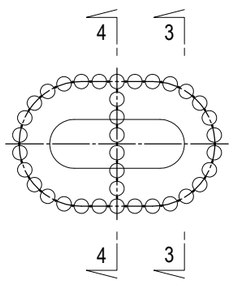
BAR ARRANGEMENT OF P15 PIER (12) S=1:100

COLUMN

SECTION 4 - 4 SIDE ELEVATION 3 - 3



MARKING DIAGRAM



Notes) 1. ⊛⊛⊛ : This mark indicates hoop arranged in the location of mechanical joint.
2. —▭— : This mark indicates a mechanical joint.

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	DRAWING TITLE: BAR ARRANGEMENT OF P15 PIER (12)

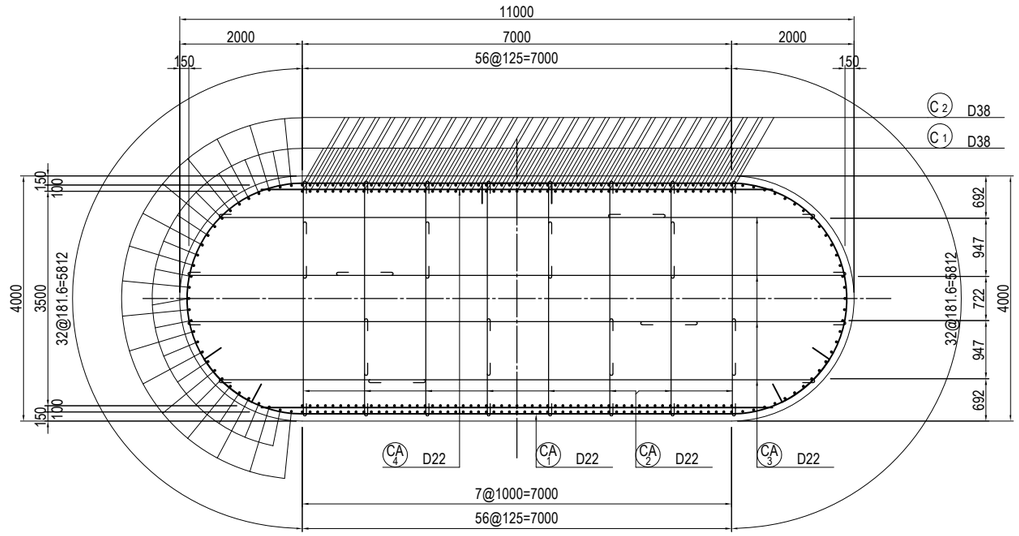
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

PACKAGE	
2	
DWG No.	
P2-SB-2114	

BAR ARRANGEMENT OF P15 PIER (13) S=1:100

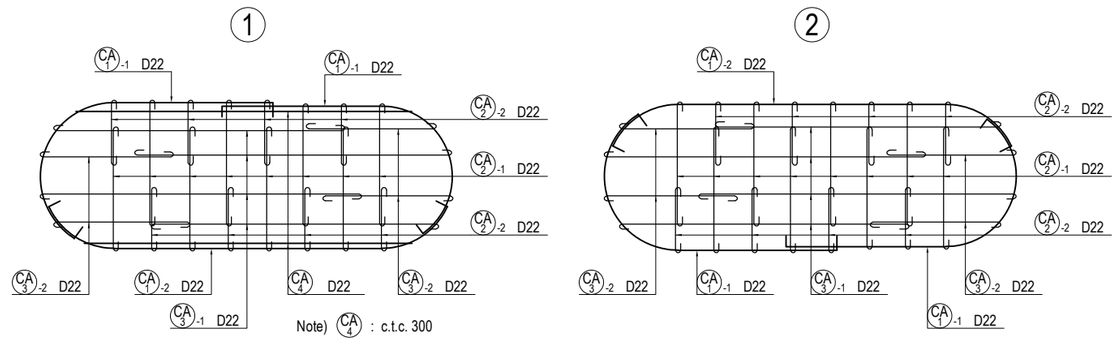
COLUMN

PLAN
5 - 5

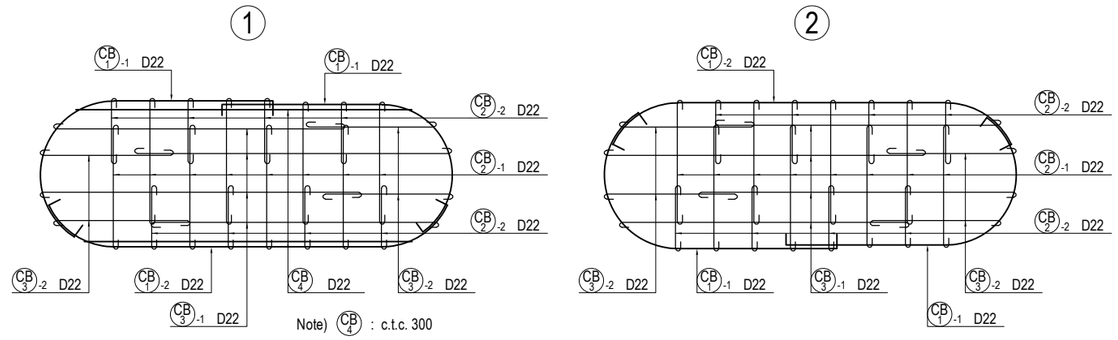


ASSEMBLY DRAWING OF HOOP
(c.t.c. 150)

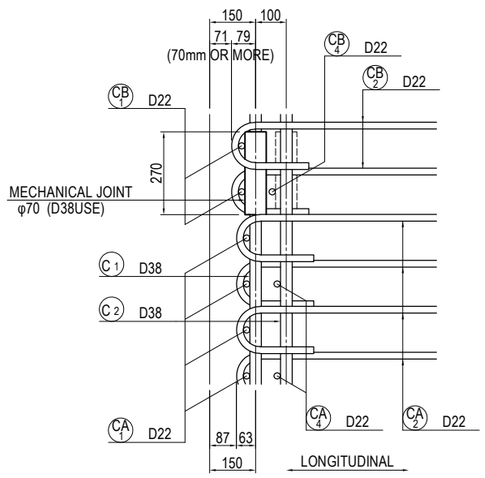
【STANDARD PART】



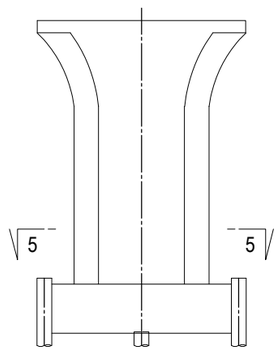
【MECHANICAL JOINT PART】



DETAIL OF COLUMN S=1:20



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

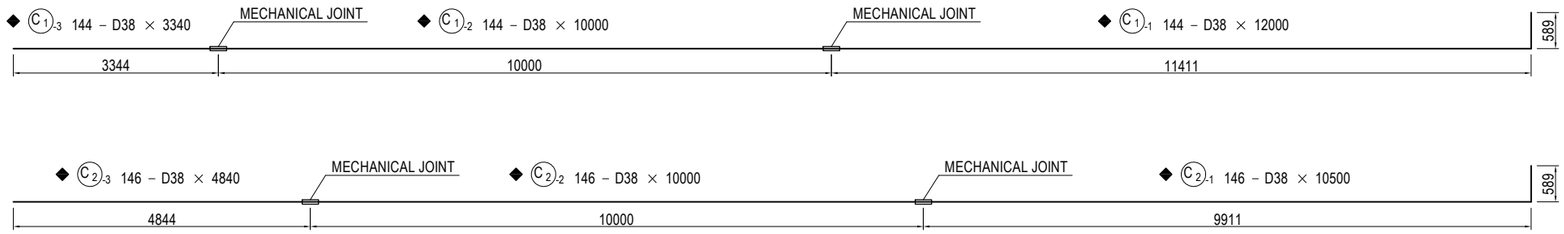
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

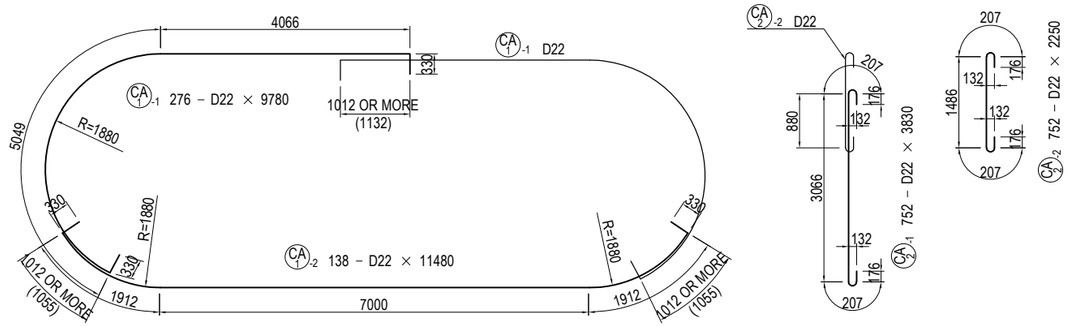
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

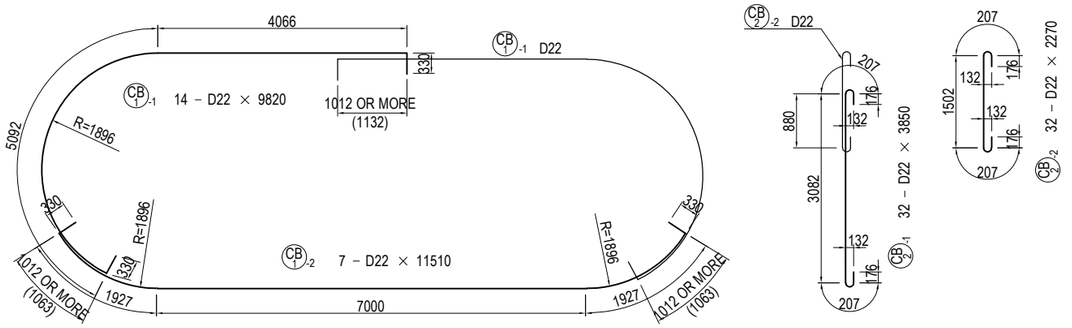
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P15 PIER (13)	2
	DWG No.
	P2-SB-2115

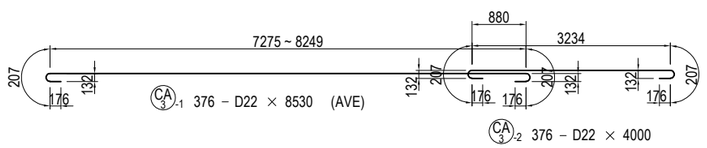
BAR ARRANGEMENT OF P15 PIER (14) S=1:100

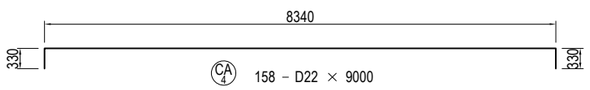
COLUMN

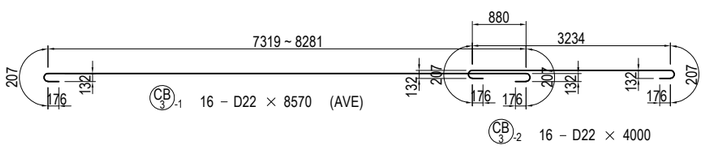


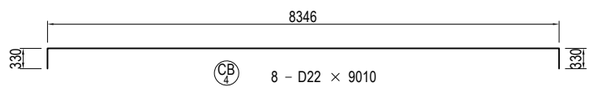




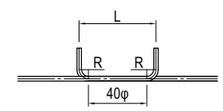








LAP LENGTH LIST OF HOOP



DIA.	R	LAP LENGTH (40φ)	L
D13	39	520	598
D16	48	640	736
D19	57	760	874
D22	66	880	1012
D25	75	1000	1150
D29	87	1160	1334
D32	96	1280	1472

Notes) 1. ◆ : SD390
2. ⊟ : MECHANICAL JOINT

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
				PREPARED BY	S. IMADA	15 Jun.2017	BAR ARRANGEMENT OF P15 PIER (14)	2
				CHECKED BY	T. HAYAKAWA	20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO	21 Jun.2017		P2-SB-2116

BAR ARRANGEMENT OF P15 PIER (15) NOT TO SCALE

BAR SCHEDULE (SD390)

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
C 1-1	D38	12000	144	8.95	107.40	15466	(144)
1-2	"	10000	144	"	89.50	12888	(144)
1-3	"	3340	144	"	29.89	4304	
2-1	"	10500	146	"	93.98	13721	(146)
2-2	"	10000	146	"	89.50	13067	(146)
2-3	"	4840	146	"	43.32	6325	
					SUBTOTAL	65771 kg	
							(MECHANICAL JOINT)
	SD390		D38		65771 kg	(580)	
			TOTAL		65771 kg	(580)	

BAR SCHEDULE (SD345)

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
B 1-1	D32	11000	19	6.23	68.53	1302	
1-2	"	8000	19	"	49.84	947	
2-1	"	11500	4	"	71.65	287	
2-2	"	7470	4	"	46.54	186	(AVE)
3-1	"	12000	2	"	74.76	150	
3-2	"	6500	2	"	40.50	81	
4-1	"	11500	6	"	71.65	430	
4-2	"	7000	6	"	43.61	262	
5-1	"	8920	4	"	55.57	222	
5-2	"	9500	4	"	59.19	237	
6-1	"	9000	2	"	56.07	112	
6-2	"	9500	2	"	59.19	118	
7-1	"	6000	2	"	37.38	75	
7-2	"	12000	2	"	74.76	150	
8-1	"	12000	7	"	74.76	523	
8-2	"	7000	7	"	43.61	305	
9	"	9500	6	"	59.19	355	
10-1	"	7000	2	"	43.61	87	"
10-2	"	12000	2	"	74.76	150	
11-1	"	12000	2	"	74.76	150	
11-2	"	6000	2	"	37.38	75	
12-1	"	10740	8	"	66.91	535	(AVE)
12-2	"	6500	8	"	40.50	324	
12-3	"	8920	8	"	55.57	445	(AVE)
13-1	"	11460	4	"	71.40	286	(AVE)
13-2	"	6500	4	"	40.50	162	
13-3	"	9640	4	"	60.06	240	(AVE)
14-1	"	11500	2	"	71.65	143	
14-2	"	11000	2	"	68.53	137	
15-1	D22	11500	6	3.04	34.96	210	
15-2	"	11500	6	"	34.96	210	
16-1	"	9300	12	"	28.27	339	(AVE)
16-2	"	10640	12	"	32.35	388	(AVE)
17-1	"	10400	13	"	31.62	411	(AVE)
17-2	"	10940	26	"	33.26	865	(AVE)
18-1	"	8500	1	"	25.84	26	
18-2	"	9500	1	"	28.88	29	
18-3	"	12000	1	"	36.48	36	
					SUBTOTAL	10990 kg	
BA 1-1	D22	8570	49	3.04	26.05	1276	
1-2	"	10870	49	"	33.04	1619	
2-1	"	7000	49	"	21.28	1043	
2-2	"	10660	49	"	32.41	1588	
3	"	4470	49	"	13.59	666	
4-1	D16	3500	49	1.56	5.46	268	
4-2	"	2040	49	"	3.18	156	"
5	"	2690	98	"	4.20	412	"
					SUBTOTAL	7028 kg	

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
BB 1-1	D22	8540	18	3.04	25.96	467	
1-2	"	8160	18	"	24.81	447	(AVE)
1-3	"	8240	18	"	25.05	451	(AVE)
2-1	"	10660	18	"	32.41	583	
2-2	"	7000	18	"	21.28	383	
3-1	D16	3500	18	1.56	5.46	98	
3-2	"	2040	18	"	3.18	57	"
4	"	2690	36	"	4.20	151	"
					SUBTOTAL	2637 kg	
BC 1-1	D22	9950	6	3.04	30.25	182	(AVE)
1-2	"	7630	6	"	23.20	139	(AVE)
1-3	"	5730	6	"	17.42	105	(AVE)
2	"	3960	12	"	12.04	144	(AVE)
3-1	D16	3500	6	1.56	5.46	33	
3-2	"	2040	6	"	3.18	19	"
4	"	2690	12	"	4.20	50	"
					SUBTOTAL	672 kg	
BD 1-1	D22	9420	12	3.04	28.64	344	(AVE)
1-2	"	8250	12	"	25.08	301	(AVE)
2	"	2980	24	"	9.06	217	(AVE)
3-1	D16	3500	12	1.56	5.46	66	
3-2	"	2040	12	"	3.18	38	"
4	"	2690	24	"	4.20	101	"
					SUBTOTAL	1067 kg	
BE 1-1	D22	9620	6	3.04	29.24	175	(AVE)
1-2	"	4990	6	"	15.17	91	(AVE)
2	"	2280	12	"	6.93	83	(AVE)
3-1	D16	3500	6	1.56	5.46	33	
3-2	"	2040	6	"	3.18	19	"
4	"	2690	12	"	4.20	50	"
					SUBTOTAL	451 kg	
BF 1	D22	6010	8	3.04	18.27	146	
2-1	"	5850	8	"	17.78	142	(AVE)
2-2	"	2790	8	"	8.48	68	(AVE)
3	"	1980	16	"	6.02	96	(AVE)
4	"	4470	8	"	13.59	109	
5-1	D16	3500	8	1.56	5.46	44	
5-2	"	2040	8	"	3.18	25	"
					SUBTOTAL	630 kg	
BG 1	D22	6010	8	3.04	18.27	146	
2-1	"	4390	10	"	13.35	134	(AVE)
2-2	"	2390	10	"	7.27	73	(AVE)
3	"	1700	20	"	5.17	103	(AVE)
4	"	4470	8	"	13.59	109	
5-1	D16	3500	8	1.56	5.46	44	
5-2	"	2040	8	"	3.18	25	"
					SUBTOTAL	634 kg	

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
BH 1	D22	5910	4	3.04	17.97	72	(AVE)
2-1	"	2290	2	"	6.96	14	
2-2	"	3030	2	"	9.21	18	
3	"	4370	4	"	13.28	53	(AVE)
4-1	D16	3500	4	1.56	5.46	22	
4-2	"	1940	4	"	3.03	12	(AVE)
					SUBTOTAL	191 kg	
H 1	D16	2850	68	1.56	4.45	303	
2	"	3070	60	"	4.79	287	"
3	"	8050	4	"	12.56	50	
					SUBTOTAL	640 kg	
CA 1-1	D22	9780	276	3.04	29.73	8205	
1-2	"	11480	138	"	34.90	4816	
2-1	"	3830	752	"	11.64	8753	
2-2	"	2250	752	"	6.84	5144	"
3-1	"	8530	376	"	25.93	9750	(AVE)
3-2	"	4000	376	"	12.16	4572	"
4	"	9000	158	"	27.36	4323	
					SUBTOTAL	45563 kg	
CB 1-1	D22	9820	14	3.04	29.85	418	
1-2	"	11510	7	"	34.99	245	
2-1	"	3850	32	"	11.70	374	
2-2	"	2270	32	"	6.90	221	"
3-1	"	8570	16	"	26.05	417	(AVE)
3-2	"	4000	16	"	12.16	195	"
4	"	9010	8	"	27.39	219	
					SUBTOTAL	2089 kg	
	SD345		D32		8476 kg		
			D22		61753 "		
			D16		2363 "		
			TOTAL		72592 kg		

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm 2	MAIN BAR	SD390
		OTHERS	SD345

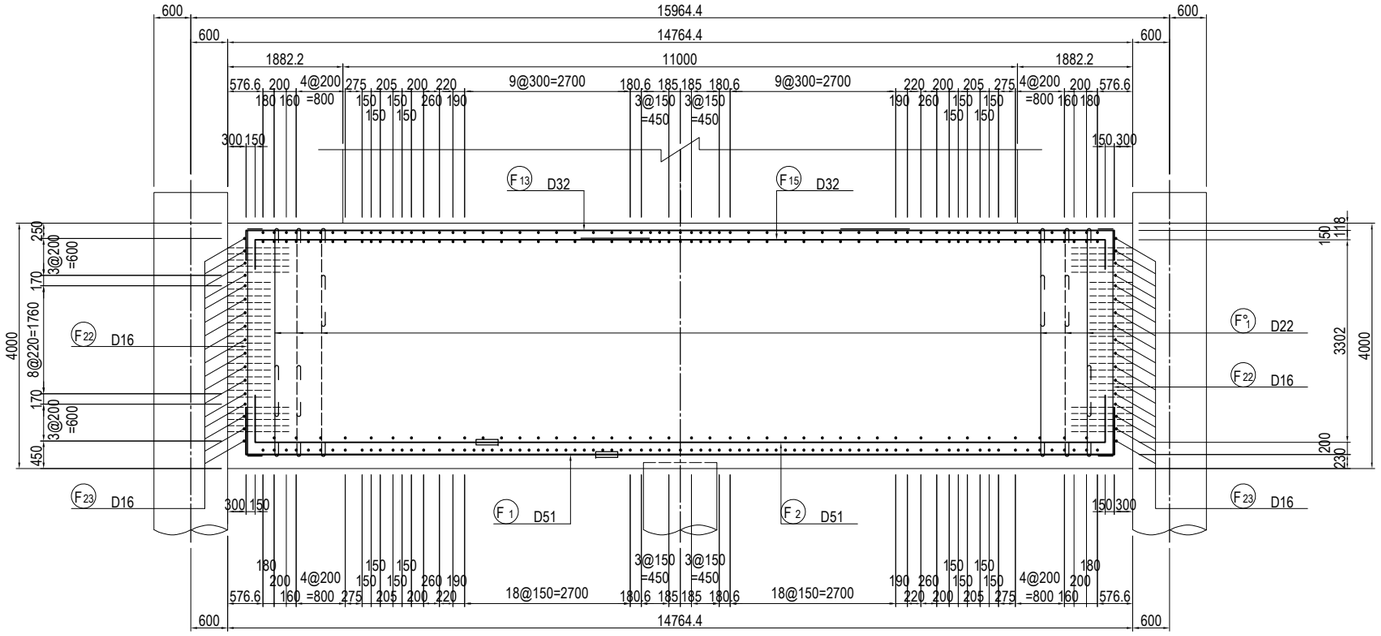
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

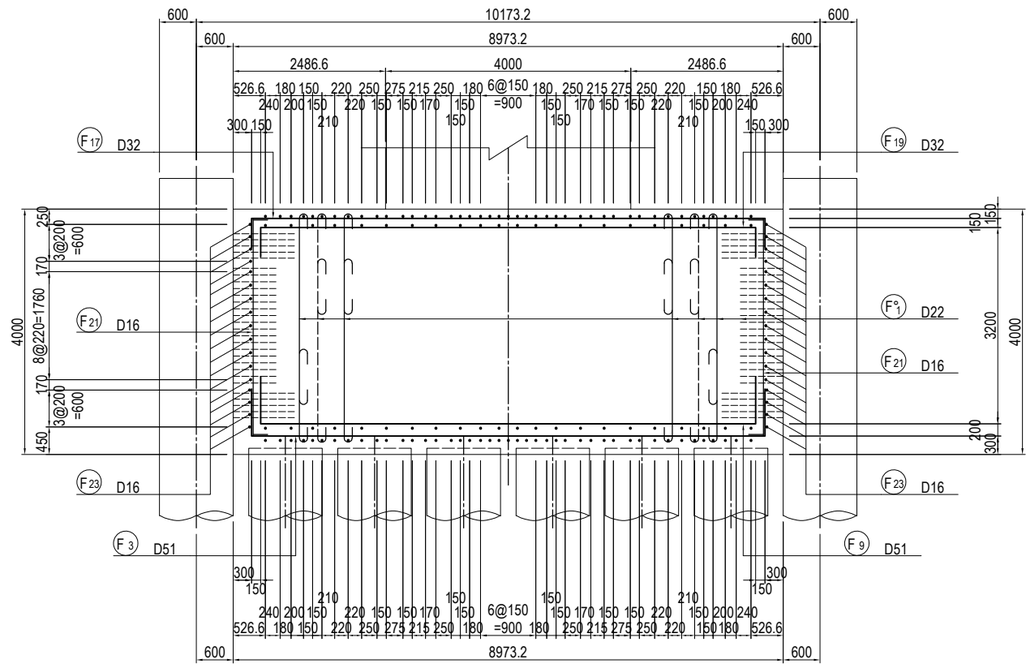
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P15 PIER (15)	2
	DWG No.
	P2-SB-2117

BAR ARRANGEMENT OF P15 FOOTING (1) S=1:100

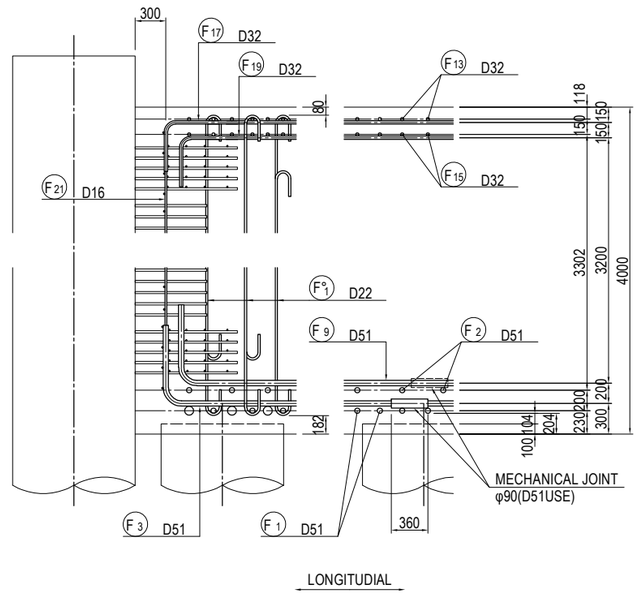
SECTION 1 - 1



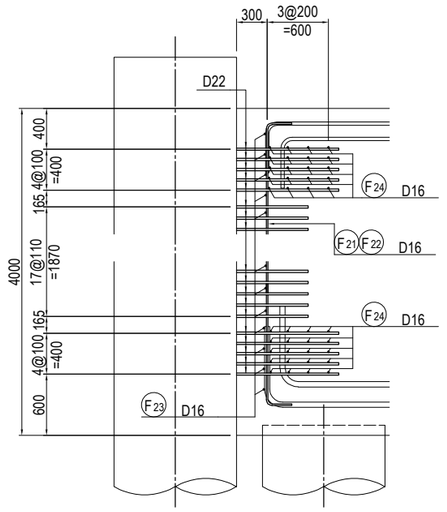
SECTION 2 - 2



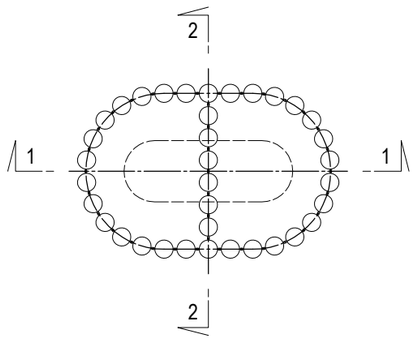
DETAIL OF PILE CAP S=1:60



DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:60



MARKING DIAGRAM



Note) : MECHANICAL JOINT

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

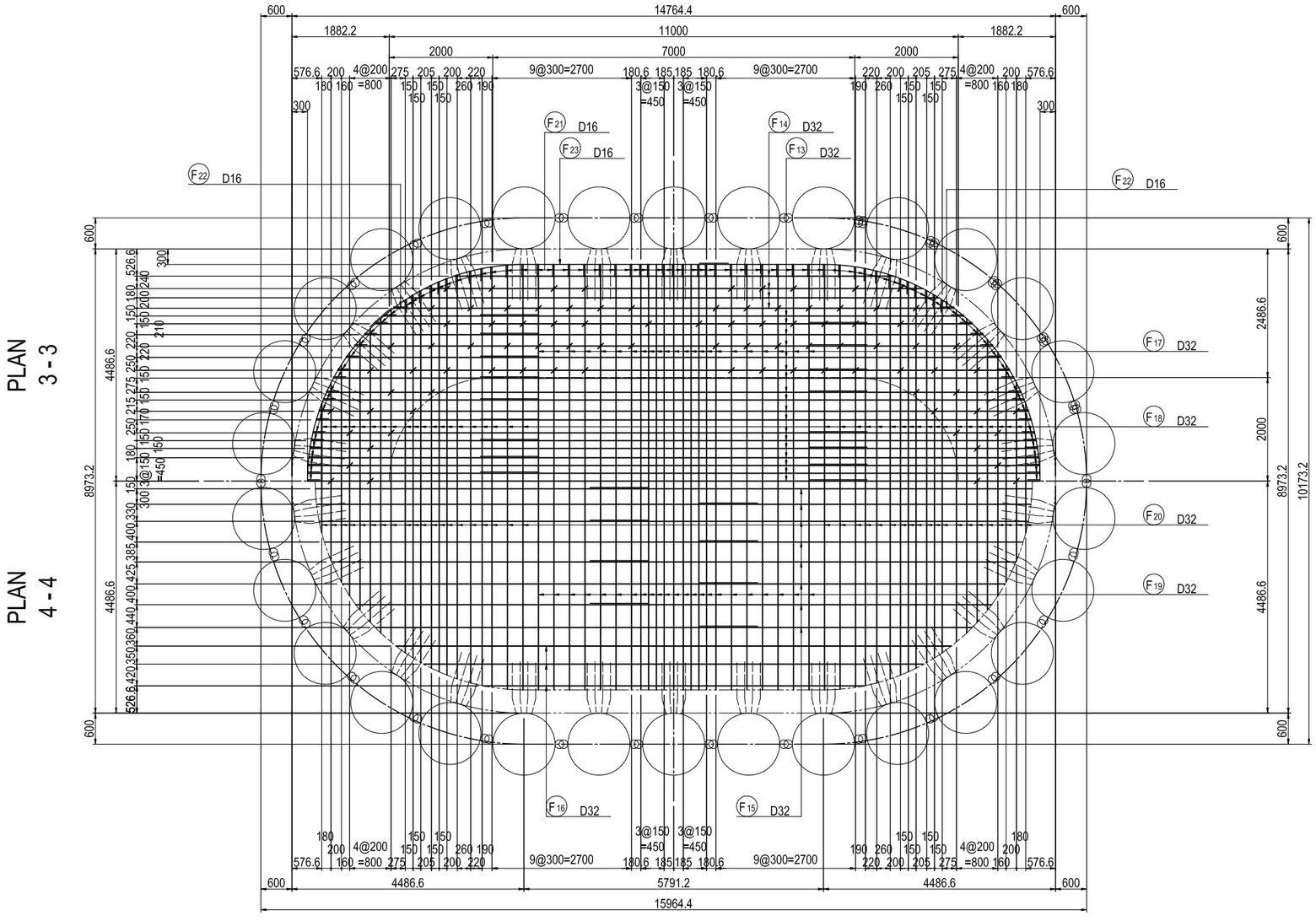
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P15 FOOTING (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2118

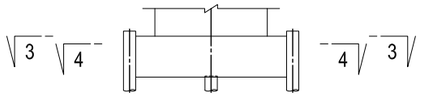
BAR ARRANGEMENT OF P15 FOOTING (2) S=1:100

PLAN 3 - 3

PLAN 4 - 4



MARKING DIAGRAM



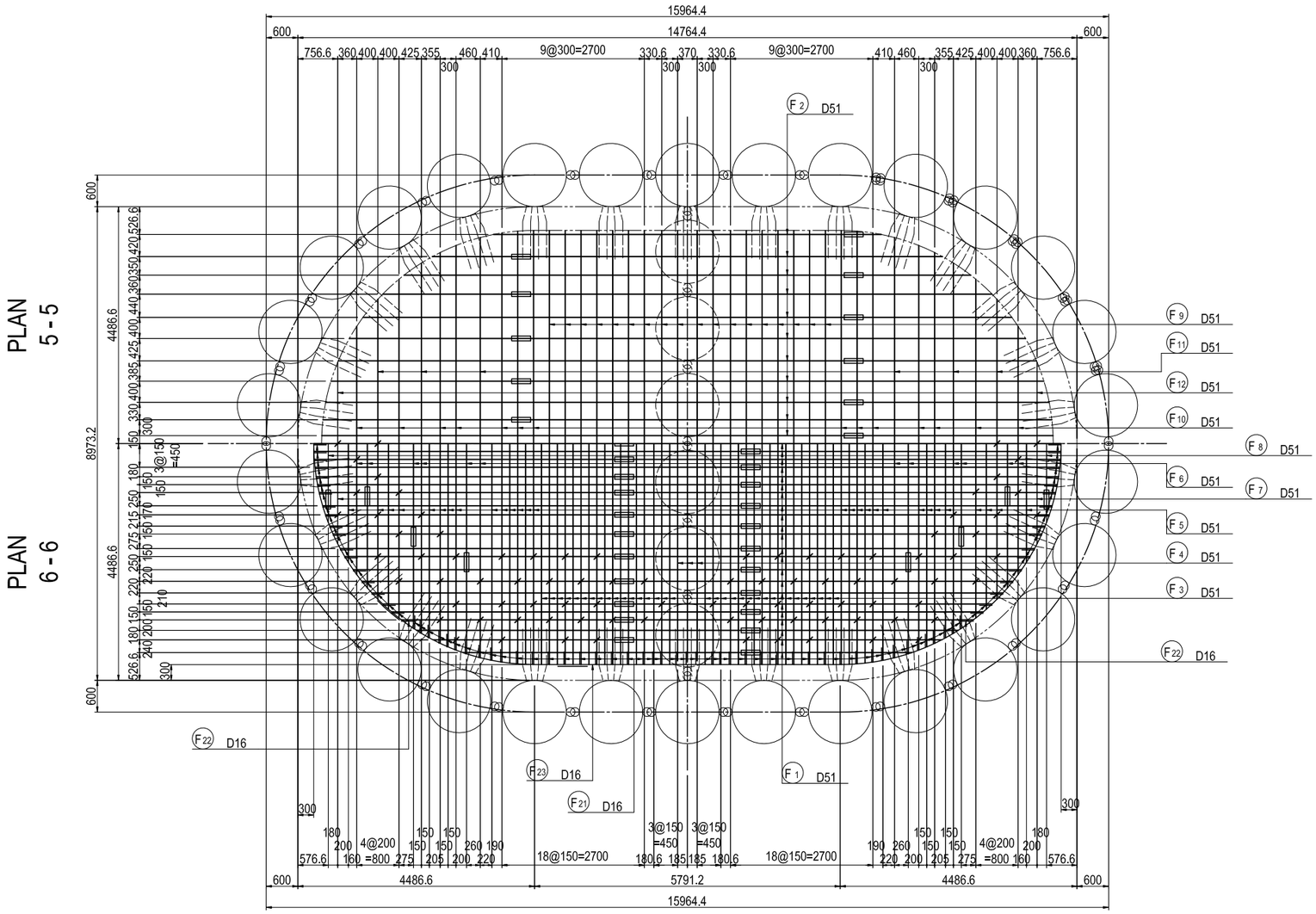
USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm 2	SD345

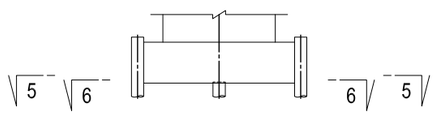
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P15 FOOTING (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2119

BAR ARRANGEMENT OF P15 FOOTING (3) S=1:100



MARKING DIAGRAM



Note: ⟷ : MECHANICAL JOINT

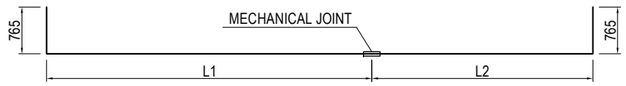
USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P15 FOOTING (3)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2120

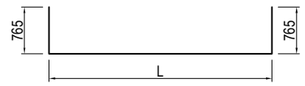
BAR ARRANGEMENT OF P15 FOOTING (4) S=1:100



(F1)-1 43 – D51 × 8270 (AVE)

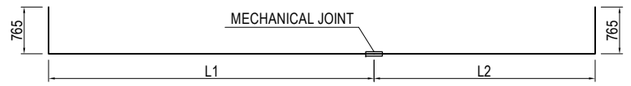
(F1)-2 43 – D51 × 5870 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F1 -1 1	D51	1	8282	9047	F1 -2 1	D51	1	5882	6647
2	〃	2	8280	9045	2	〃	2	5880	6645
3	〃	2	8271	9036	3	〃	2	5871	6636
4	〃	2	8258	9023	4	〃	2	5858	6623
5	〃	2	8235	9000	5	〃	2	5835	6600
6	〃	2	8209	8974	6	〃	2	5809	6574
7	〃	2	8178	8943	7	〃	2	5778	6543
8	〃	2	8112	8877	8	〃	2	5712	6477
9	〃	2	8059	8824	9	〃	2	5659	6424
10	〃	2	7979	8744	10	〃	2	5579	6344
11	〃	2	7915	8680	11	〃	2	5515	6280
12	〃	2	7779	8544	12	〃	2	5379	6144
13	〃	2	7694	8459	13	〃	2	5294	6059
14	〃	2	7533	8298	14	〃	2	5133	5898
15	〃	2	7369	8134	15	〃	2	4969	5734
16	〃	2	7181	7946	16	〃	2	4781	5546
17	〃	2	6974	7739	17	〃	2	4574	5339
18	〃	2	6807	7572	18	〃	2	4407	5172
19	〃	2	6620	7385	19	〃	2	4220	4985
20	〃	2	6331	7096	20	〃	2	3931	4696
21	〃	2	6016	6781	21	〃	2	3616	4381
22	〃	2	5454	6219	22	〃	2	3054	3819
AVE		43		8272	AVE		43		5872



(F5) 28 – D51 × 8930 (AVE)

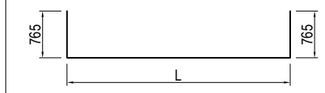
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F5 1	D51	2	8373	9903
2	〃	2	8366	9896
3	〃	2	8349	9879
4	〃	2	8320	9850
5	〃	2	8281	9811
6	〃	2	8215	9745
7	〃	2	7825	9355
8	〃	2	7704	9234
9	〃	2	7569	9099
10	〃	2	7361	8891
11	〃	2	6610	8140
12	〃	2	6278	7808
13	〃	2	5901	7431
14	〃	2	4502	6032
AVE		28		8934



(F2)-1 22 – D51 × 9940 (AVE)

(F2)-2 22 – D51 × 3640 (AVE)

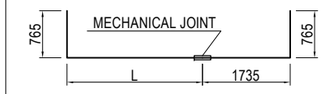
MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F2 -1 1	D51	2	10079	10844	F2 -2 1	D51	2	3779	4544
2	〃	2	10057	10822	2	〃	2	3757	4522
3	〃	2	10006	10771	3	〃	2	3706	4471
4	〃	2	9906	10671	4	〃	2	3606	4371
5	〃	2	9766	10531	5	〃	2	3466	4231
6	〃	2	9558	10323	6	〃	2	3258	4023
7	〃	2	9299	10064	7	〃	2	2999	3764
8	〃	2	8924	9689	8	〃	2	2624	3389
9	〃	2	8519	9284	9	〃	2	2219	2984
10	〃	2	7985	8750	10	〃	2	1685	2450
11	〃	2	6828	7593	11	〃	2	528	1293
AVE		22		9940	AVE		22		3640



(F10) 14 – D51 × 8600 (AVE)

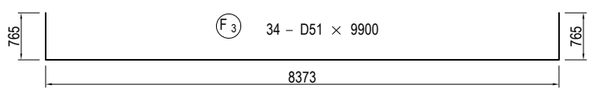
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F10 1	D51	2	8073	9603
2	〃	2	8048	9578
3	〃	2	7977	9507
4	〃	2	7503	9033
5	〃	2	7236	8766
6	〃	2	6226	7756
7	〃	2	4444	5974
AVE		14		8602

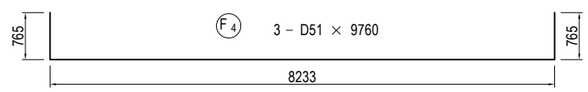
(F11)-2 6 – D51 × 2500

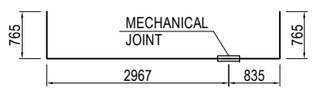


(F11)-1 6 – D51 × 5730 (AVE)

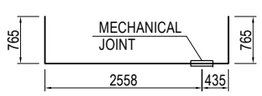
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F11 -1 1	D51	2	6071	6836
2	〃	2	5104	5869
3	〃	2	3732	4497
AVE		6		5734



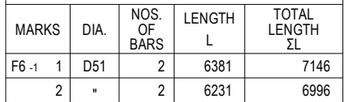




(F7)-1 2 – D51 × 3730 (F7)-2 2 – D51 × 1600



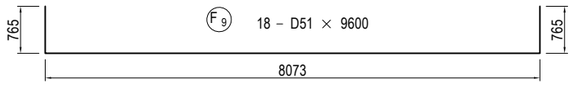
(F8)-1 2 – D51 × 3320 (F8)-2 2 – D51 × 1200

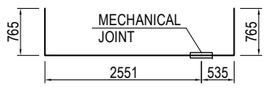


(F6)-2 12 – D51 × 2500

(F6)-1 12 – D51 × 5820 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F6 -1 1	D51	2	6381	7146
2	〃	2	6231	6996
3	〃	2	5456	6221
4	〃	2	5268	6033
5	〃	2	3734	4499
6	〃	2	3233	3998
AVE		12		5816





(F12)-1 2 – D51 × 3320 (F12)-2 2 – D51 × 1300

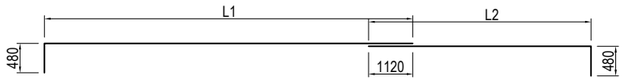
USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

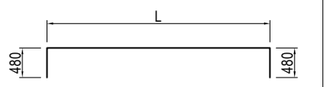
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P15 FOOTING (4)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2121

BAR ARRANGEMENT OF P15 FOOTING (5) S=1:100



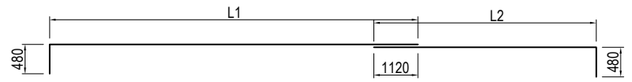
F13-1 35 – D32 × 10850 (AVE)　　F13-2 35 – D32 × 4490 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F13-1 1	D32	1	10822	11302	F13-2 1	D32	1	4462	4942
2	〃	2	10820	11300	2	〃	2	4460	4940
3	〃	2	10811	11291	3	〃	2	4451	4931
4	〃	2	10798	11278	4	〃	2	4438	4918
5	〃	2	10775	11255	5	〃	2	4415	4895
6	〃	2	10749	11229	6	〃	2	4389	4869
7	〃	2	10718	11198	7	〃	2	4358	4838
8	〃	2	10652	11132	8	〃	2	4292	4772
9	〃	2	10599	11079	9	〃	2	4239	4719
10	〃	2	10519	10999	10	〃	2	4159	4639
11	〃	2	10455	10935	11	〃	2	4095	4575
12	〃	2	10319	10799	12	〃	2	3959	4439
13	〃	2	10234	10714	13	〃	2	3874	4354
14	〃	2	10073	10553	14	〃	2	3713	4193
15	〃	2	9909	10389	15	〃	2	3549	4029
16	〃	2	9721	10201	16	〃	2	3361	3841
17	〃	2	9514	9994	17	〃	2	3154	3634
18	〃	2	9347	9827	18	〃	2	2987	3467
AVE		35		10847	AVE		35		4487



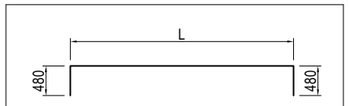
F18 40 – D32 × 7680 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F18 1	D32	2	8373	9333
2	〃	2	8349	9309
3	〃	2	8281	9241
4	〃	2	8215	9175
5	〃	2	8116	9076
6	〃	2	7966	8926
7	〃	2	7825	8785
8	〃	2	7704	8664
9	〃	2	7569	8529
10	〃	2	7361	8321
11	〃	2	7191	8151
12	〃	2	7003	7963
13	〃	2	6610	7570
14	〃	2	6278	7238
15	〃	2	5901	6861
16	〃	2	5469	6429
17	〃	2	4968	5928
18	〃	2	4502	5462
19	〃	2	3802	4762
20	〃	2	2993	3953
AVE		20		7684



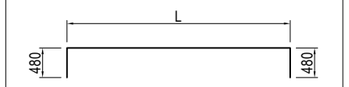
F15-1 16 – D32 × 8650 (AVE)　　F15-2 16 – D32 × 6530 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F15-1 1	D32	2	8549	9029	F15-2 1	D32	2	6429	6909
2	〃	2	8527	9007	2	〃	2	6407	6887
3	〃	2	8476	8956	3	〃	2	6356	6836
4	〃	2	8376	8856	4	〃	2	6256	6736
5	〃	2	8236	8716	5	〃	2	6116	6596
6	〃	2	8028	8508	6	〃	2	5908	6388
7	〃	2	7769	8249	7	〃	2	5649	6129
8	〃	2	7394	7874	8	〃	2	5274	5754
AVE		16		8649	AVE		16		6529



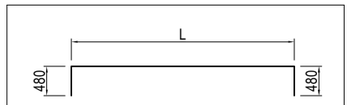
F16 6 – D32 × 10220 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F16 1	D32	2	10738	11698
2	〃	2	9671	10631
3	〃	2	7356	8316
AVE		6		10215



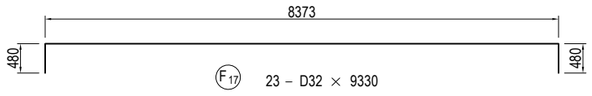
F20 40 – D32 × 7270 (AVE)

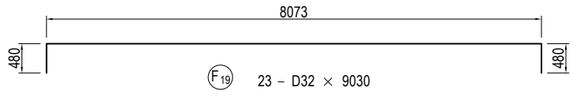
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F20 1	D32	2	8073	9033
2	〃	2	8048	9008
3	〃	2	7977	8937
4	〃	2	7909	8869
5	〃	2	7806	8766
6	〃	2	7650	8610
7	〃	2	7503	8463
8	〃	2	7377	8337
9	〃	2	7236	8196
10	〃	2	7018	7978
11	〃	2	6839	7799
12	〃	2	6641	7601
13	〃	2	6226	7186
14	〃	2	5872	6832
15	〃	2	5467	6427
16	〃	2	4998	5958
17	〃	2	4444	5404
18	〃	2	3916	4876
19	〃	2	3086	4046
20	〃	2	2006	2966
AVE		40		7265

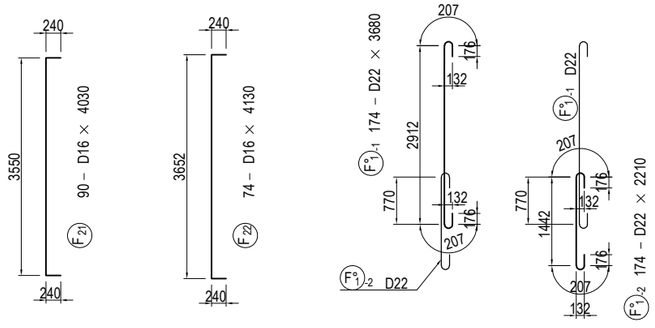


F14 8 – D32 × 10770 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F14 1	D32	2	10840	11800
2	〃	2	10262	11222
3	〃	2	9633	10593
4	〃	2	8509	9469
AVE		8		10771





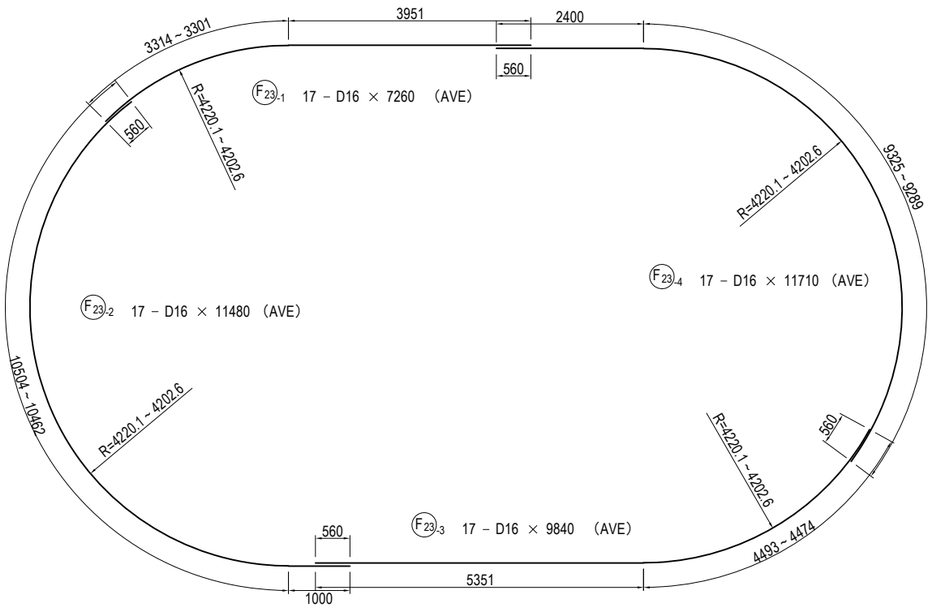


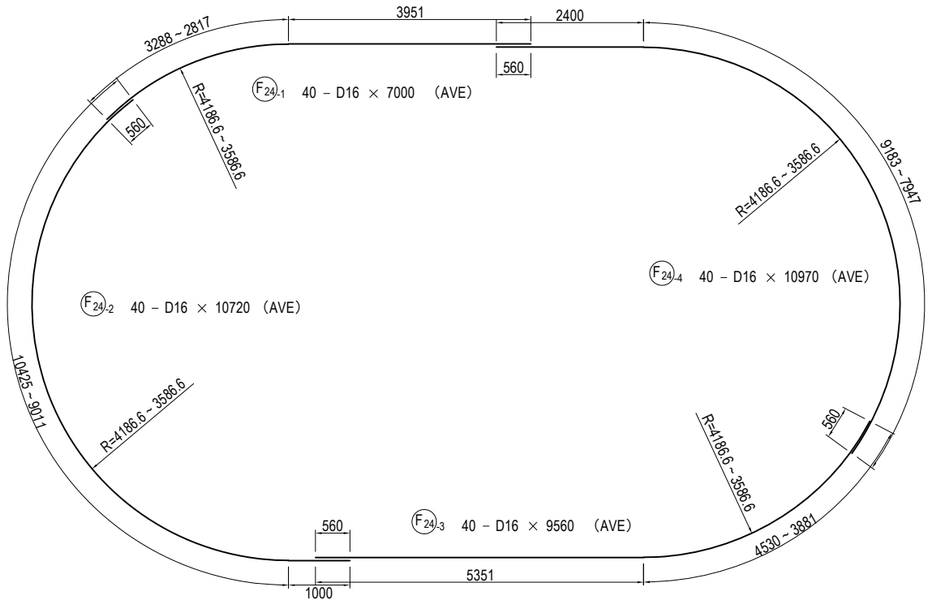
USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P15 FOOTING (5)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2122

BAR ARRANGEMENT OF P15 FOOTING (6) S=1:100





Note） The joint position of the reinfocing bar is rotated 180 degrees for each step arranged.

BAR SCHEDULE

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
F 1-1	D51	8270	43	15.9	131.49	5654	(43) (AVE)
1-2	"	5870	43	"	93.33	4013	(AVE)
2-1	"	9940	22	"	158.05	3477	(22) (AVE)
2-2	"	3640	22	"	57.88	1273	(AVE)
3	"	9900	34	"	157.41	5352	
4	"	9760	3	"	155.18	466	"
5	"	8930	28	"	141.99	3976	" (AVE)
6-1	"	5820	12	"	92.54	1110	(12) (AVE)
6-2	"	2500	12	"	39.75	477	
7-1	"	3730	2	"	59.31	119	(2)
7-2	"	1600	2	"	25.44	51	
8-1	"	3320	2	"	52.79	106	(2)
8-2	"	1200	2	"	19.08	38	
9	"	9600	18	"	152.64	2748	
10	"	8600	14	"	136.74	1914	" (AVE)
11-1	"	5730	6	"	91.11	547	(6) (AVE)
11-2	"	2500	6	"	39.75	239	
12-1	"	3320	2	"	52.79	106	(2)
12-2	"	1300	2	"	20.67	41	
13-1	D32	10850	35	6.23	67.60	2366	(AVE)
13-2	"	4490	35	"	27.97	979	(AVE)
14	"	10770	8	"	67.10	537	(AVE)
15-1	"	8650	16	"	53.89	862	(AVE)
15-2	"	6530	16	"	40.68	651	(AVE)
16	"	10220	6	"	63.67	382	(AVE)
17	"	9330	23	"	58.13	1337	"
18	"	7680	40	"	47.85	1914	" (AVE)
19	"	9030	23	"	56.26	1294	"
20	"	7270	40	"	45.29	1812	" (AVE)
21	D16	4030	90	1.56	6.29	566	
22	"	4130	74	"	6.44	477	"
23-1	"	7260	17	"	11.33	193	(AVE)
23-2	"	11480	17	"	17.91	304	(AVE)
23-3	"	9840	17	"	15.35	261	(AVE)
23-4	"	11710	17	"	18.27	311	(AVE)
24-1	"	7000	40	"	10.92	437	(AVE)
24-2	"	10720	40	"	16.72	669	(AVE)
24-3	"	9560	40	"	14.91	596	(AVE)
24-4	"	10970	40	"	17.11	684	(AVE)
					SUBTOTAL	48339 kg	
F° 1-1	D22	3680	174	3.04	11.19	1947	
1-2	"	2210	174	"	6.72	1169	"
					SUBTOTAL	3116 kg	

(MECHANICAL JOINT)

D51	31707 kg	(89)
D32	12134 "	
D22	3116 "	
D16	4498 "	
TOTAL	51455 kg	(89)

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm 2	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

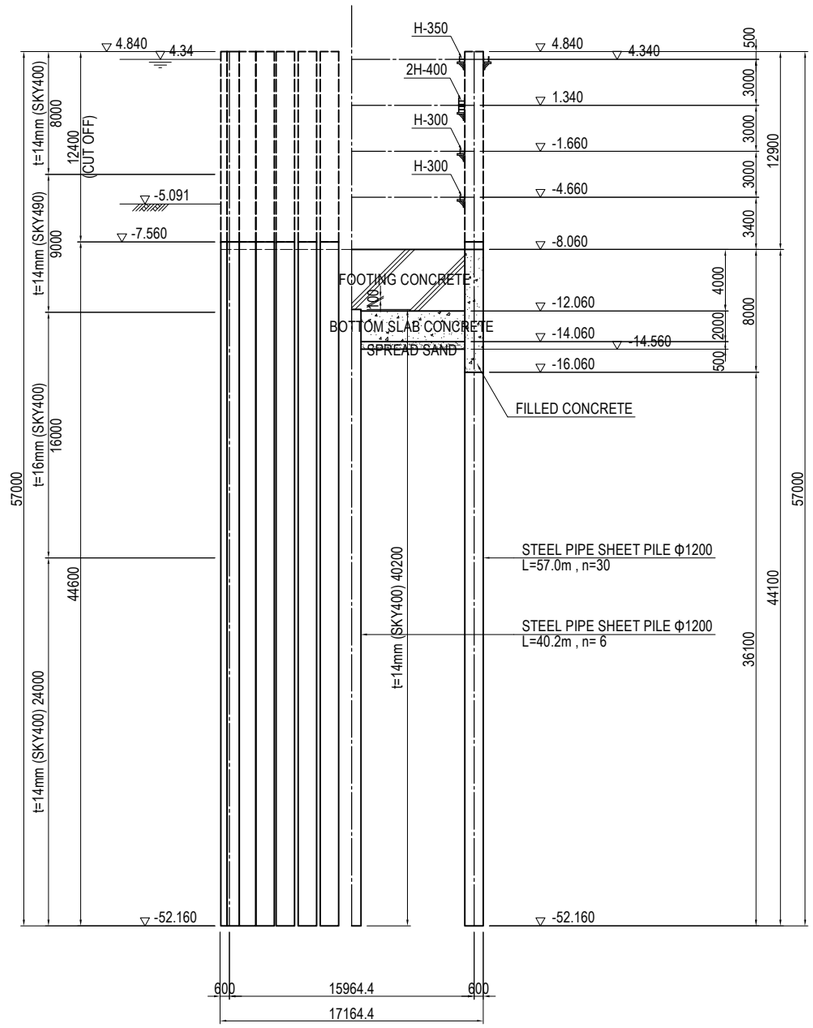
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P15 FOOTING (6)	2
	DWG No.
	P2-SB-2123

GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P15 PIER

S=1:400

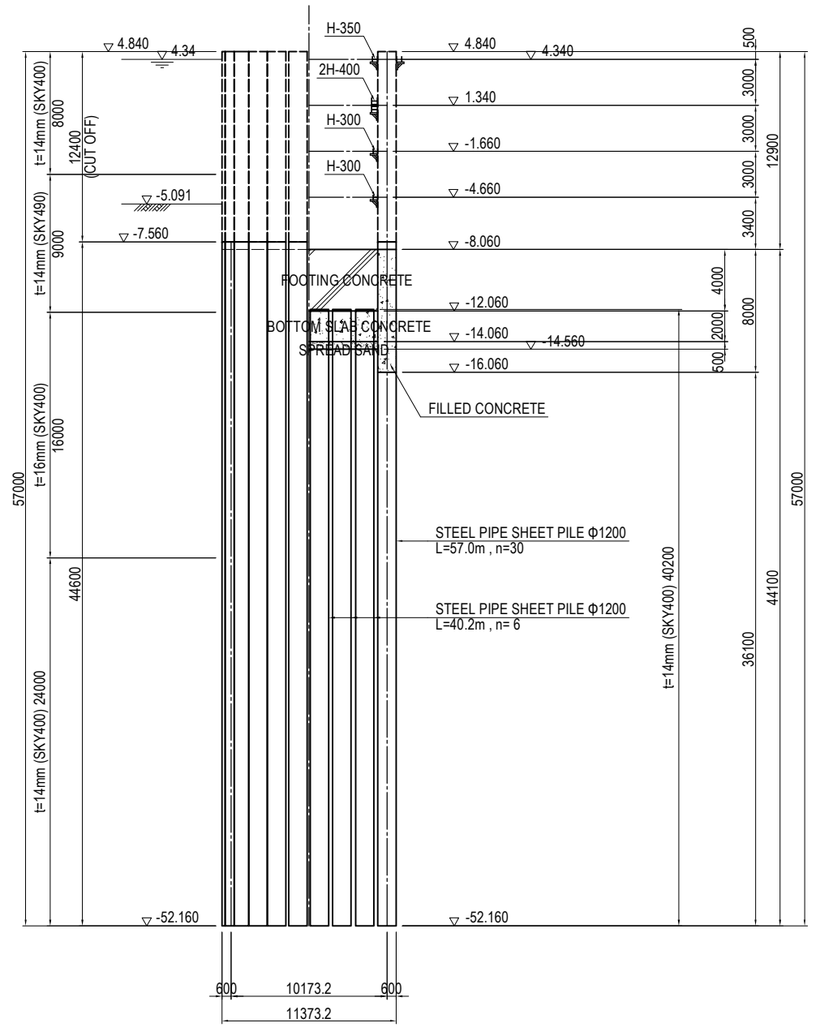
FRONT ELEVATION

1 - 1　　2 - 2

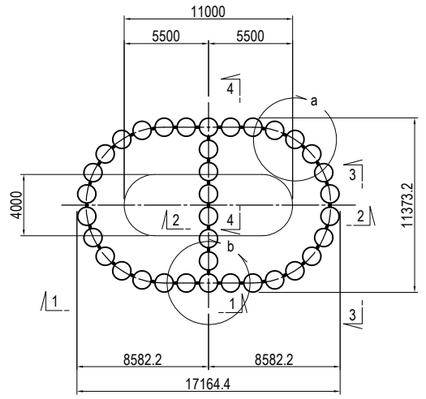


SIDE ELEVATION

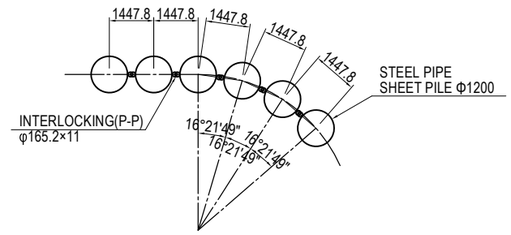
3 - 3　　4 - 4



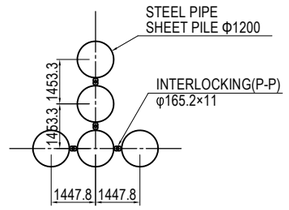
PLAN



DETAIL a　S=1:200



DETAIL b　S=1:200



USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

Note: Temporary support can be used for reference only.

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

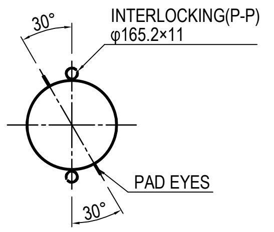
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P15 PIER	2
	DWG No.
	P2-SB-2124

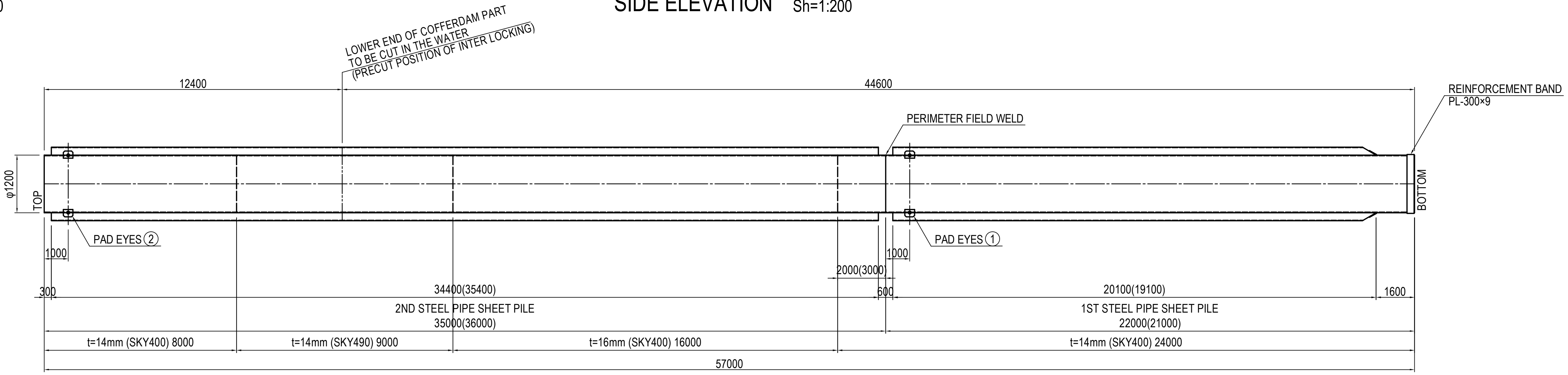
DETAIL OF STEEL PIPE SHEET PILE OF P15 PIER (1)

CROSS SECTION S=1:200

TYPE A
(TYPE B)

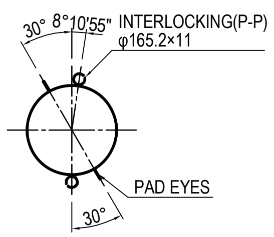


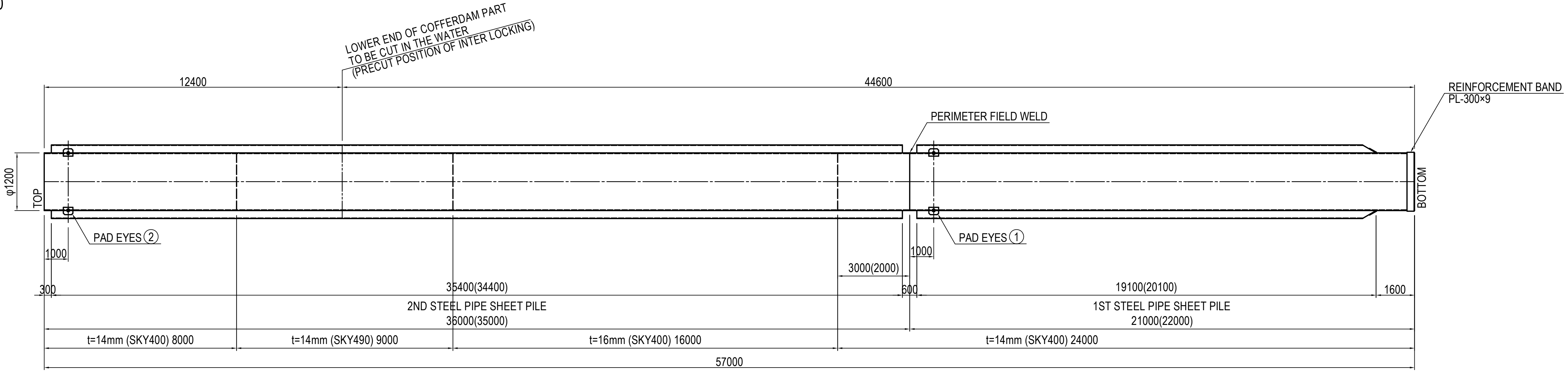
SIDE ELEVATION Sv=1:100 Sh=1:200



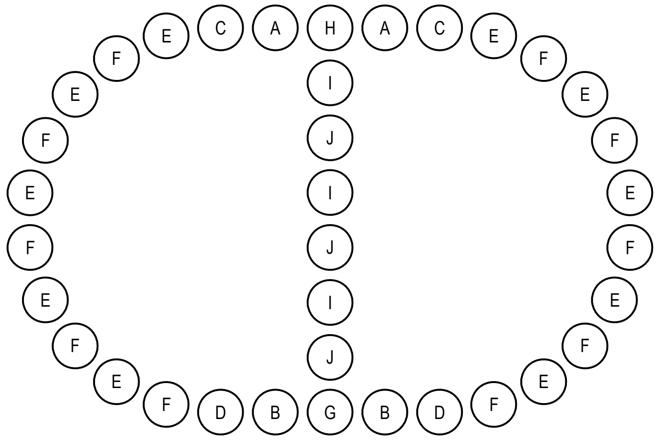
CROSS SECTION S=1:200

TYPE C
(TYPE D)



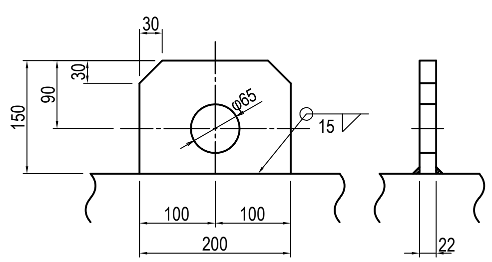


STEEL PIPE SHEET PILE TYPE AND POSITION

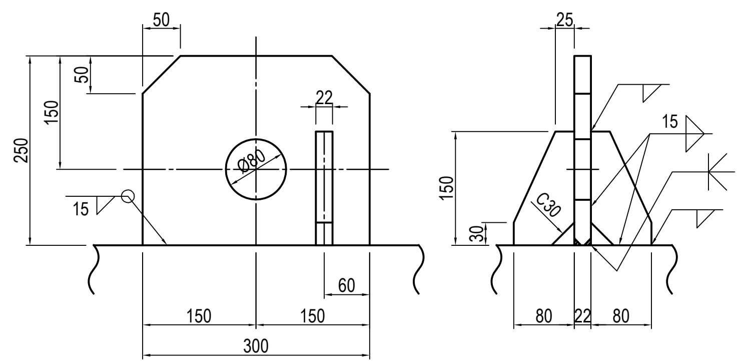


DETAIL OF EYES S=1:10

PAD EYES ① PL-200x150x22（SM490A）



PAD EYES ② PL-300x250x22（SM490A）



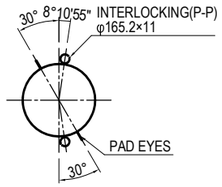
Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA	[signature]	15 Jun.2017	DETAIL OF STEEL PIPE SHEET PILE OF P15 PIER (1)	2
				CHECKED BY	T. HAYAKAWA	[signature]	20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO	[signature]	21 Jun.2017		P2-SB-2125

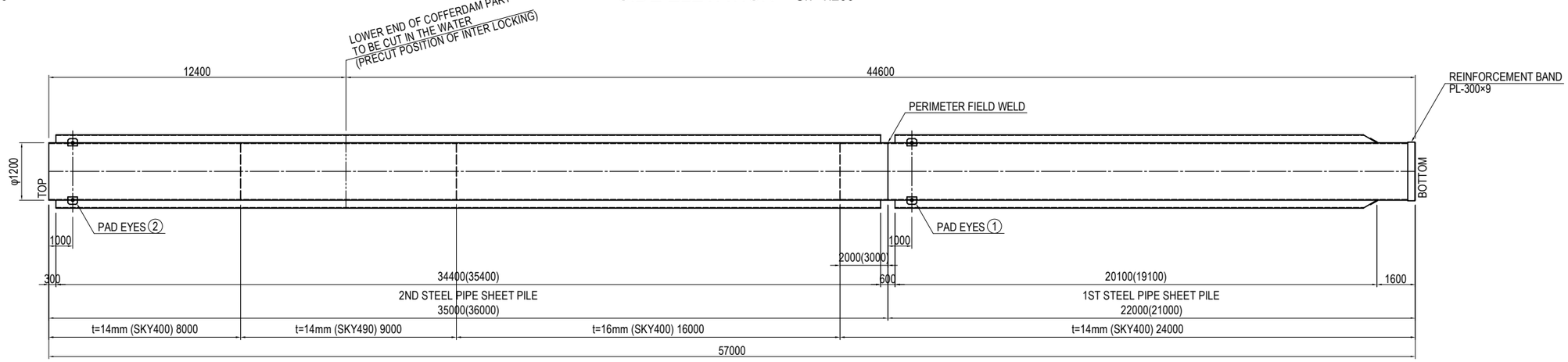
DETAIL OF STEEL PIPE SHEET PILE OF P15 PIER (2)

CROSS SECTION S=1:200

TYPE E
(TYPE F)

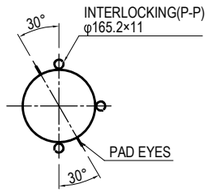


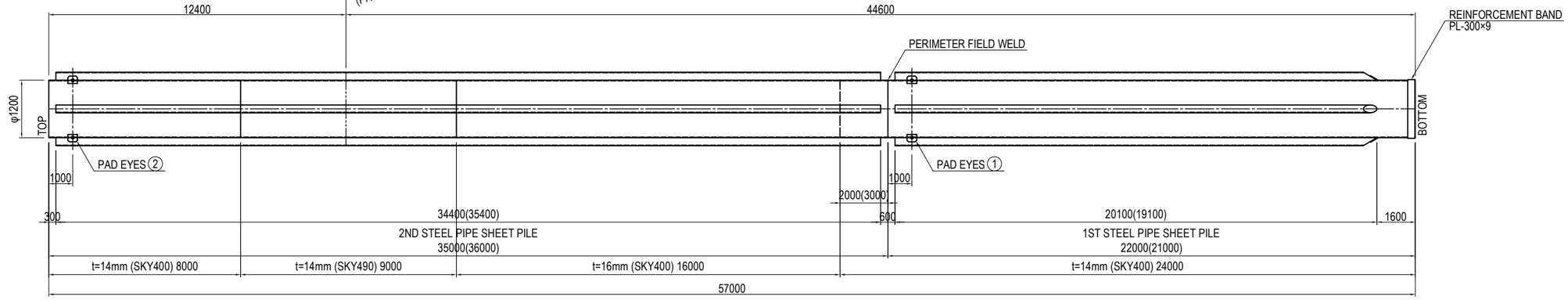
SIDE ELEVATION Sv=1:100 Sh=1:200



CROSS SECTION S=1:200

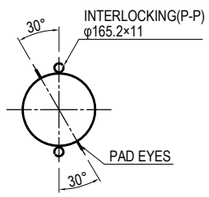
TYPE G
(TYPE H)

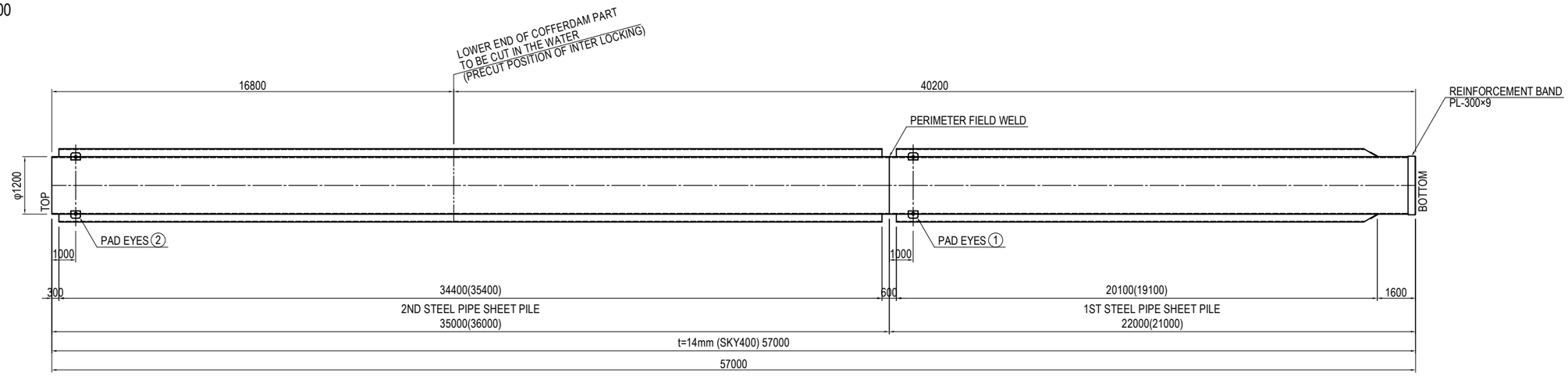




CROSS SECTION S=1:200

TYPE I
(TYPE J)





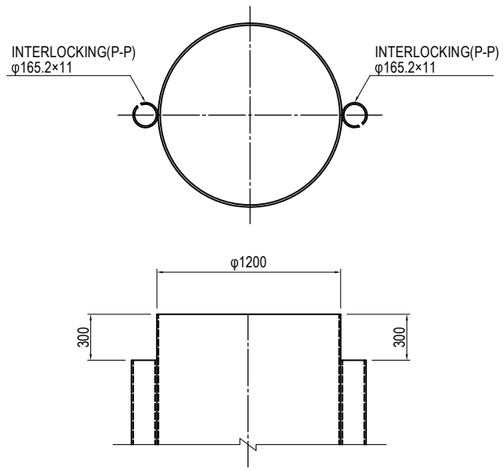
Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR, MINISTRY OF CONSTRUCTION, DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. / ORIENTAL CONSULTANTS GLOBAL CO., LTD. / METROPOLITAN EXPRESSWAY COMPANY LIMITED / CHODAI CO.,LTD. / NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

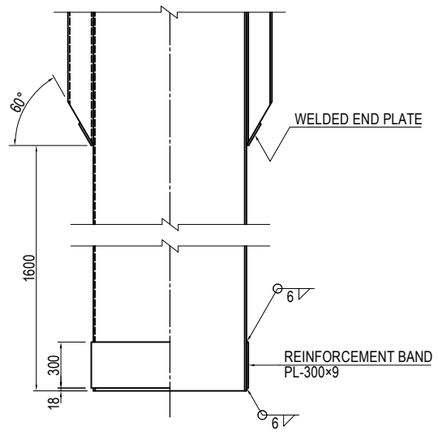
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF STEEL PIPE SHEET PILE OF P15 PIER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2126

DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P15 PIER

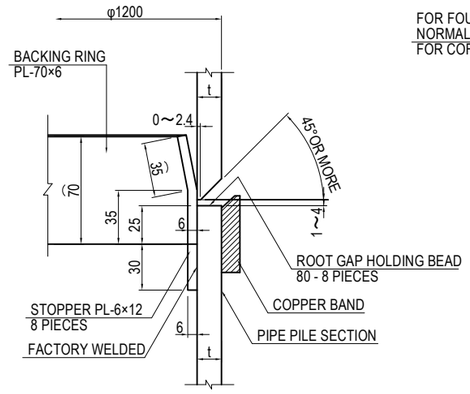
DETAIL OF STEEL PIPE SHEET PILE TOP S=1:40



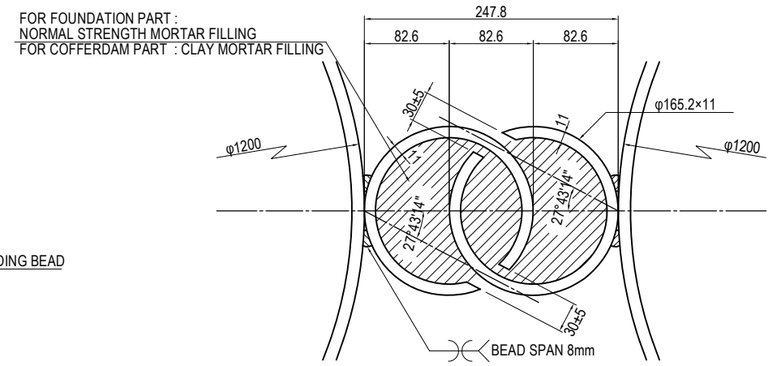
DETAIL OF STEEL PIPE SHEET PILE TOE S=1:40



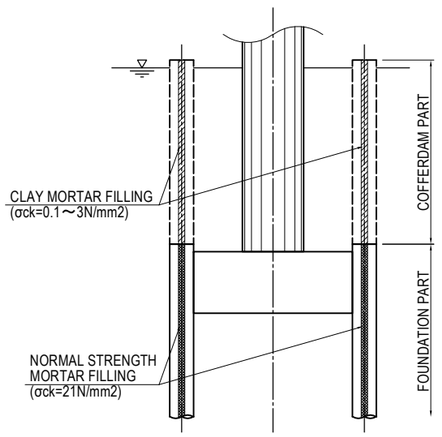
DETAIL OF PERIMETER FIELD WELDING OF STEEL PIPE SHEET PILE S=1:4



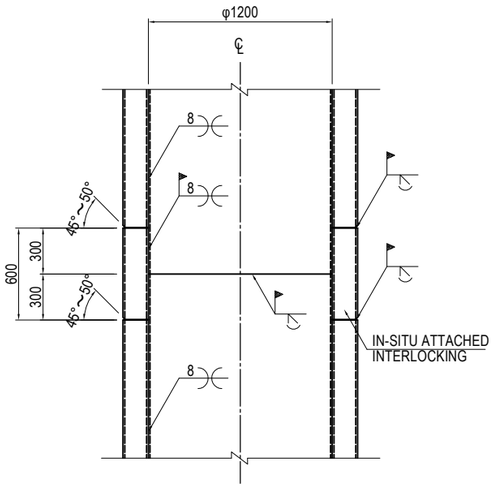
DETAIL OF CONNECTED INTERLOCKING(P-P) S=1:6



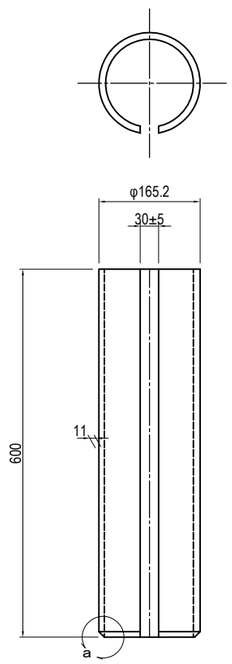
TREATMENT OF STEEL PIPE SHEET PILE INTERLOCKING



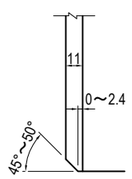
DETAIL OF IN-SITU LONGITUDINAL WELDING PART S=1:40



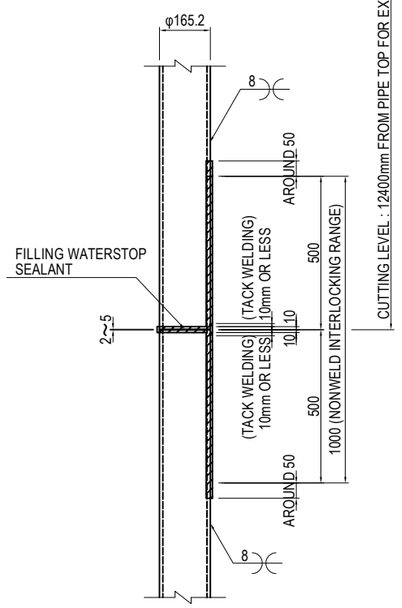
DETAIL OF IN-SITU ATTACHED INTERLOCKING S=1:10



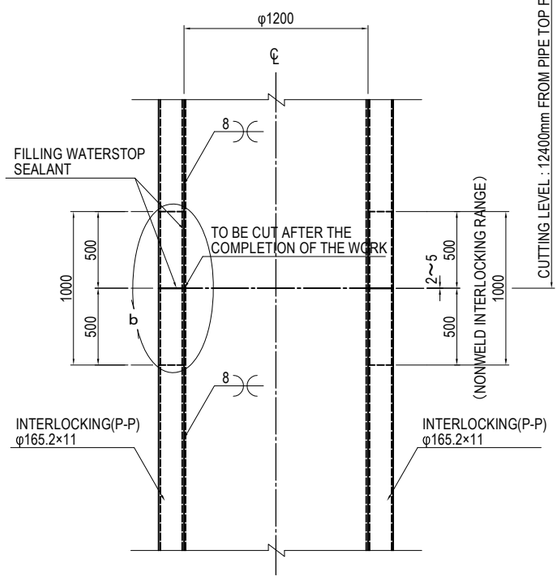
DETAIL a



DETAIL b



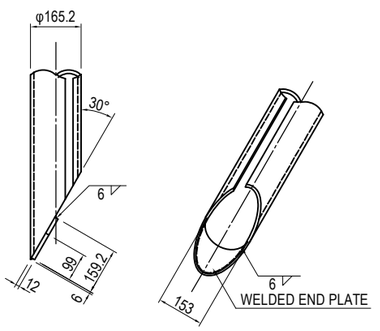
DETAIL OF PRECUT INTERRLOCKING S=1:40



CUTTING LEVEL : 12400mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING

CUTTING LEVEL : 12400mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING

DETAIL OF INTERRLOCKING TOE S=1:20

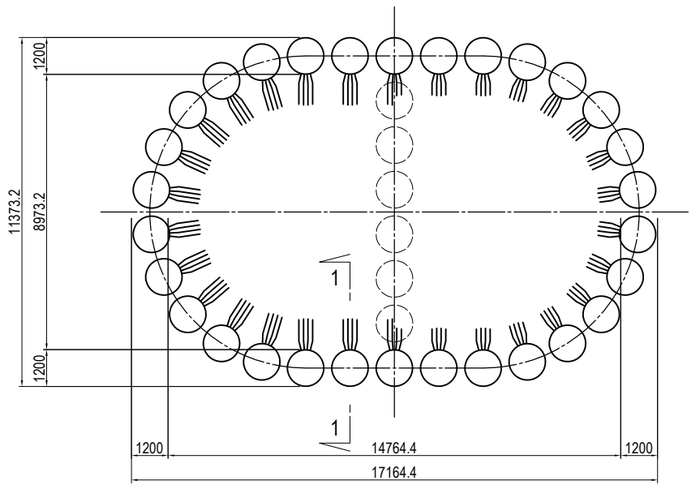


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

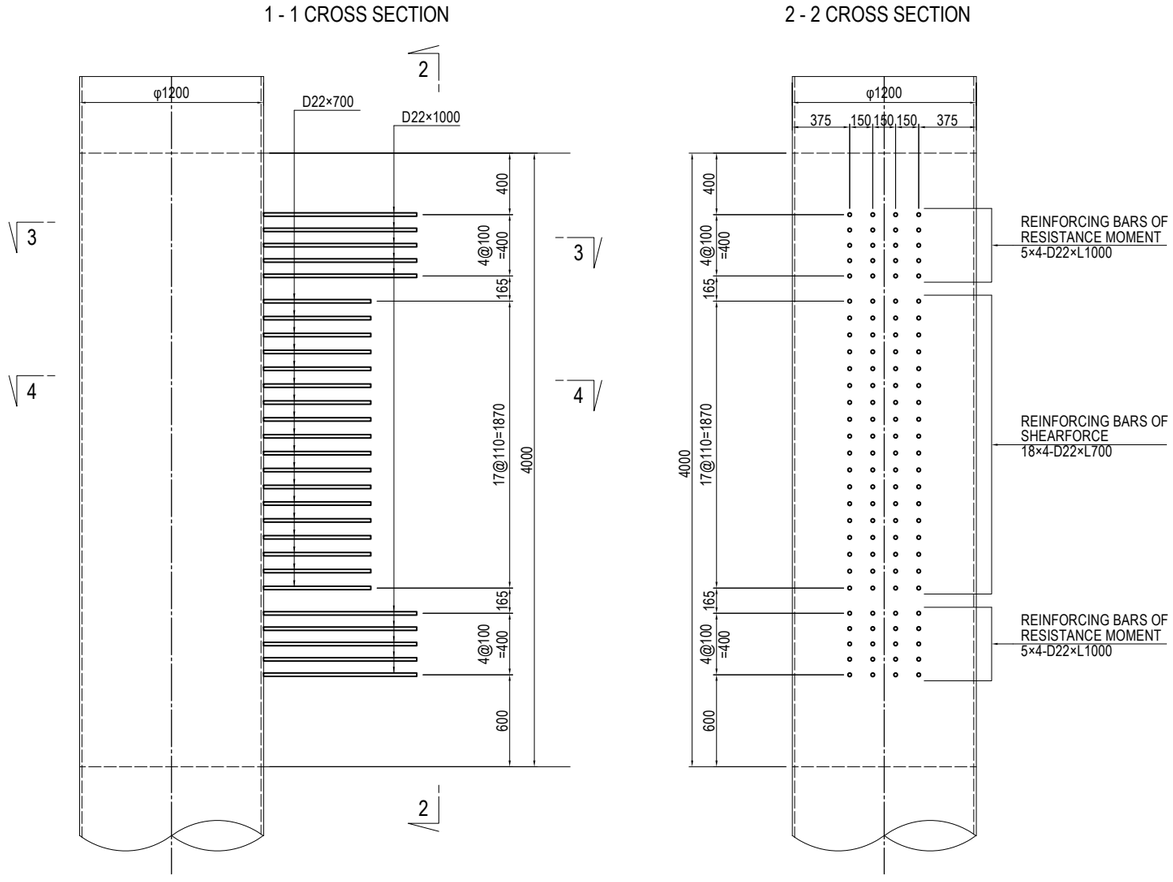
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P15 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2127

DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P15 PIER

PLAN S=1:200

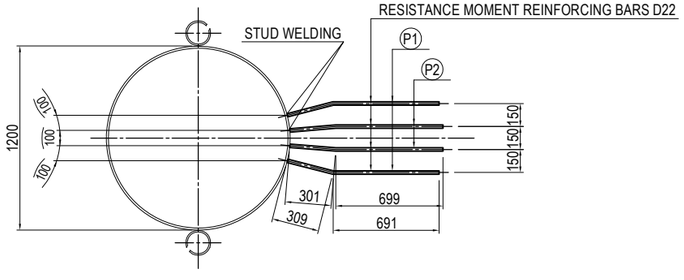


DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:40

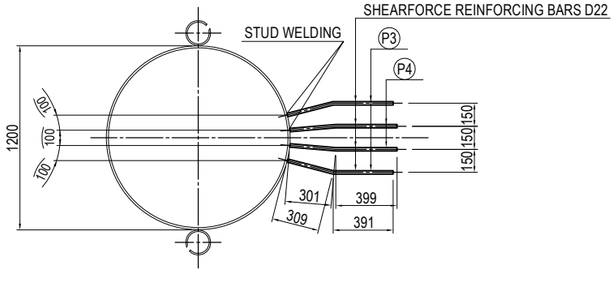


CROSS SECTION OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND REINFORCING BARS S=1:40

3 - 3 CROSS SECTION
(RESISTANCE MOMENT REINFORCING BARS CONNECTION PART)



4 - 4 CROSS SECTION
(SHEARFORCE REINFORCING BARS CONNECTION PART)



FABRICATION OF REINFORCING BARS S=1:40

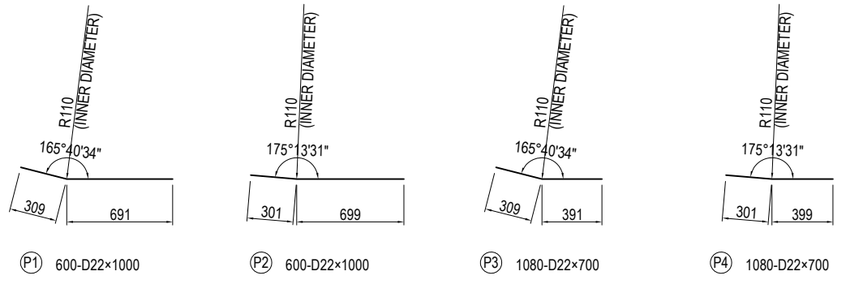


TABLE OF REINFORCING BARS

MARK	TYPE	LENGTH (mm)	PIECES (piece)	UNIT WEIGHT (kg/m)	UNIT WEIGHT (kg/piece)	WEIGHT (kg)	GRADE	MEMO
P1	D22	1000	600	3.04	3.04	1824.0	SD345 for STUD WELDING	
P2	D22	1000	600	3.04	3.04	1824.0	SD345 for STUD WELDING	
P3	D22	700	1080	3.04	2.13	2300.4	SD345 for STUD WELDING	
P4	D22	700	1080	3.04	2.13	2300.4	SD345 for STUD WELDING	
				D22		8248.8	kg	
				TOTAL WEIGHT		8248.8	kg	

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

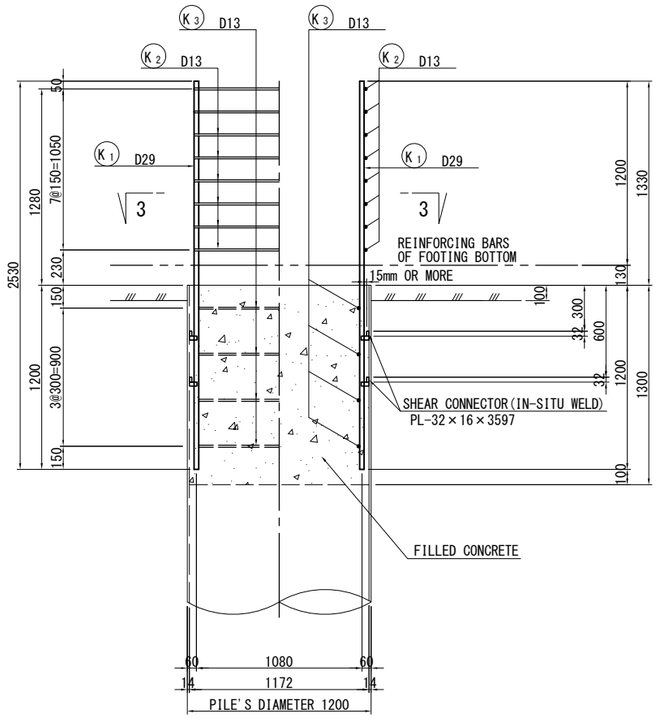
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

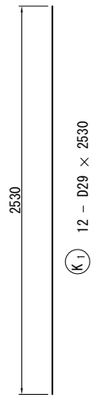
DRAWING TITLE	PACKAGE
DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P15 PIER	2
	DWG No.
	P2-SB-2128

DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P15 PIER S=1:40

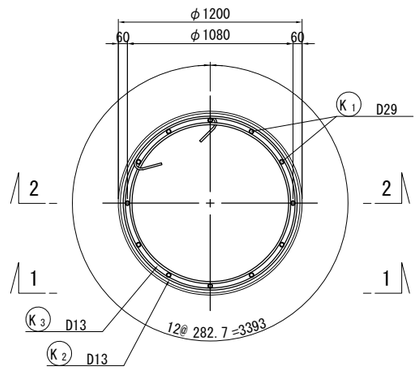
DETAIL OF PILE TOP

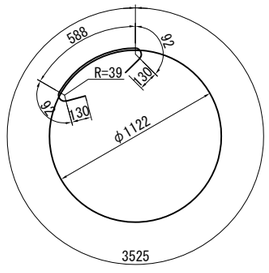
1 - 1　2 - 2



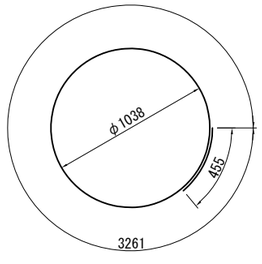


3 - 3





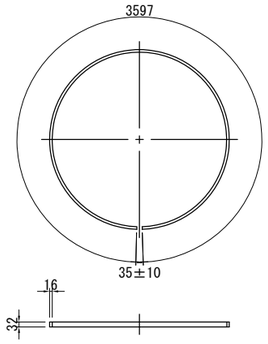
K2　8 - D13 × 4560



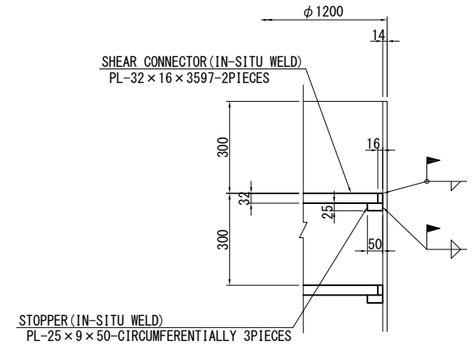
K3　4 - D13 × 3720

DETAIL OF ATTACHMENT OF SHEAR CONNECTOR

CENTER OF LENGTH



SETTING IN THE FIELD S=1:20



MATERIAL LIST

WEIGHT/EA.

MARKS	SECTION SIZE	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	MATERIAL	REMARKS
PILE TOP ACCOMPANYING ITEMS								
PL	PL-32*16	3597	2	4.019	14.456	28.9	SS400	SHEAR CONNECTOR
PL	PL-25*9	50	6	1.766	0.088	0.5	SS400	STOPPER
REINFORCEMENT								
K1	D29	2530	12	5.04	12.75	153	SD345	I
K2	D13	4560	8	0.995	4.54	36.3	SD345	○
K3	D13	3720	4	0.995	3.70	14.8	SD345	○
TOTAL						204		
FILLED CONCRETE　(σck = 24 N/mm^2)								
V = 1/4 × π × 1.172^2 × 1.300　=　1.402 m^3								

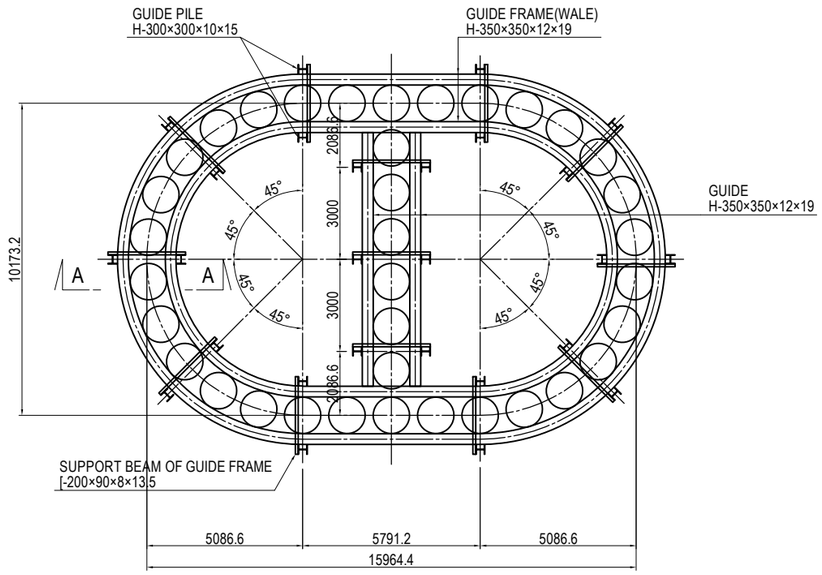
ITEM	DIVISION		UNIT CONTENT	WEIGHT/EA.	QUANTITY
NUMBER OF PILE			Number		6
PILE TOP	SS400	TOTAL	kg	29.4	176.4
REINFORCEMENT	SD345	D29	kg	153	918
		D13	kg	51	307
		TOTAL	kg	204	1225
FILLED CONCRETE	σck = 24 N/mm^2		m^3	1.402	8.4

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

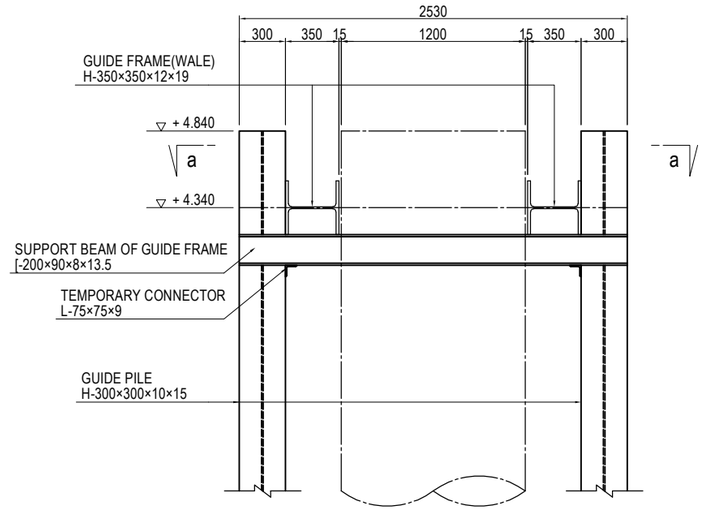
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P15 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2129

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P15 PIER (1)

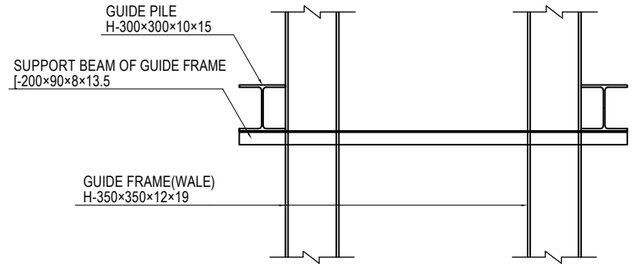
LAYOUT PLAN OF GUIDE FRAMES AND GUIDE PILES S=1:200



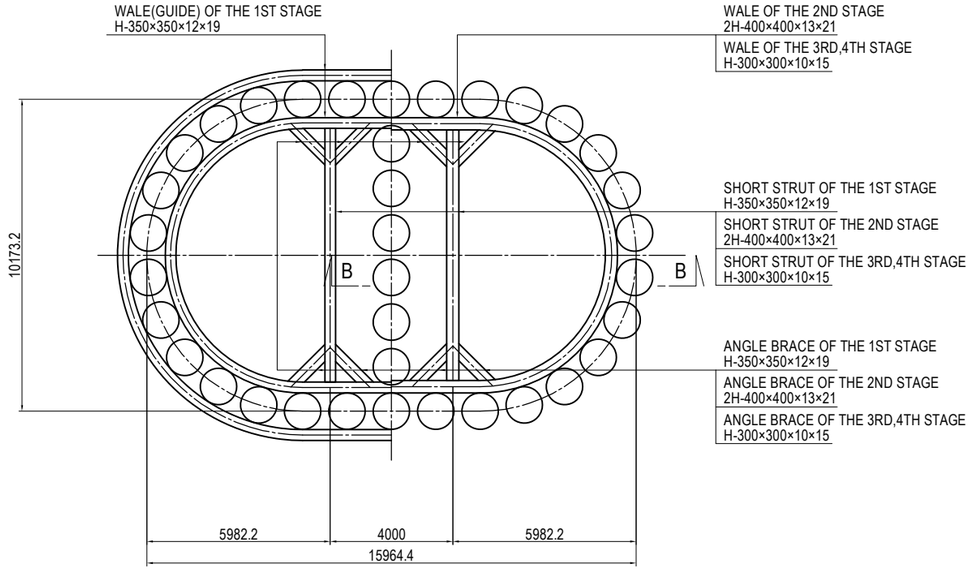
DETAIL OF ATTACHMENT OF GUIDE PILES AND GUIDE FRAMES S=1:40



a - a



LAYOUT PLAN OF STRUTS AND WALES S=1:200

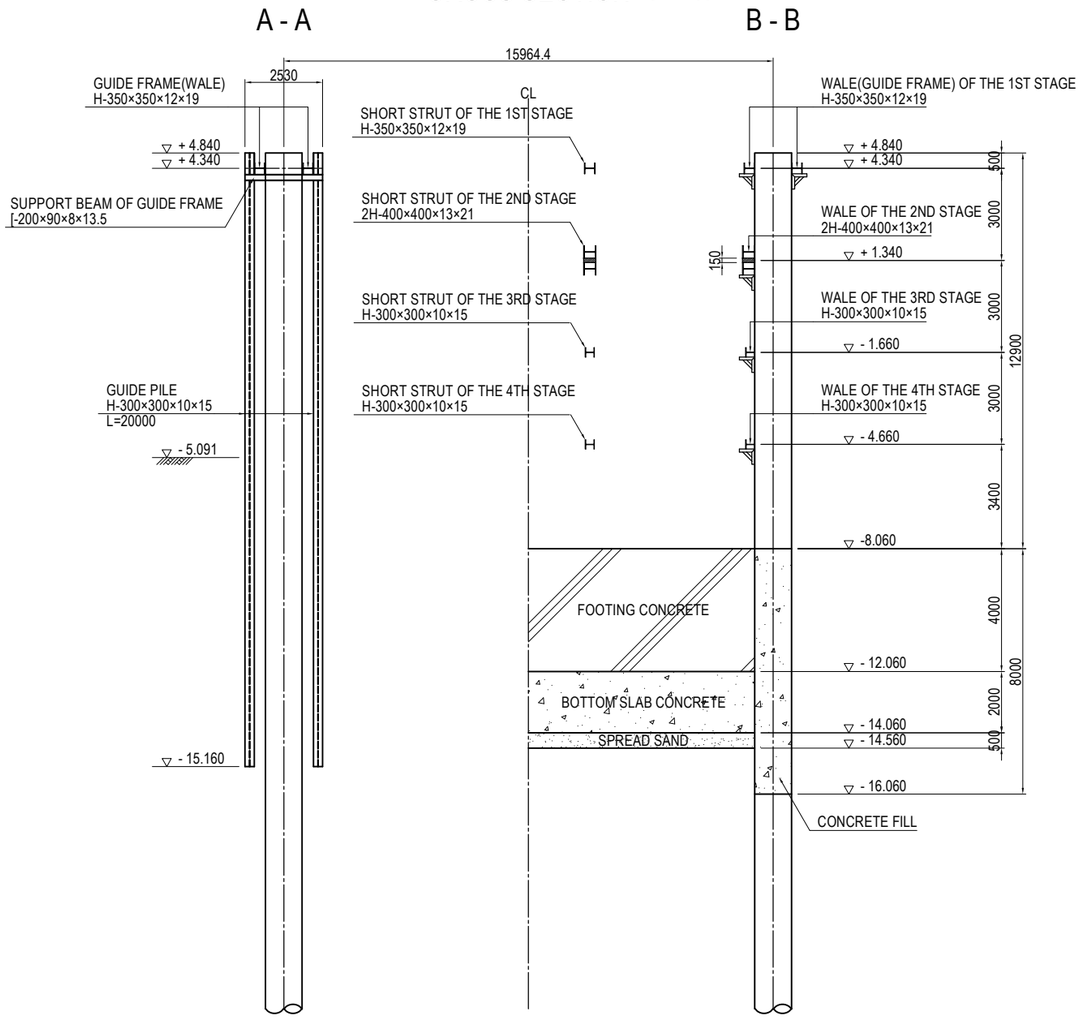


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

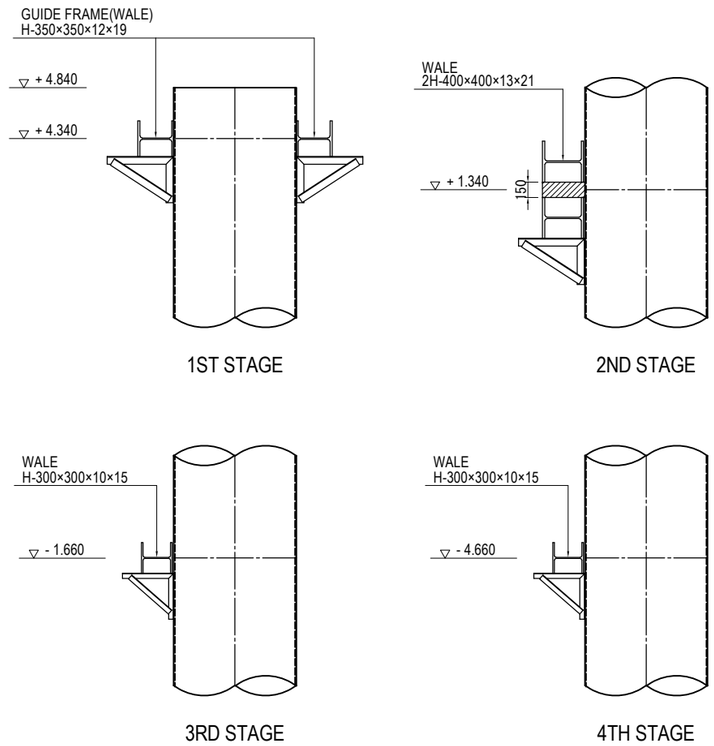
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P15 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2130

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P15 PIER (2)

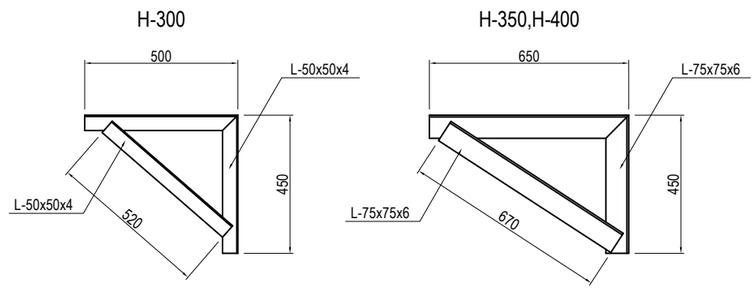
CROSS SECTION S=1:200



DETAIL OF ATTACHMENT OF WALE S=1:60



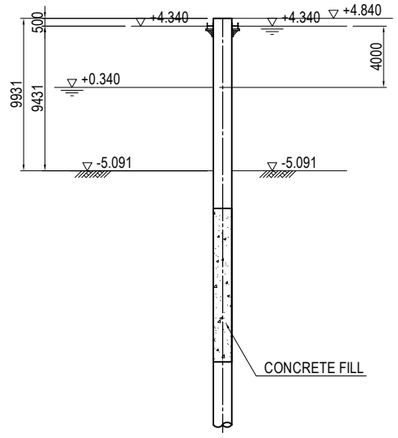
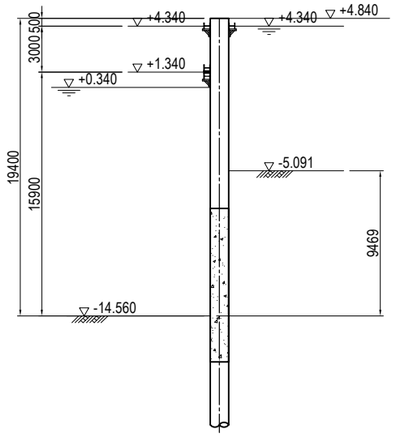
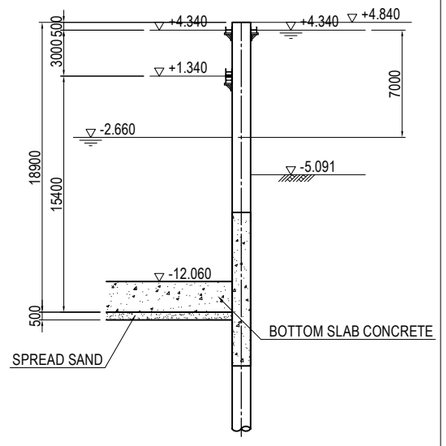
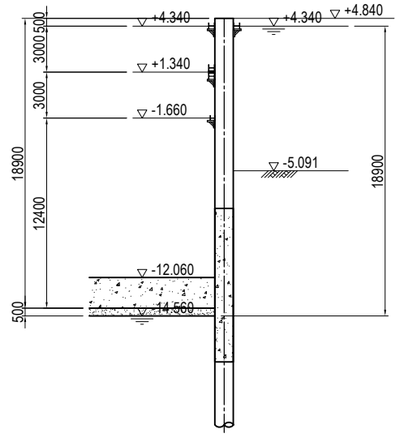
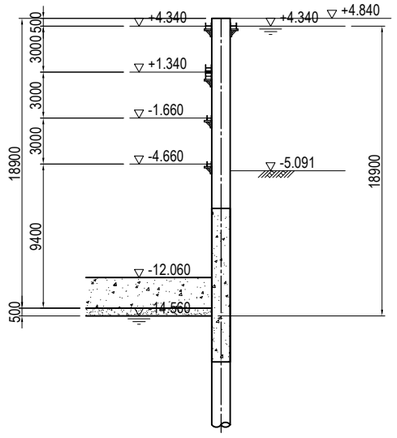
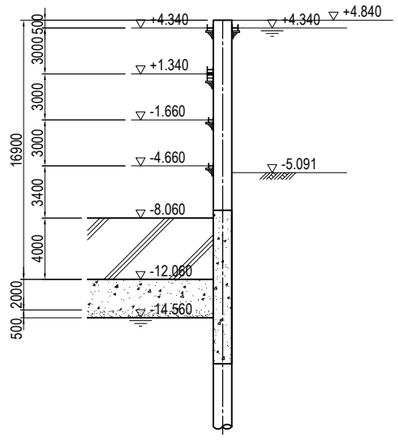
DETAIL OF BRACKET S=1:20



PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P15 PIER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2131

(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P15 PIER S=1:400

STEP 1	STEP 2	STEP 3	STEP 4	STEP 5
				
Excavate inside of exterior sheet pilles and filled with concrete as shown. draining the inside of cofferdam up to +0.340m level. the 1st support Installation.	The 2nd support Installation. underwater excavation up to -14.560m level.	Draining the inside of cofferdam up to -2.660m level. Placement of spread sand followed by Casting undeawater bottom slab concrete.	The 3rd support Installation. Dry up inside the cofferdam.	The 4th support Installation.
STEP 6				
				
Casting of footing concrete.				

Note : This drawing can be used for reference only.

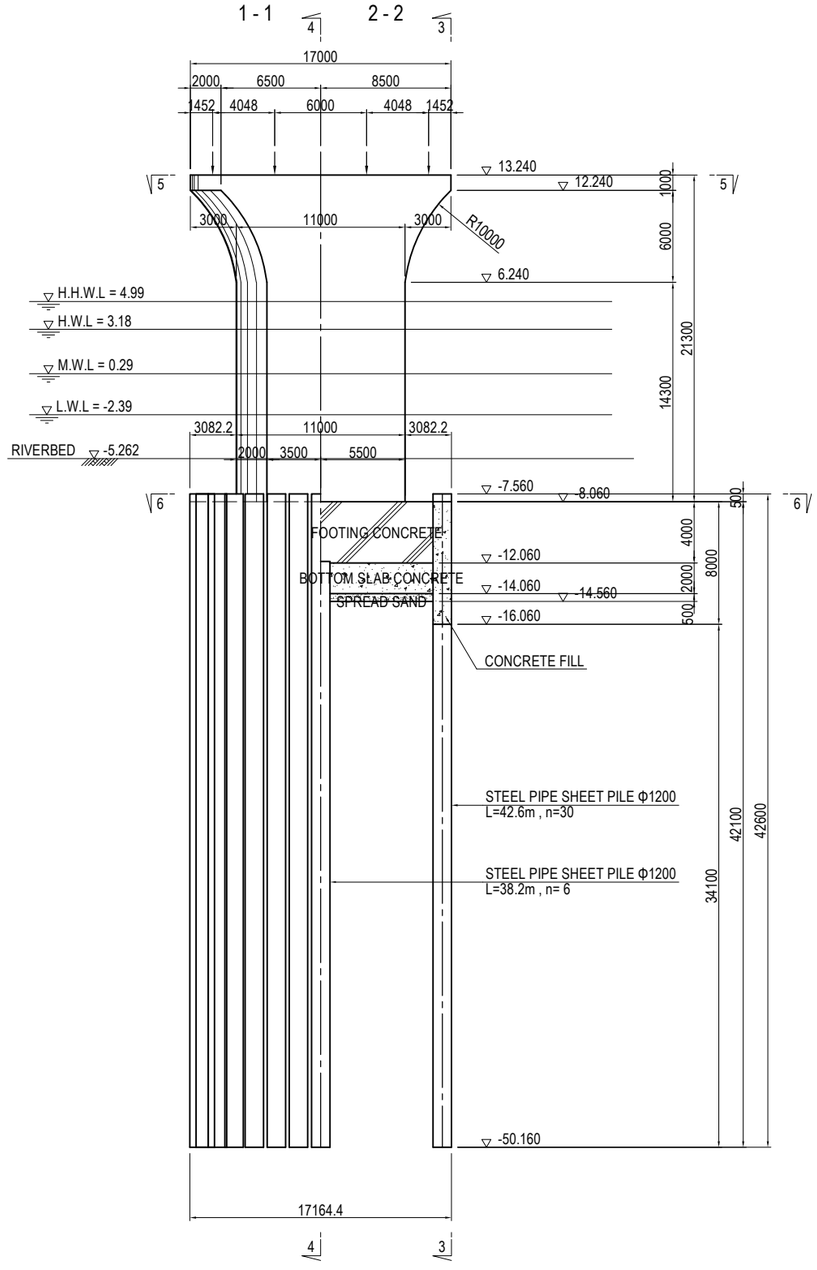
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P15 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2132

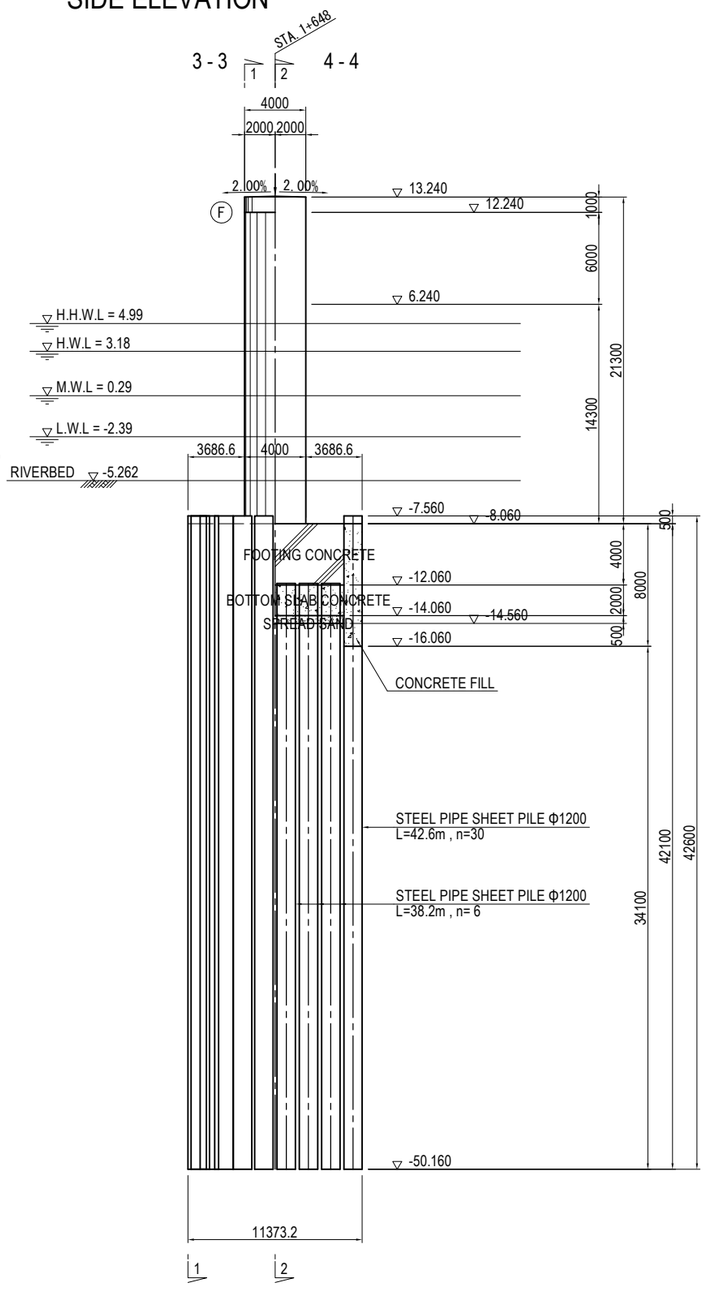
GENERAL VIEW OF P16 PIER (1)

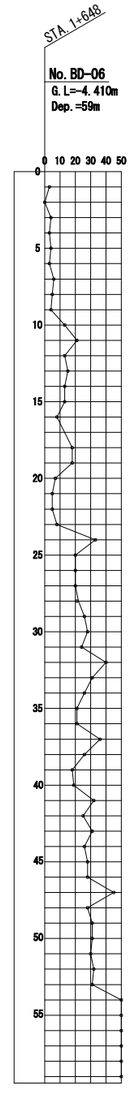
S=1:400

FRONT ELEVATION



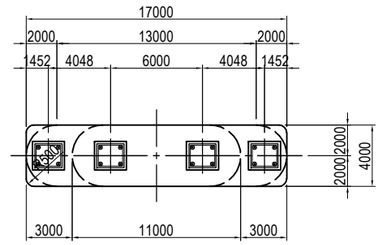
SIDE ELEVATION





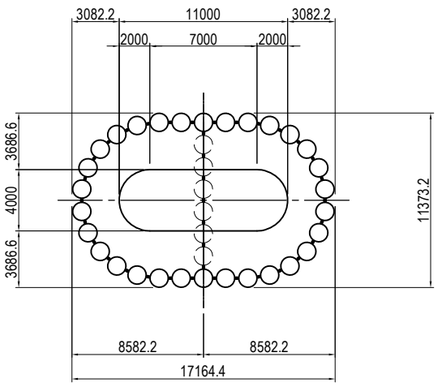
PLAN

5 - 5



PLAN

6 - 6



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm²	SD345
COLUMN	σck = 30 N/mm²	SD390・SD345
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

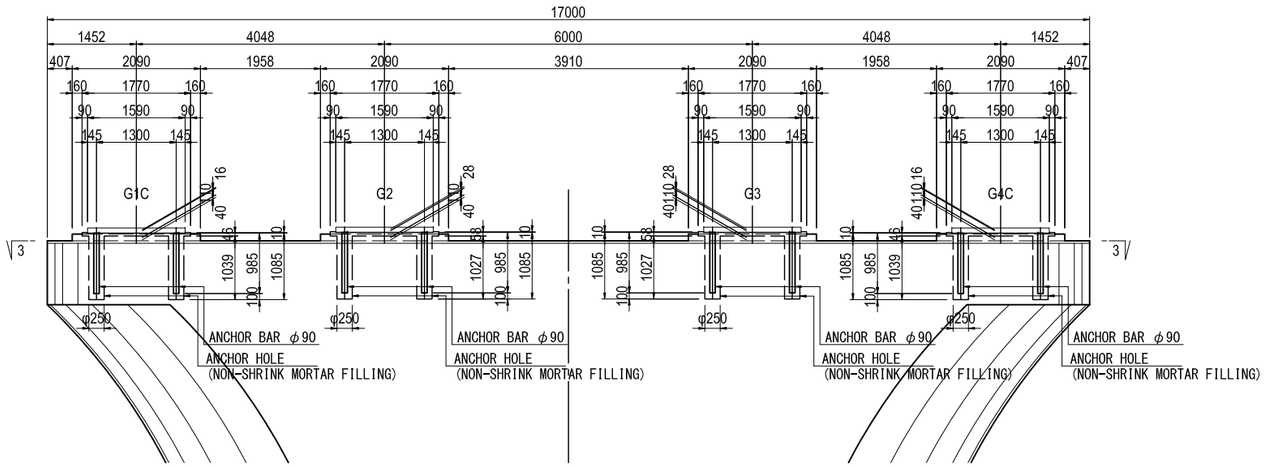
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	GENERAL VIEW OF P16 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2201

GENERAL VIEW OF P16 PIER (2)

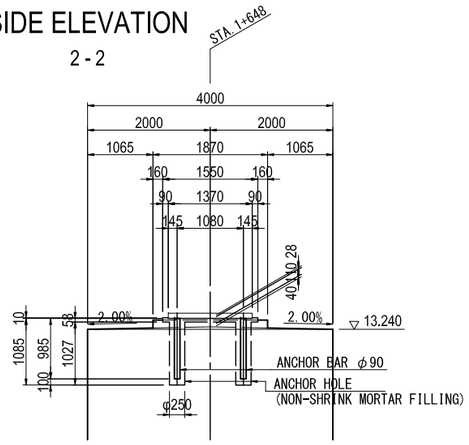
S=1:100

DETAIL OF BEARING AND ANCHOR

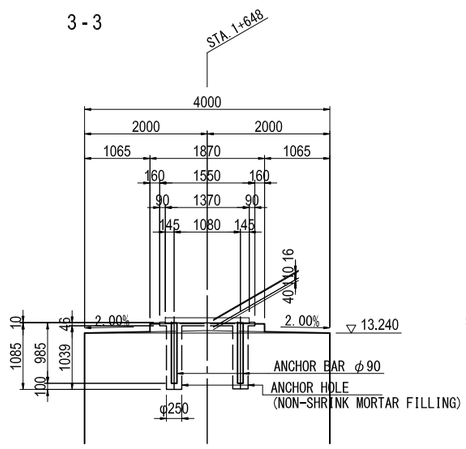
FRONT ELEVATION
1 - 1



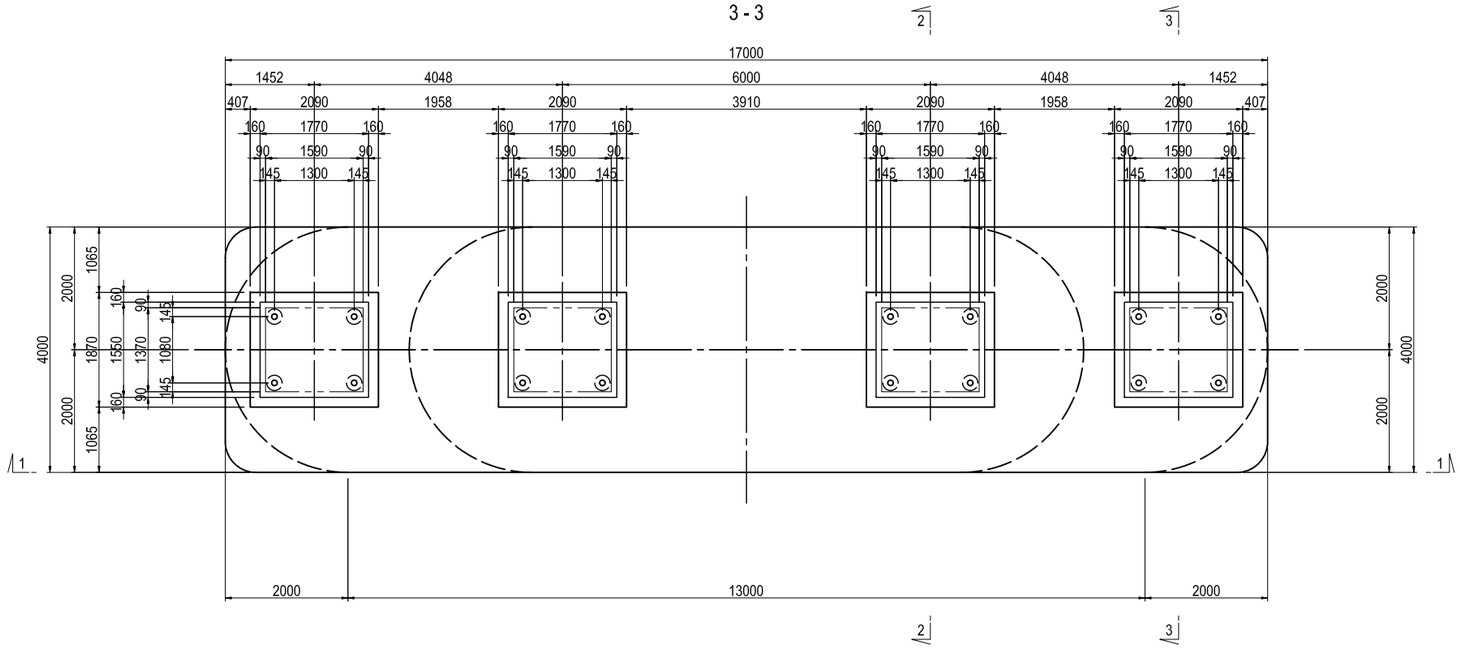
SIDE ELEVATION
2 - 2

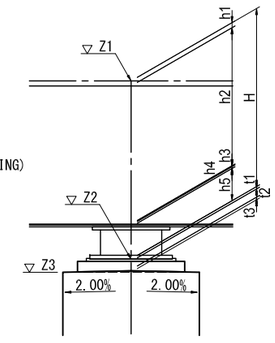


SIDE ELEVATION
3 - 3



PLAN
3 - 3





		P16 PIER			
		G1C	G2	G3	G4C
PROPOSED HEIGHT	Z1	16.625	16.706	16.706	16.625
PAVEMENT	h1	0.080	0.080	0.080	0.080
GIRDER	h2	2.709	2.790	2.790	2.709
BOTTOM FLANGE	h3	0.042	0.030	0.030	0.042
SOLE PLATE	h4	0.035	0.035	0.035	0.035
BEARING	h5	0.353	0.353	0.353	0.353
SUBTOTAL	H	3.219	3.288	3.288	3.219
ELEVATION OF BEARING BOTTOM	Z2	13.406	13.418	13.418	13.406
MORTAR	t1	0.016	0.028	0.028	0.016
BEARING BASE	t2	0.110	0.110	0.110	0.110
DRAINAGE INCLINE	t3	0.040	0.040	0.040	0.040
ELEVATION OF PIER TOP	Z3	13.240	13.240	13.240	13.240

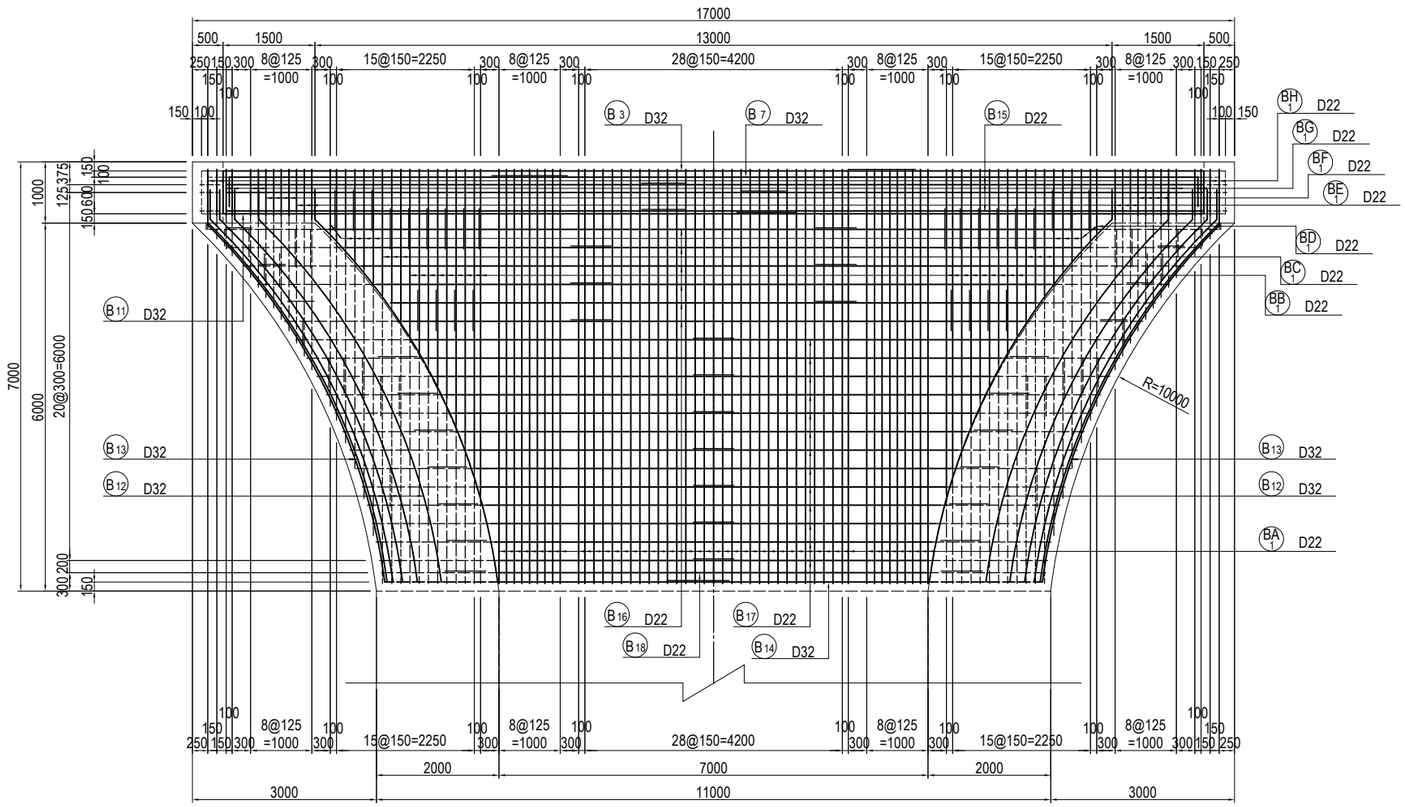
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	GENERAL VIEW OF P16 PIER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2202

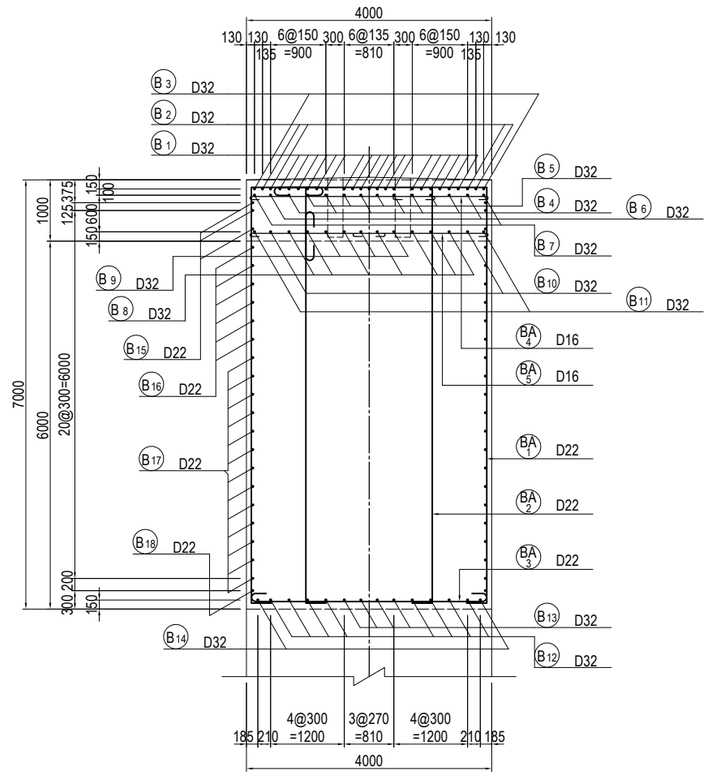
BAR ARRANGEMENT OF P16 PIER (1) S=1:100

BEAM

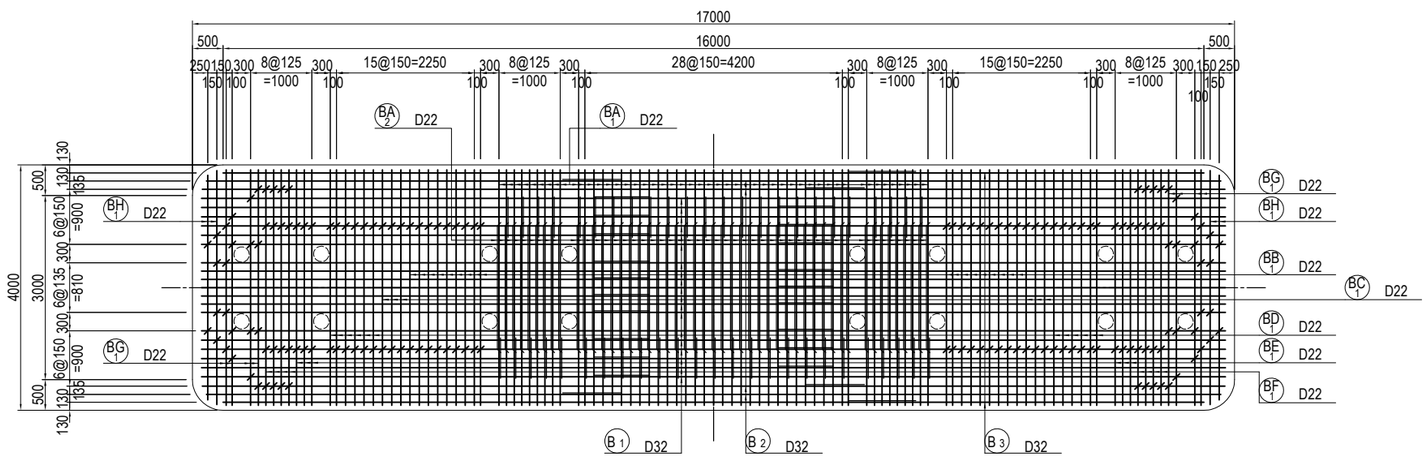
FRONT ELEVATION
1 - 1



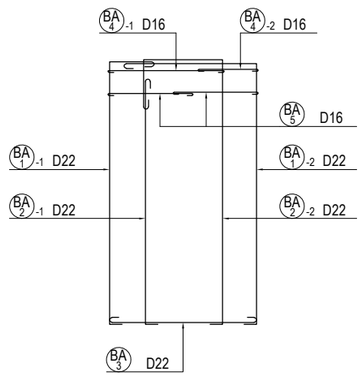
SECTION
3 - 3



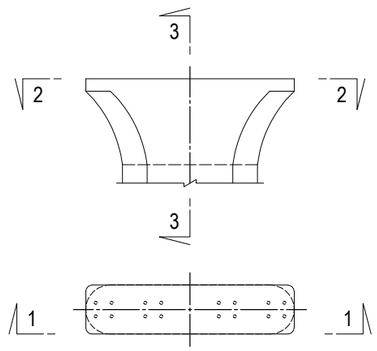
PLAN
2 - 2



ASSEMBLY DRAWING OF STIRRUP



MARKING DIAGRAM



USE MATERIALS

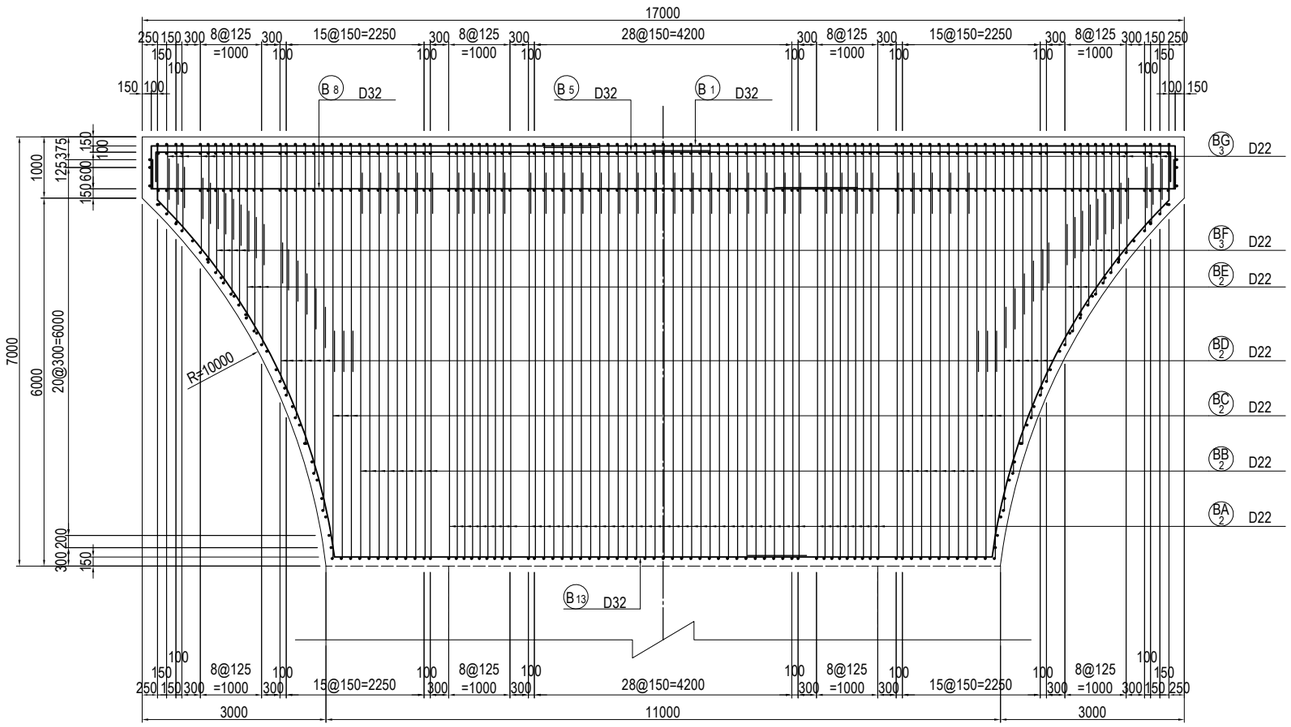
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P16 PIER (1)	1
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2203

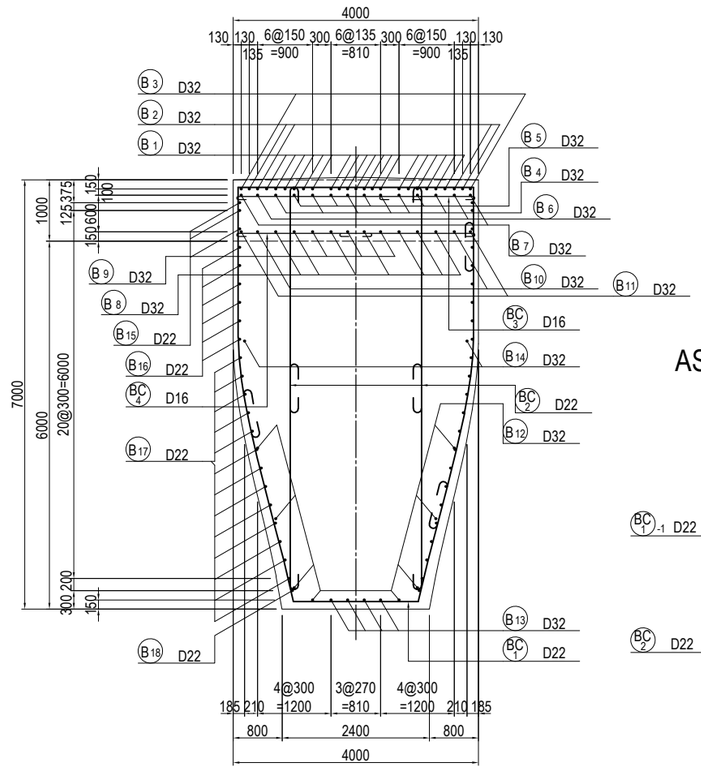
BAR ARRANGEMENT OF P16 PIER (2) S=1:100

BEAM

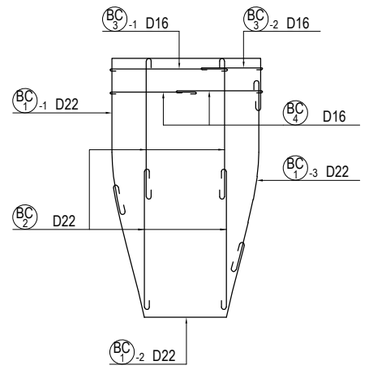
SECTION 4 - 4



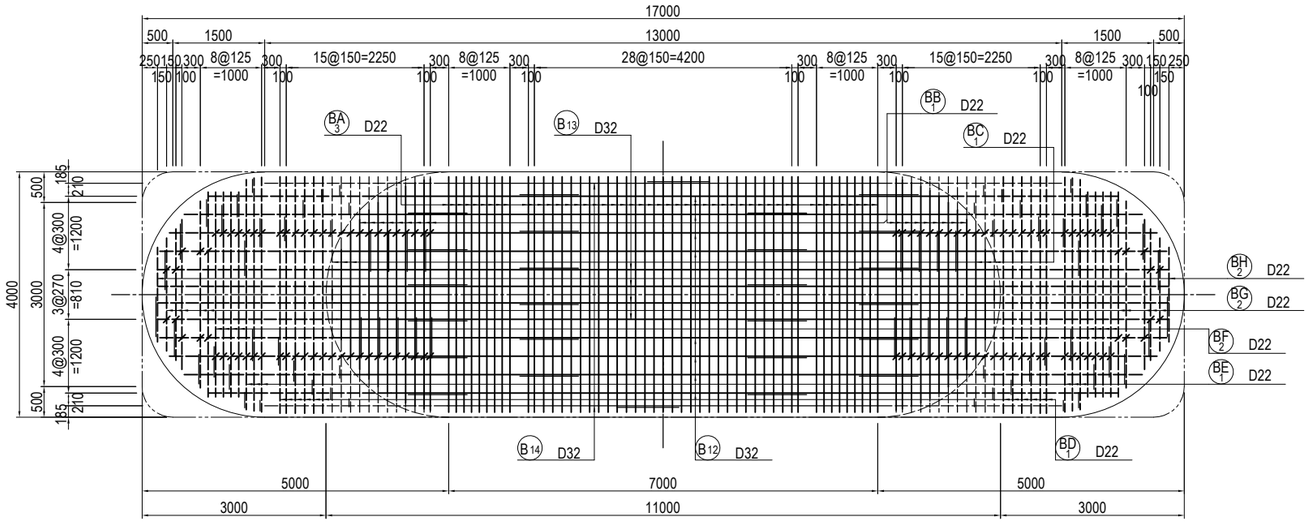
SECTION 7 - 7



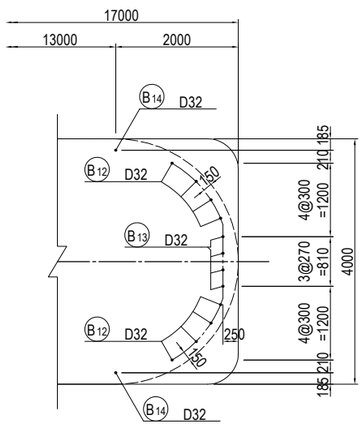
ASSEMBLY DRAWING OF STIRRUP



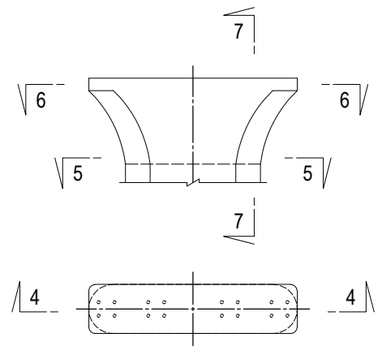
PLAN 5 - 5



PLAN 6 - 6



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

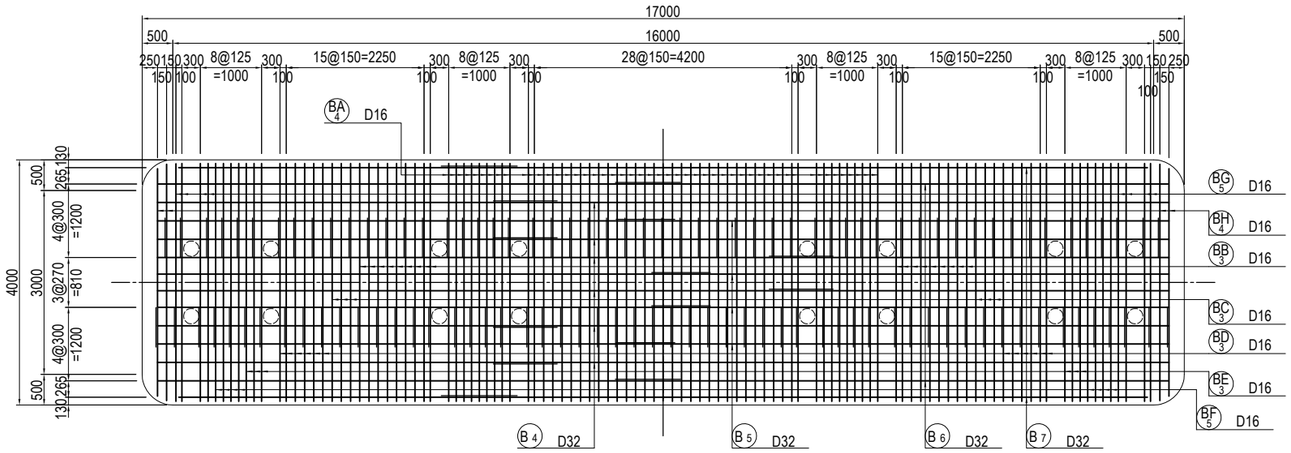
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P16 PIER (2)	1
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2204

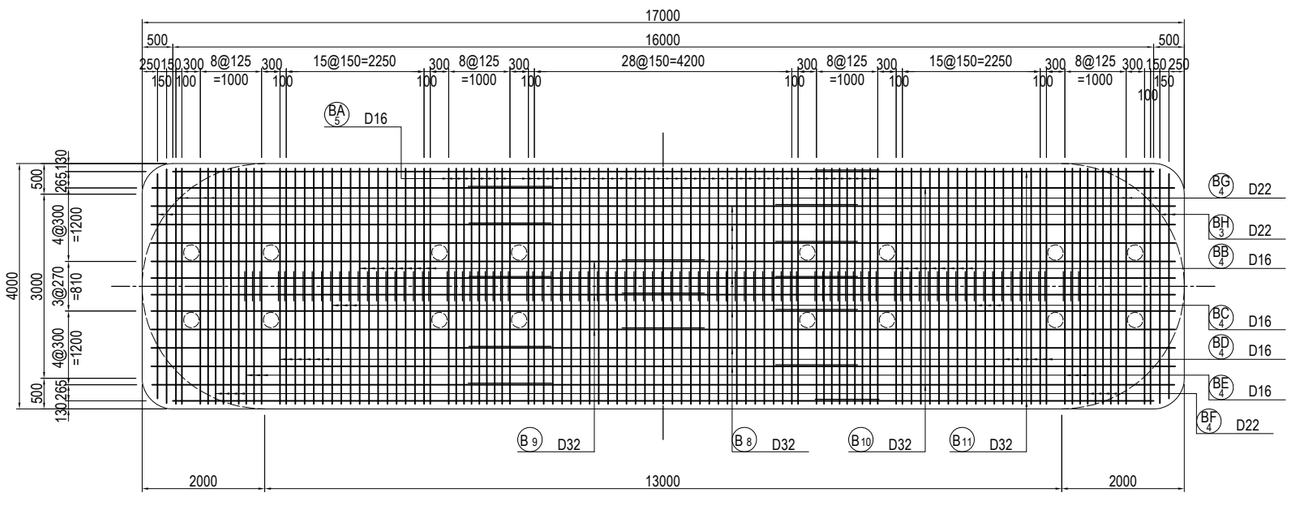
BAR ARRANGEMENT OF P16 PIER (3) S=1:100

BEAM

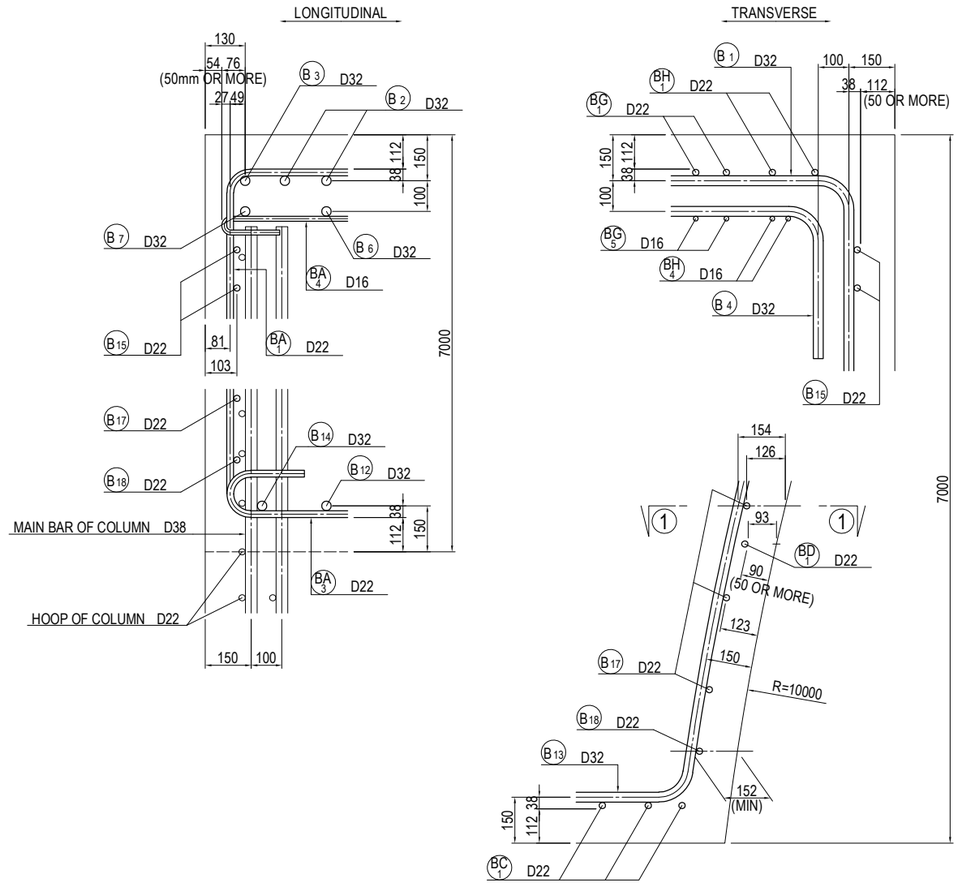
PLAN 8 - 8



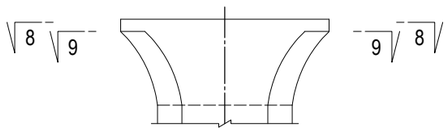
PLAN 9 - 9



DETAIL OF BEAM S=1:20



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P16 PIER (3)	1
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2205

BAR ARRANGEMENT OF P16 PIER (4) S=1:100

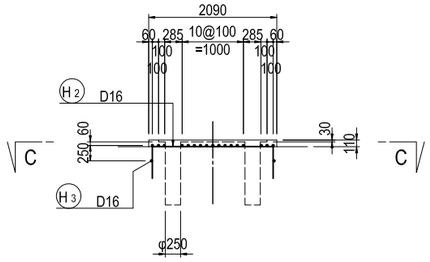
BEAM

BAR ARRANGEMENT OF BEARING BASE

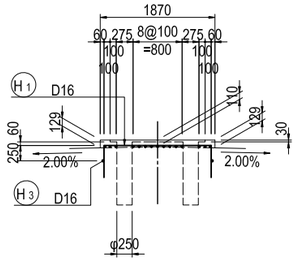
(N = 4)

SECTION

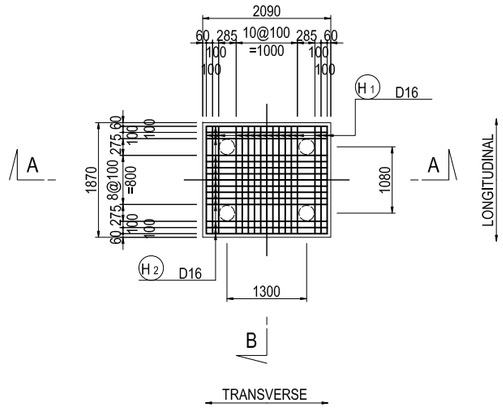
A - A

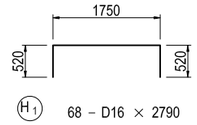


B - B

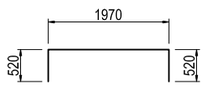


PLAN
C - C

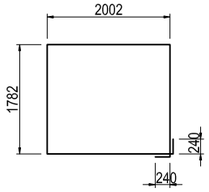




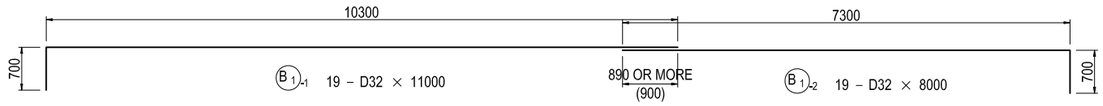
H1 68 – D16 × 2790

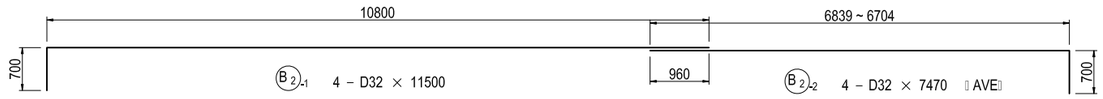


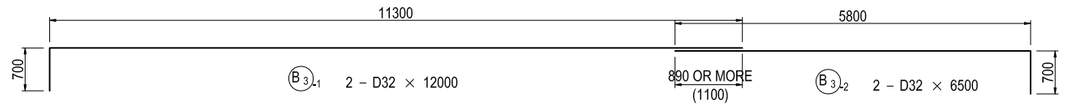
H2 60 – D16 × 3010

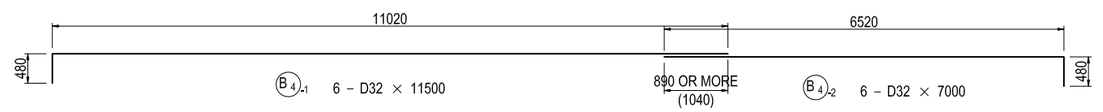


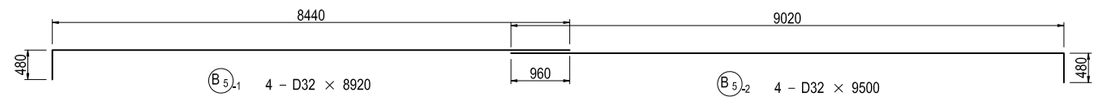
H3 4 – D16 × 8050

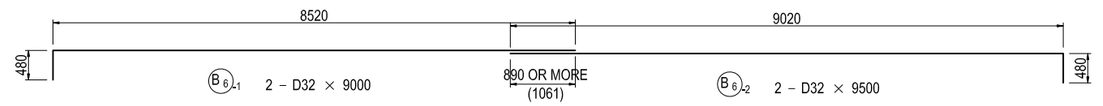


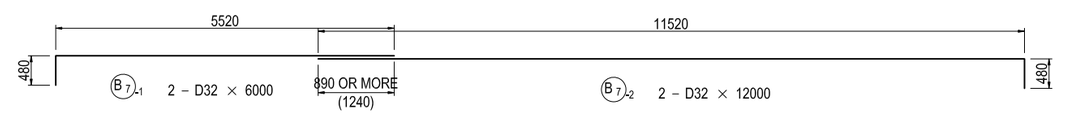












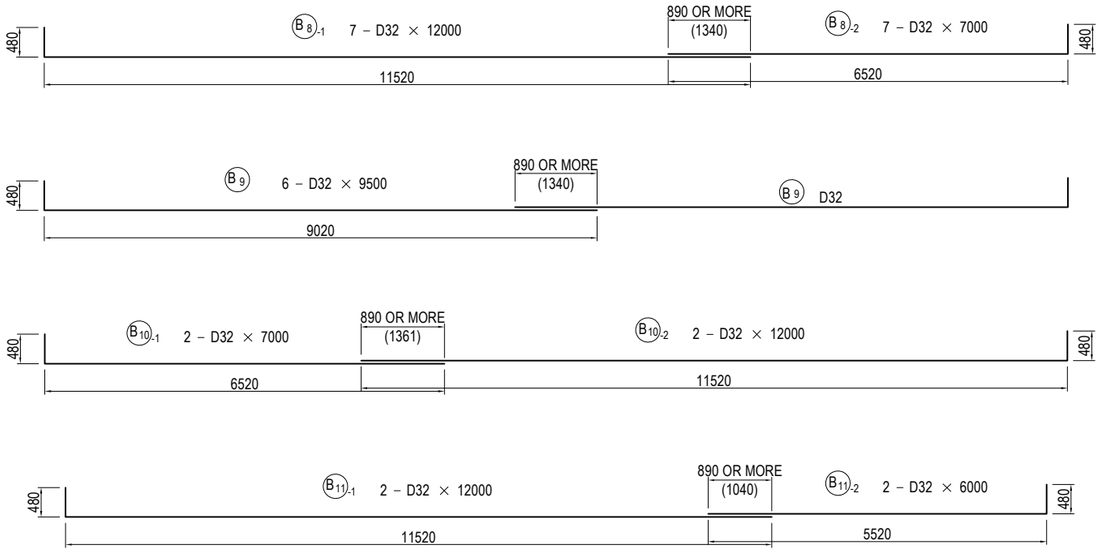
USE MATERIALS

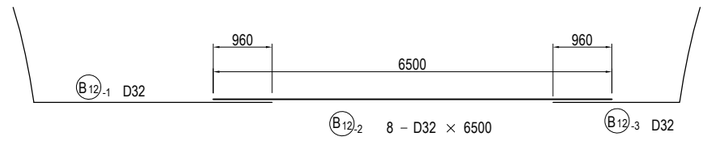
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

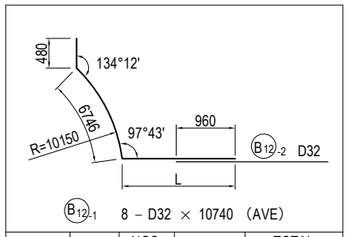
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P16 PIER (4)	1
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2206

BAR ARRANGEMENT OF P16 PIER (5) S=1:100

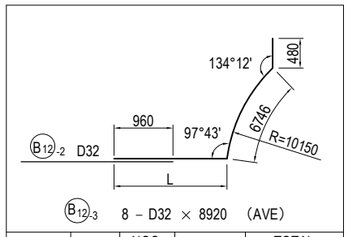
BEAM



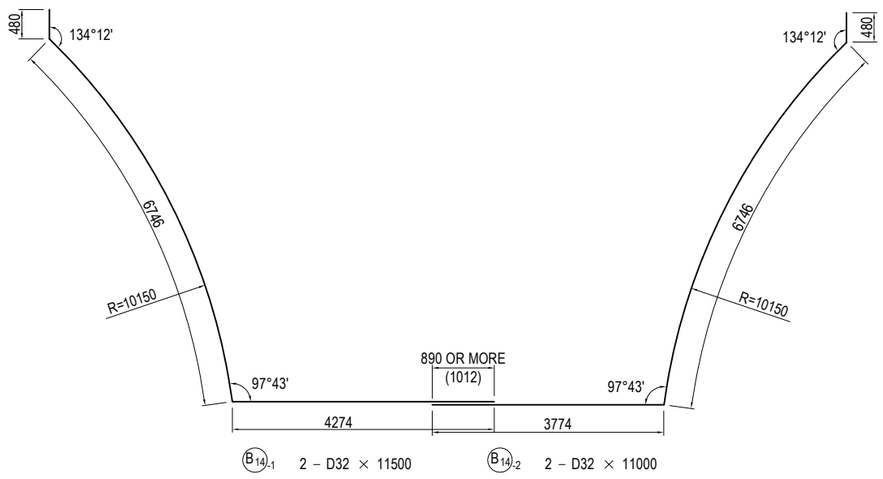


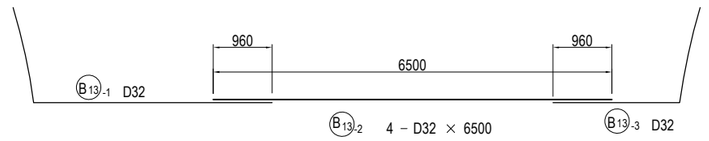


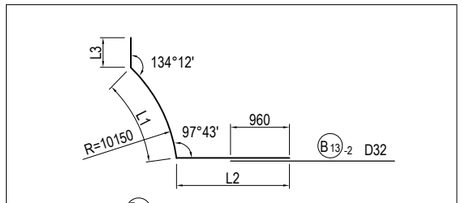
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B12 -1 1	D32	2	3058	10284
2	"	2	3449	10675
3	"	2	3691	10917
4	"	2	3848	11074
AVE		8		10738



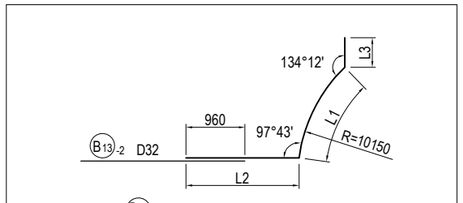
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B12 -3 1	D32	2	1238	8464
2	"	2	1629	8855
3	"	2	1871	9097
4	"	2	2028	9254
AVE		8		8918







MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
B13 -1 1	D32	2	6669	3943	840	11452
2	"	2	6613	3983	880	11476
AVE		4				11464



MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
B13 -3 1	D32	2	6669	2123	840	9632
2	"	2	6613	2163	880	9656
AVE		4				9644

USE MATERIALS

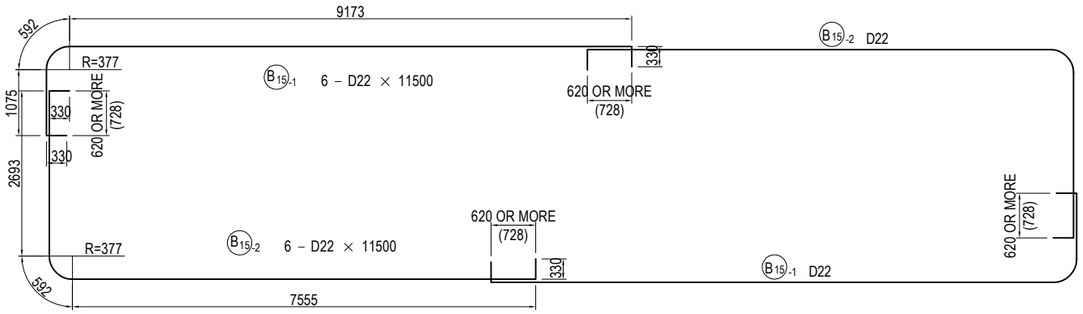
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

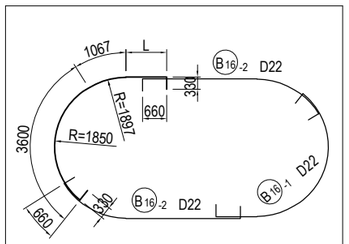
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P16 PIER (5)	1
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2207

BAR ARRANGEMENT OF P16 PIER (6) S=1:100

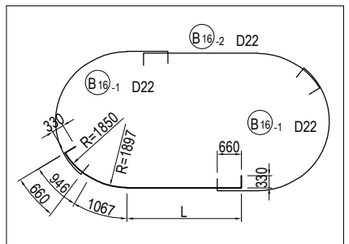
BEAM





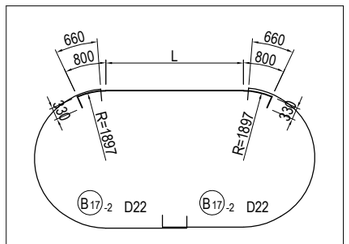
B16-1 12 – D22 × 9300 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-1 1	D22	2	4612	9939
2	"	2	4328	9655
3	"	2	4065	9392
4	"	2	3823	9150
5	"	2	3598	8925
6	"	2	3391	8718
AVE		12		9297



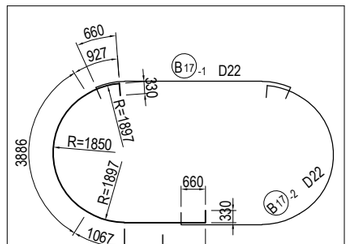
B16-2 12 – D22 × 10640 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-2 1	D22	2	8612	11285
2	"	2	8328	11001
3	"	2	8065	10738
4	"	2	7823	10496
5	"	2	7598	10271
6	"	2	7391	10064
AVE		12		10643



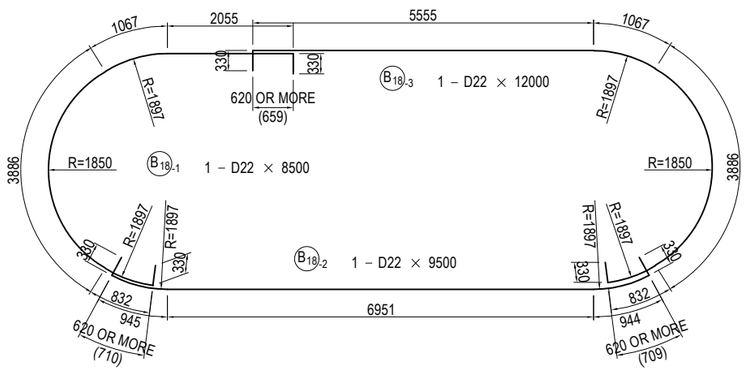
B17-1 13 – D22 × 10400 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B17-1 1	D22	1	9737	11997
2	"	1	9381	11641
3	"	1	9052	11312
4	"	1	8749	11009
5	"	1	8470	10730
6	"	1	8215	10475
7	"	1	7982	10242
8	"	1	7771	10031
9	"	1	7580	9840
10	"	1	7410	9670
11	"	1	7260	9520
12	"	1	7128	9388
13	"	1	7016	9276
AVE		13		10395



B17-2 26 – D22 × 10940 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B17-2 1	D22	2	5198	11738
2	"	2	5020	11560
3	"	2	4856	11396
4	"	2	4705	11245
5	"	2	4565	11105
6	"	2	4438	10978
7	"	2	4321	10861
8	"	2	4215	10755
9	"	2	4120	10660
10	"	2	4035	10575
11	"	2	3960	10500
12	"	2	3894	10434
13	"	2	3838	10378
AVE		26		10937



USE MATERIALS

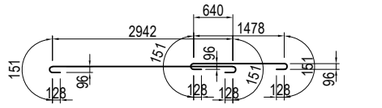
	CONCRETE	BAR
BEAM	σck = 30 N/mm²	SD345

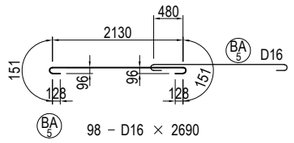
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME	SIGNATURE / DATE
				PREPARED BY	S. IMADA / 15 Jun.2017
				CHECKED BY	T. HAYAKAWA / 20 Jun.2017
				APPROVED BY	Y. SANO / 21 Jun.2017

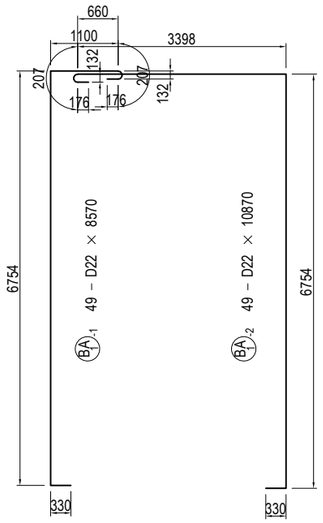
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P16 PIER (6)	2
	DWG No.
	P2-SB-2208

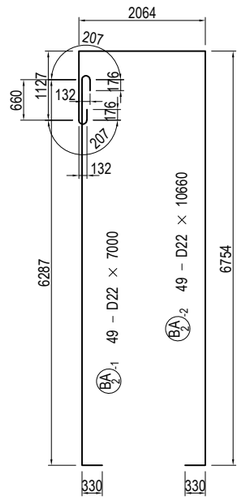
BAR ARRANGEMENT OF P16 PIER (7) S=1:100

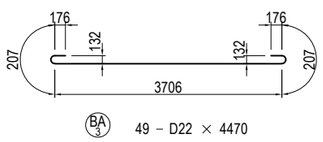
BEAM

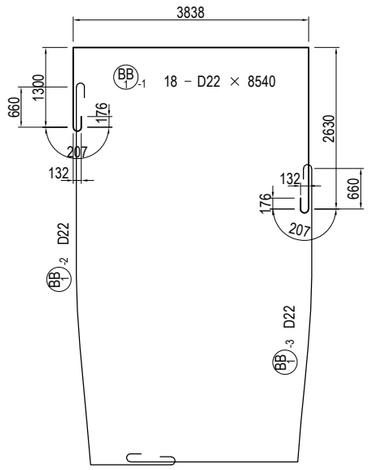


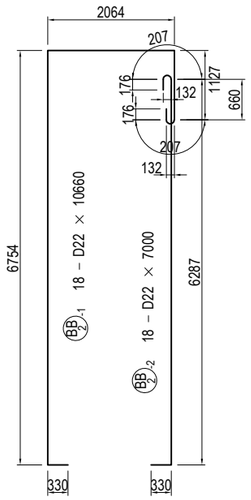


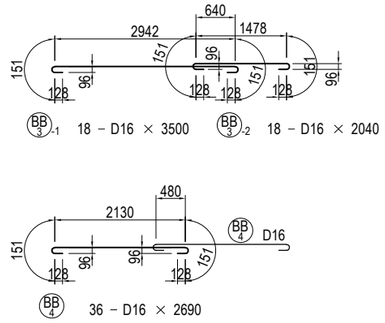


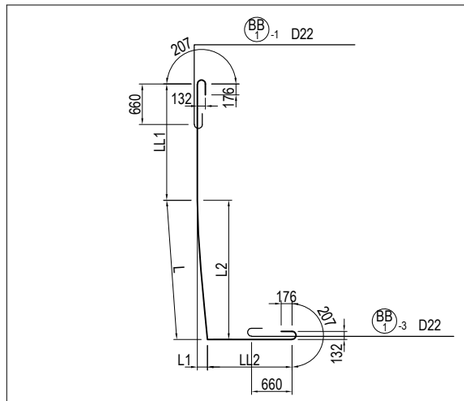






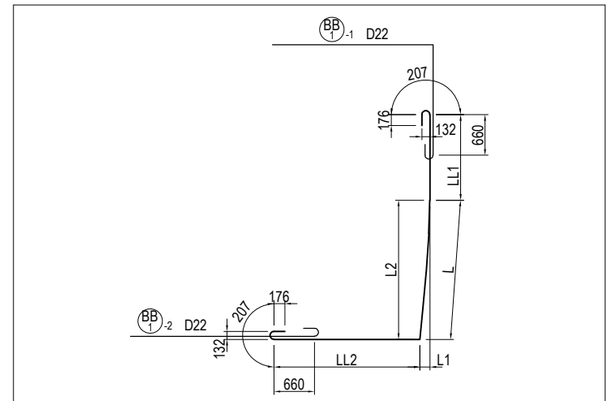






BB1-2 18 – D22 × 8160 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL1	LENGTH LL2	TOTAL LENGTH ΣL
BB1-2 1	D22	2	1464	33	1464	4650	1511	8391
2	"	2	1892	54	1891	4223	1490	8371
3	"	2	2282	97	2280	3834	1447	8329
4	"	2	2606	155	2601	3513	1389	8274
5	"	2	3029	227	3020	3094	1317	8206
6	"	2	3241	315	3225	2889	1229	8125
7	"	2	3607	416	3580	2534	1128	8035
8	"	2	3827	541	3785	2329	1003	7925
9	"	2	4115	698	4051	2063	846	7790
AVE		18						8161



BB1-3 18 – D22 × 8240 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL1	LENGTH LL2	TOTAL LENGTH ΣL
BB1-3 1	D22	2	1464	33	1464	3320	2921	8471
2	"	2	1892	54	1891	2893	2900	8451
3	"	2	2282	97	2280	2504	2857	8409
4	"	2	2606	155	2601	2183	2799	8354
5	"	2	3029	227	3020	1764	2727	8286
6	"	2	3241	315	3225	1559	2639	8205
7	"	2	3607	416	3580	1204	2538	8115
8	"	2	3827	541	3785	999	2413	8005
9	"	2	4115	698	4051	733	2256	7870
AVE		18						8241

USE MATERIALS

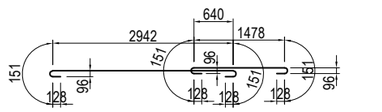
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

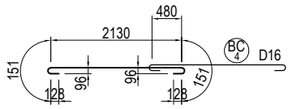
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P16 PIER (7)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2209

BAR ARRANGEMENT OF P16 PIER (8) S=1:100

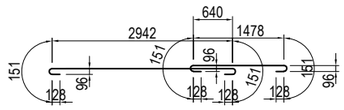
BEAM



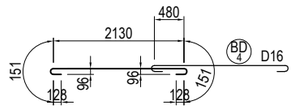
(BC3)-1 6 – D16 × 3500 (BC3)-2 6 – D16 × 2040



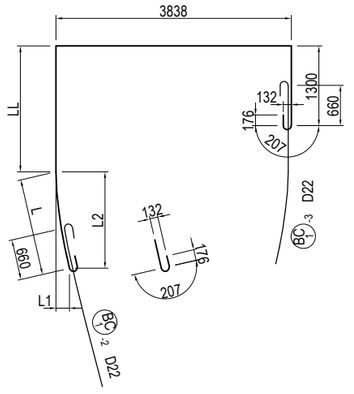
(BC4) 12 – D16 × 2690



(BD3)-1 12 – D16 × 3500 (BD3)-2 12 – D16 × 2040

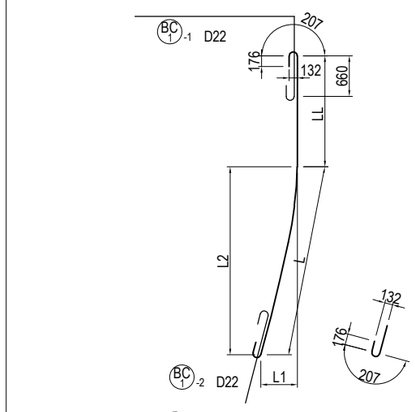


(BD4) 24 – D16 × 2690



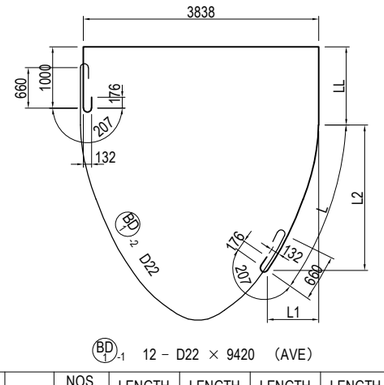
(BC1)-1 6 – D22 × 9950 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BC1-1 1	D22	2	1591	219	1573	2451	9946
2	"	2	1871	304	1837	2177	9952
3	"	2	2008	400	1961	2049	9961
AVE		6					9953



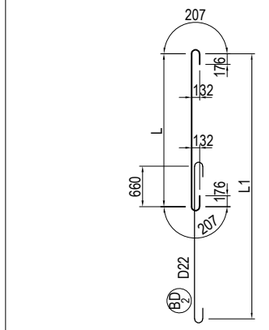
(BC1)-3 6 – D22 × 5730 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BC1-3 1	D22	2	3129	594	3064	1811	5706
2	"	2	3426	761	3327	1537	5729
3	"	2	3591	975	3434	1409	5766
AVE		6					5734



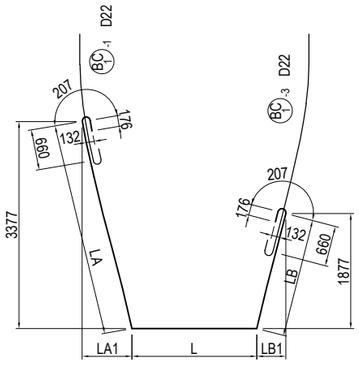
(BD1)-1 12 – D22 × 9420 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BD1-1 1	D22	2	1907	407	1855	1851	9362
2	"	2	2150	524	2071	1623	9377
3	"	2	2289	665	2171	1503	9396
4	"	2	2544	836	2369	1277	9425
5	"	2	2697	1045	2436	1167	9468
6	"	2	2879	1218	2528	1027	9510
AVE		12					9423



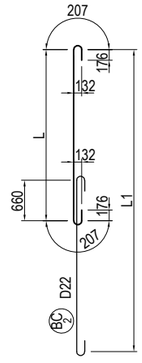
(BD2) 24 – D22 × 2980 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BD2 1	D22	4	2645	4630	3411
2	"	4	2445	4229	3211
3	"	4	2266	3872	3032
4	"	4	2105	3549	2871
5	"	4	1957	3253	2723
6	"	4	1864	3068	2630
AVE		24			2980



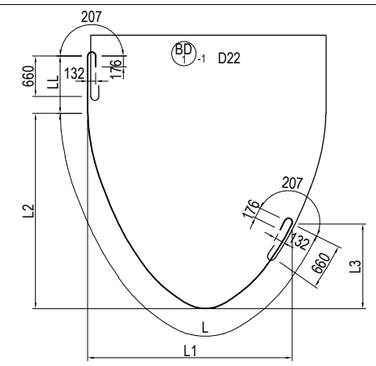
(BC1)-2 6 – D22 × 7630 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LB	LENGTH LB1	LENGTH L	TOTAL LENGTH ΣL
BC1-2 1	D22	2	3474	811	1936	474	2038	8214
2	"	2	3536	1043	1981	760	1465	7748
3	"	2	3791	1621	2209	1120	171	6937
AVE		6						7633



(BC2) 12 – D22 × 3960 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BC2 1	D22	4	3543	6425	4309
2	"	4	3159	5657	3925
3	"	4	2877	5093	3643
AVE		12			3959



(BD1)-2 12 – D22 × 8250 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BD1-2 1	D22	2	8159	3633	4120	2894	1511	10436
2	"	2	7303	3548	3741	2287	1283	9352
3	"	2	6546	3453	3373	1799	1163	8475
4	"	2	5999	3336	3183	1383	937	7702
5	"	2	5399	3189	2925	1015	827	6992
6	"	2	5104	3072	2841	791	687	6557
AVE		12						8252

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

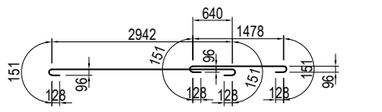
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE: BAR ARRANGEMENT OF P16 PIER (8)

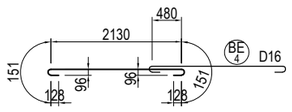
PACKAGE	
	2
DWG No.	P2-SB-2210

BAR ARRANGEMENT OF P16 PIER (9) S=1:100

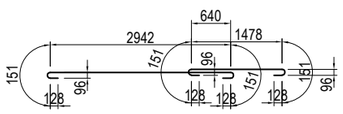
BEAM



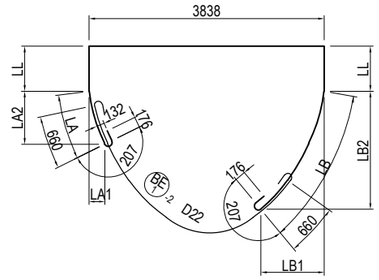
BE3-1 6 – D16 × 3500 BE3-2 6 – D16 × 2040



BE4 12 – D16 × 2690

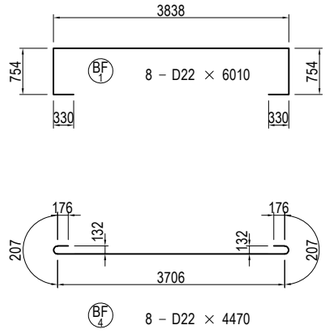


BF5-1 8 – D16 × 3500 BF5-2 8 – D16 × 2040

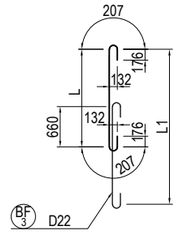


BE1-1 6 – D22 × 9620 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LA2	LENGTH LB	LENGTH LB1	LENGTH LB2	LENGTH LL	TOTAL LENGTH ΣL
BE1-1 1	D22	2	820	196	793	2475	1141	2129	818	9535
2	"	2	905	257	863	2624	1351	2154	736	9605
3	"	2	970	325	906	2780	1612	2117	679	9712
AVE		6								9617

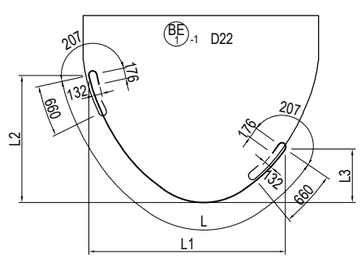


BF4 8 – D22 × 4470



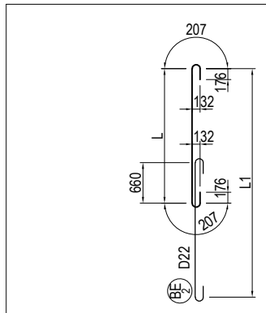
BF3-1 16 – D22 × 1980 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BF3 1	D22	4	1335	2009	2101
2	"	4	1251	1841	2017
3	"	4	1170	1680	1936
4	"	4	1093	1526	1859
AVE		16			1978



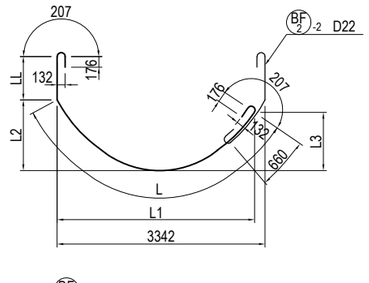
BE1-2 6 – D22 × 4990 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
BE1-2 1	D22	2	4693	3139	2292	792	5459
2	"	2	4230	2959	2069	569	4996
3	"	2	3755	2725	1858	358	4521
AVE		6					4992



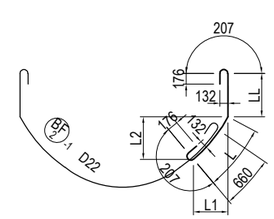
BE2 12 – D22 × 2280 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BE2 1	D22	4	1611	2561	2377
2	"	4	1514	2368	2280
3	"	4	1423	2185	2189
AVE		12			2282



BF2-1 8 – D22 × 5850 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BF2-1 1	D22	2	4397	3300	1340	1258	1228	6391
2	"	2	4172	3218	1287	1068	1092	6030
3	"	2	3933	3126	1233	887	964	5663
4	"	2	3721	3016	1196	713	829	5316
AVE		8						5850



BF2-2 8 – D22 × 2790 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BF2-2 1	D22	2	753	407	631	1228	2747
2	"	2	912	530	737	1092	2770
3	"	2	1069	665	828	964	2799
4	"	2	1243	821	914	829	2838
AVE		8					2789

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME
DETAILED DESIGN ON
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JICA STUDY TEAM
NIPPON KOEI CO., LTD.
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METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

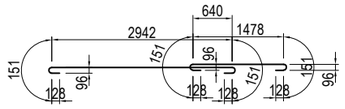
DRAWING TITLE: BAR ARRANGEMENT OF P16 PIER (9)

PACKAGE: 2

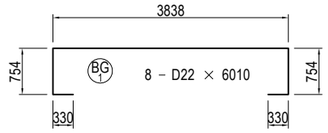
DWG No. P2-SB-2211

BAR ARRANGEMENT OF P16 PIER (10) S=1:100

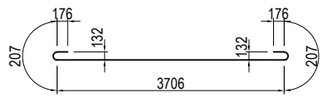
BEAM



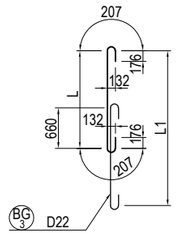
BG5-1 8 – D16 × 3500 BG5-2 8 – D16 × 2040



BG1 8 – D22 × 6010

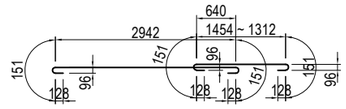


BG4 8 – D22 × 4470



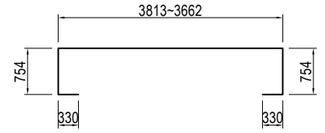
BG3 20 – D22 × 1700 (AVE)

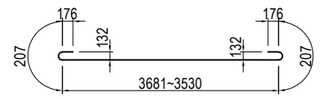
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BG3 1	D22	4	1113	1565	1879
2	"	4	1038	1415	1804
3	"	4	869	1077	1635
4	"	4	866	1071	1632
5	"	4	787	914	1553
AVE		20			1701



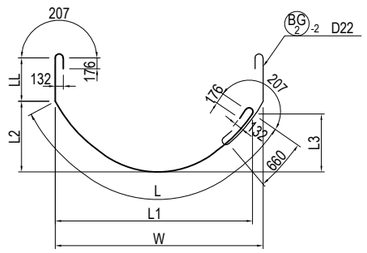
BH4-1 4 – D16 × 3500 BH4-2 4 – D16 × 1940 (AVE)

BH1 4 – D22 × 5910 (AVE)



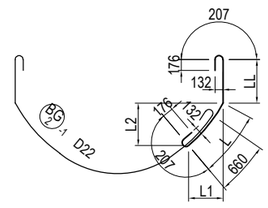


BH3 4 – D22 × 4370 (AVE)



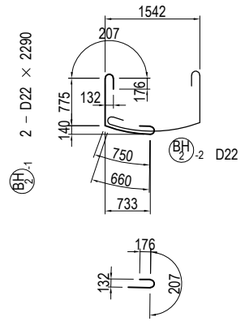
BG2-1 10 – D22 × 4390 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH W	LENGTH LL	TOTAL LENGTH ΣL
BG2-1 1	D22	2	4015	3220	1151	948	3342	707	5488
2	"	2	3528	2977	876	789	3042	824	5118
3	"	2	2594	2371	491	432	2442	852	4212
4	"	2	2227	2077	369	321	2142	863	3856
5	"	2	1715	1639	271	159	1842	799	3280
AVE		10							4391

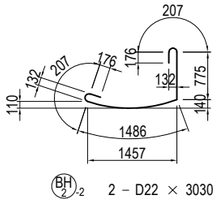


BG2-2 10 – D22 × 2390 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BG2-2 1	D22	2	898	561	694	707	2371
2	"	2	769	545	536	824	2359
3	"	2	752	645	379	852	2370
4	"	2	740	662	320	863	2369
5	"	2	892	840	269	799	2457
AVE		10					2385



BH2-1



BH2-2 2 – D22 × 3030

USE MATERIALS

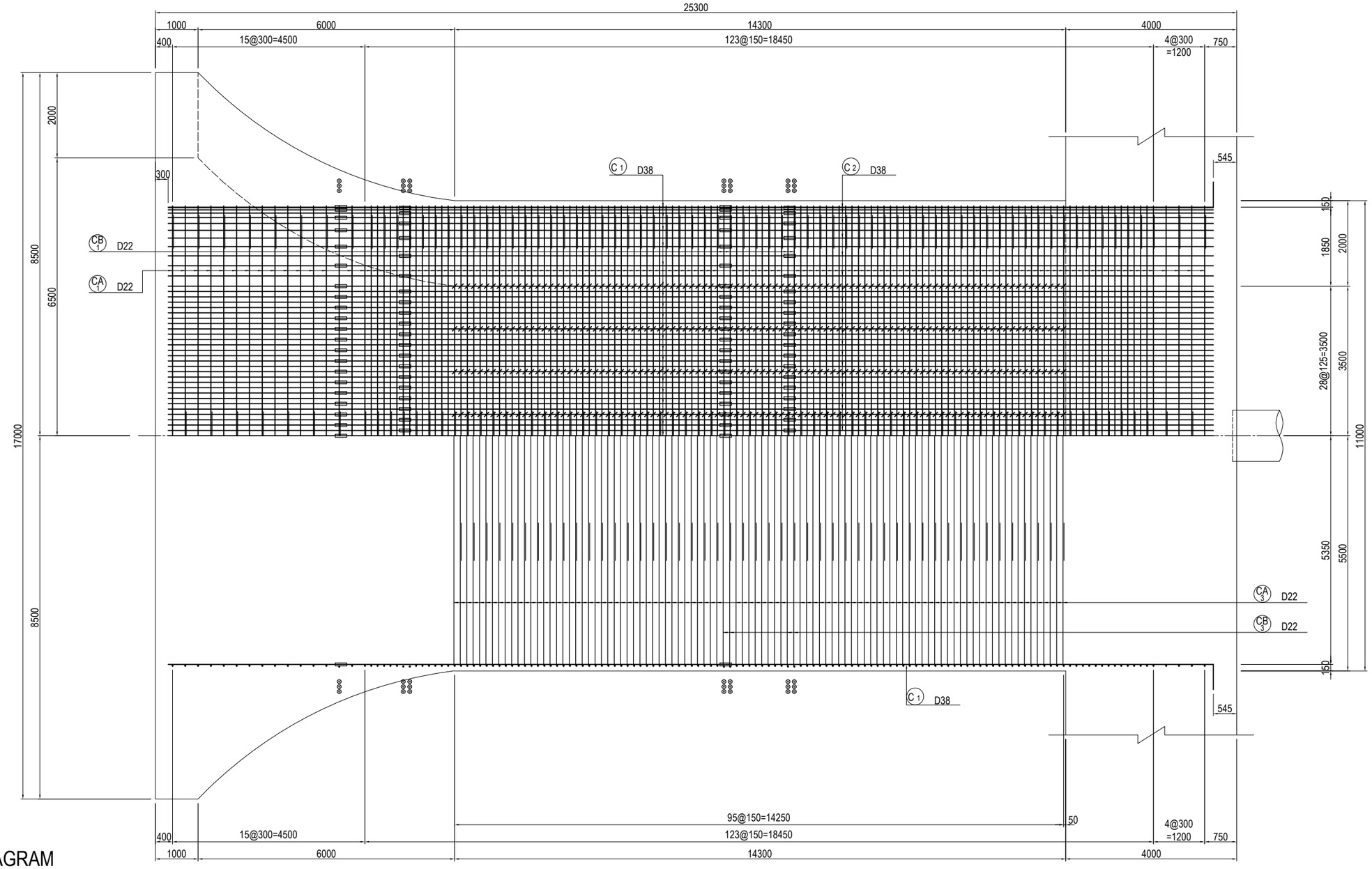
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P16 PIER (10)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2212

BAR ARRANGEMENT OF P16 PIER (11) S=1:100

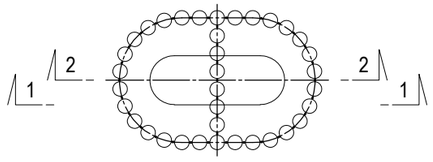
COLUMN

FRONT ELEVATION
1 - 1



SECTION
2 - 2

MARKING DIAGRAM



Notes) 1. ⊙⊙⊙ : This mark indicates hoop arranged in the location of mechanical joint.
2. —⊏⊐— : This mark indicates a mechanical joint.

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

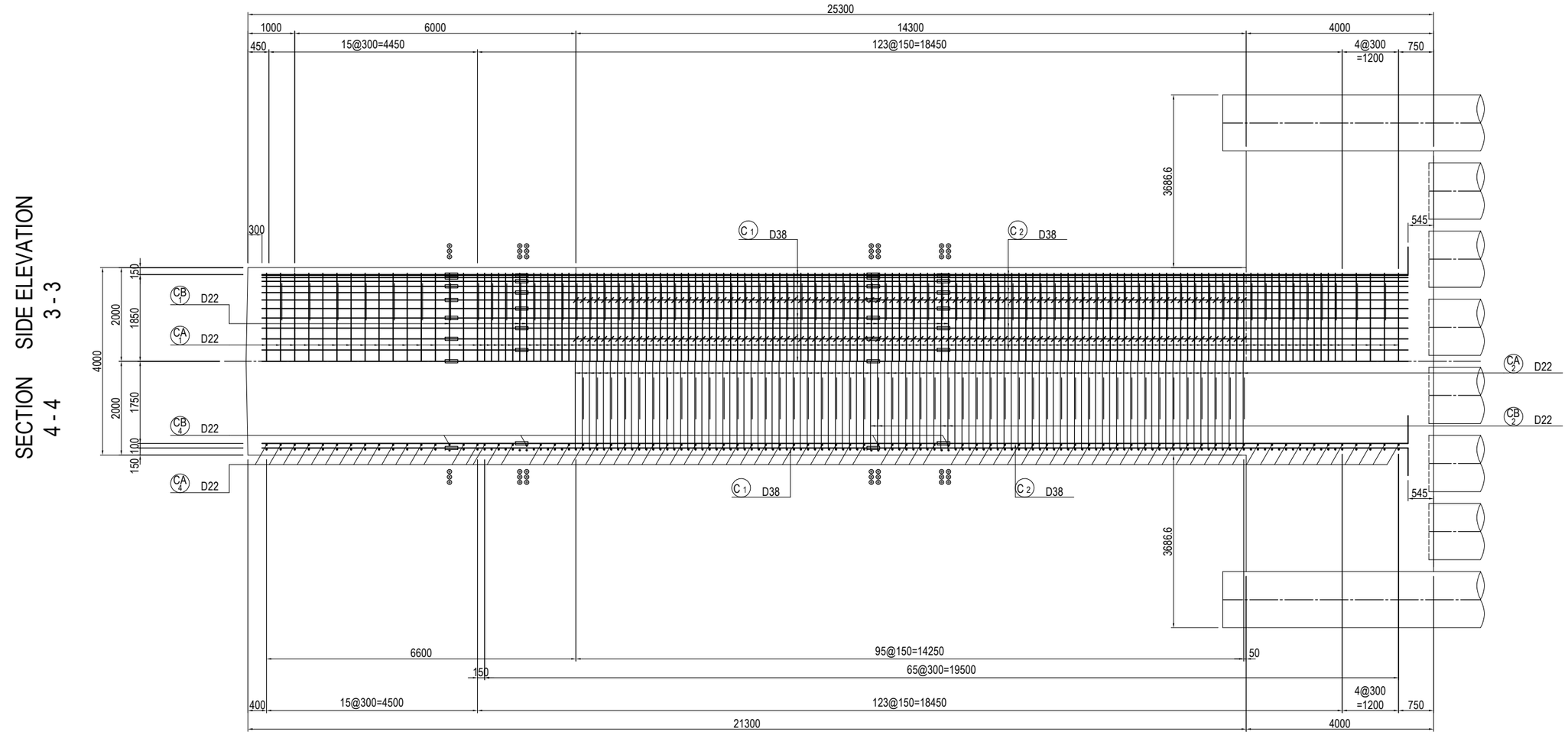
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P16 PIER (11)	2
	DWG No.
	P2-SB-2213

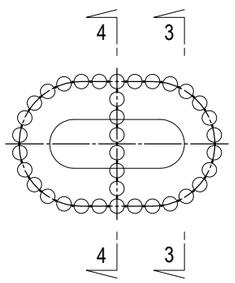
BAR ARRANGEMENT OF P16 PIER (12) S=1:100

COLUMN

SECTION 4 - 4 SIDE ELEVATION 3 - 3



MARKING DIAGRAM



Notes) 1. ⊚⊚⊚ : This mark indicates hoop arranged in the location of mechanical joint.
2. —▭— : This mark indicates a mechanical joint.

USE MATERIALS

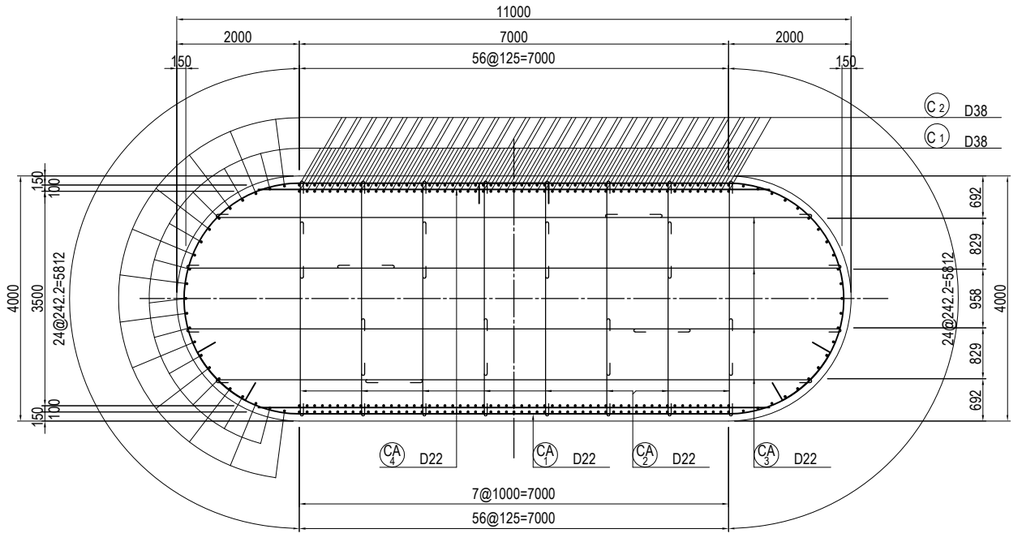
	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
				PREPARED BY	S. IMADA	15 Jun.2017	BAR ARRANGEMENT OF P16 PIER (12)	2
				CHECKED BY	T. HAYAKAWA	20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO	21 Jun.2017		P2-SB-2214

BAR ARRANGEMENT OF P16 PIER (13) S=1:100

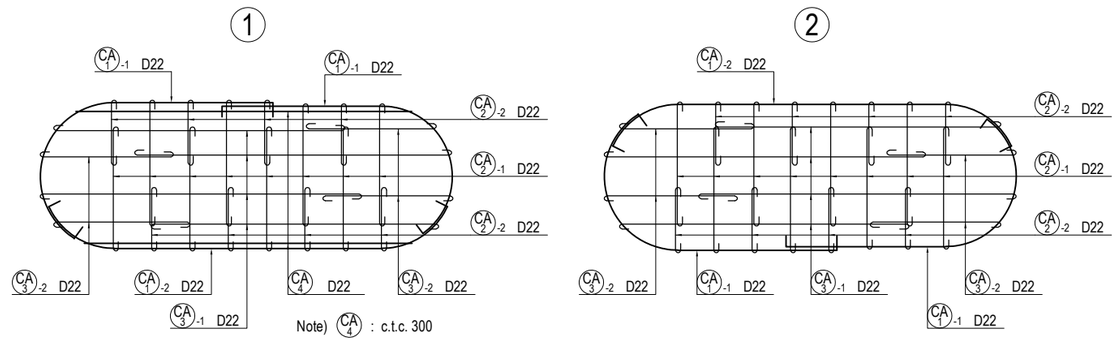
COLUMN

PLAN
5 - 5

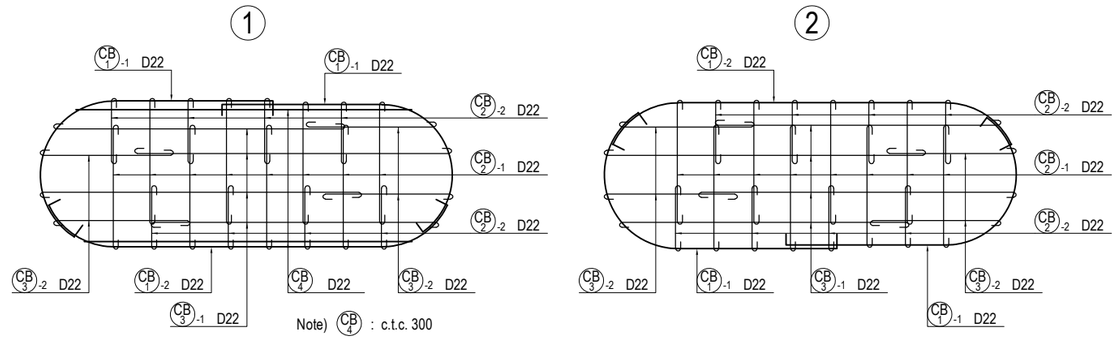


ASSEMBLY DRAWING OF HOOP
(c.t.c. 150)

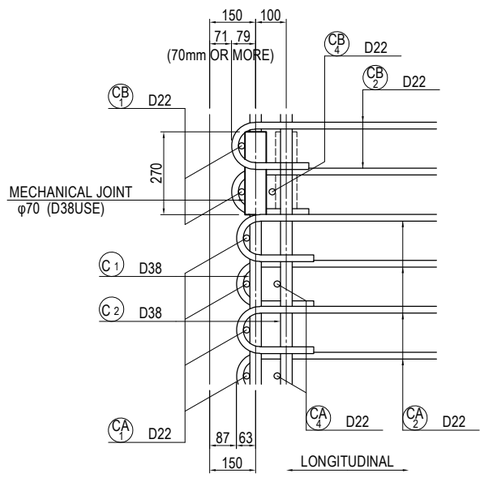
【STANDARD PART】



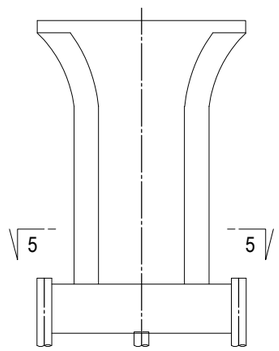
【MECHANICAL JOINT PART】



DETAIL OF COLUMN S=1:20



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

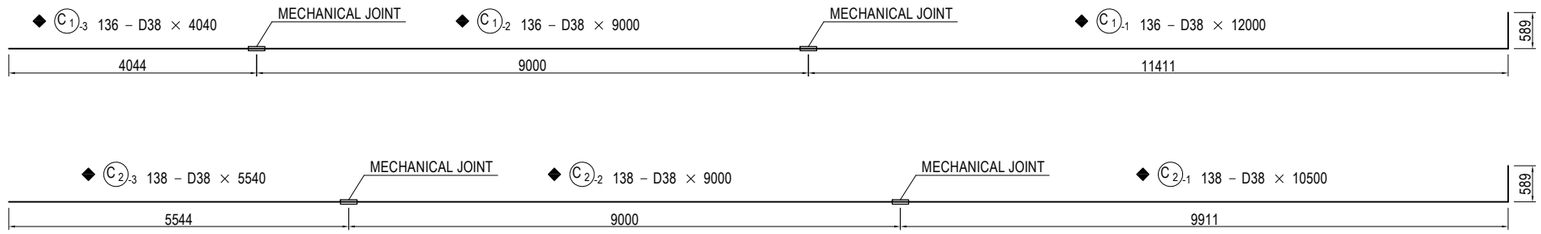
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

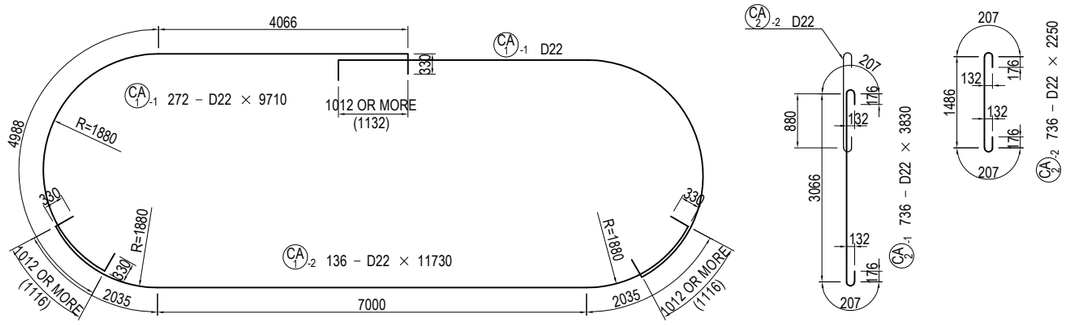
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

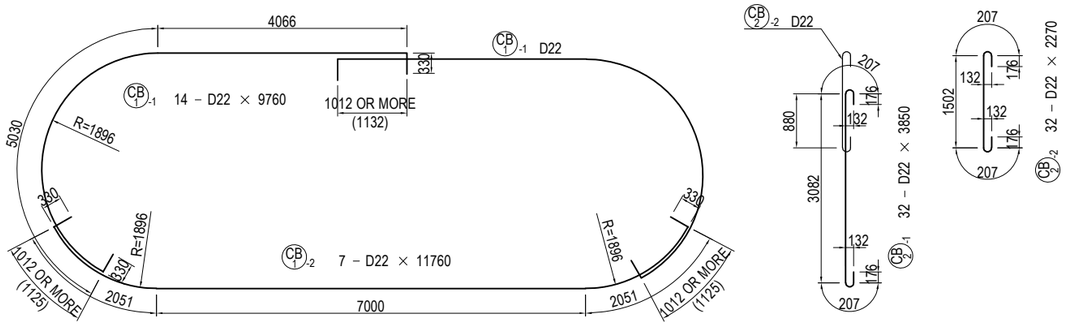
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P16 PIER (13)	2
	DWG No.
	P2-SB-2215

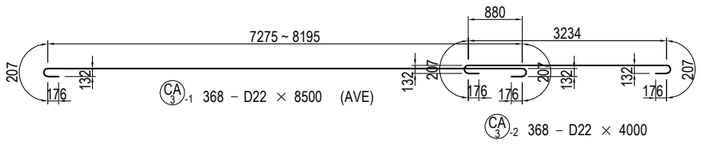
BAR ARRANGEMENT OF P16 PIER (14) S=1:100

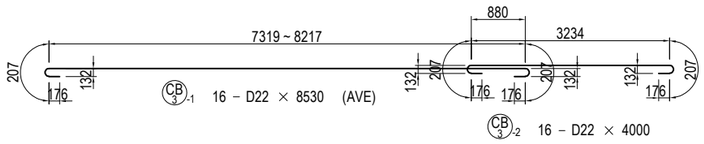
COLUMN

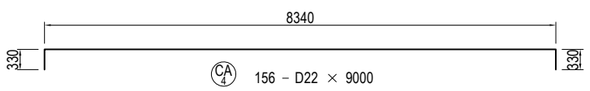


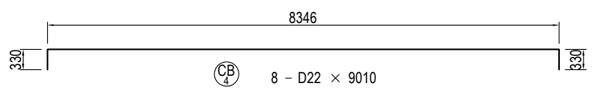




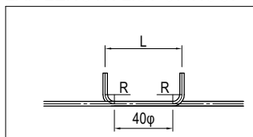








LAP LENGTH LIST OF HOOP



DIA.	R	LAP LENGTH (40φ)	L
D13	39	520	598
D16	48	640	736
D19	57	760	874
D22	66	880	1012
D25	75	1000	1150
D29	87	1160	1334
D32	96	1280	1472

Notes) 1. ◆ : SD390
2. —▭— : MECHANICAL JOINT

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P16 PIER (14)	2
	DWG No.
	P2-SB-2216

BAR ARRANGEMENT OF P16 PIER (15) NOT TO SCALE

BAR SCHEDULE (SD390)

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
C 1-1	D38	12000	136	8.95	107.40	14606	(136)
1-2	"	9000	136	"	80.55	10955	(136)
1-3	"	4040	136	"	36.16	4918	
2-1	"	10500	138	"	93.98	12969	(138)
2-2	"	9000	138	"	80.55	11116	(138)
2-3	"	5540	138	"	49.58	6842	
					SUBTOTAL	61406 kg	
							(MECHANICAL JOINT)
	SD390		D38		61406 kg	(548)	
			TOTAL		61406 kg	(548)	

BAR SCHEDULE (SD345)

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
B 1-1	D32	11000	19	6.23	68.53	1302	
1-2	"	8000	19	"	49.84	947	
2-1	"	11500	4	"	71.65	287	
2-2	"	7470	4	"	46.54	186	(AVE)
3-1	"	12000	2	"	74.76	150	
3-2	"	6500	2	"	40.50	81	
4-1	"	11500	6	"	71.65	430	
4-2	"	7000	6	"	43.61	262	
5-1	"	8920	4	"	55.57	222	
5-2	"	9500	4	"	59.19	237	
6-1	"	9000	2	"	56.07	112	
6-2	"	9500	2	"	59.19	118	
7-1	"	6000	2	"	37.38	75	
7-2	"	12000	2	"	74.76	150	
8-1	"	12000	7	"	74.76	523	
8-2	"	7000	7	"	43.61	305	
9	"	9500	6	"	59.19	355	
10-1	"	7000	2	"	43.61	87	"
10-2	"	12000	2	"	74.76	150	
11-1	"	12000	2	"	74.76	150	
11-2	"	6000	2	"	37.38	75	
12-1	"	10740	8	"	66.91	535	(AVE)
12-2	"	6500	8	"	40.50	324	
12-3	"	8920	8	"	55.57	445	(AVE)
13-1	"	11460	4	"	71.40	286	(AVE)
13-2	"	6500	4	"	40.50	162	
13-3	"	9640	4	"	60.06	240	(AVE)
14-1	"	11500	2	"	71.65	143	
14-2	"	11000	2	"	68.53	137	
15-1	D22	11500	6	3.04	34.96	210	
15-2	"	11500	6	"	34.96	210	
16-1	"	9300	12	"	28.27	339	(AVE)
16-2	"	10640	12	"	32.35	388	(AVE)
17-1	"	10400	13	"	31.62	411	(AVE)
17-2	"	10940	26	"	33.26	865	(AVE)
18-1	"	8500	1	"	25.84	26	
18-2	"	9500	1	"	28.88	29	
18-3	"	12000	1	"	36.48	36	
					SUBTOTAL	10990 kg	
BA 1-1	D22	8570	49	3.04	26.05	1276	
1-2	"	10870	49	"	33.04	1619	
2-1	"	7000	49	"	21.28	1043	
2-2	"	10660	49	"	32.41	1588	
3	"	4470	49	"	13.59	666	
4-1	D16	3500	49	1.56	5.46	268	
4-2	"	2040	49	"	3.18	156	"
5	"	2690	98	"	4.20	412	"
					SUBTOTAL	7028 kg	

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
BB 1-1	D22	8540	18	3.04	25.96	467	
1-2	"	8160	18	"	24.81	447	(AVE)
1-3	"	8240	18	"	25.05	451	(AVE)
2-1	"	10660	18	"	32.41	583	
2-2	"	7000	18	"	21.28	383	
3-1	D16	3500	18	1.56	5.46	98	
3-2	"	2040	18	"	3.18	57	"
4	"	2690	36	"	4.20	151	"
					SUBTOTAL	2637 kg	
BC 1-1	D22	9950	6	3.04	30.25	182	(AVE)
1-2	"	7630	6	"	23.20	139	(AVE)
1-3	"	5730	6	"	17.42	105	(AVE)
2	"	3960	12	"	12.04	144	(AVE)
3-1	D16	3500	6	1.56	5.46	33	
3-2	"	2040	6	"	3.18	19	"
4	"	2690	12	"	4.20	50	"
					SUBTOTAL	672 kg	
BD 1-1	D22	9420	12	3.04	28.64	344	(AVE)
1-2	"	8250	12	"	25.08	301	(AVE)
2	"	2980	24	"	9.06	217	(AVE)
3-1	D16	3500	12	1.56	5.46	66	
3-2	"	2040	12	"	3.18	38	"
4	"	2690	24	"	4.20	101	"
					SUBTOTAL	1067 kg	
BE 1-1	D22	9620	6	3.04	29.24	175	(AVE)
1-2	"	4990	6	"	15.17	91	(AVE)
2	"	2280	12	"	6.93	83	(AVE)
3-1	D16	3500	6	1.56	5.46	33	
3-2	"	2040	6	"	3.18	19	"
4	"	2690	12	"	4.20	50	"
					SUBTOTAL	451 kg	
BF 1	D22	6010	8	3.04	18.27	146	
2-1	"	5850	8	"	17.78	142	(AVE)
2-2	"	2790	8	"	8.48	68	(AVE)
3	"	1980	16	"	6.02	96	(AVE)
4	"	4470	8	"	13.59	109	
5-1	D16	3500	8	1.56	5.46	44	
5-2	"	2040	8	"	3.18	25	"
					SUBTOTAL	630 kg	
BG 1	D22	6010	8	3.04	18.27	146	
2-1	"	4390	10	"	13.35	134	(AVE)
2-2	"	2390	10	"	7.27	73	(AVE)
3	"	1700	20	"	5.17	103	(AVE)
4	"	4470	8	"	13.59	109	
5-1	D16	3500	8	1.56	5.46	44	
5-2	"	2040	8	"	3.18	25	"
					SUBTOTAL	634 kg	

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
BH 1	D22	5910	4	3.04	17.97	72	(AVE)
2-1	"	2290	2	"	6.96	14	
2-2	"	3030	2	"	9.21	18	
3	"	4370	4	"	13.28	53	(AVE)
4-1	D16	3500	4	1.56	5.46	22	
4-2	"	1940	4	"	3.03	12	(AVE)
					SUBTOTAL	191 kg	
H 1	D16	2790	68	1.56	4.35	296	
2	"	3010	60	"	4.70	282	"
3	"	8050	4	"	12.56	50	
					SUBTOTAL	628 kg	
CA 1-1	D22	9710	272	3.04	29.52	8029	
1-2	"	11730	136	"	35.66	4850	
2-1	"	3830	736	"	11.64	8567	
2-2	"	2250	736	"	6.84	5034	"
3-1	"	8500	368	"	25.84	9509	(AVE)
3-2	"	4000	368	"	12.16	4475	"
4	"	9000	156	"	27.36	4268	
					SUBTOTAL	44732 kg	
CB 1-1	D22	9760	14	3.04	29.67	415	
1-2	"	11760	7	"	35.75	250	
2-1	"	3850	32	"	11.70	374	
2-2	"	2270	32	"	6.90	221	"
3-1	"	8530	16	"	25.93	415	(AVE)
3-2	"	4000	16	"	12.16	195	"
4	"	9010	8	"	27.39	219	
					SUBTOTAL	2089 kg	
	SD345		D32		8476 kg		
			D22		60922 "		
			D16		2351 "		
			TOTAL		71749 kg		

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm 2	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

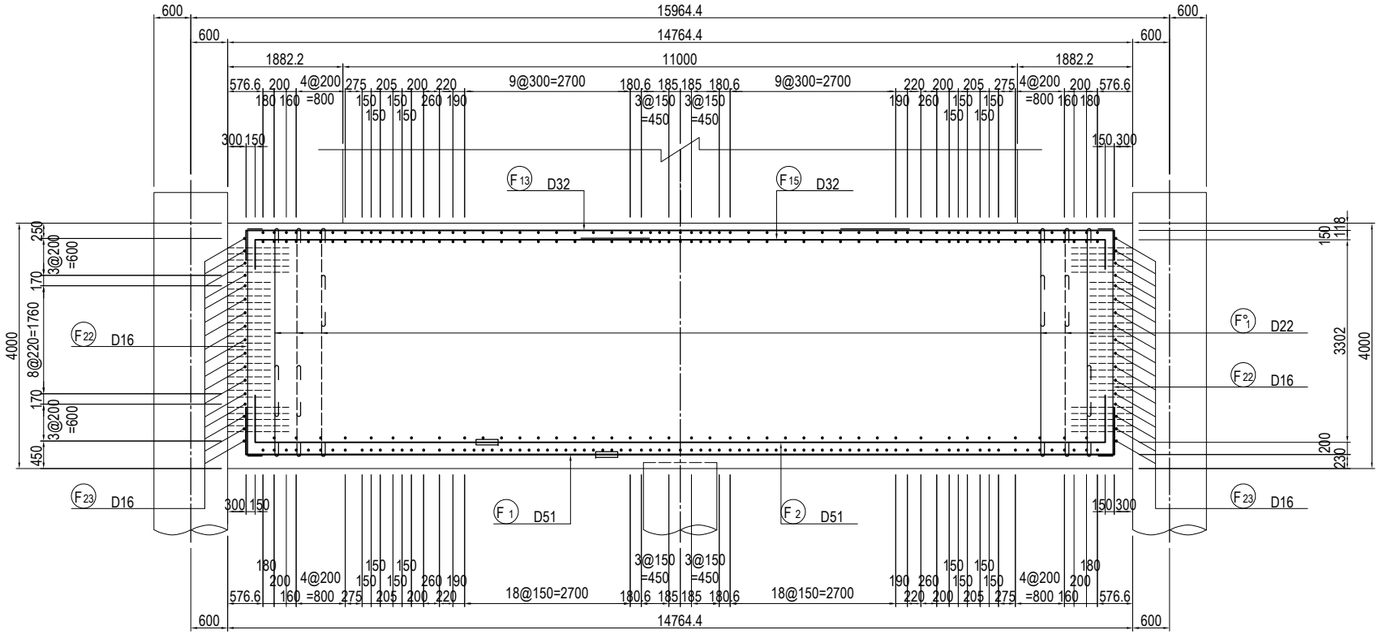
DRAWING TITLE: BAR ARRANGEMENT OF P16 PIER (15)

PACKAGE: 2

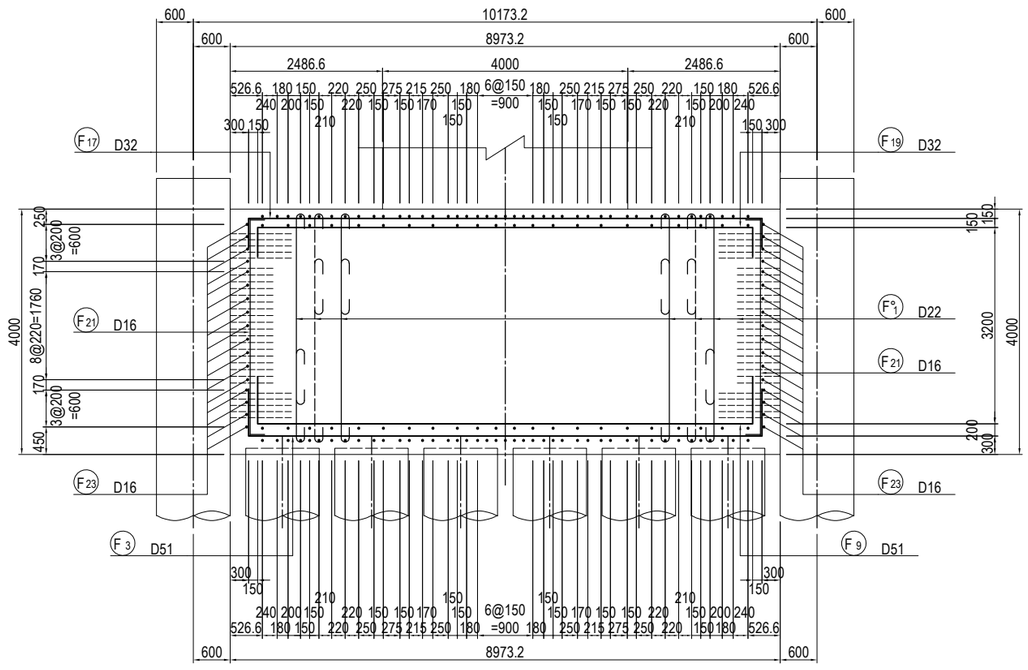
DWG No.: P2-SB-2217

BAR ARRANGEMENT OF P16 FOOTING (1) S=1:100

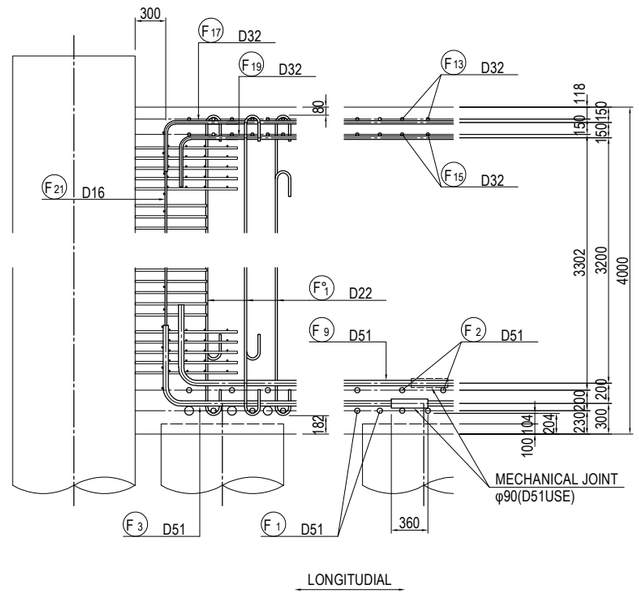
SECTION 1 - 1



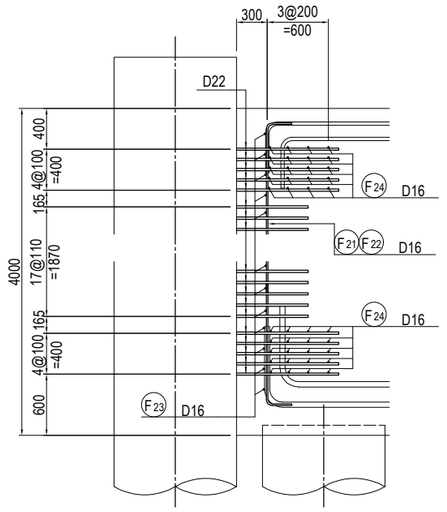
SECTION 2 - 2



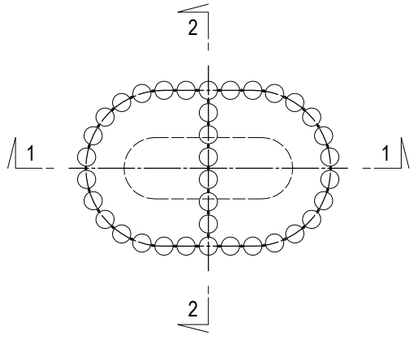
DETAIL OF PILE CAP S=1:60



DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:60



MARKING DIAGRAM



Note) : MECHANICAL JOINT

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

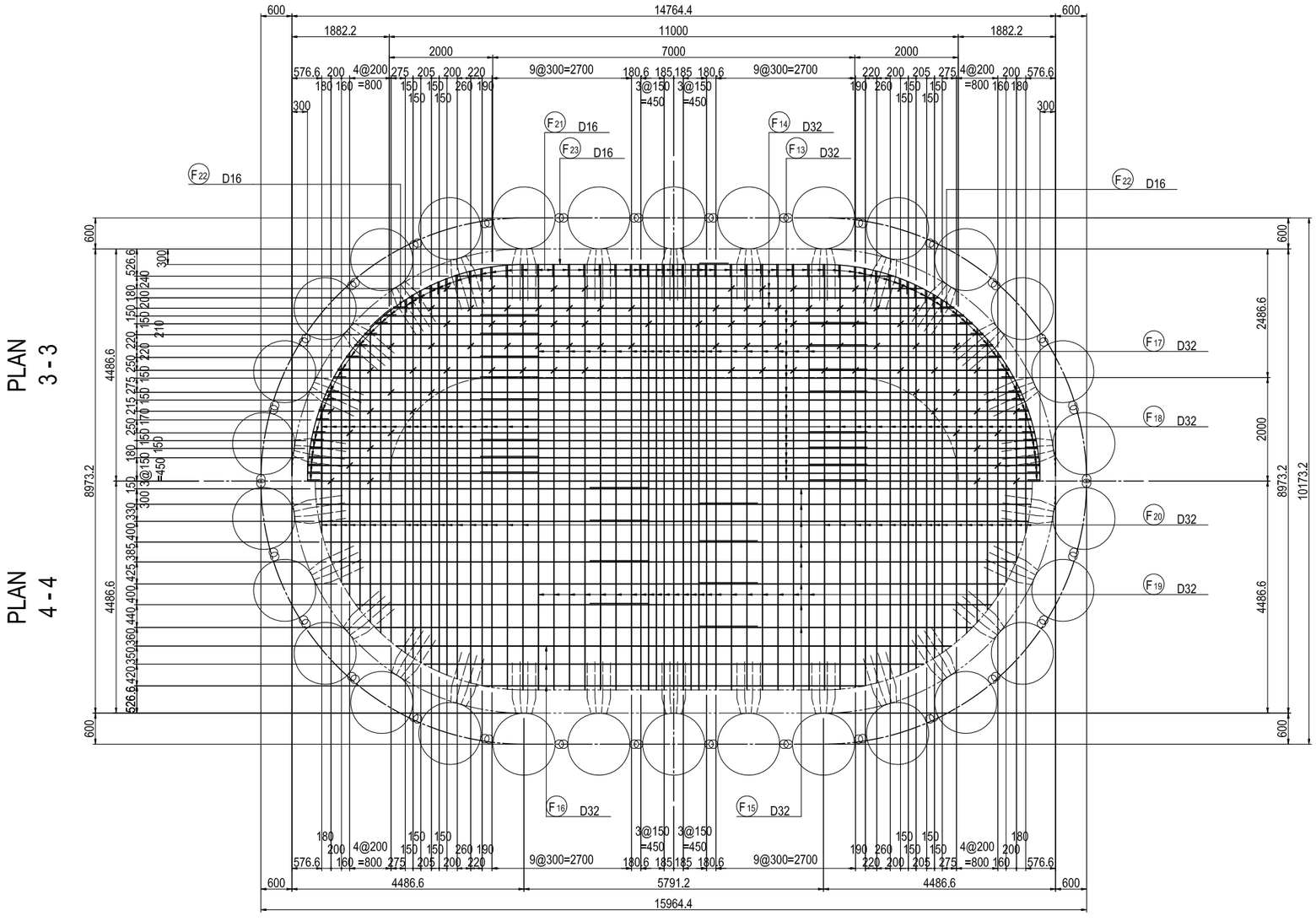
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P16 FOOTING (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2218

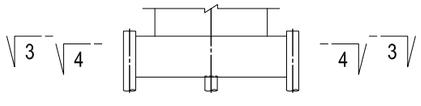
BAR ARRANGEMENT OF P16 FOOTING (2) S=1:100

PLAN 3 - 3

PLAN 4 - 4



MARKING DIAGRAM



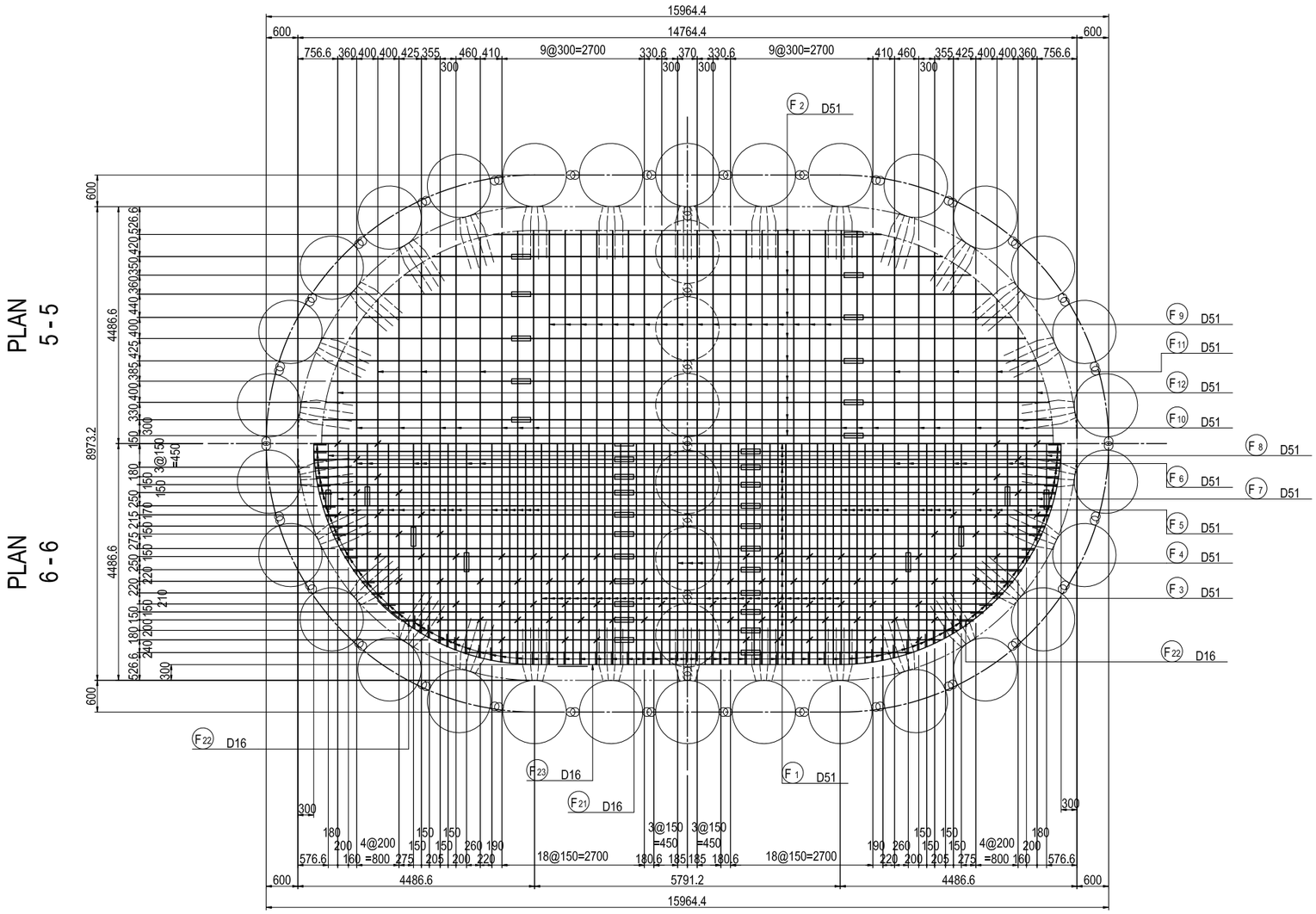
USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P16 FOOTING (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2219

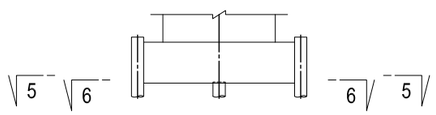
BAR ARRANGEMENT OF P16 FOOTING (3) S=1:100



PLAN 5 - 5

PLAN 6 - 6

MARKING DIAGRAM



USE MATERIALS

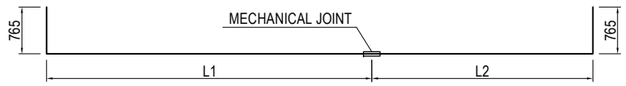
	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

Note: ⊣⊢ : MECHANICAL JOINT

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

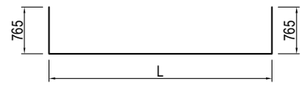
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P16 FOOTING (3)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2220

BAR ARRANGEMENT OF P16 FOOTING (4) S=1:100



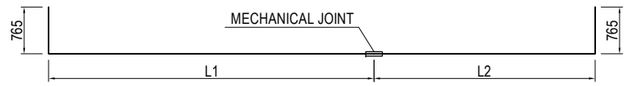
(F1)-1 43 – D51 × 8270 (AVE)　　(F1)-2 43 – D51 × 5870 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F1 -1 1	D51	1	8282	9047	F1 -2 1	D51	1	5882	6647
2	〃	2	8280	9045	2	〃	2	5880	6645
3	〃	2	8271	9036	3	〃	2	5871	6636
4	〃	2	8258	9023	4	〃	2	5858	6623
5	〃	2	8235	9000	5	〃	2	5835	6600
6	〃	2	8209	8974	6	〃	2	5809	6574
7	〃	2	8178	8943	7	〃	2	5778	6543
8	〃	2	8112	8877	8	〃	2	5712	6477
9	〃	2	8059	8824	9	〃	2	5659	6424
10	〃	2	7979	8744	10	〃	2	5579	6344
11	〃	2	7915	8680	11	〃	2	5515	6280
12	〃	2	7779	8544	12	〃	2	5379	6144
13	〃	2	7694	8459	13	〃	2	5294	6059
14	〃	2	7533	8298	14	〃	2	5133	5898
15	〃	2	7369	8134	15	〃	2	4969	5734
16	〃	2	7181	7946	16	〃	2	4781	5546
17	〃	2	6974	7739	17	〃	2	4574	5339
18	〃	2	6807	7572	18	〃	2	4407	5172
19	〃	2	6620	7385	19	〃	2	4220	4985
20	〃	2	6331	7096	20	〃	2	3931	4696
21	〃	2	6016	6781	21	〃	2	3616	4381
22	〃	2	5454	6219	22	〃	2	3054	3819
AVE		43		8272	AVE		43		5872



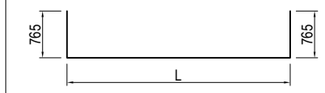
(F5) 28 – D51 × 8930 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F5 1	D51	2	8373	9903
2	〃	2	8366	9896
3	〃	2	8349	9879
4	〃	2	8320	9850
5	〃	2	8281	9811
6	〃	2	8215	9745
7	〃	2	7825	9355
8	〃	2	7704	9234
9	〃	2	7569	9099
10	〃	2	7361	8891
11	〃	2	6610	8140
12	〃	2	6278	7808
13	〃	2	5901	7431
14	〃	2	4502	6032
AVE		28		8934



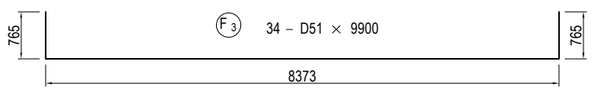
(F2)-1 22 – D51 × 9940 (AVE)　　(F2)-2 22 – D51 × 3640 (AVE)

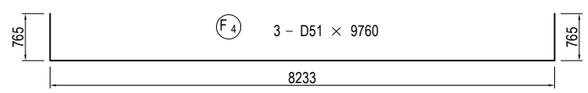
MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F2 -1 1	D51	2	10079	10844	F2 -2 1	D51	2	3779	4544
2	〃	2	10057	10822	2	〃	2	3757	4522
3	〃	2	10006	10771	3	〃	2	3706	4471
4	〃	2	9906	10671	4	〃	2	3606	4371
5	〃	2	9766	10531	5	〃	2	3466	4231
6	〃	2	9558	10323	6	〃	2	3258	4023
7	〃	2	9299	10064	7	〃	2	2999	3764
8	〃	2	8924	9689	8	〃	2	2624	3389
9	〃	2	8519	9284	9	〃	2	2219	2984
10	〃	2	7985	8750	10	〃	2	1685	2450
11	〃	2	6828	7593	11	〃	2	528	1293
AVE		22		9940	AVE		22		3640

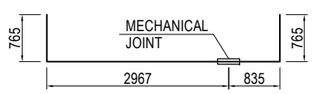


(F10) 14 – D51 × 8600 (AVE)

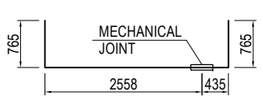
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F10 1	D51	2	8073	9603
2	〃	2	8048	9578
3	〃	2	7977	9507
4	〃	2	7503	9033
5	〃	2	7236	8766
6	〃	2	6226	7756
7	〃	2	4444	5974
AVE		14		8602



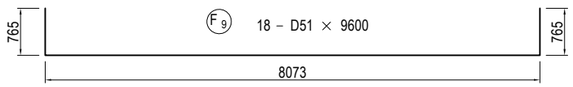


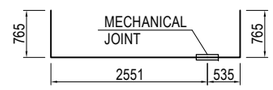


(F7)-1 2 – D51 × 3730　　(F7)-2 2 – D51 × 1600

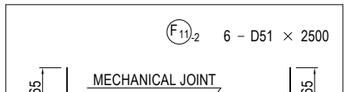


(F8)-1 2 – D51 × 3320　　(F8)-2 2 – D51 × 1200





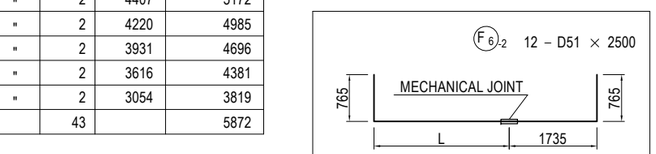
(F12)-1 2 – D51 × 3320　　(F12)-2 2 – D51 × 1300



(F11)-2 6 – D51 × 2500

(F11)-1 6 – D51 × 5730 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F11 -1 1	D51	2	6071	6836
2	〃	2	5104	5869
3	〃	2	3732	4497
AVE		6		5734



(F6)-1 12 – D51 × 5820 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F6 -1 1	D51	2	6381	7146
2	〃	2	6231	6996
3	〃	2	5456	6221
4	〃	2	5268	6033
5	〃	2	3734	4499
6	〃	2	3233	3998
AVE		12		5816

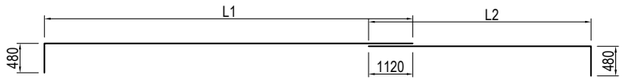
USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

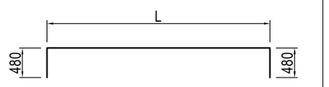
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P16 FOOTING (4)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2221

BAR ARRANGEMENT OF P16 FOOTING (5) S=1:100



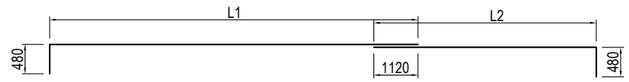
F13-1 35 – D32 × 10850 (AVE)　　F13-2 35 – D32 × 4490 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F13-1 1	D32	1	10822	11302	F13-2 1	D32	1	4462	4942
2	〃	2	10820	11300	2	〃	2	4460	4940
3	〃	2	10811	11291	3	〃	2	4451	4931
4	〃	2	10798	11278	4	〃	2	4438	4918
5	〃	2	10775	11255	5	〃	2	4415	4895
6	〃	2	10749	11229	6	〃	2	4389	4869
7	〃	2	10718	11198	7	〃	2	4358	4838
8	〃	2	10652	11132	8	〃	2	4292	4772
9	〃	2	10599	11079	9	〃	2	4239	4719
10	〃	2	10519	10999	10	〃	2	4159	4639
11	〃	2	10455	10935	11	〃	2	4095	4575
12	〃	2	10319	10799	12	〃	2	3959	4439
13	〃	2	10234	10714	13	〃	2	3874	4354
14	〃	2	10073	10553	14	〃	2	3713	4193
15	〃	2	9909	10389	15	〃	2	3549	4029
16	〃	2	9721	10201	16	〃	2	3361	3841
17	〃	2	9514	9994	17	〃	2	3154	3634
18	〃	2	9347	9827	18	〃	2	2987	3467
AVE		35		10847	AVE		35		4487



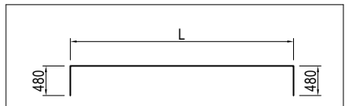
F18 40 – D32 × 7680 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F18 1	D32	2	8373	9333
2	〃	2	8349	9309
3	〃	2	8281	9241
4	〃	2	8215	9175
5	〃	2	8116	9076
6	〃	2	7966	8926
7	〃	2	7825	8785
8	〃	2	7704	8664
9	〃	2	7569	8529
10	〃	2	7361	8321
11	〃	2	7191	8151
12	〃	2	7003	7963
13	〃	2	6610	7570
14	〃	2	6278	7238
15	〃	2	5901	6861
16	〃	2	5469	6429
17	〃	2	4968	5928
18	〃	2	4502	5462
19	〃	2	3802	4762
20	〃	2	2993	3953
AVE		20		7684



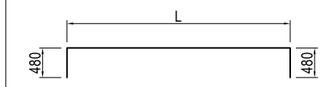
F15-1 16 – D32 × 8650 (AVE)　　F15-2 16 – D32 × 6530 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F15-1 1	D32	2	8549	9029	F15-2 1	D32	2	6429	6909
2	〃	2	8527	9007	2	〃	2	6407	6887
3	〃	2	8476	8956	3	〃	2	6356	6836
4	〃	2	8376	8856	4	〃	2	6256	6736
5	〃	2	8236	8716	5	〃	2	6116	6596
6	〃	2	8028	8508	6	〃	2	5908	6388
7	〃	2	7769	8249	7	〃	2	5649	6129
8	〃	2	7394	7874	8	〃	2	5274	5754
AVE		16		8649	AVE		16		6529



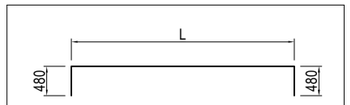
F16 6 – D32 × 10220 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F16 1	D32	2	10738	11698
2	〃	2	9671	10631
3	〃	2	7356	8316
AVE		6		10215



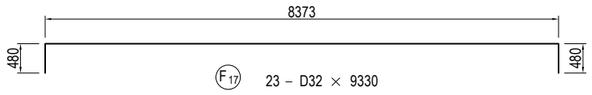
F20 40 – D32 × 7270 (AVE)

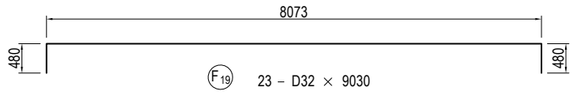
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F20 1	D32	2	8073	9033
2	〃	2	8048	9008
3	〃	2	7977	8937
4	〃	2	7909	8869
5	〃	2	7806	8766
6	〃	2	7650	8610
7	〃	2	7503	8463
8	〃	2	7377	8337
9	〃	2	7236	8196
10	〃	2	7018	7978
11	〃	2	6839	7799
12	〃	2	6641	7601
13	〃	2	6226	7186
14	〃	2	5872	6832
15	〃	2	5467	6427
16	〃	2	4998	5958
17	〃	2	4444	5404
18	〃	2	3916	4876
19	〃	2	3086	4046
20	〃	2	2006	2966
AVE		40		7265

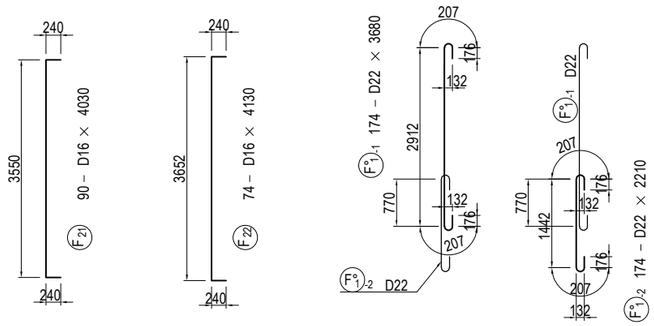


F14 8 – D32 × 10770 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F14 1	D32	2	10840	11800
2	〃	2	10262	11222
3	〃	2	9633	10593
4	〃	2	8509	9469
AVE		8		10771







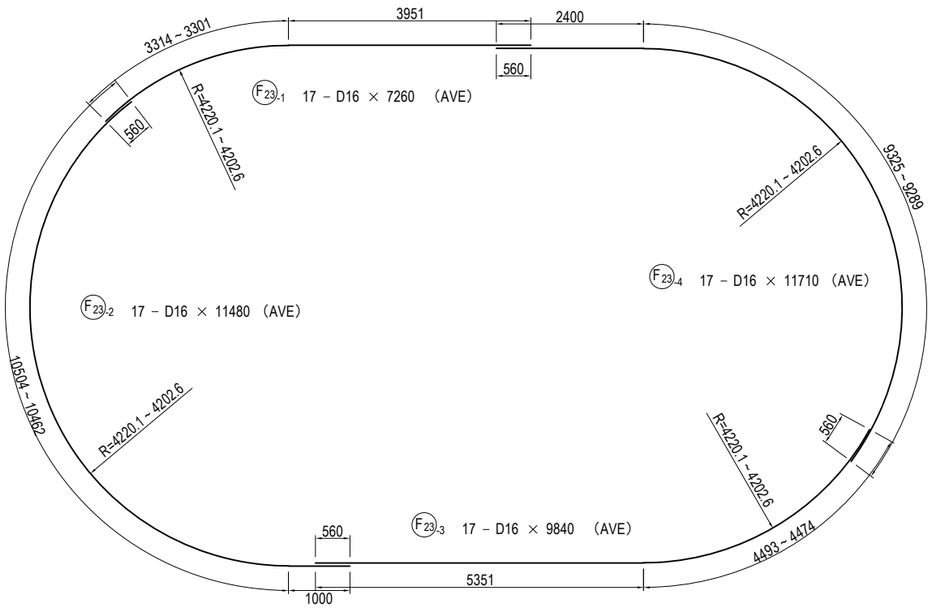
USE MATERIALS

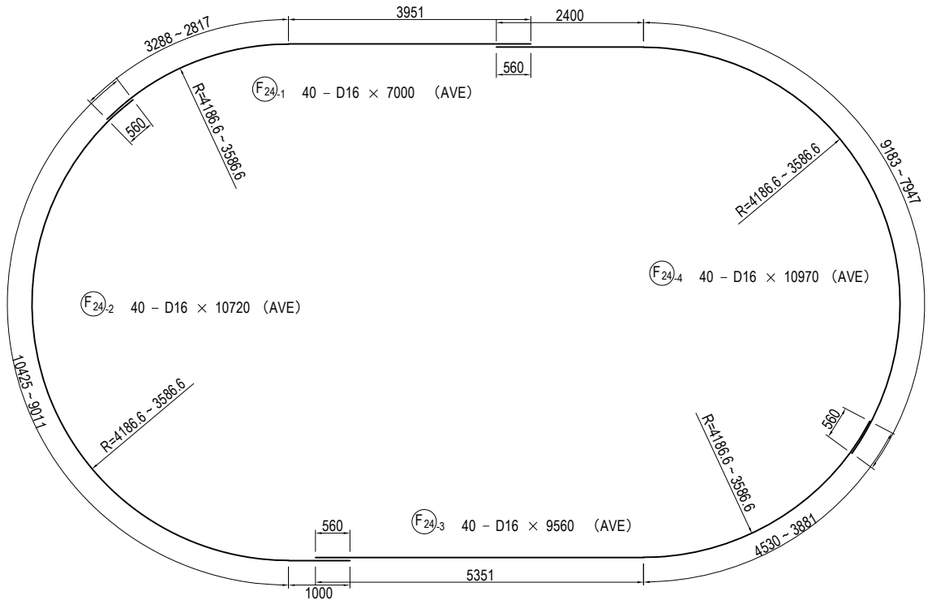
	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P16 FOOTING (5)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2222

BAR ARRANGEMENT OF P16 FOOTING (6) S=1:100





Note） The joint position of the reinfocing bar is rotated 180 degrees for each step arranged.

BAR SCHEDULE

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
F 1-1	D51	8270	43	15.9	131.49	5654	(43) (AVE)
1-2	"	5870	43	"	93.33	4013	(AVE)
2-1	"	9940	22	"	158.05	3477	(22) (AVE)
2-2	"	3640	22	"	57.88	1273	(AVE)
3	"	9900	34	"	157.41	5352	
4	"	9760	3	"	155.18	466	"
5	"	8930	28	"	141.99	3976	" (AVE)
6-1	"	5820	12	"	92.54	1110	(12) (AVE)
6-2	"	2500	12	"	39.75	477	
7-1	"	3730	2	"	59.31	119	(2)
7-2	"	1600	2	"	25.44	51	
8-1	"	3320	2	"	52.79	106	(2)
8-2	"	1200	2	"	19.08	38	
9	"	9600	18	"	152.64	2748	
10	"	8600	14	"	136.74	1914	" (AVE)
11-1	"	5730	6	"	91.11	547	(6) (AVE)
11-2	"	2500	6	"	39.75	239	
12-1	"	3320	2	"	52.79	106	(2)
12-2	"	1300	2	"	20.67	41	
13-1	D32	10850	35	6.23	67.60	2366	(AVE)
13-2	"	4490	35	"	27.97	979	(AVE)
14	"	10770	8	"	67.10	537	(AVE)
15-1	"	8650	16	"	53.89	862	(AVE)
15-2	"	6530	16	"	40.68	651	(AVE)
16	"	10220	6	"	63.67	382	(AVE)
17	"	9330	23	"	58.13	1337	"
18	"	7680	40	"	47.85	1914	" (AVE)
19	"	9030	23	"	56.26	1294	"
20	"	7270	40	"	45.29	1812	" (AVE)
21	D16	4030	90	1.56	6.29	566	
22	"	4130	74	"	6.44	477	"
23-1	"	7260	17	"	11.33	193	(AVE)
23-2	"	11480	17	"	17.91	304	(AVE)
23-3	"	9840	17	"	15.35	261	(AVE)
23-4	"	11710	17	"	18.27	311	(AVE)
24-1	"	7000	40	"	10.92	437	(AVE)
24-2	"	10720	40	"	16.72	669	(AVE)
24-3	"	9560	40	"	14.91	596	(AVE)
24-4	"	10970	40	"	17.11	684	(AVE)
					SUBTOTAL	48339 kg	
F° 1-1	D22	3680	174	3.04	11.19	1947	
1-2	"	2210	174	"	6.72	1169	"
					SUBTOTAL	3116 kg	

(MECHANICAL JOINT)

D51	31707 kg	(89)
D32	12134 "	
D22	3116 "	
D16	4498 "	
TOTAL	51455 kg	(89)

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm 2	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

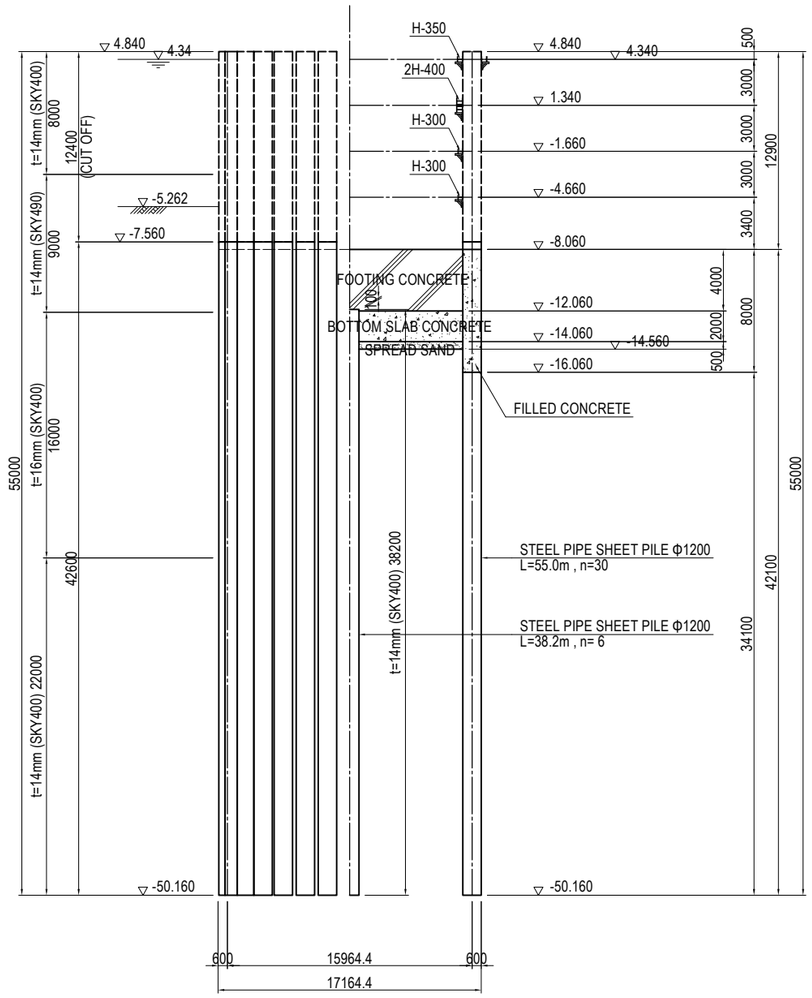
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P16 FOOTING (6)	2
	DWG No.
	P2-SB-2223

GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P16 PIER

S=1:400

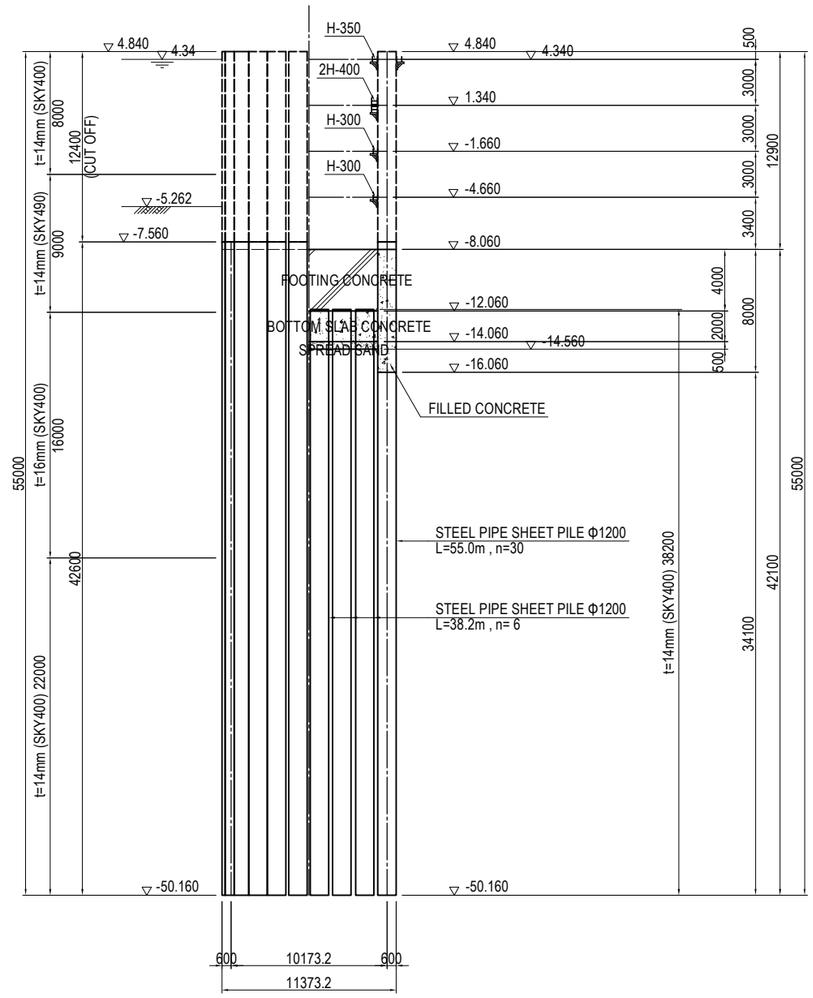
FRONT ELEVATION

1 - 1　　2 - 2

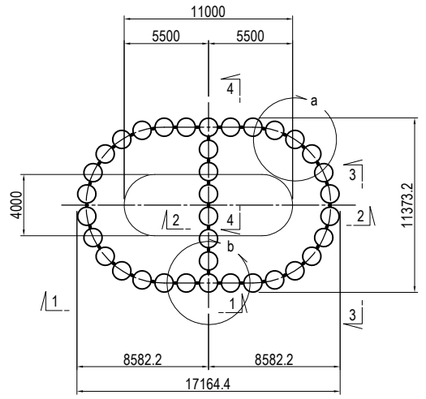


SIDE ELEVATION

3 - 3　　4 - 4

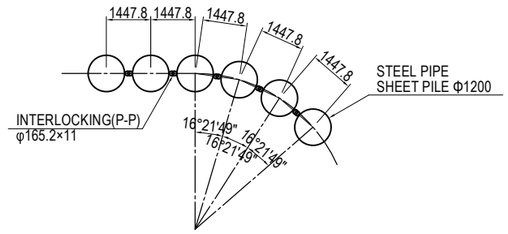


PLAN



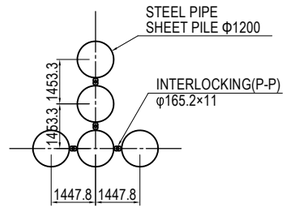
DETAIL a

S=1:200



DETAIL b

S=1:200



USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

Note: Temporary support can be used for reference only.

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

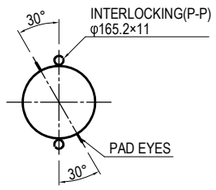
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P16 PIER	2
	DWG No.
	P2-SB-2224

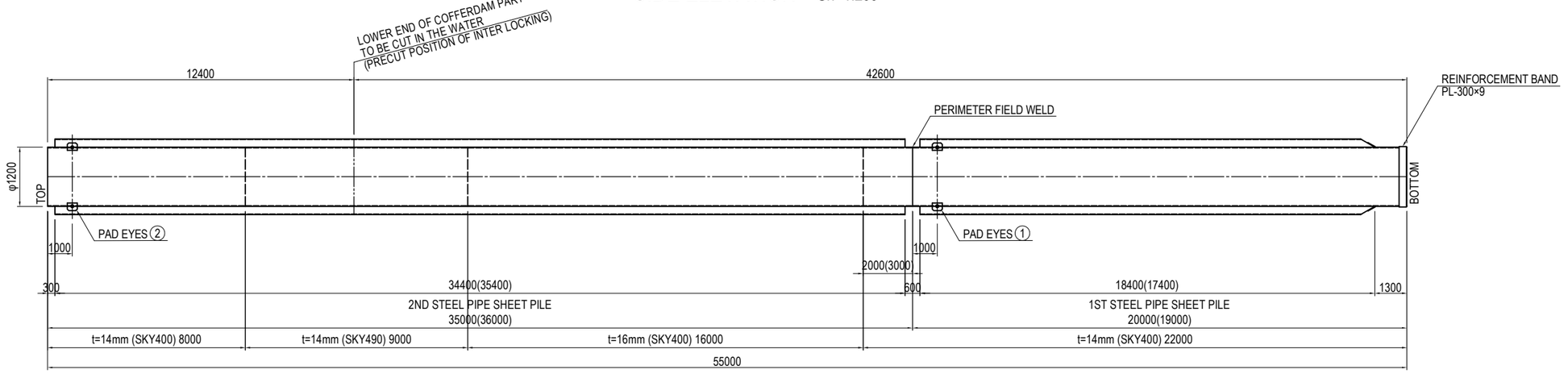
DETAIL OF STEEL PIPE SHEET PILE OF P16 PIER (1)

CROSS SECTION S=1:200

TYPE A
(TYPE B)

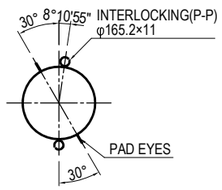


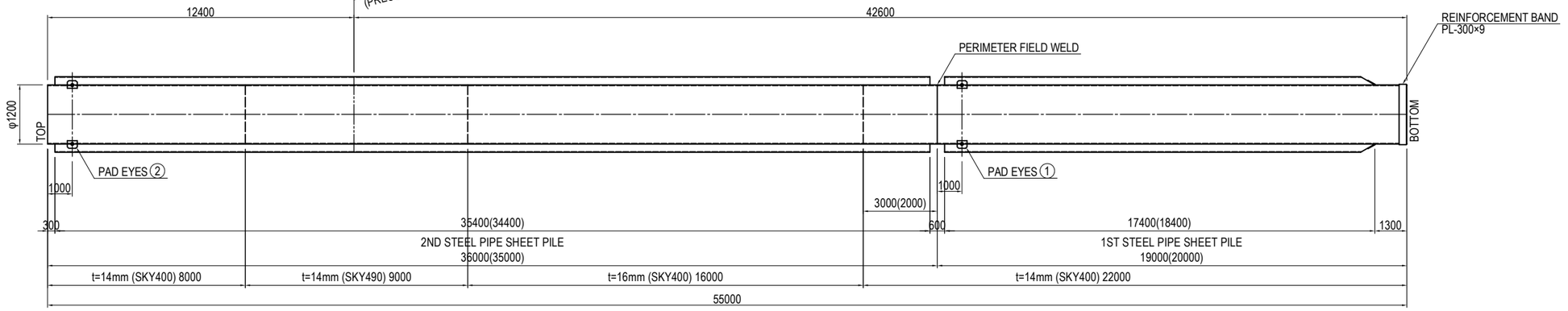
SIDE ELEVATION Sv=1:100 Sh=1:200



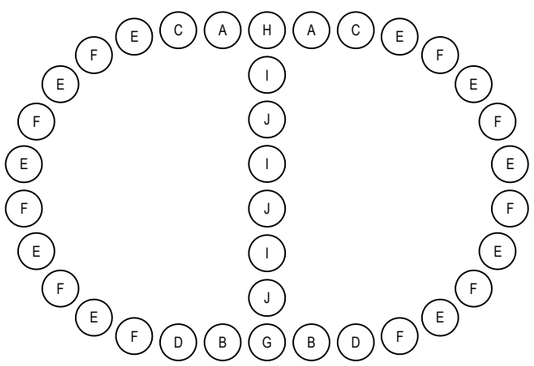
CROSS SECTION S=1:200

TYPE C
(TYPE D)



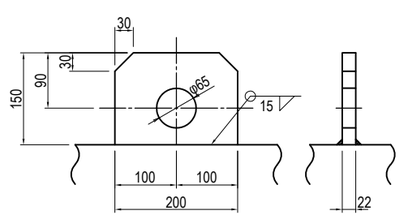


STEEL PIPE SHEET PILE TYPE AND POSITION

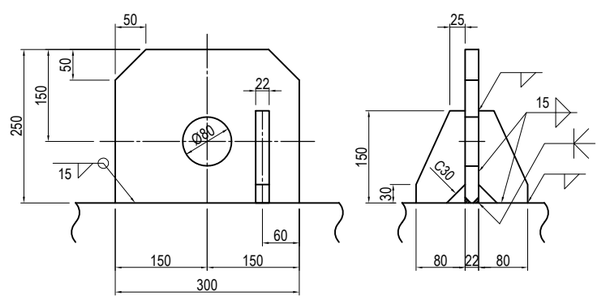


DETAIL OF EYES S=1:10

PAD EYES ① PL-200x150x22(SM490A)



PAD EYES ② PL-300x250x22(SM490A)



Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

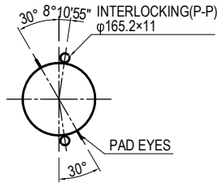
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF STEEL PIPE SHEET PILE OF P16 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2225

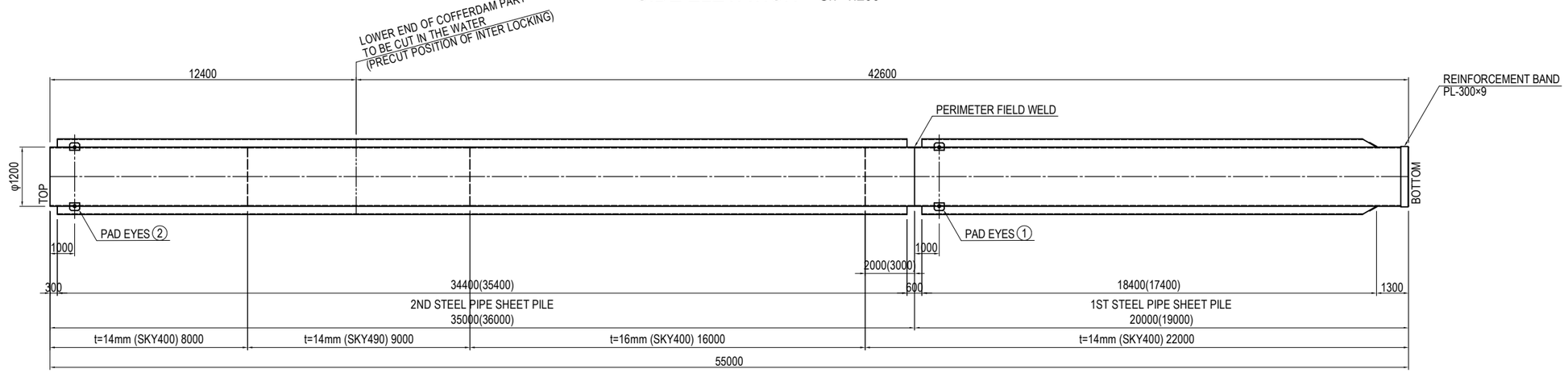
DETAIL OF STEEL PIPE SHEET PILE OF P16 PIER (2)

CROSS SECTION S=1:200

TYPE E
(TYPE F)

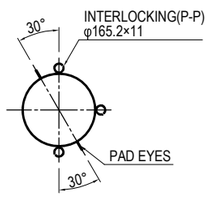


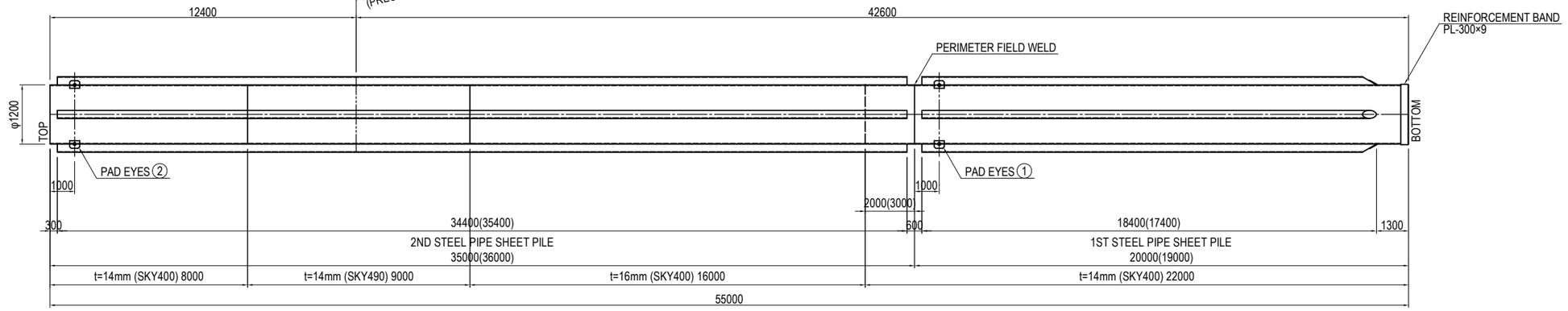
SIDE ELEVATION Sv=1:100 Sh=1:200



CROSS SECTION S=1:200

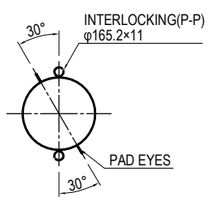
TYPE G
(TYPE H)

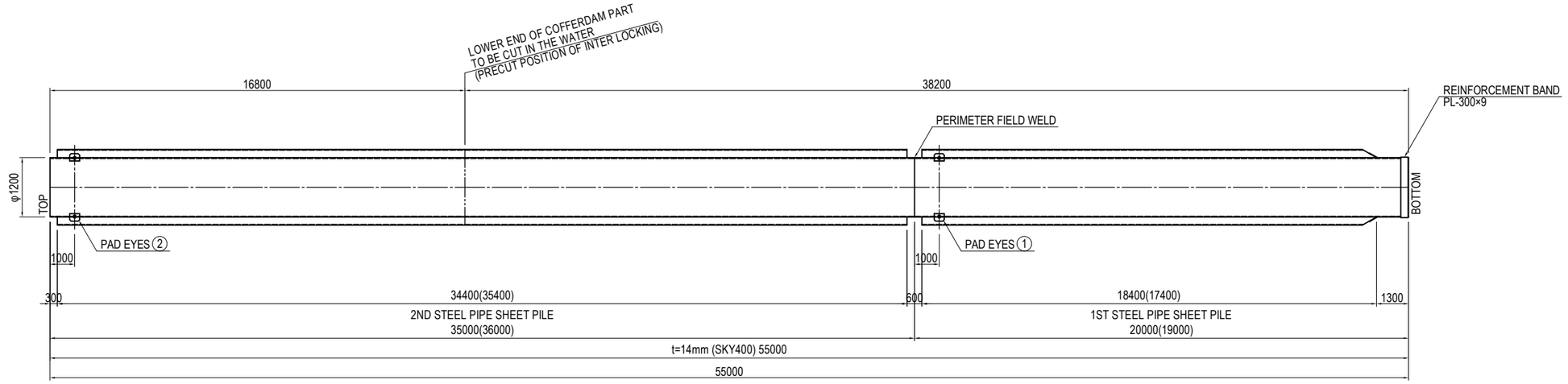




CROSS SECTION S=1:200

TYPE I
(TYPE J)





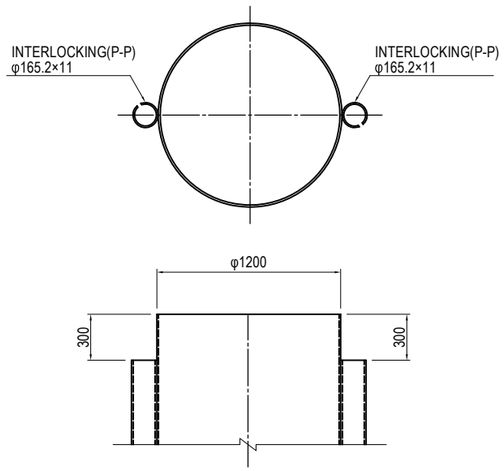
Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

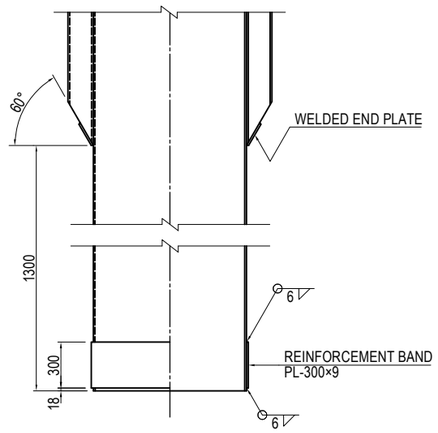
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF STEEL PIPE SHEET PILE OF P16 PIER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2226

DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P16 PIER

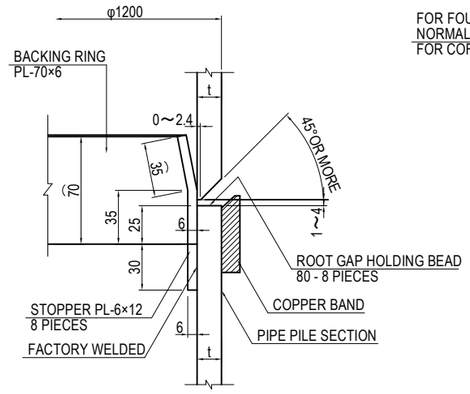
DETAIL OF STEEL PIPE SHEET PILE TOP S=1:40



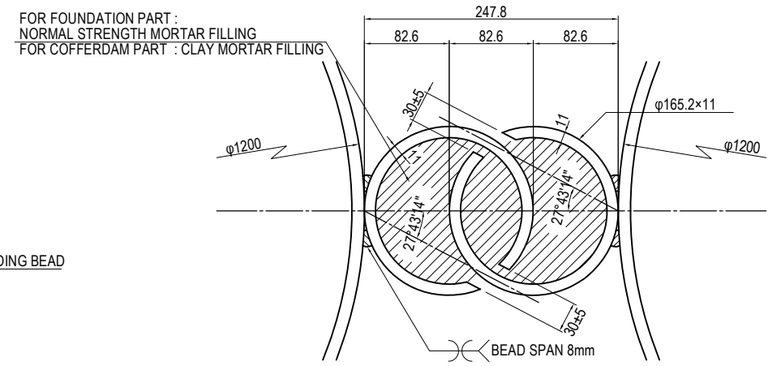
DETAIL OF STEEL PIPE SHEET PILE TOE S=1:40



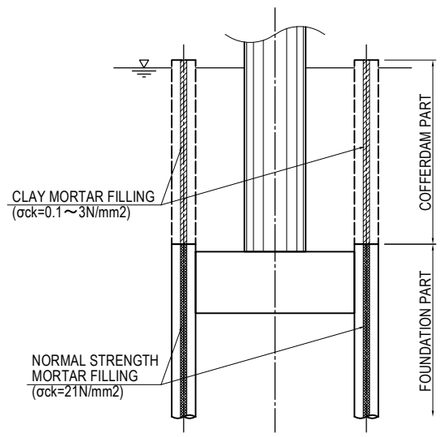
DETAIL OF PERIMETER FIELD WELDING OF STEEL PIPE SHEET PILE S=1:4



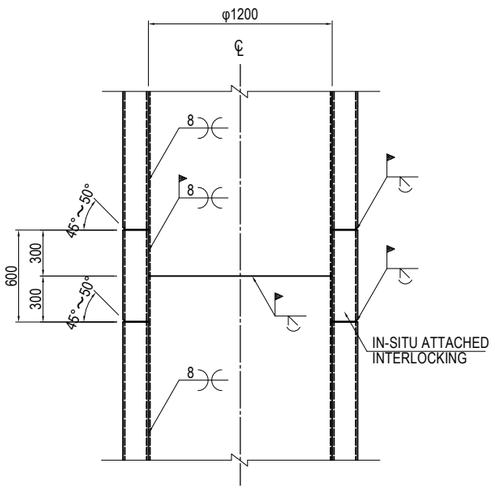
DETAIL OF CONNECTED INTERLOCKING(P-P) S=1:6



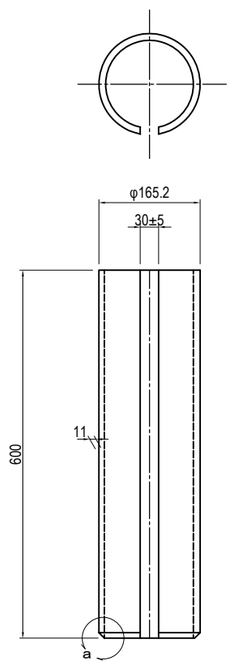
TREATMENT OF STEEL PIPE SHEET PILE INTERLOCKING



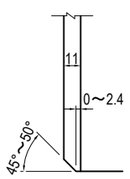
DETAIL OF IN-SITU LONGITUDINAL WELDING PART S=1:40



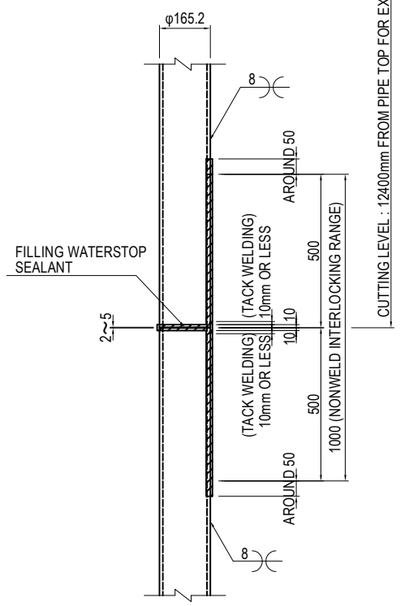
DETAIL OF IN-SITU ATTACHED INTERLOCKING S=1:10



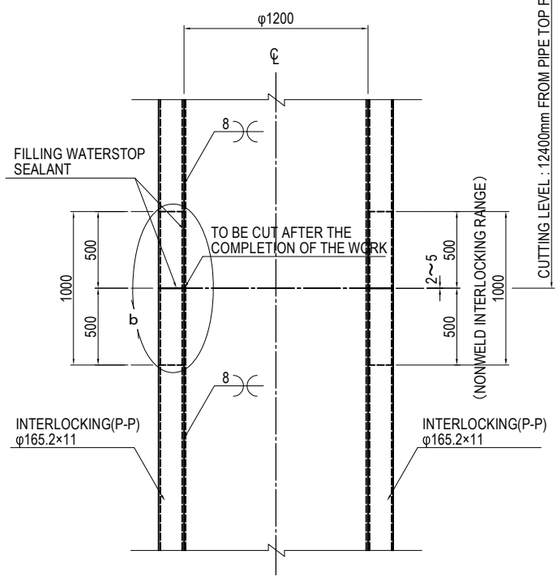
DETAIL a



DETAIL b



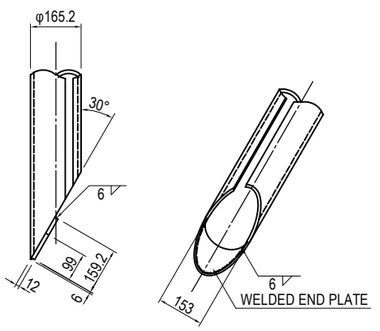
DETAIL OF PRECUT INTERRLOCKING S=1:40



CUTTING LEVEL : 12400mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING

CUTTING LEVEL : 12400mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING

DETAIL OF INTERRLOCKING TOE S=1:20

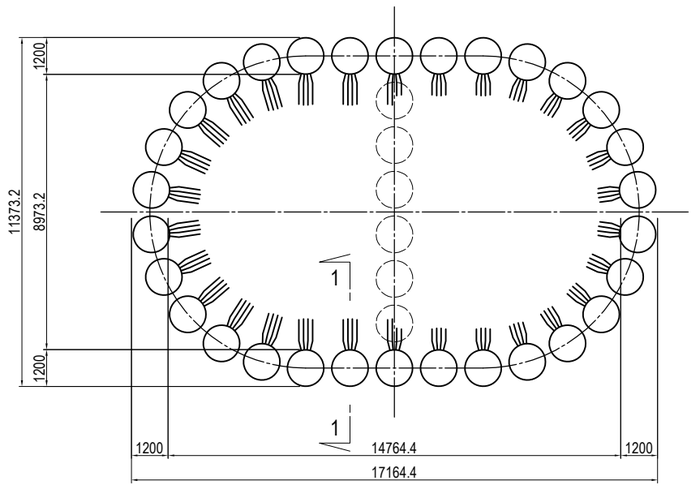


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

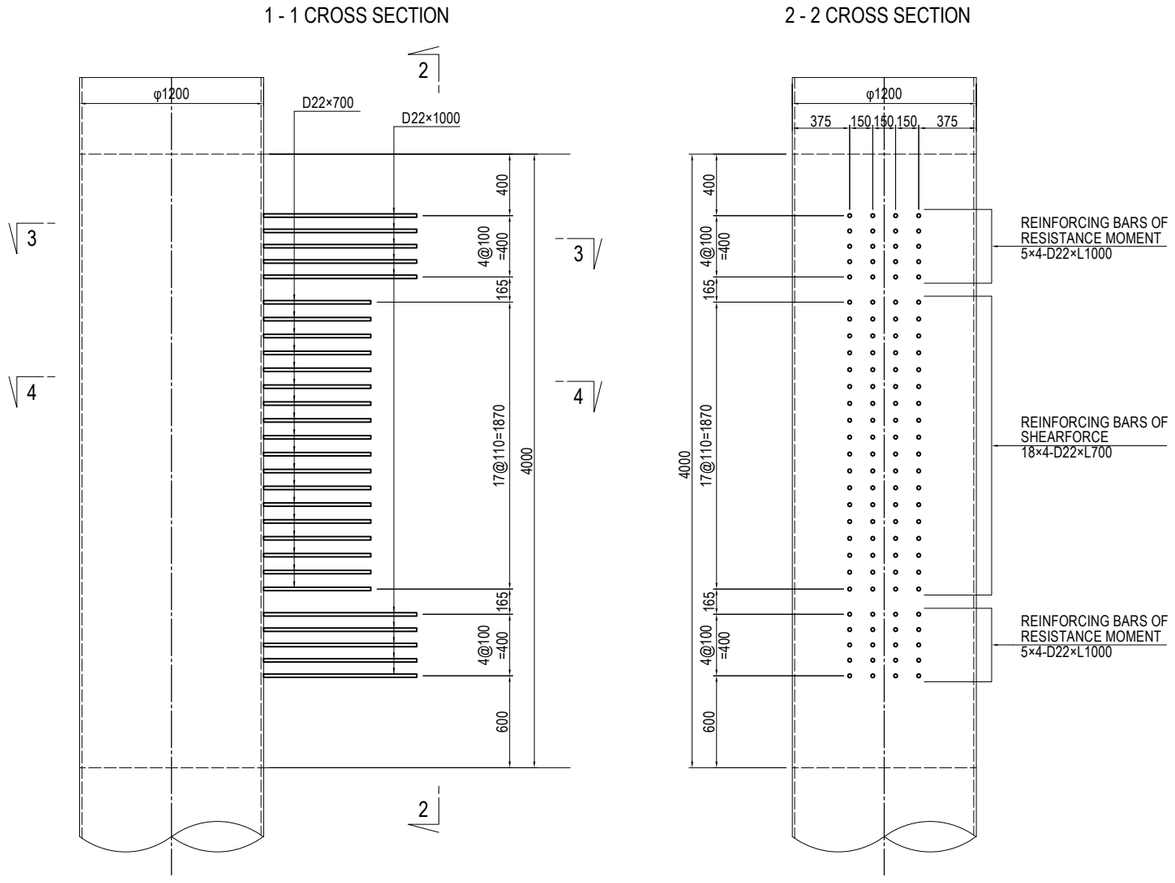
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P16 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2227

DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P16 PIER

PLAN S=1:200

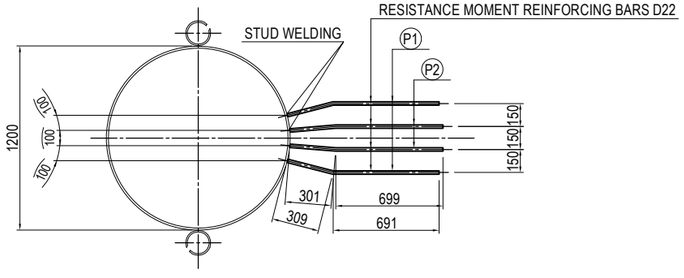


DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:40

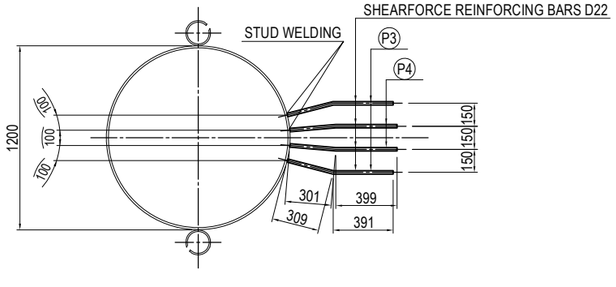


CROSS SECTION OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND REINFORCING BARS S=1:40

3 - 3 CROSS SECTION
(RESISTANCE MOMENT REINFORCING BARS CONNECTION PART)



4 - 4 CROSS SECTION
(SHEARFORCE REINFORCING BARS CONNECTION PART)



FABRICATION OF REINFORCING BARS S=1:40

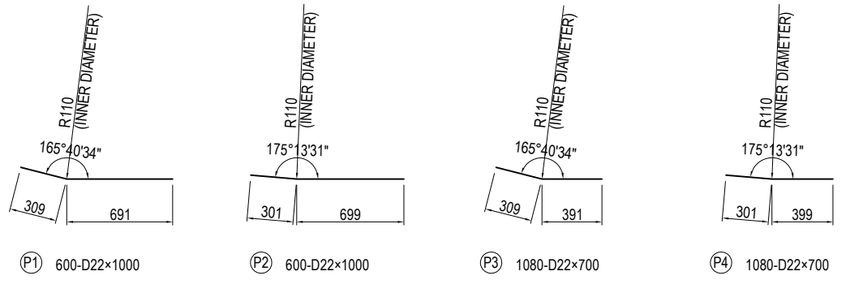


TABLE OF REINFORCING BARS

MARK	TYPE	LENGTH (mm)	PIECES (piece)	UNIT WEIGHT (kg/m)	UNIT WEIGHT (kg/piece)	WEIGHT (kg)	GRADE	MEMO
P1	D22	1000	600	3.04	3.04	1824.0	SD345 for STUD WELDING	
P2	D22	1000	600	3.04	3.04	1824.0	SD345 for STUD WELDING	
P3	D22	700	1080	3.04	2.13	2300.4	SD345 for STUD WELDING	
P4	D22	700	1080	3.04	2.13	2300.4	SD345 for STUD WELDING	
				D22		8248.8	kg	
				TOTAL WEIGHT		8248.8	kg	

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

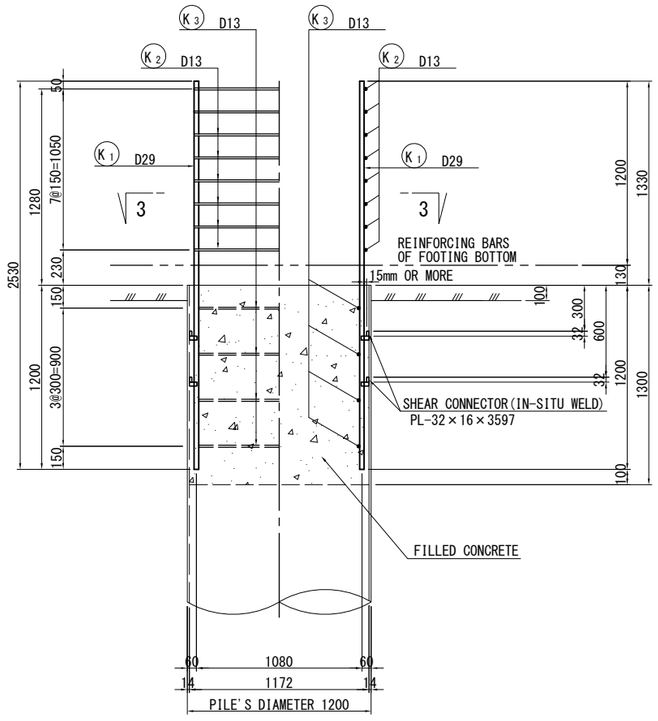
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

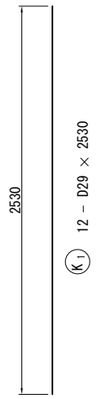
DRAWING TITLE	PACKAGE
DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P16 PIER	2
	DWG No.
	P2-SB-2228

DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P16 PIER S=1:40

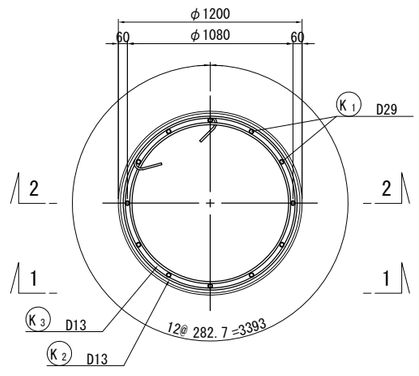
DETAIL OF PILE TOP

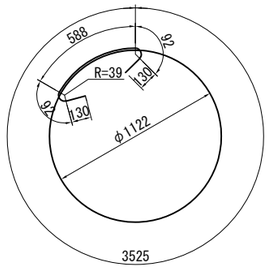
1 - 1　　2 - 2



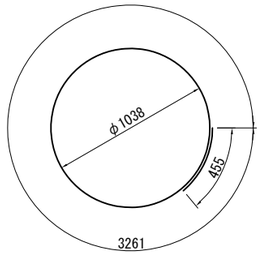


3 - 3





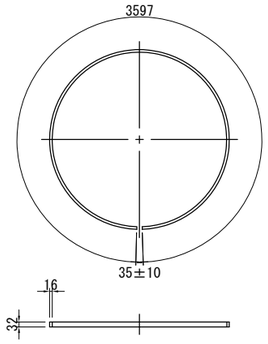
K2　8 - D13 × 4560



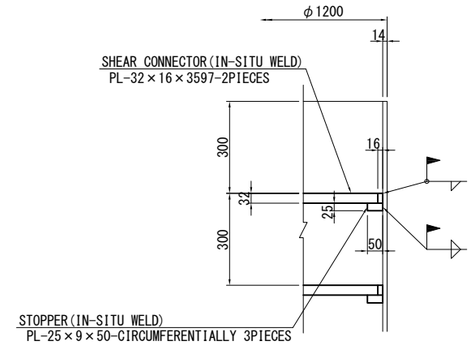
K3　4 - D13 × 3720

DETAIL OF ATTACHMENT OF SHEAR CONNECTOR

CENTER OF LENGTH



SETTING IN THE FIELD S=1:20



MATERIAL LIST

WEIGHT/EA.

MARKS	SECTION SIZE	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	MATERIAL	REMARKS
PILE TOP ACCOMPANYING ITEMS								
PL	PL-32*16	3597	2	4.019	14.456	28.9	SS400	SHEAR CONNECTOR
PL	PL-25*9	50	6	1.766	0.088	0.5	SS400	STOPPER
REINFORCEMENT								
K1	D29	2530	12	5.04	12.75	153	SD345	I
K2	D13	4560	8	0.995	4.54	36.3	SD345	○
K3	D13	3720	4	0.995	3.70	14.8	SD345	○
TOTAL						204		
FILLED CONCRETE　(σck = 24 N/mm^2)								
V = 1/4 × π × 1.172^2 × 1.300　=　1.402 m^3								

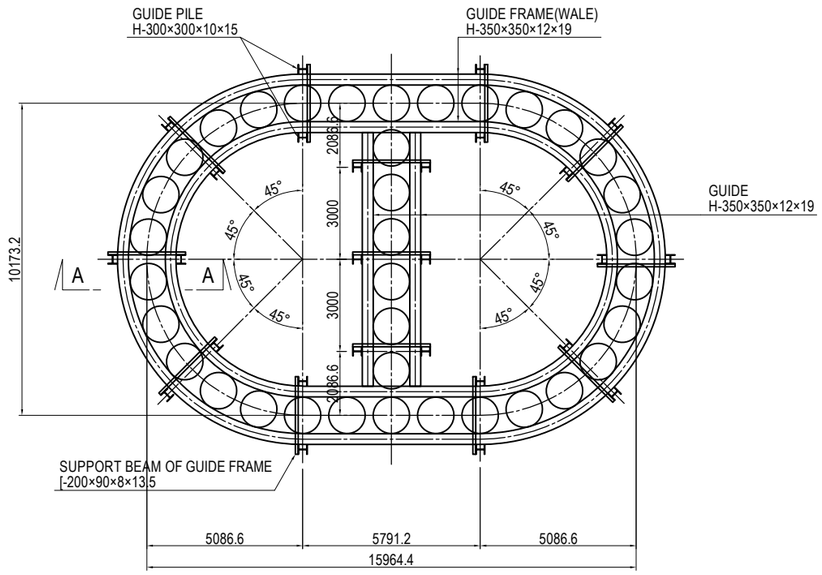
ITEM	DIVISION		UNIT CONTENT	WEIGHT/EA.	QUANTITY
NUMBER OF PILE			Number		6
PILE TOP	SS400	TOTAL	kg	29.4	176.4
REINFORCEMENT	SD345	D29	kg	153	918
		D13	kg	51	307
		TOTAL	kg	204	1225
FILLED CONCRETE	σck = 24 N/mm^2		m^3	1.402	8.4

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

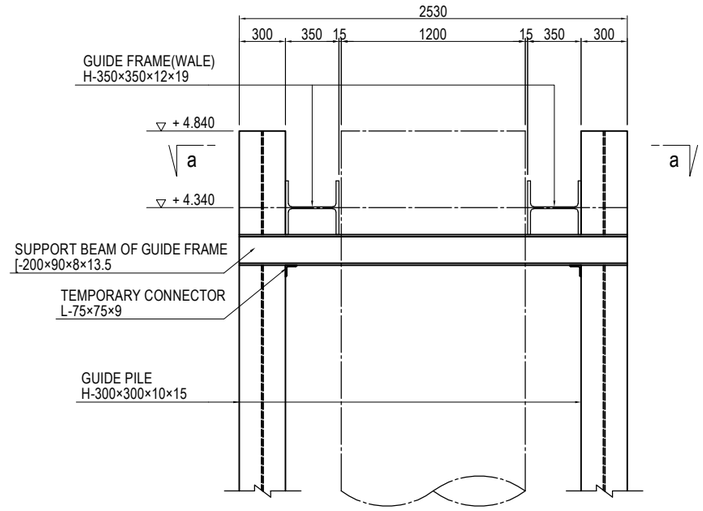
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P16 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2229

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P16 PIER (1)

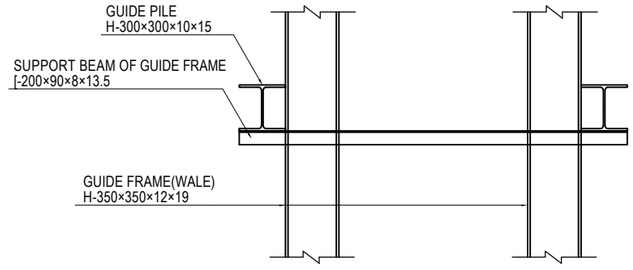
LAYOUT PLAN OF GUIDE FRAMES AND GUIDE PILES S=1:200



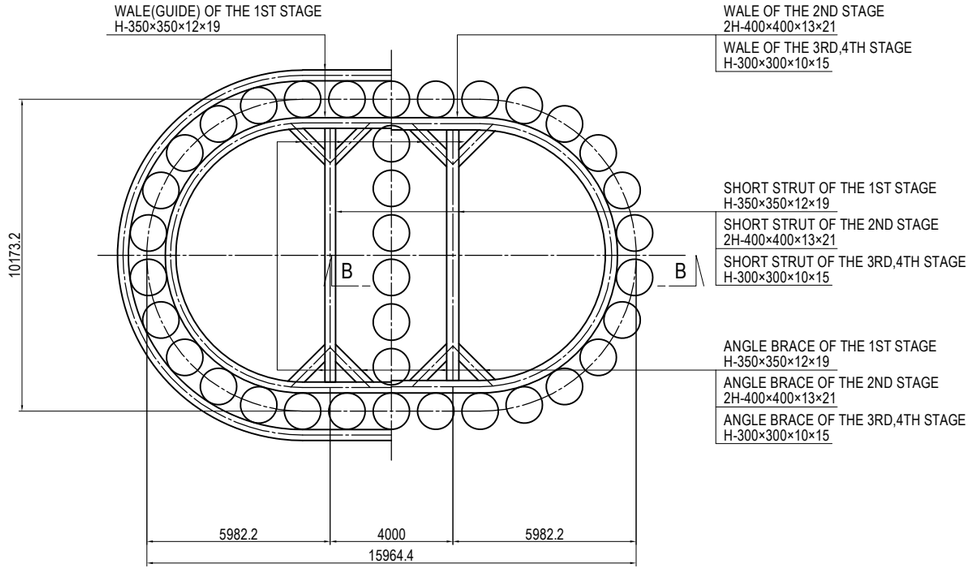
DETAIL OF ATTACHMENT OF GUIDE PILES AND GUIDE FRAMES S=1:40



a - a



LAYOUT PLAN OF STRUTS AND WALES S=1:200

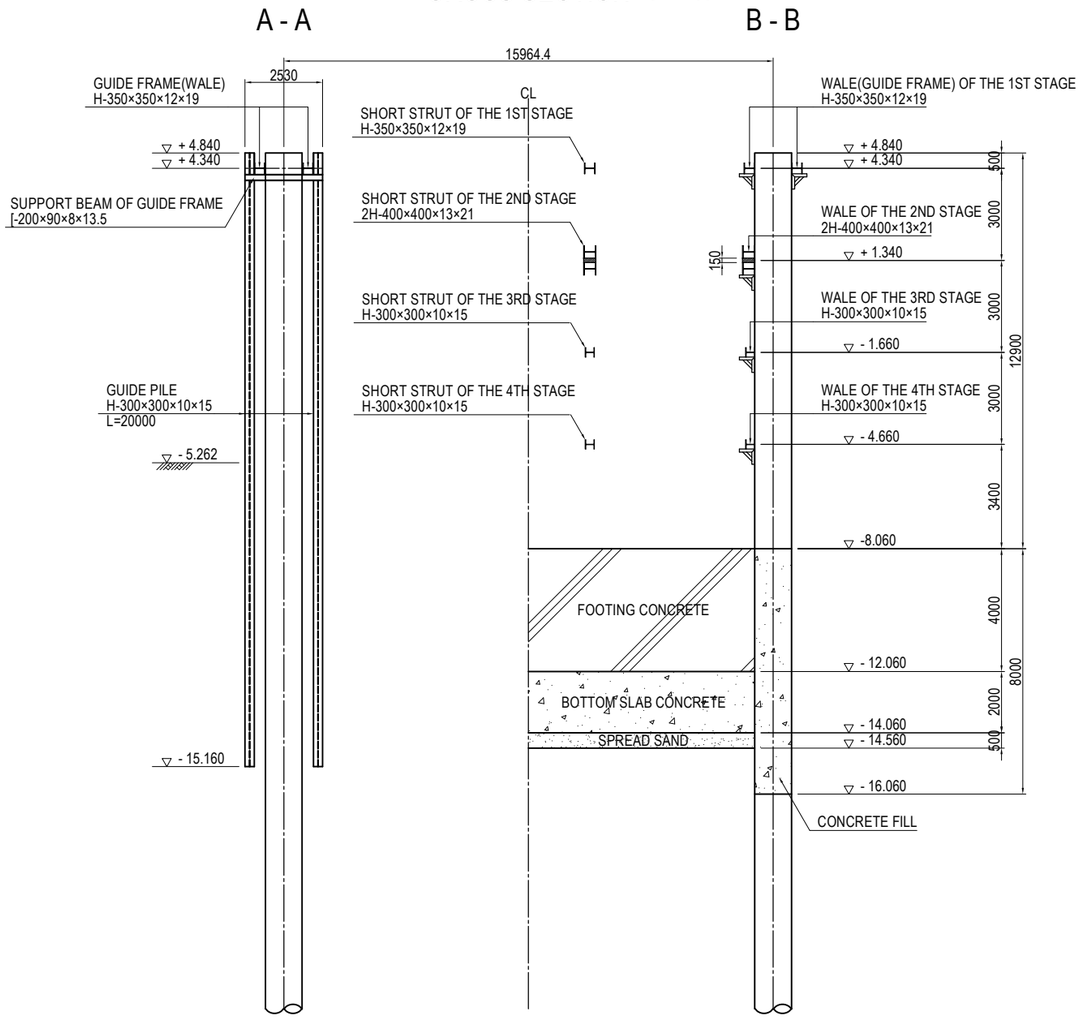


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

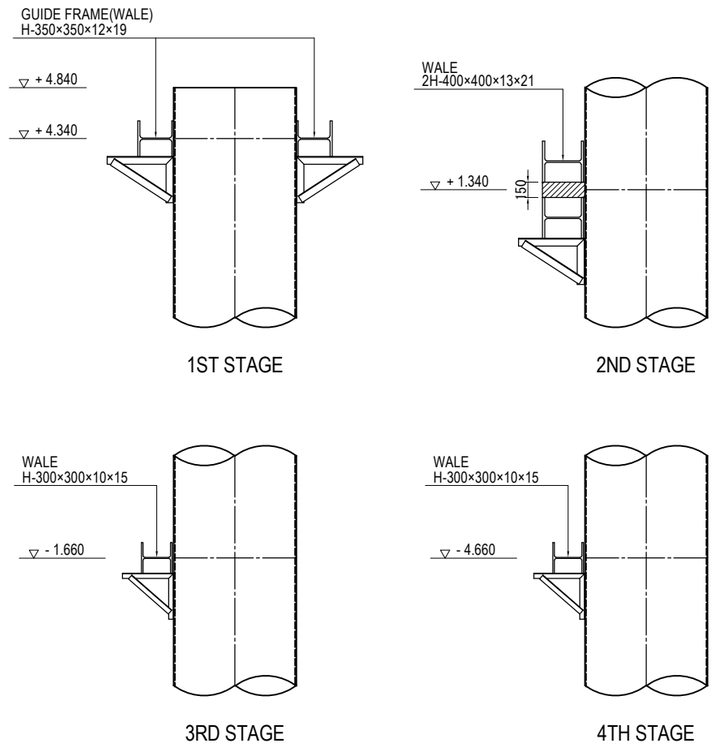
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P16 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2230

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P16 PIER (2)

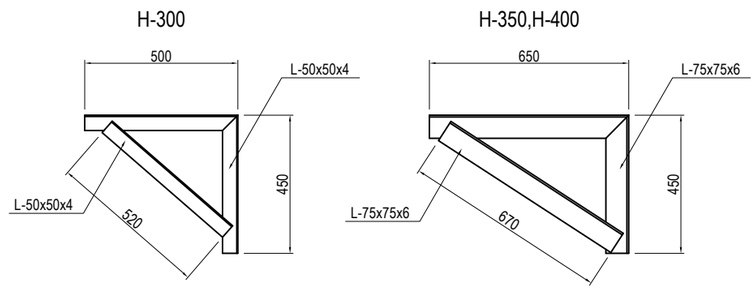
CROSS SECTION S=1:200



DETAIL OF ATTACHMENT OF WALE S=1:60



DETAIL OF BRACKET S=1:20

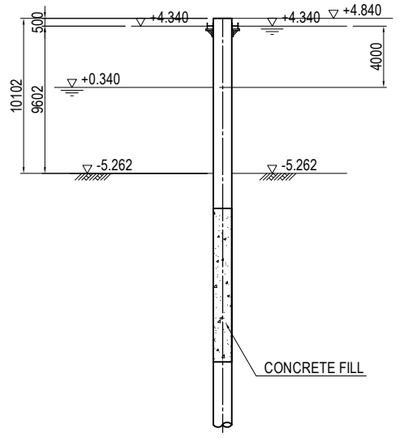


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P16 PIER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2231

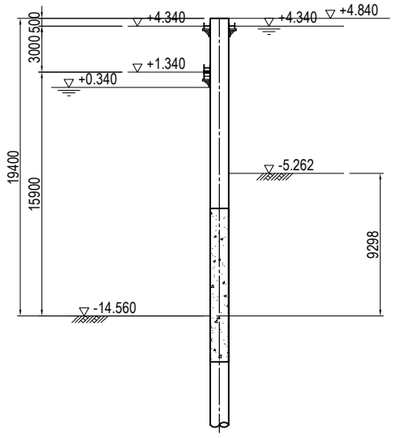
(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P16 PIER S=1:400

STEP 1



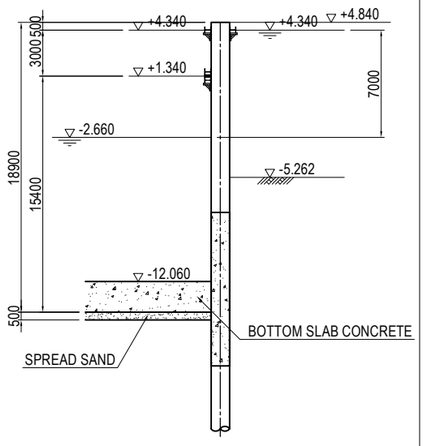
Excavate inside of exterior sheet pilles and filled with concrete as shown.
Draining the inside of cofferdam up to +0.340m level.
The 1st support Installation.

STEP 2



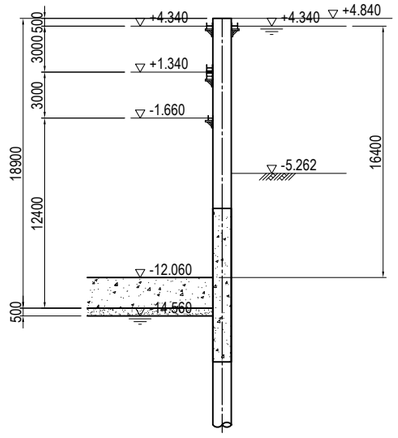
The 2nd support Installation.
Underwater excavation up to -14.560m level.

STEP 3



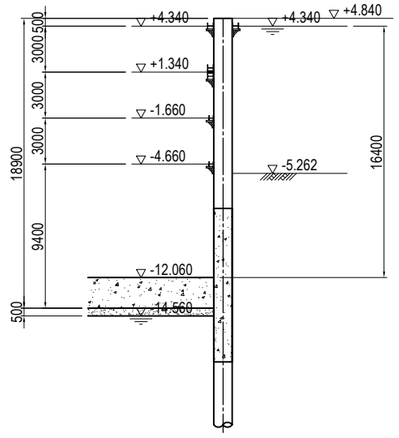
Draining the inside of cofferdam up to -2.660m level.
Placement of spread sand followed by
Casting undeawater bottom slab concrete.

STEP 4



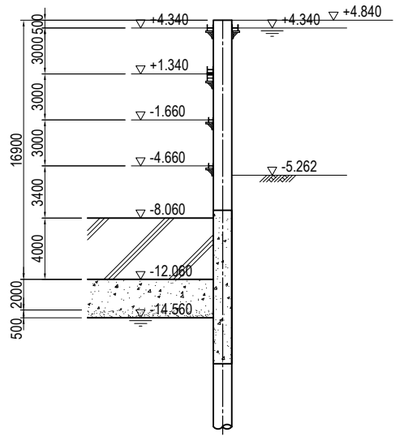
The 3rd support Installation.
Dry up inside the cofferdam.

STEP 5



The 4th support Installation.

STEP 6



Casting of footing concrete.

Note : This drawing can be used for reference only.

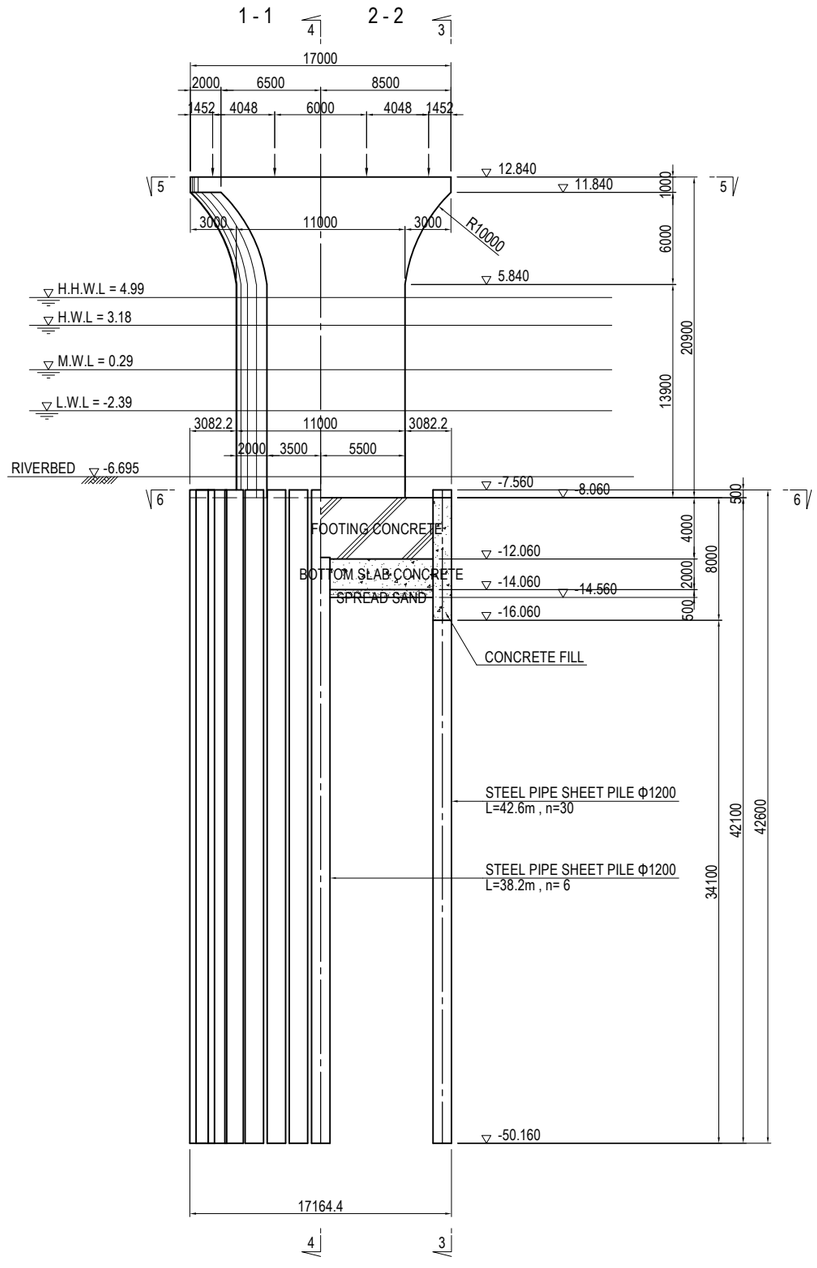
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P16 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2232

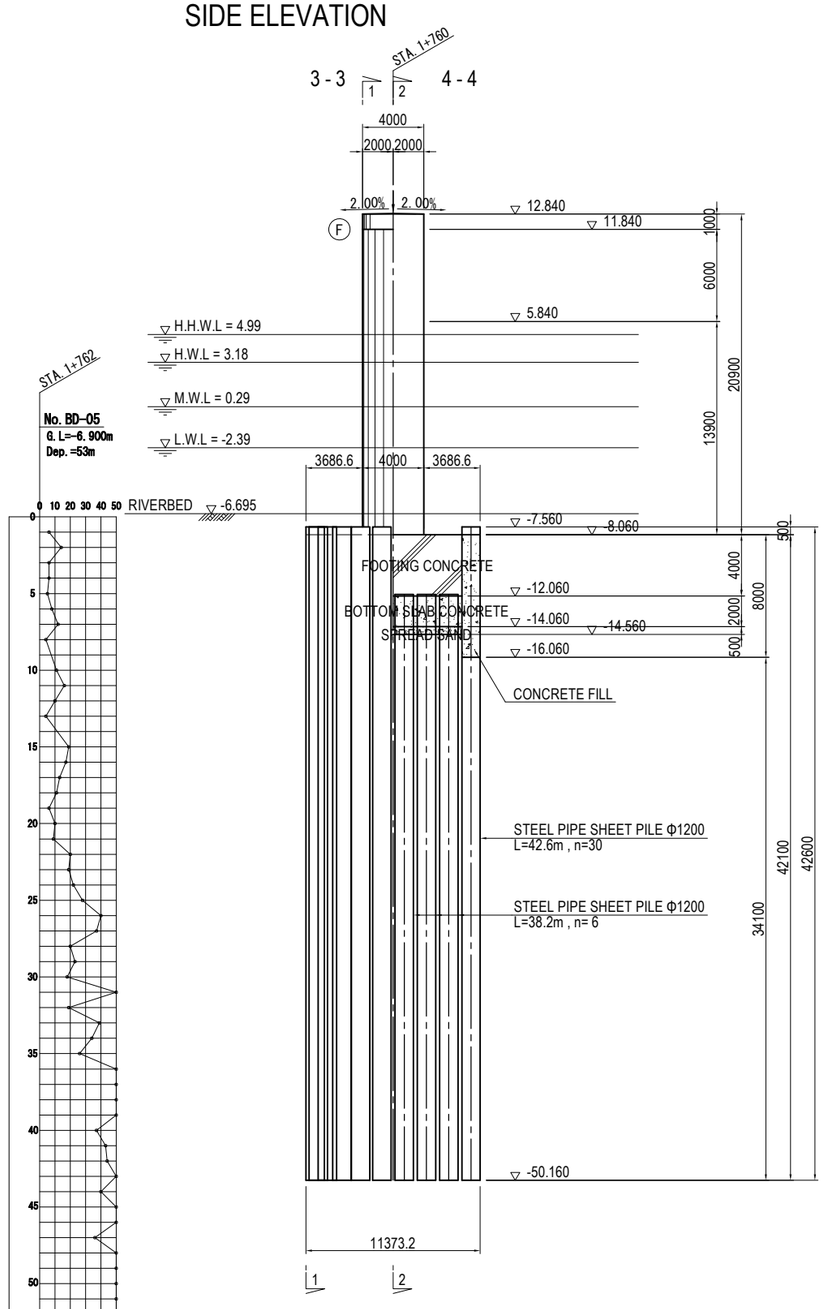
GENERAL VIEW OF P17 PIER (1)

S=1:400

FRONT ELEVATION

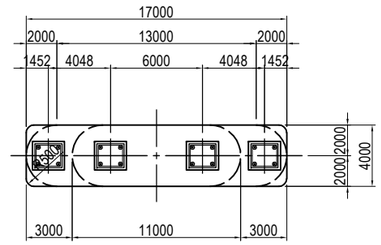


SIDE ELEVATION



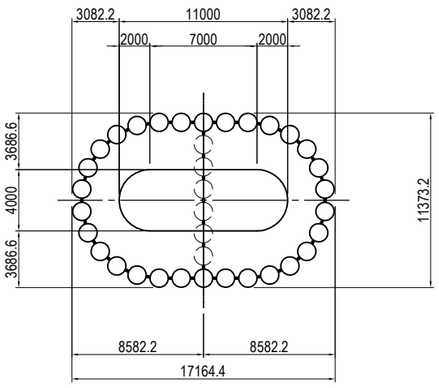
PLAN

5 - 5



PLAN

6 - 6



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm²	SD345
COLUMN	σck = 30 N/mm²	SD390・SD345
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

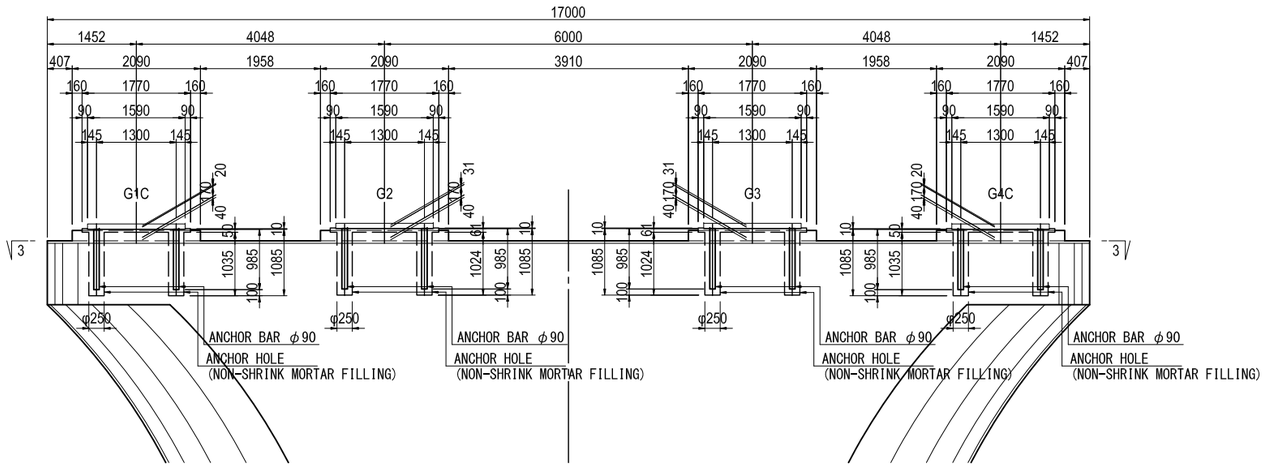
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	GENERAL VIEW OF P17 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2301

GENERAL VIEW OF P17 PIER (2)

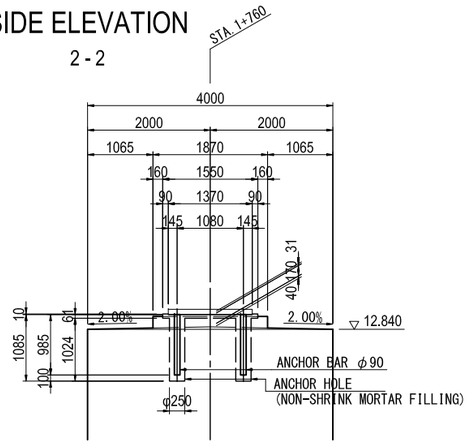
S=1:100

DETAIL OF BEARING AND ANCHOR

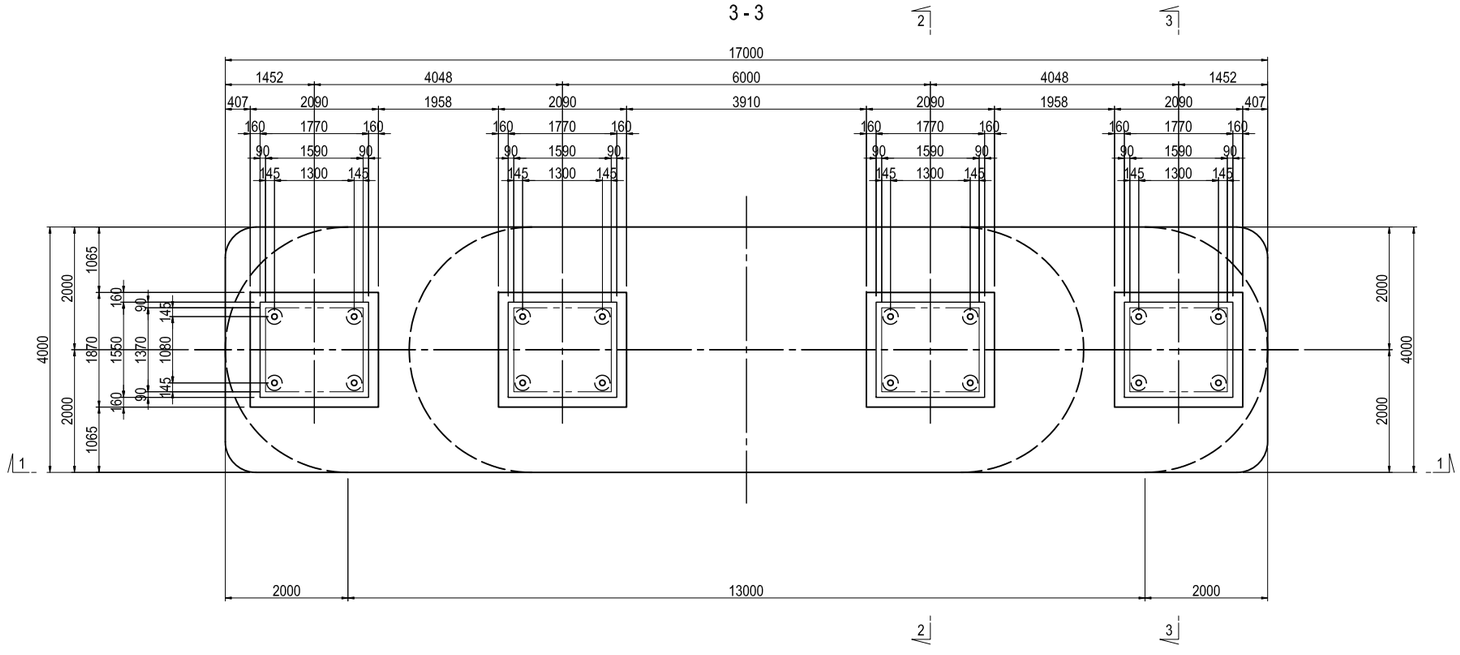
FRONT ELEVATION
1 - 1



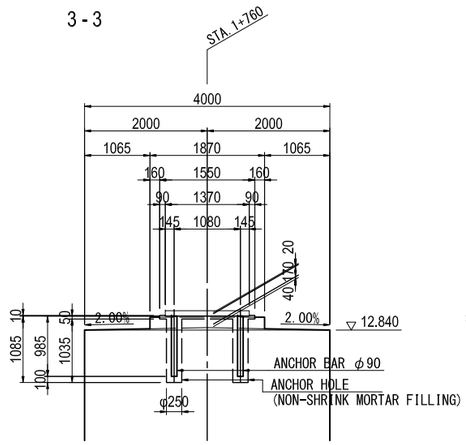
SIDE ELEVATION
2 - 2

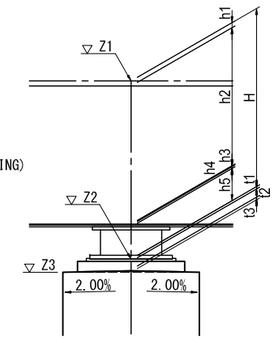


PLAN
3 - 3



SIDE ELEVATION
3 - 3





		P17 PIER			
		G1C	G2	G3	G4C
PROPOSED HEIGHT	Z1	16.289	16.370	16.370	16.289
PAVEMENT	h1	0.080	0.080	0.080	0.080
GIRDER	h2	2.709	2.790	2.790	2.709
BOTTOM FLANGE	h3	0.042	0.031	0.031	0.042
SOLE PLATE	h4	0.035	0.035	0.035	0.035
BEARING	h5	0.353	0.353	0.353	0.353
SUBTOTAL	H	3.219	3.289	3.289	3.219
ELEVATION OF BEARING BOTTOM	Z2	13.070	13.081	13.081	13.070
MORTAR	t1	0.020	0.031	0.031	0.020
BEARING BASE	t2	0.170	0.170	0.170	0.170
DRAINAGE INCLINE	t3	0.040	0.040	0.040	0.040
ELEVATION OF PIER TOP	Z3	12.840	12.840	12.840	12.840

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE: GENERAL VIEW OF P17 PIER (2)

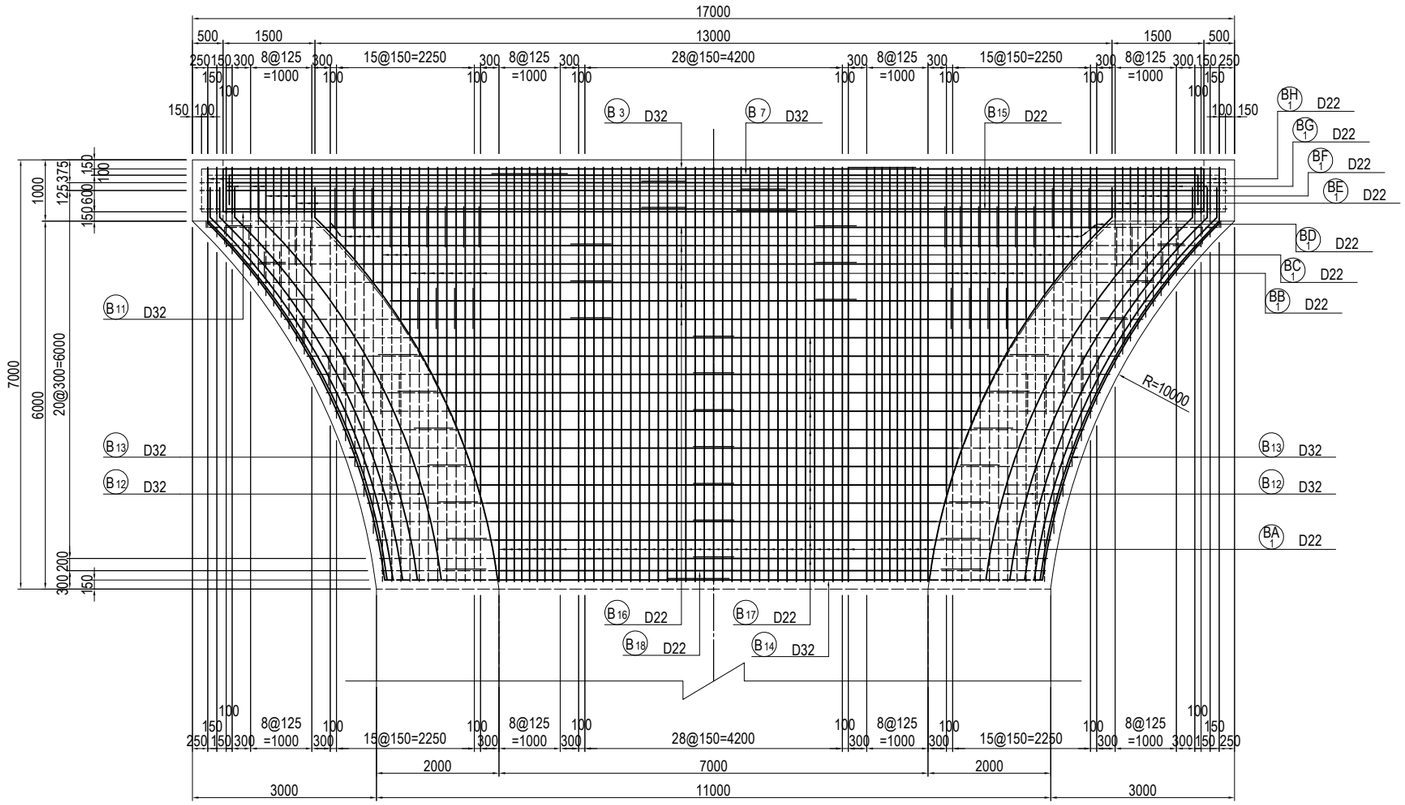
PACKAGE: 2

DWG No.: P2-SB-2302

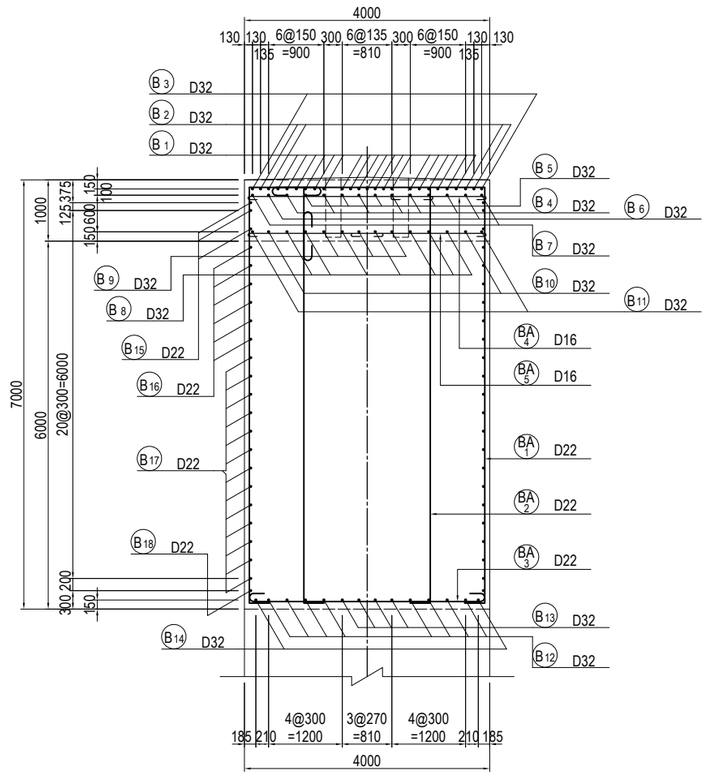
BAR ARRANGEMENT OF P17 PIER (1) S=1:100

BEAM

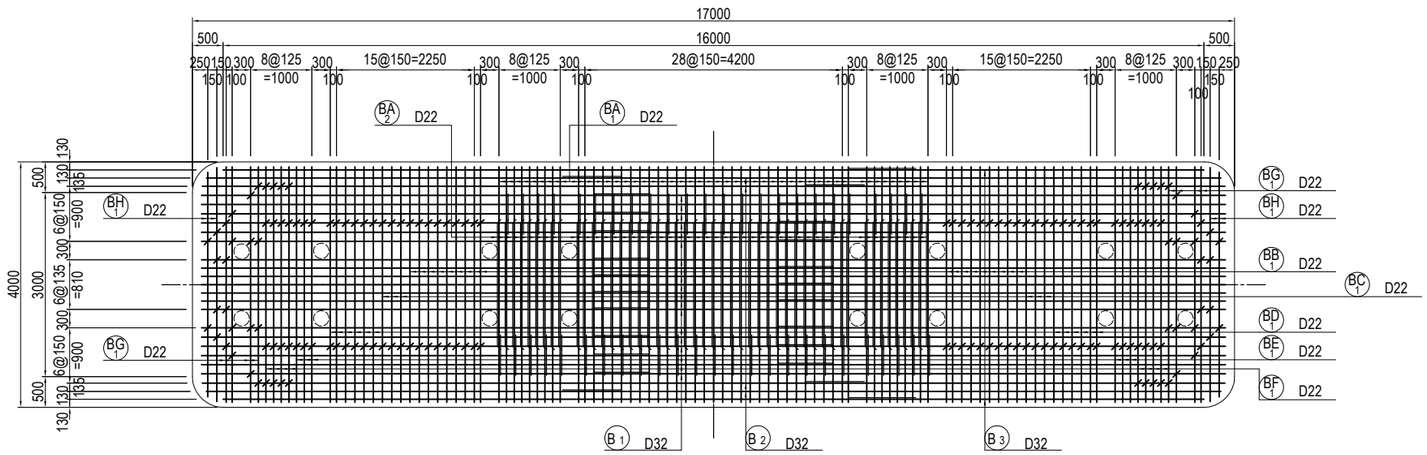
FRONT ELEVATION
1 - 1



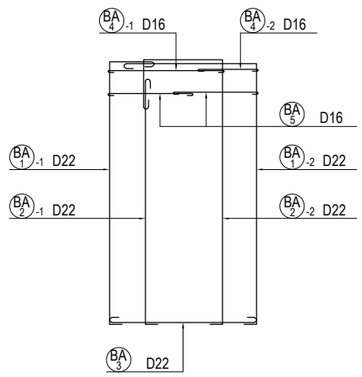
SECTION
3 - 3



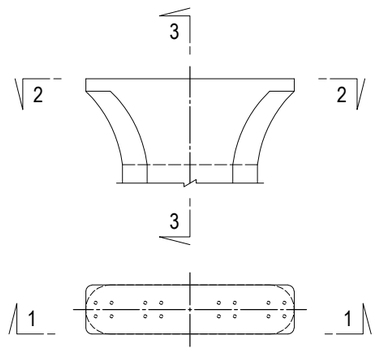
PLAN
2 - 2



ASSEMBLY DRAWING OF STIRRUP



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

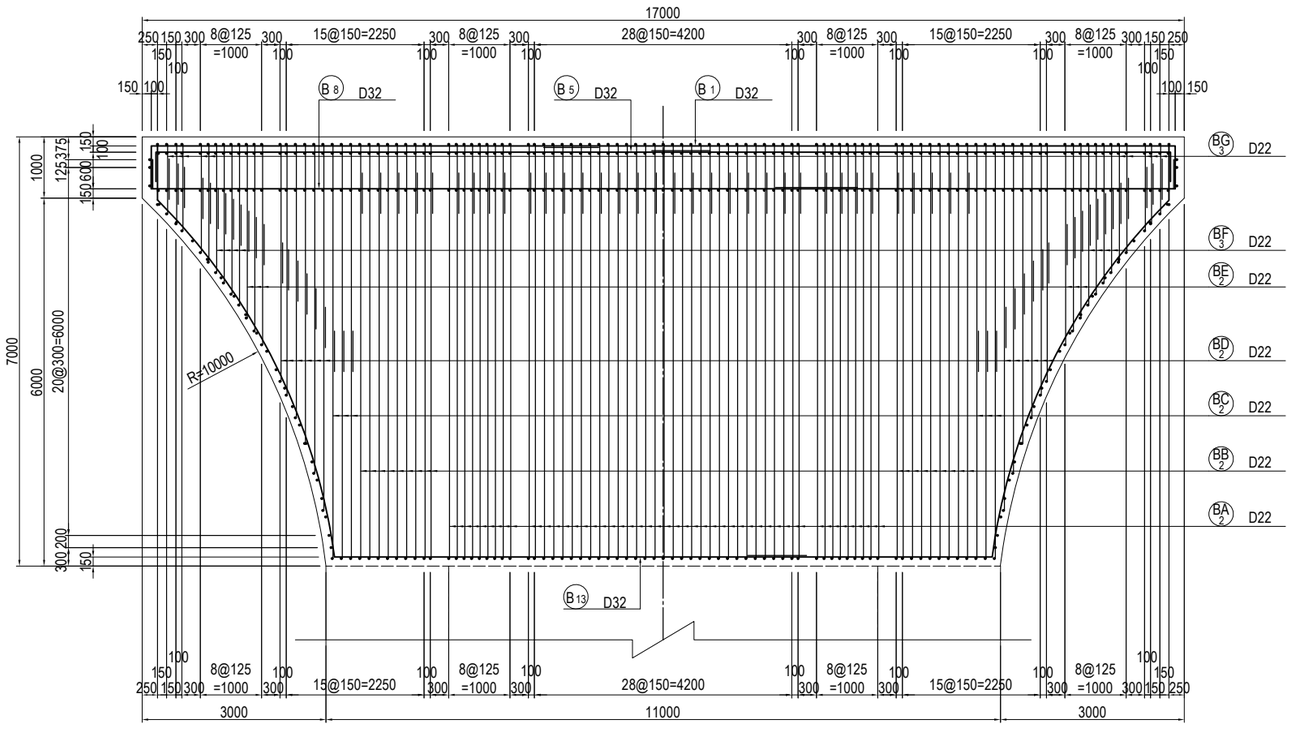
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P17 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2303

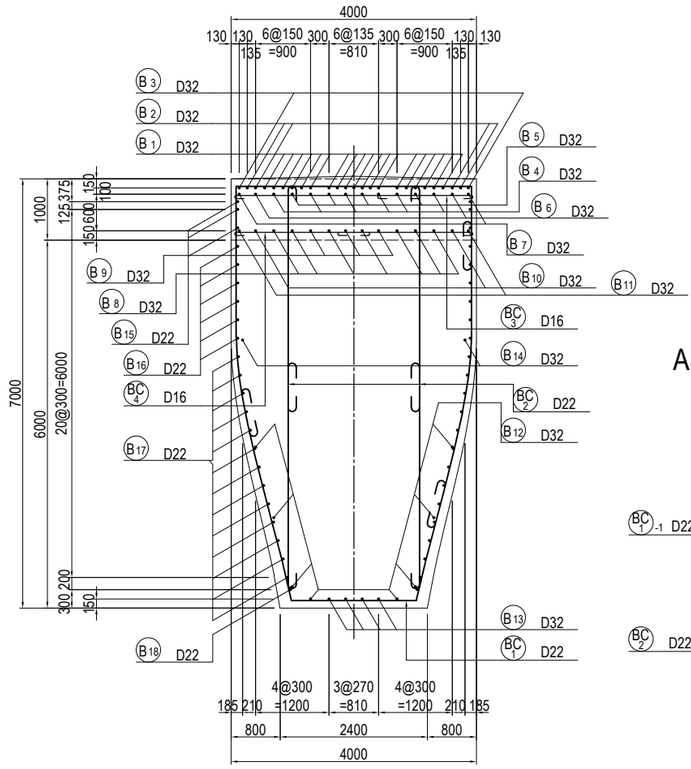
BAR ARRANGEMENT OF P17 PIER (2) S=1:100

BEAM

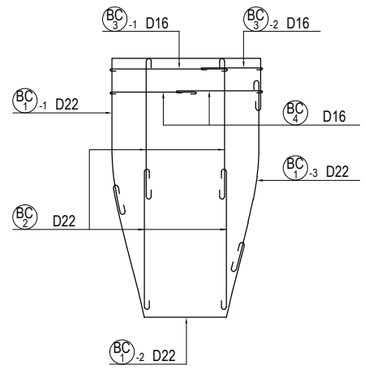
SECTION 4 - 4



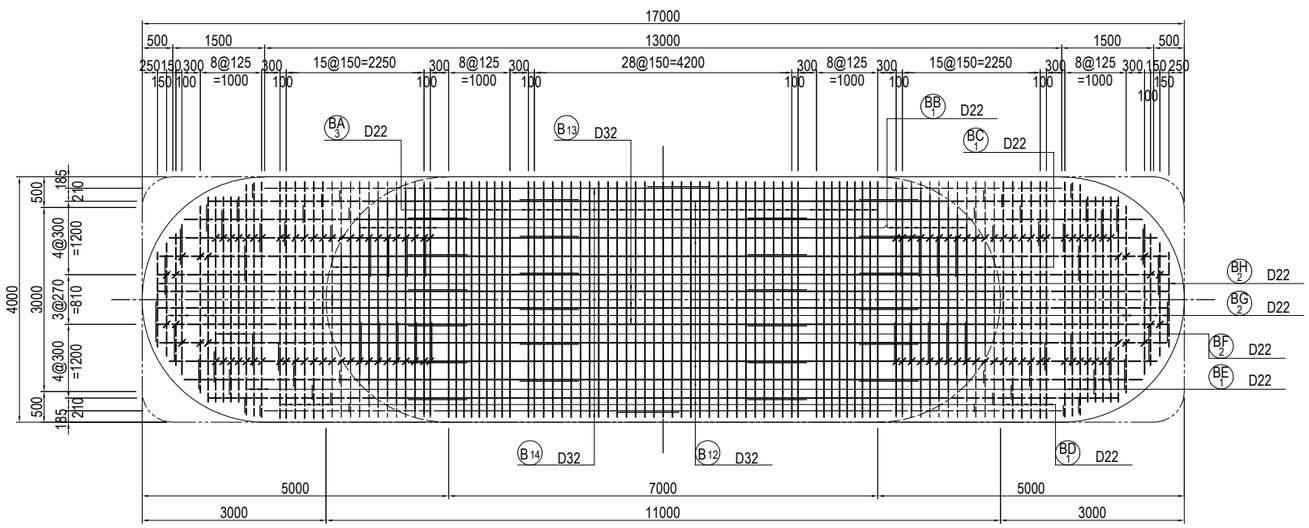
SECTION 7 - 7



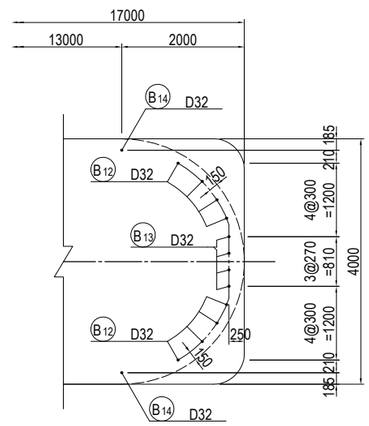
ASSEMBLY DRAWING OF STIRRUP



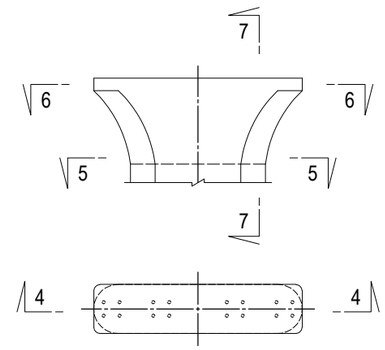
PLAN 5 - 5



PLAN 6 - 6



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

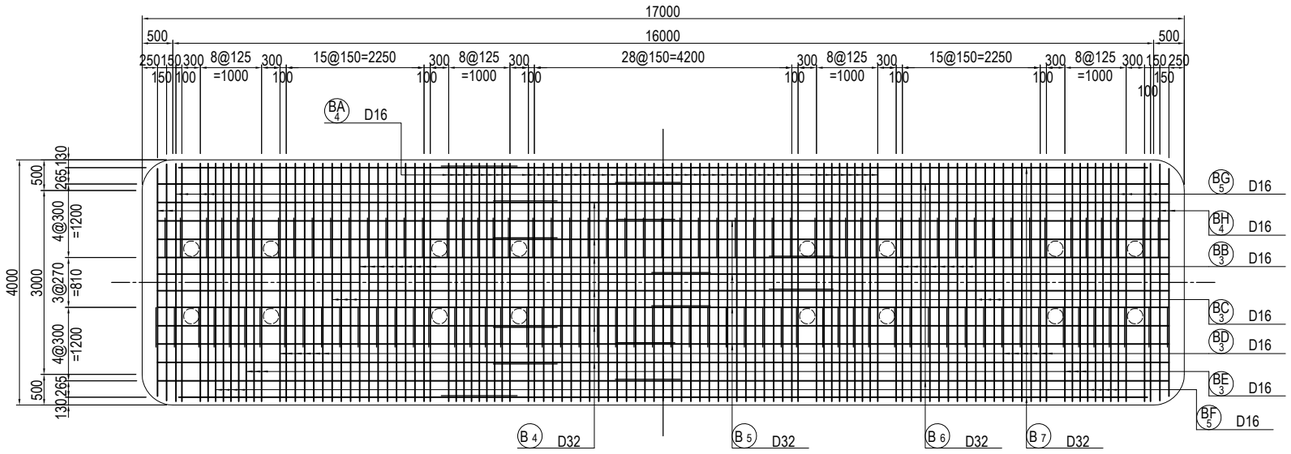
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P17 PIER (2)	2
	DWG No.
	P2-SB-2304

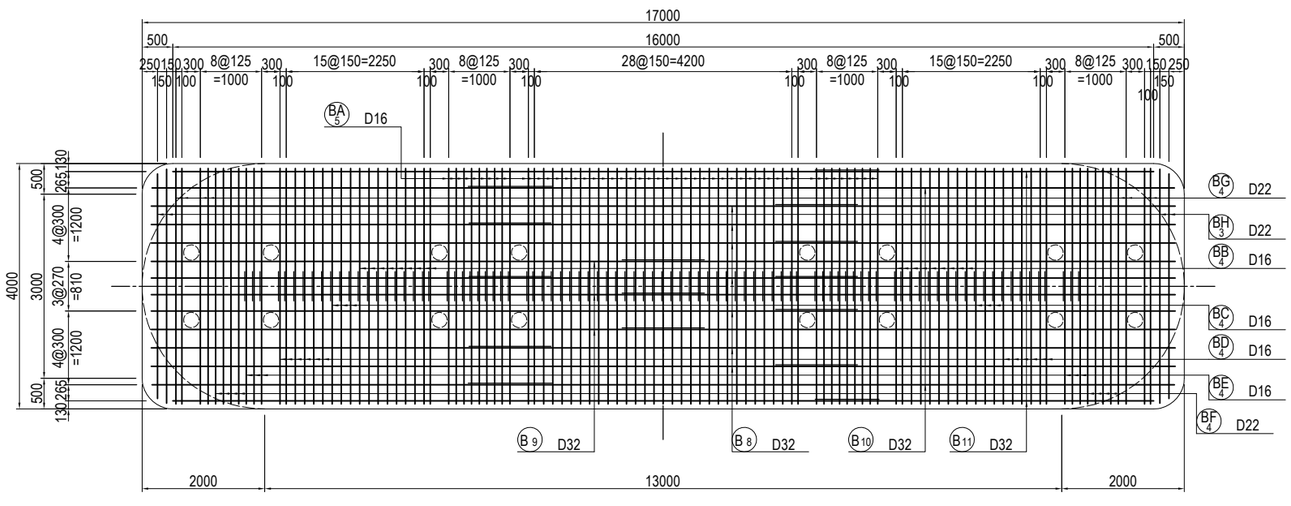
BAR ARRANGEMENT OF P17 PIER (3) S=1:100

BEAM

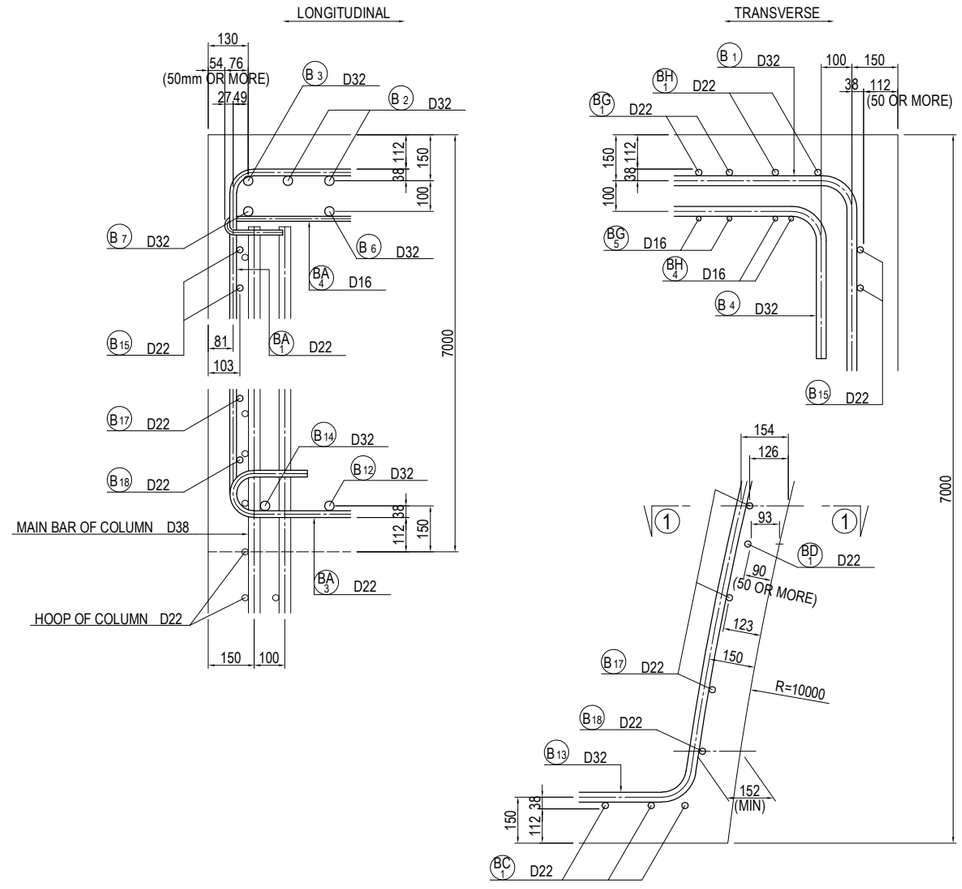
PLAN 8 - 8



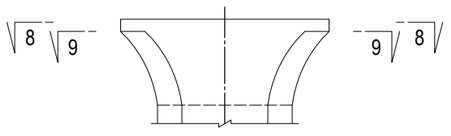
PLAN 9 - 9



DETAIL OF BEAM S=1:20



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P17 PIER (3)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2305

BAR ARRANGEMENT OF P17 PIER (4) S=1:100

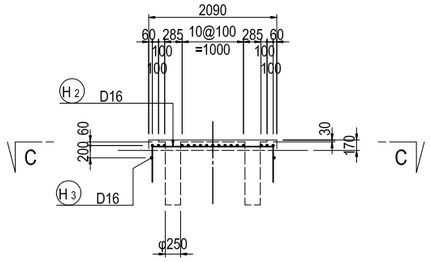
BEAM

BAR ARRANGEMENT OF BEARING BASE

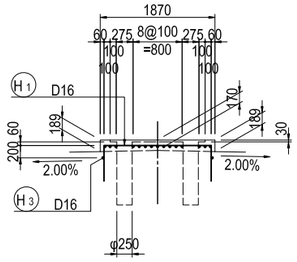
(N = 4)

SECTION

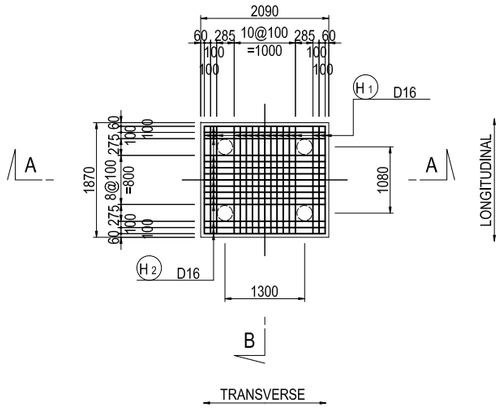
A - A

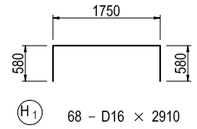


B - B

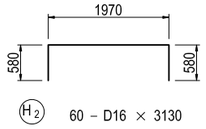


PLAN
C - C

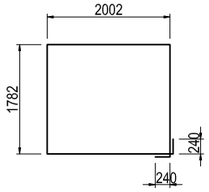




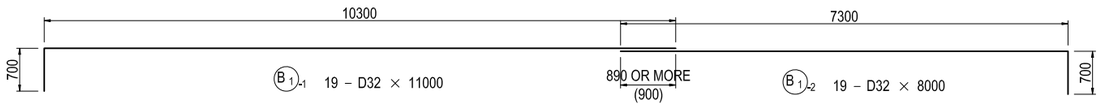
(H1) 68 – D16 × 2910

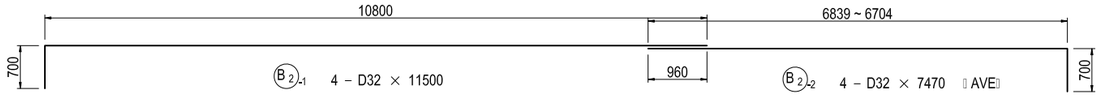


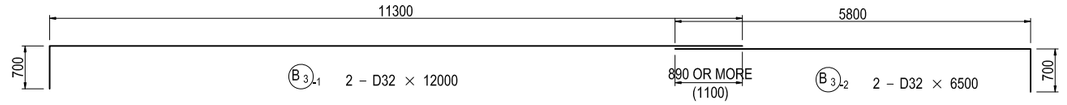
(H2) 60 – D16 × 3130

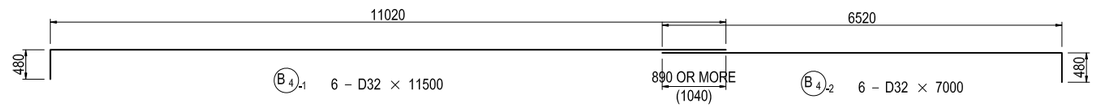


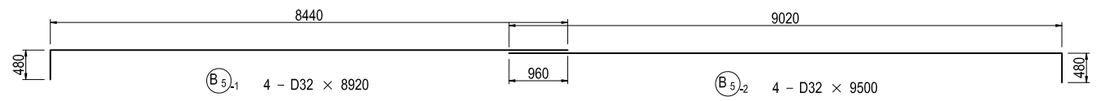
(H3) 4 – D16 × 8050

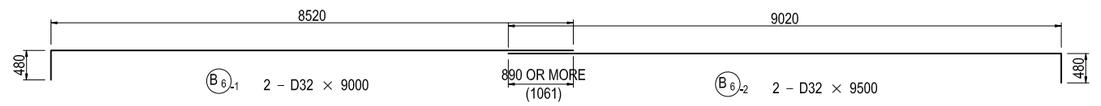


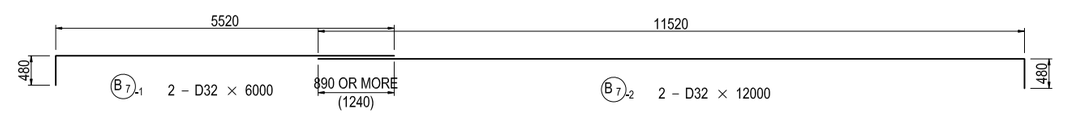












USE MATERIALS

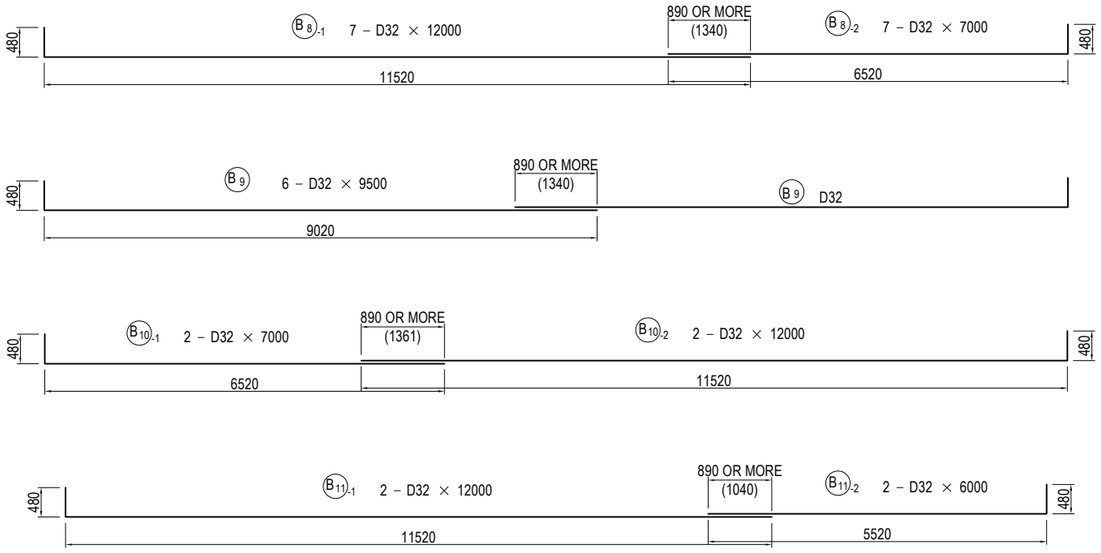
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

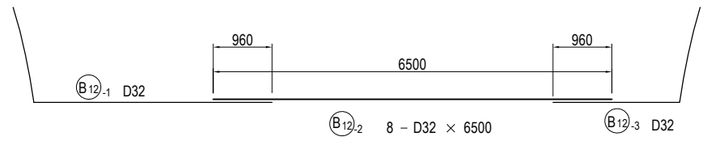
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME	SIGNATURE / DATE
				PREPARED BY	S. IMADA / 15 Jun.2017
				CHECKED BY	T. HAYAKAWA / 20 Jun.2017
				APPROVED BY	Y. SANO / 21 Jun.2017

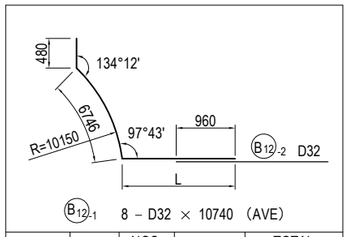
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P17 PIER (4)	2
	DWG No.
	P2-SB-2306

BAR ARRANGEMENT OF P17 PIER (5) S=1:100

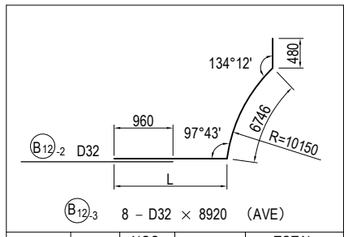
BEAM



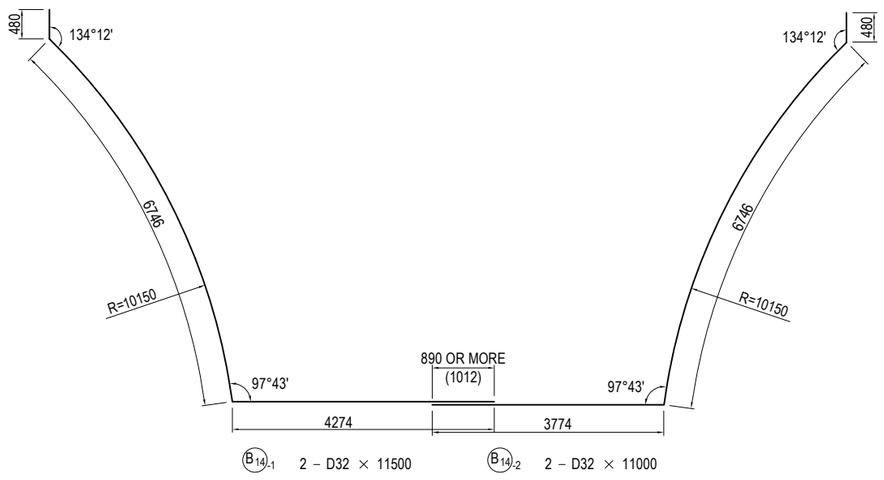


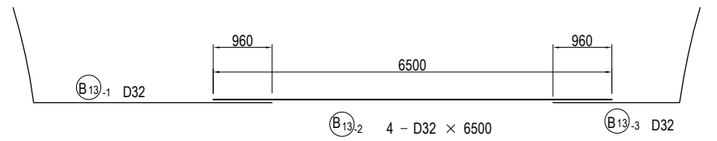


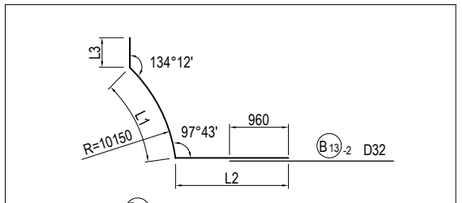
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B12 -1 1	D32	2	3058	10284
2	"	2	3449	10675
3	"	2	3691	10917
4	"	2	3848	11074
AVE		8		10738



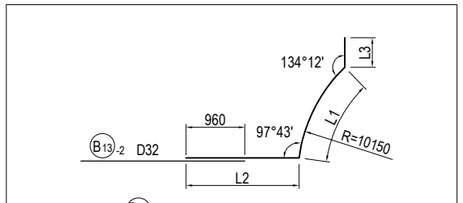
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B12 -3 1	D32	2	1238	8464
2	"	2	1629	8855
3	"	2	1871	9097
4	"	2	2028	9254
AVE		8		8918







MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
B13 -1 1	D32	2	6669	3943	840	11452
2	"	2	6613	3983	880	11476
AVE		4				11464



MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
B13 -3 1	D32	2	6669	2123	840	9632
2	"	2	6613	2163	880	9656
AVE		4				9644

USE MATERIALS

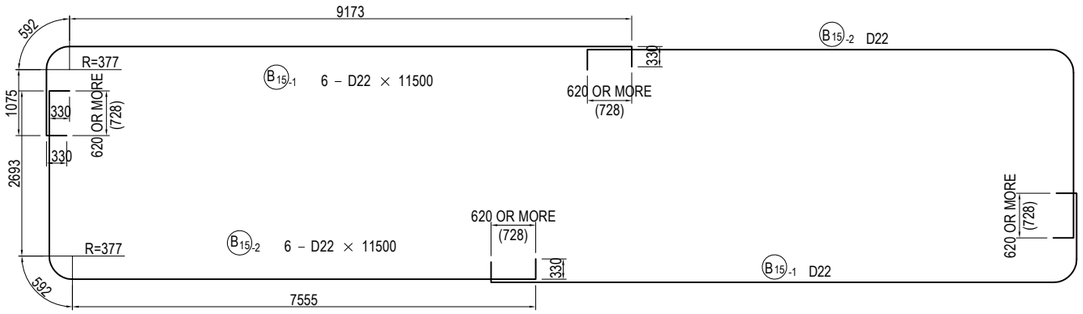
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

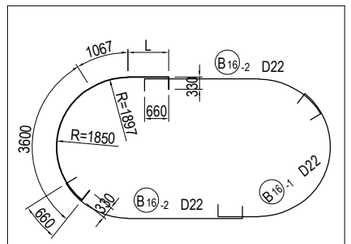
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P17 PIER (5)	1
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2307

BAR ARRANGEMENT OF P17 PIER (6) S=1:100

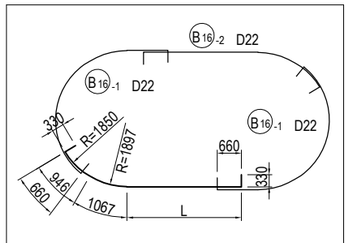
BEAM





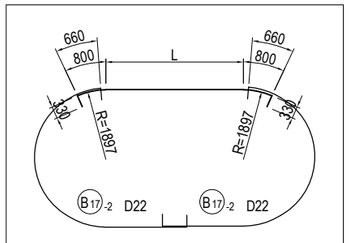
B16-1 12 – D22 × 9300 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-1 1	D22	2	4612	9939
2	"	2	4328	9655
3	"	2	4065	9392
4	"	2	3823	9150
5	"	2	3598	8925
6	"	2	3391	8718
AVE		12		9297



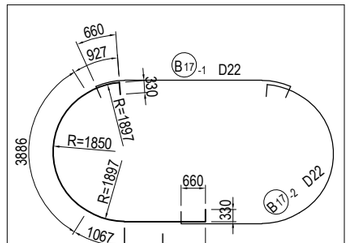
B16-2 12 – D22 × 10640 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-2 1	D22	2	8612	11285
2	"	2	8328	11001
3	"	2	8065	10738
4	"	2	7823	10496
5	"	2	7598	10271
6	"	2	7391	10064
AVE		12		10643



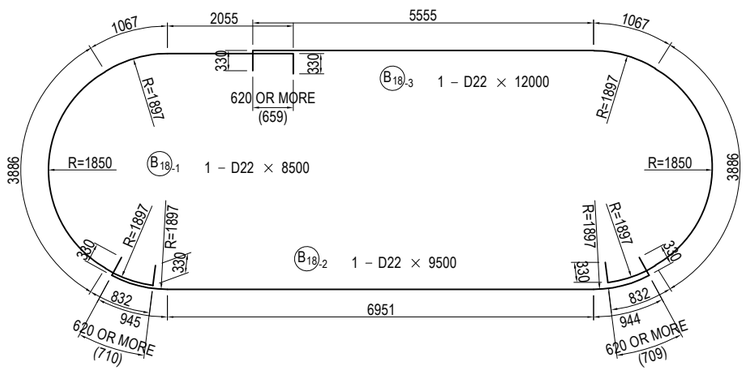
B17-1 13 – D22 × 10400 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B17-1 1	D22	1	9737	11997
2	"	1	9381	11641
3	"	1	9052	11312
4	"	1	8749	11009
5	"	1	8470	10730
6	"	1	8215	10475
7	"	1	7982	10242
8	"	1	7771	10031
9	"	1	7580	9840
10	"	1	7410	9670
11	"	1	7260	9520
12	"	1	7128	9388
13	"	1	7016	9276
AVE		13		10395



B17-2 26 – D22 × 10940 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B17-2 1	D22	2	5198	11738
2	"	2	5020	11560
3	"	2	4856	11396
4	"	2	4705	11245
5	"	2	4565	11105
6	"	2	4438	10978
7	"	2	4321	10861
8	"	2	4215	10755
9	"	2	4120	10660
10	"	2	4035	10575
11	"	2	3960	10500
12	"	2	3894	10434
13	"	2	3838	10378
AVE		26		10937



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

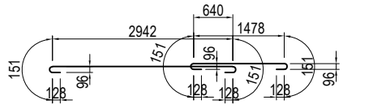
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

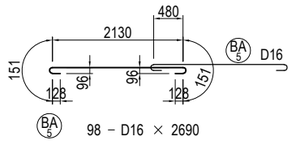
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P17 PIER (6)	2
	DWG No.
	P2-SB-2308

BAR ARRANGEMENT OF P17 PIER (7) S=1:100

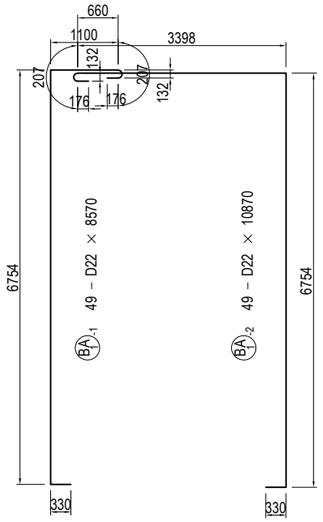
BEAM

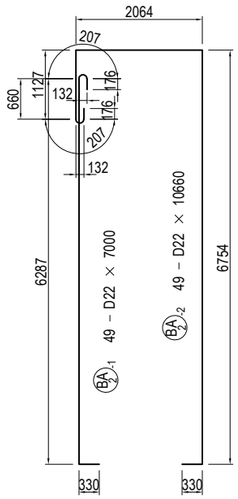


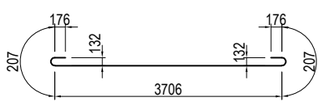
BA4-1 49 – D16 × 3500 BA4-2 49 – D16 × 2040



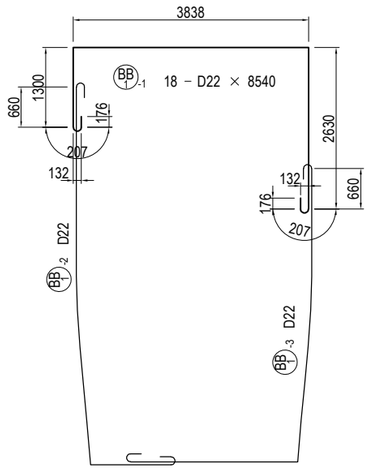
BA5 98 – D16 × 2690

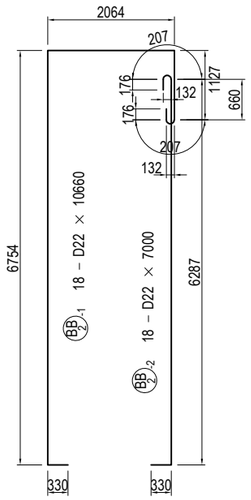


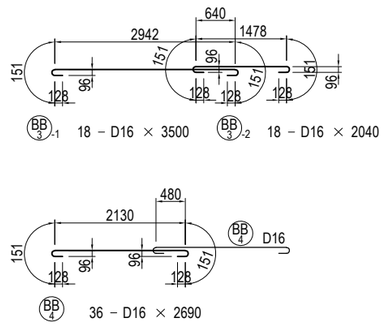


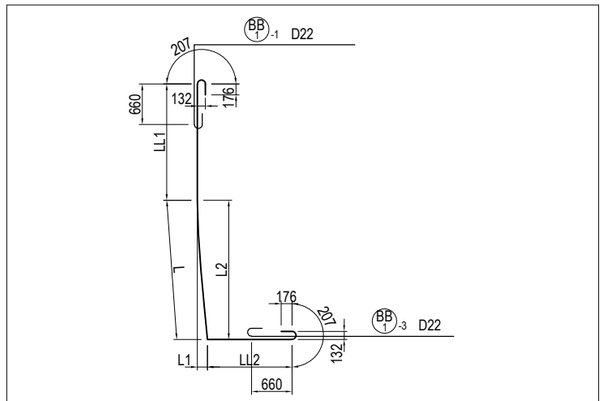


BA3 49 – D22 × 4470



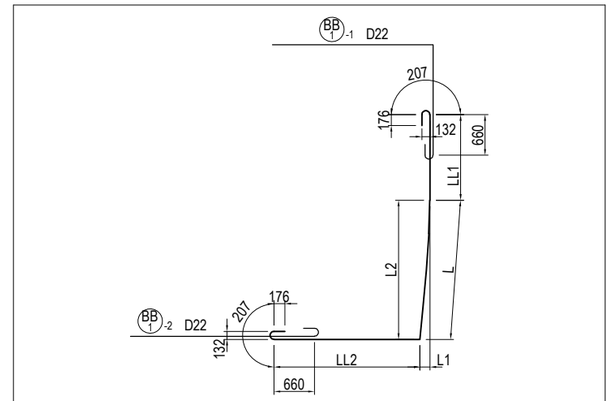






BB1-2 18 – D22 × 8160 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL1	LENGTH LL2	TOTAL LENGTH ΣL
BB1-2 1	D22	2	1464	33	1464	4650	1511	8391
2	"	2	1892	54	1891	4223	1490	8371
3	"	2	2282	97	2280	3834	1447	8329
4	"	2	2606	155	2601	3513	1389	8274
5	"	2	3029	227	3020	3094	1317	8206
6	"	2	3241	315	3225	2889	1229	8125
7	"	2	3607	416	3580	2534	1128	8035
8	"	2	3827	541	3785	2329	1003	7925
9	"	2	4115	698	4051	2063	846	7790
AVE		18						8161



BB1-3 18 – D22 × 8240 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL1	LENGTH LL2	TOTAL LENGTH ΣL
BB1-3 1	D22	2	1464	33	1464	3320	2921	8471
2	"	2	1892	54	1891	2893	2900	8451
3	"	2	2282	97	2280	2504	2857	8409
4	"	2	2606	155	2601	2183	2799	8354
5	"	2	3029	227	3020	1764	2727	8286
6	"	2	3241	315	3225	1559	2639	8205
7	"	2	3607	416	3580	1204	2538	8115
8	"	2	3827	541	3785	999	2413	8005
9	"	2	4115	698	4051	733	2256	7870
AVE		18						8241

USE MATERIALS

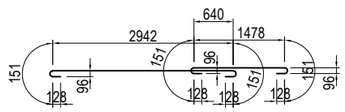
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

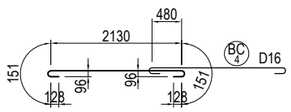
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P17 PIER (7)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2309

BAR ARRANGEMENT OF P17 PIER (8) S=1:100

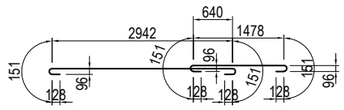
BEAM



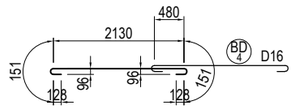
(BC3)-1 6 – D16 × 3500 (BC3)-2 6 – D16 × 2040



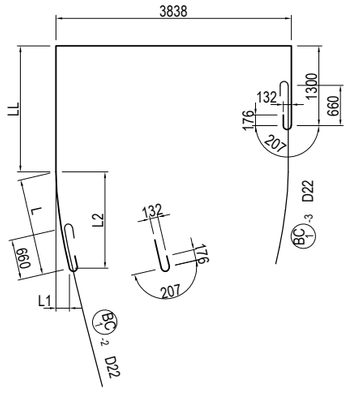
(BC4) 12 – D16 × 2690



(BD3)-1 12 – D16 × 3500 (BD3)-2 12 – D16 × 2040

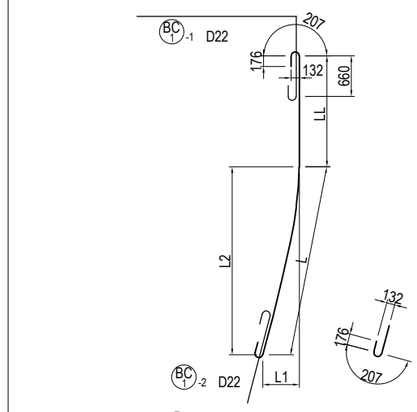


(BD4) 24 – D16 × 2690



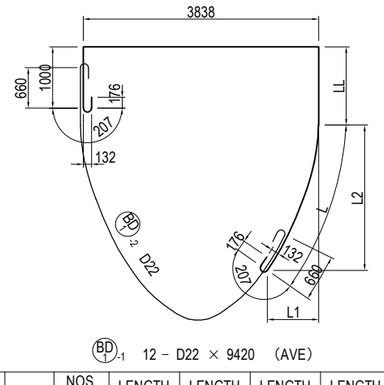
(BC1)-1 6 – D22 × 9950 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BC1-1 1	D22	2	1591	219	1573	2451	9946
2	"	2	1871	304	1837	2177	9952
3	"	2	2008	400	1961	2049	9961
AVE		6					9953



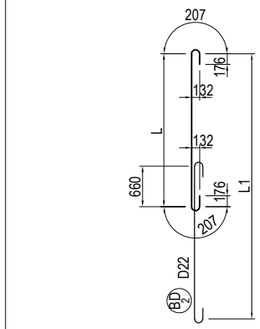
(BC1)-3 6 – D22 × 5730 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BC1-3 1	D22	2	3129	594	3064	1811	5706
2	"	2	3426	761	3327	1537	5729
3	"	2	3591	975	3434	1409	5766
AVE		6					5734



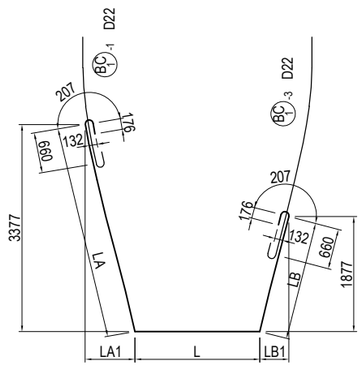
(BD1)-1 12 – D22 × 9420 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BD1-1 1	D22	2	1907	407	1855	1851	9362
2	"	2	2150	524	2071	1623	9377
3	"	2	2289	665	2171	1503	9396
4	"	2	2544	836	2369	1277	9425
5	"	2	2697	1045	2436	1167	9468
6	"	2	2879	1218	2528	1027	9510
AVE		12					9423



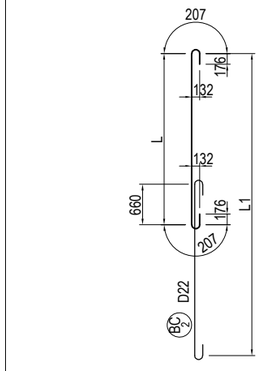
(BD2) 24 – D22 × 2980 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BD2 1	D22	4	2645	4630	3411
2	"	4	2445	4229	3211
3	"	4	2266	3872	3032
4	"	4	2105	3549	2871
5	"	4	1957	3253	2723
6	"	4	1864	3068	2630
AVE		24			2980



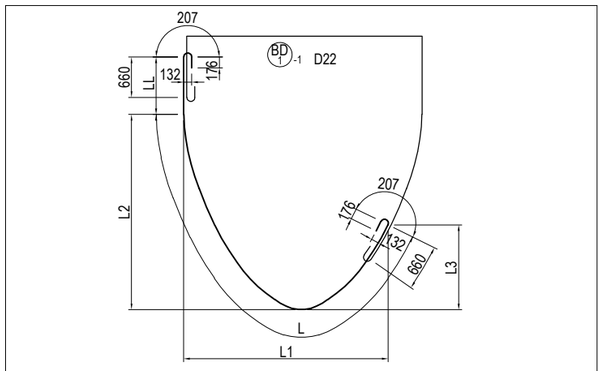
(BC1)-2 6 – D22 × 7630 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LB	LENGTH LB1	LENGTH L	TOTAL LENGTH ΣL
BC1-2 1	D22	2	3474	811	1936	474	2038	8214
2	"	2	3536	1043	1981	760	1465	7748
3	"	2	3791	1621	2209	1120	171	6937
AVE		6						7633



(BC2) 12 – D22 × 3960 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BC2 1	D22	4	3543	6425	4309
2	"	4	3159	5657	3925
3	"	4	2877	5093	3643
AVE		12			3959



(BD1)-2 12 – D22 × 8250 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BD1-2 1	D22	2	8159	3633	4120	2894	1511	10436
2	"	2	7303	3548	3741	2287	1283	9352
3	"	2	6546	3453	3373	1799	1163	8475
4	"	2	5999	3336	3183	1383	937	7702
5	"	2	5399	3189	2925	1015	827	6992
6	"	2	5104	3072	2841	791	687	6557
AVE		12						8252

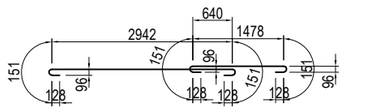
USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

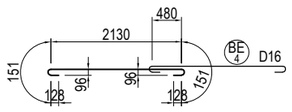
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P17 PIER (8)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2310

BAR ARRANGEMENT OF P17 PIER (9) S=1:100

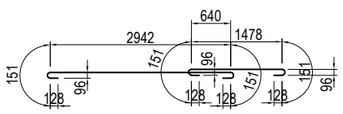
BEAM



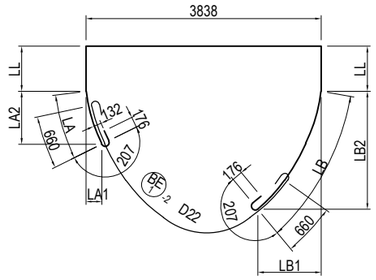
BE3-1 6 – D16 × 3500 BE3-2 6 – D16 × 2040



BE4 12 – D16 × 2690

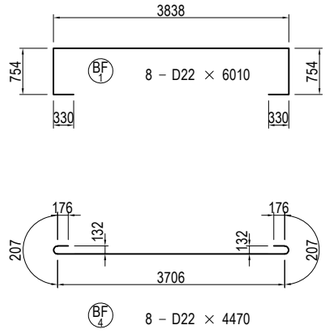


BF5-1 8 – D16 × 3500 BF5-2 8 – D16 × 2040

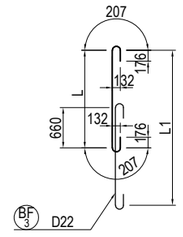


BF1-1 6 – D22 × 9620 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LA2	LENGTH LB	LENGTH LB1	LENGTH LB2	LENGTH LL	TOTAL LENGTH ΣL
BE1-1 1	D22	2	820	196	793	2475	1141	2129	818	9535
2	"	2	905	257	863	2624	1351	2154	736	9605
3	"	2	970	325	906	2780	1612	2117	679	9712
AVE		6								9617

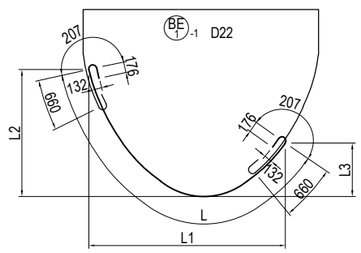


BF4 8 – D22 × 4470



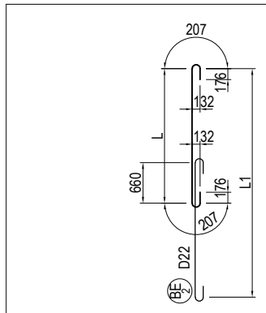
BF3 16 – D22 × 1980 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BF3 1	D22	4	1335	2009	2101
2	"	4	1251	1841	2017
3	"	4	1170	1680	1936
4	"	4	1093	1526	1859
AVE		16			1978



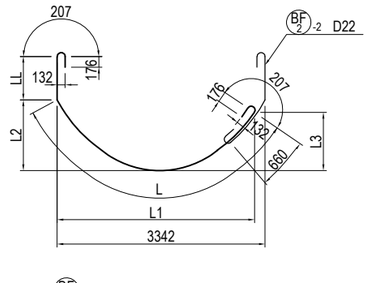
BE1-2 6 – D22 × 4990 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
BE1-2 1	D22	2	4693	3139	2292	792	5459
2	"	2	4230	2959	2069	569	4996
3	"	2	3755	2725	1858	358	4521
AVE		6					4992



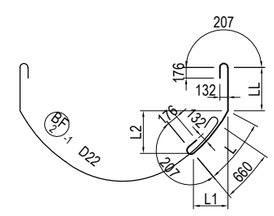
BE2 12 – D22 × 2280 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BE2 1	D22	4	1611	2561	2377
2	"	4	1514	2368	2280
3	"	4	1423	2185	2189
AVE		12			2282



BF2-1 8 – D22 × 5850 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BF2-1 1	D22	2	4397	3300	1340	1258	1228	6391
2	"	2	4172	3218	1287	1068	1092	6030
3	"	2	3933	3126	1233	887	964	5663
4	"	2	3721	3016	1196	713	829	5316
AVE		8						5850



BF2-2 8 – D22 × 2790 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BF2-2 1	D22	2	753	407	631	1228	2747
2	"	2	912	530	737	1092	2770
3	"	2	1069	665	828	964	2799
4	"	2	1243	821	914	829	2838
AVE		8					2789

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

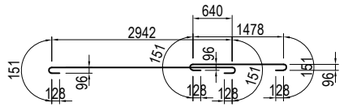
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

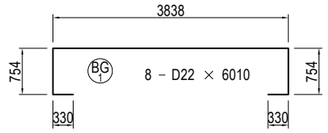
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P17 PIER (9)	2
	DWG No.
	P2-SB-2311

BAR ARRANGEMENT OF P17 PIER (10) S=1:100

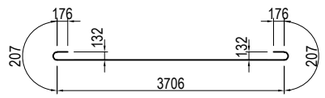
BEAM



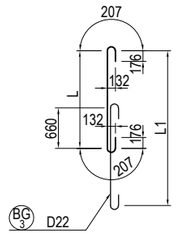
BG5-1 8 – D16 × 3500 BG5-2 8 – D16 × 2040



BG1 8 – D22 × 6010

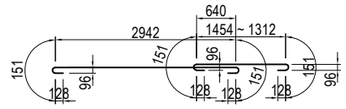


BG4 8 – D22 × 4470



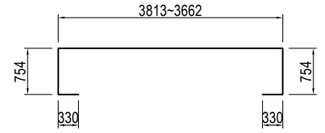
BG3 20 – D22 × 1700 (AVE)

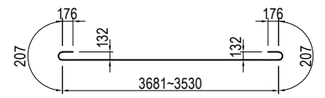
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BG3 1	D22	4	1113	1565	1879
2	"	4	1038	1415	1804
3	"	4	869	1077	1635
4	"	4	866	1071	1632
5	"	4	787	914	1553
AVE		20			1701



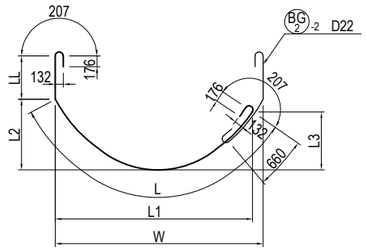
BH4-1 4 – D16 × 3500 BH4-2 4 – D16 × 1940 (AVE)

BH1 4 – D22 × 5910 (AVE)



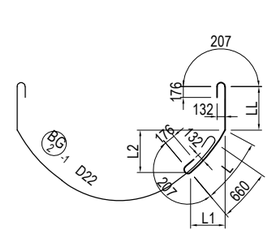


BH3 4 – D22 × 4370 (AVE)



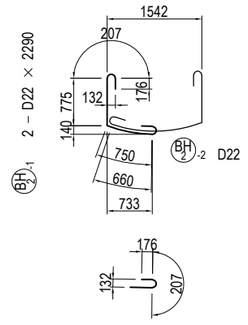
BG2-1 10 – D22 × 4390 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH W	LENGTH LL	TOTAL LENGTH ΣL
BG2-1 1	D22	2	4015	3220	1151	948	3342	707	5488
2	"	2	3528	2977	876	789	3042	824	5118
3	"	2	2594	2371	491	432	2442	852	4212
4	"	2	2227	2077	369	321	2142	863	3856
5	"	2	1715	1639	271	159	1842	799	3280
AVE		10							4391

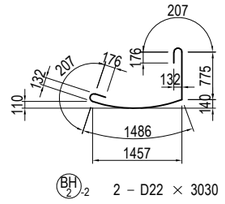


BG2-2 10 – D22 × 2390 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BG2-2 1	D22	2	898	561	694	707	2371
2	"	2	769	545	536	824	2359
3	"	2	752	645	379	852	2370
4	"	2	740	662	320	863	2369
5	"	2	892	840	269	799	2457
AVE		10					2385



BH2-1



BH2-2 2 – D22 × 3030

USE MATERIALS

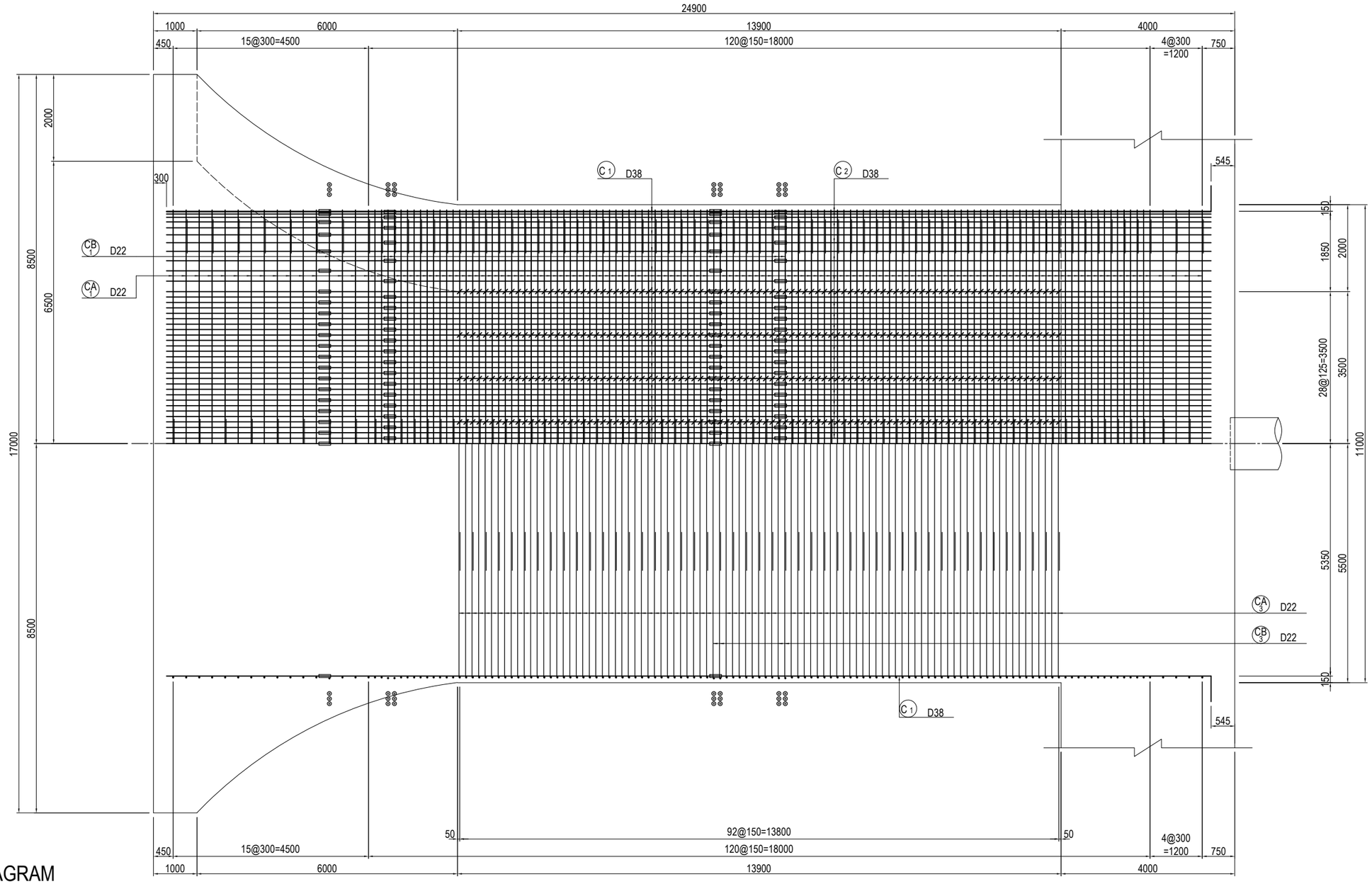
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P17 PIER (10)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2312

BAR ARRANGEMENT OF P17 PIER (11) S=1:100

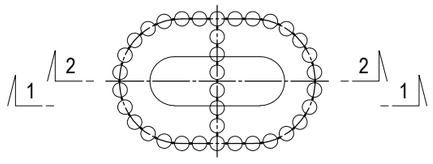
COLUMN

FRONT ELEVATION
1 - 1



SECTION
2 - 2

MARKING DIAGRAM



Notes) 1. ⊛⊛⊛ : This mark indicates hoop arranged in the location of mechanical joint.
2. —▭— : This mark indicates a mechanical joint.

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

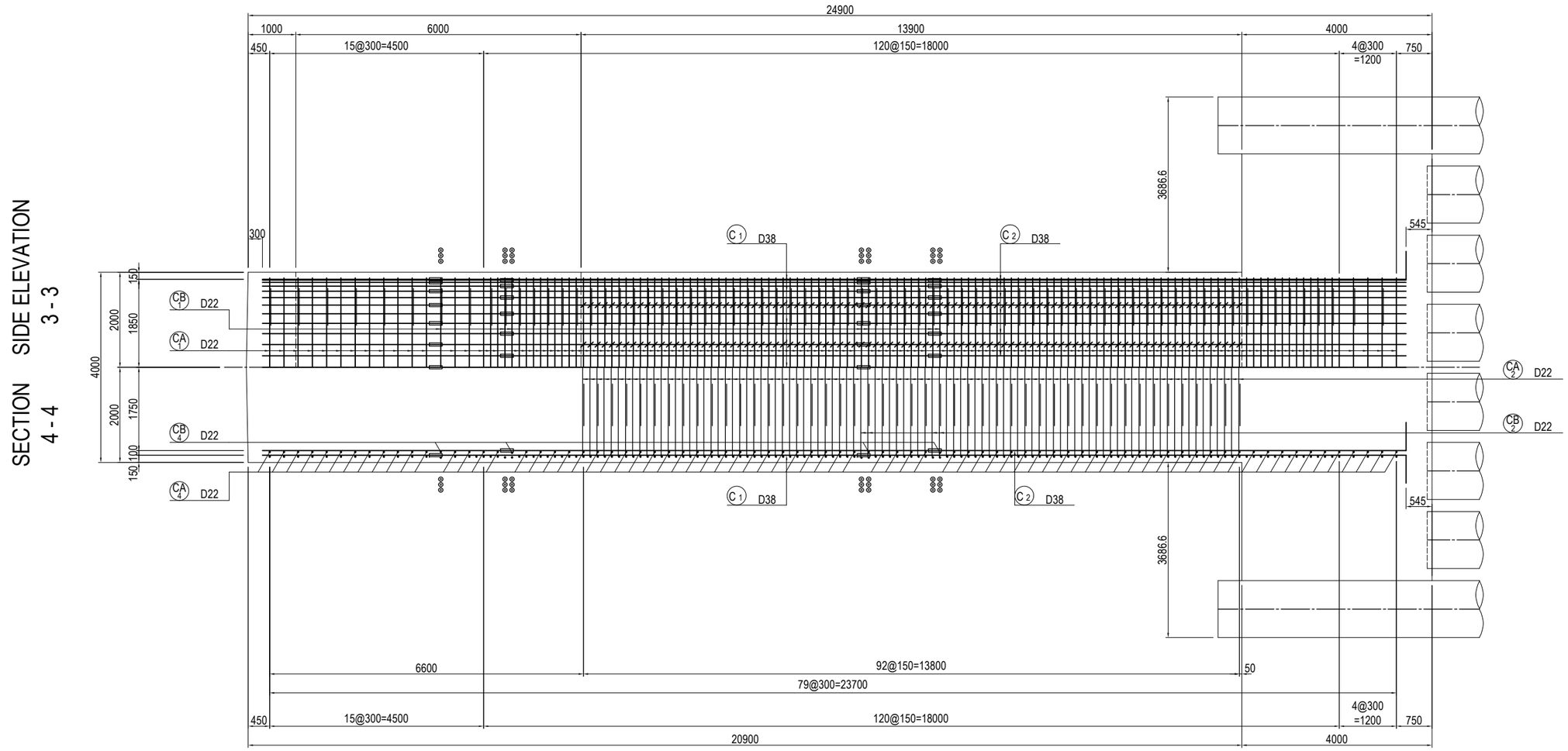
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P17 PIER (11)	2
	DWG No.
	P2-SB-2313

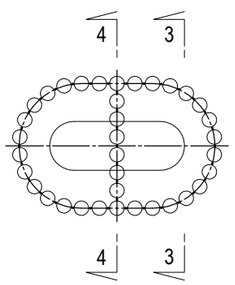
BAR ARRANGEMENT OF P17 PIER (12) S=1:100

COLUMN

SECTION 4 - 4 SIDE ELEVATION 3 - 3



MARKING DIAGRAM



Notes) 1. ⊛⊛⊛ : This mark indicates hoop arranged in the location of mechanical joint.
2. —▭— : This mark indicates a mechanical joint.

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

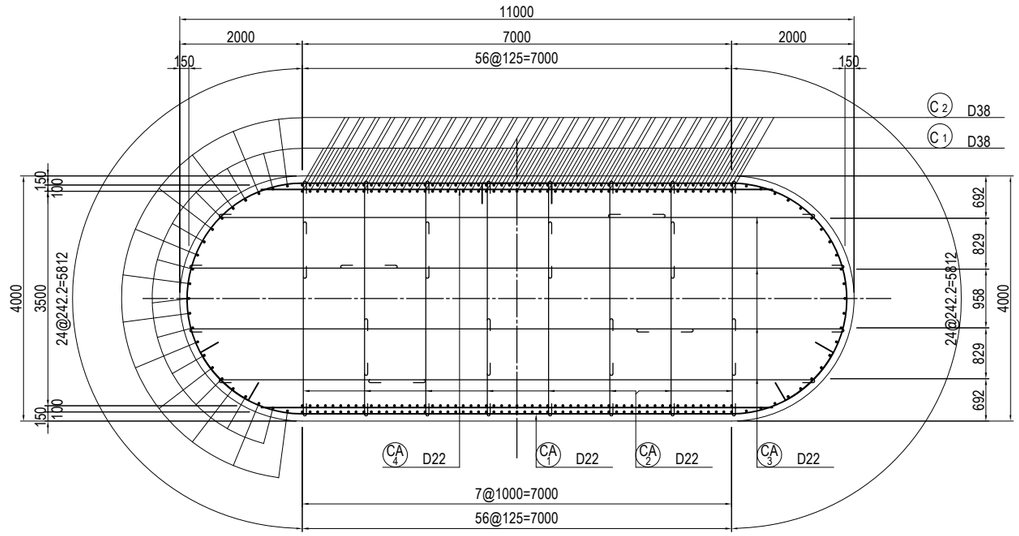
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P17 PIER (12)	2
	DWG No.
	P2-SB-2314

BAR ARRANGEMENT OF P17 PIER (13) S=1:100

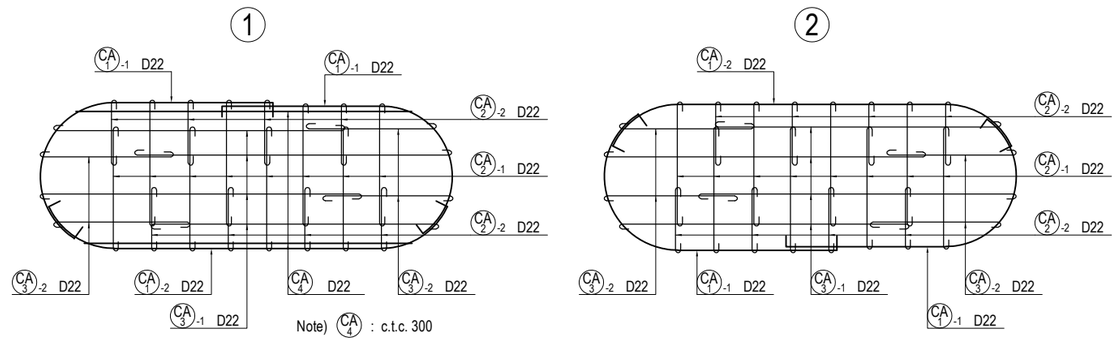
COLUMN

PLAN
5 - 5

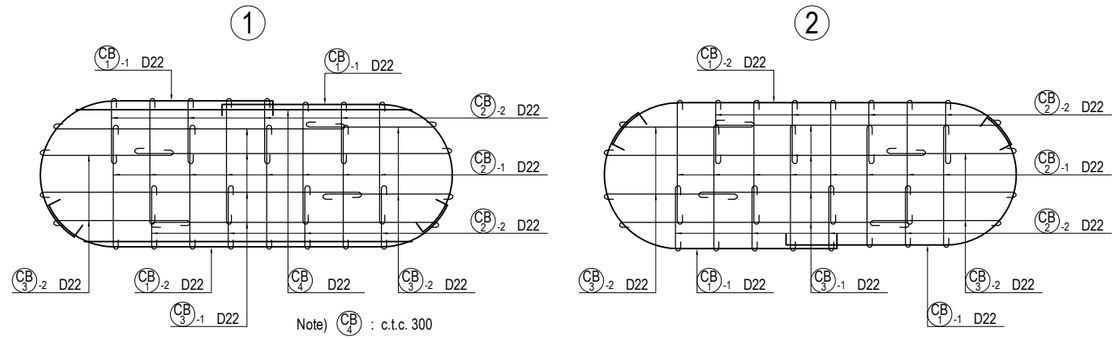


ASSEMBLY DRAWING OF HOOP
(c.t.c. 150)

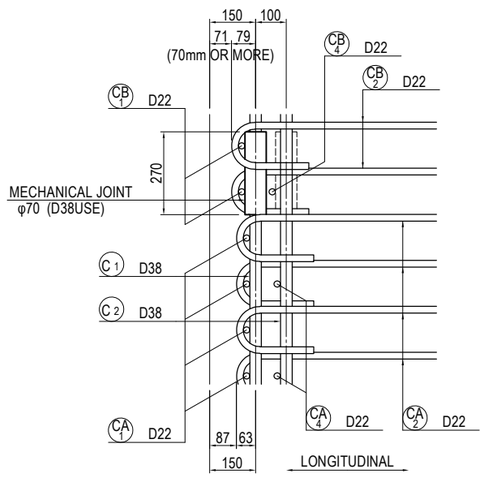
【STANDARD PART】



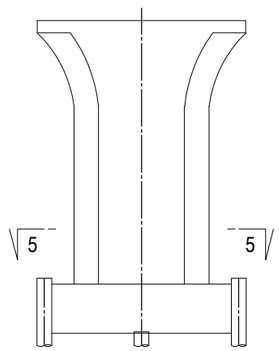
【MECHANICAL JOINT PART】



DETAIL OF COLUMN S=1:20



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

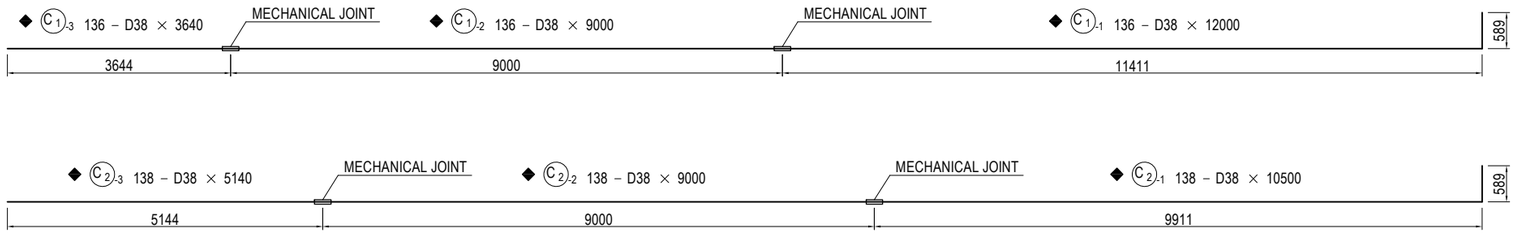
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

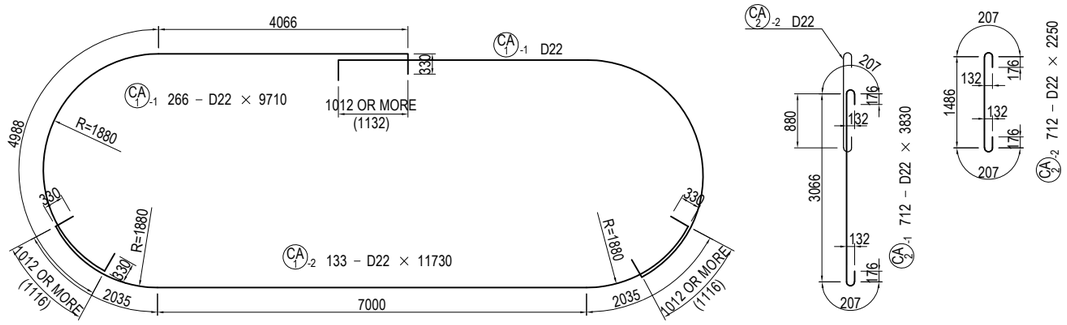
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

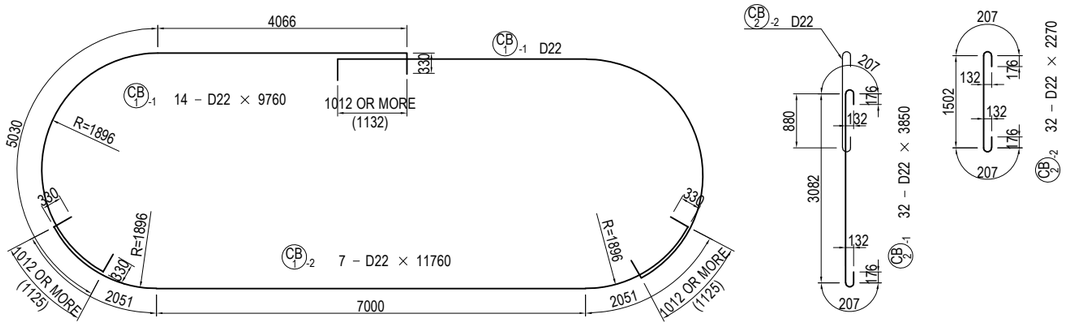
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P17 PIER (13)	2
	DWG No.
	P2-SB-2315

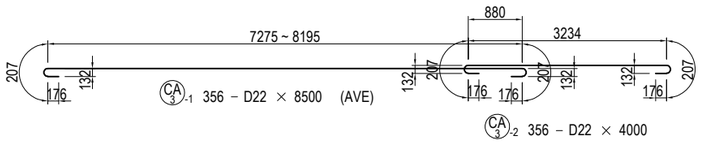
BAR ARRANGEMENT OF P17 PIER (14) S=1:100

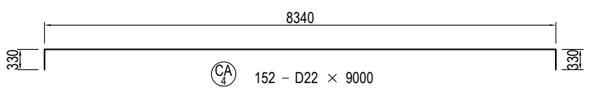
COLUMN

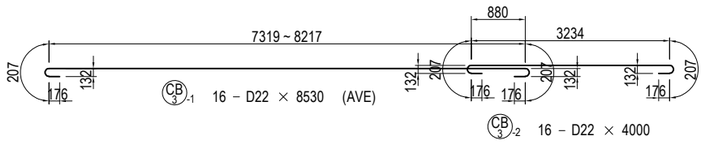


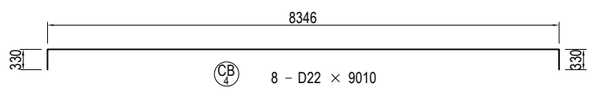




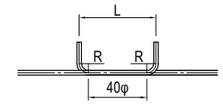








LAP LENGTH LIST OF HOOP



DIA.	R	LAP LENGTH (40φ)	L
D13	39	520	598
D16	48	640	736
D19	57	760	874
D22	66	880	1012
D25	75	1000	1150
D29	87	1160	1334
D32	96	1280	1472

Notes) 1. ◆ : SD390
2. —▭— : MECHANICAL JOINT

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P17 PIER (14)	2
	DWG No.
	P2-SB-2316

BAR ARRANGEMENT OF P17 PIER (15) NOT TO SCALE

BAR SCHEDULE (SD390)

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
C 1-1	D38	12000	136	8.95	107.40	14606	(136)
1-2	"	9000	136	"	80.55	10955	(136)
1-3	"	3640	136	"	32.58	4431	
2-1	"	10500	138	"	93.98	12969	(138)
2-2	"	9000	138	"	80.55	11116	(138)
2-3	"	5140	138	"	46.00	6348	
					SUBTOTAL	60425 kg	
							(MECHANICAL JOINT)
	SD390		D38		60425 kg	(548)	
			TOTAL		60425 kg	(548)	

BAR SCHEDULE (SD345)

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
B 1-1	D32	11000	19	6.23	68.53	1302	
1-2	"	8000	19	"	49.84	947	
2-1	"	11500	4	"	71.65	287	
2-2	"	7470	4	"	46.54	186	(AVE)
3-1	"	12000	2	"	74.76	150	
3-2	"	6500	2	"	40.50	81	
4-1	"	11500	6	"	71.65	430	
4-2	"	7000	6	"	43.61	262	
5-1	"	8920	4	"	55.57	222	
5-2	"	9500	4	"	59.19	237	
6-1	"	9000	2	"	56.07	112	
6-2	"	9500	2	"	59.19	118	
7-1	"	6000	2	"	37.38	75	
7-2	"	12000	2	"	74.76	150	
8-1	"	12000	7	"	74.76	523	
8-2	"	7000	7	"	43.61	305	
9	"	9500	6	"	59.19	355	
10-1	"	7000	2	"	43.61	87	"
10-2	"	12000	2	"	74.76	150	
11-1	"	12000	2	"	74.76	150	
11-2	"	6000	2	"	37.38	75	
12-1	"	10740	8	"	66.91	535	(AVE)
12-2	"	6500	8	"	40.50	324	
12-3	"	8920	8	"	55.57	445	(AVE)
13-1	"	11460	4	"	71.40	286	(AVE)
13-2	"	6500	4	"	40.50	162	
13-3	"	9640	4	"	60.06	240	(AVE)
14-1	"	11500	2	"	71.65	143	
14-2	"	11000	2	"	68.53	137	
15-1	D22	11500	6	3.04	34.96	210	
15-2	"	11500	6	"	34.96	210	
16-1	"	9300	12	"	28.27	339	(AVE)
16-2	"	10640	12	"	32.35	388	(AVE)
17-1	"	10400	13	"	31.62	411	(AVE)
17-2	"	10940	26	"	33.26	865	(AVE)
18-1	"	8500	1	"	25.84	26	
18-2	"	9500	1	"	28.88	29	
18-3	"	12000	1	"	36.48	36	
					SUBTOTAL	10990 kg	
BA 1-1	D22	8570	49	3.04	26.05	1276	
1-2	"	10870	49	"	33.04	1619	
2-1	"	7000	49	"	21.28	1043	
2-2	"	10660	49	"	32.41	1588	
3	"	4470	49	"	13.59	666	
4-1	D16	3500	49	1.56	5.46	268	
4-2	"	2040	49	"	3.18	156	"
5	"	2690	98	"	4.20	412	"
					SUBTOTAL	7028 kg	

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
BB 1-1	D22	8540	18	3.04	25.96	467	
1-2	"	8160	18	"	24.81	447	(AVE)
1-3	"	8240	18	"	25.05	451	(AVE)
2-1	"	10660	18	"	32.41	583	
2-2	"	7000	18	"	21.28	383	
3-1	D16	3500	18	1.56	5.46	98	
3-2	"	2040	18	"	3.18	57	"
4	"	2690	36	"	4.20	151	"
					SUBTOTAL	2637 kg	
BC 1-1	D22	9950	6	3.04	30.25	182	(AVE)
1-2	"	7630	6	"	23.20	139	(AVE)
1-3	"	5730	6	"	17.42	105	(AVE)
2	"	3960	12	"	12.04	144	(AVE)
3-1	D16	3500	6	1.56	5.46	33	
3-2	"	2040	6	"	3.18	19	"
4	"	2690	12	"	4.20	50	"
					SUBTOTAL	672 kg	
BD 1-1	D22	9420	12	3.04	28.64	344	(AVE)
1-2	"	8250	12	"	25.08	301	(AVE)
2	"	2980	24	"	9.06	217	(AVE)
3-1	D16	3500	12	1.56	5.46	66	
3-2	"	2040	12	"	3.18	38	"
4	"	2690	24	"	4.20	101	"
					SUBTOTAL	1067 kg	
BE 1-1	D22	9620	6	3.04	29.24	175	(AVE)
1-2	"	4990	6	"	15.17	91	(AVE)
2	"	2280	12	"	6.93	83	(AVE)
3-1	D16	3500	6	1.56	5.46	33	
3-2	"	2040	6	"	3.18	19	"
4	"	2690	12	"	4.20	50	"
					SUBTOTAL	451 kg	
BF 1	D22	6010	8	3.04	18.27	146	
2-1	"	5850	8	"	17.78	142	(AVE)
2-2	"	2790	8	"	8.48	68	(AVE)
3	"	1980	16	"	6.02	96	(AVE)
4	"	4470	8	"	13.59	109	
5-1	D16	3500	8	1.56	5.46	44	
5-2	"	2040	8	"	3.18	25	"
					SUBTOTAL	630 kg	
BG 1	D22	6010	8	3.04	18.27	146	
2-1	"	4390	10	"	13.35	134	(AVE)
2-2	"	2390	10	"	7.27	73	(AVE)
3	"	1700	20	"	5.17	103	(AVE)
4	"	4470	8	"	13.59	109	
5-1	D16	3500	8	1.56	5.46	44	
5-2	"	2040	8	"	3.18	25	"
					SUBTOTAL	634 kg	

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
BH 1	D22	5910	4	3.04	17.97	72	(AVE)
2-1	"	2290	2	"	6.96	14	
2-2	"	3030	2	"	9.21	18	
3	"	4370	4	"	13.28	53	(AVE)
4-1	D16	3500	4	1.56	5.46	22	
4-2	"	1940	4	"	3.03	12	(AVE)
					SUBTOTAL	191 kg	
H 1	D16	2910	68	1.56	4.54	309	
2	"	3130	60	"	4.88	293	"
3	"	8050	4	"	12.56	50	
					SUBTOTAL	652 kg	
CA 1-1	D22	9710	266	3.04	29.52	7852	
1-2	"	11730	133	"	35.66	4743	
2-1	"	3830	712	"	11.64	8288	
2-2	"	2250	712	"	6.84	4870	"
3-1	"	8500	356	"	25.84	9199	(AVE)
3-2	"	4000	356	"	12.16	4329	"
4	"	9000	152	"	27.36	4159	
					SUBTOTAL	43440 kg	
CB 1-1	D22	9760	14	3.04	29.67	415	
1-2	"	11760	7	"	35.75	250	
2-1	"	3850	32	"	11.70	374	
2-2	"	2270	32	"	6.90	221	"
3-1	"	8530	16	"	25.93	415	(AVE)
3-2	"	4000	16	"	12.16	195	"
4	"	9010	8	"	27.39	219	
					SUBTOTAL	2089 kg	
	SD345		D32		8476 kg		
			D22		59630 "		
			D16		2375 "		
			TOTAL		70481 kg		

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm 2	MAIN BAR	SD390
		OTHERS	SD345

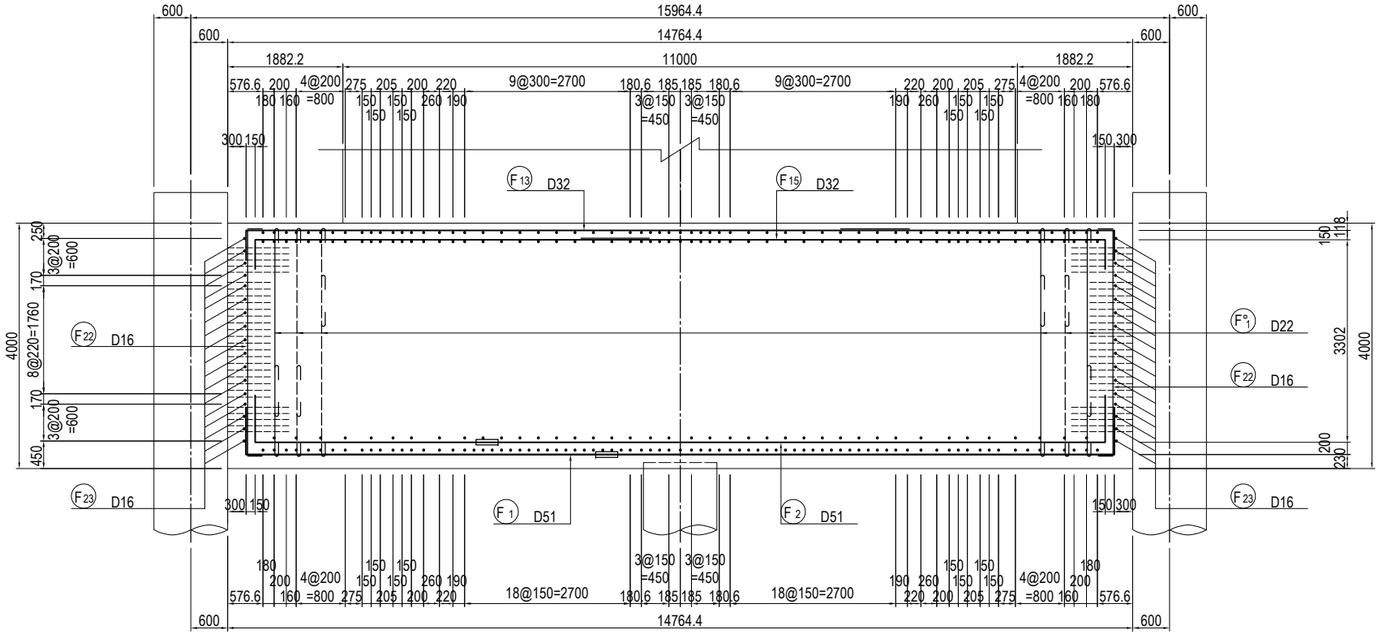
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

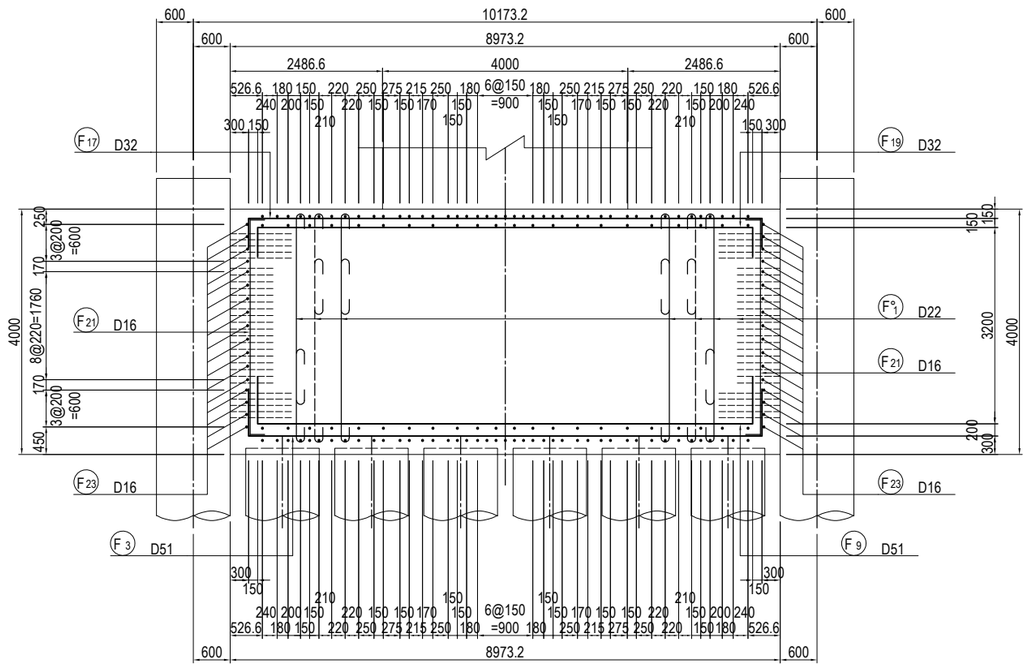
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P17 PIER (15)	2
	DWG No.
	P2-SB-2317

BAR ARRANGEMENT OF P17 FOOTING (1) S=1:100

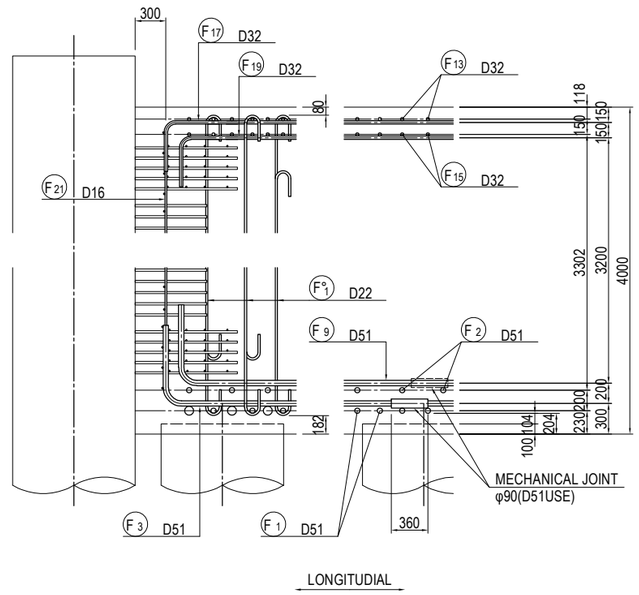
SECTION 1 - 1



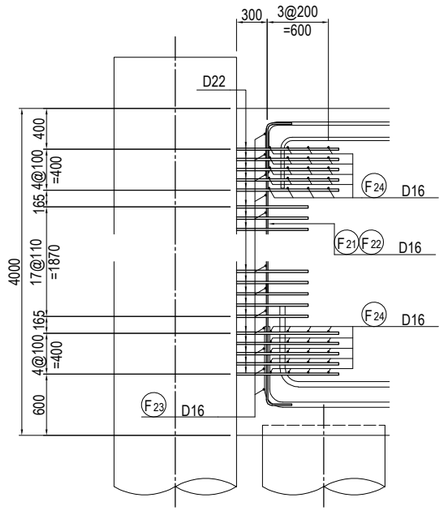
SECTION 2 - 2



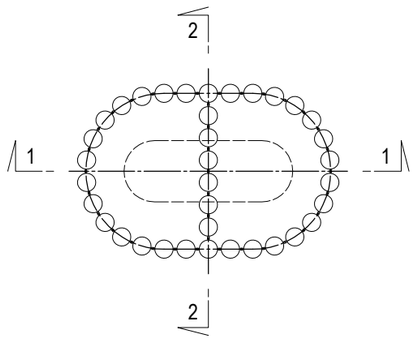
DETAIL OF PILE CAP S=1:60



DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:60



MARKING DIAGRAM



Note) : MECHANICAL JOINT

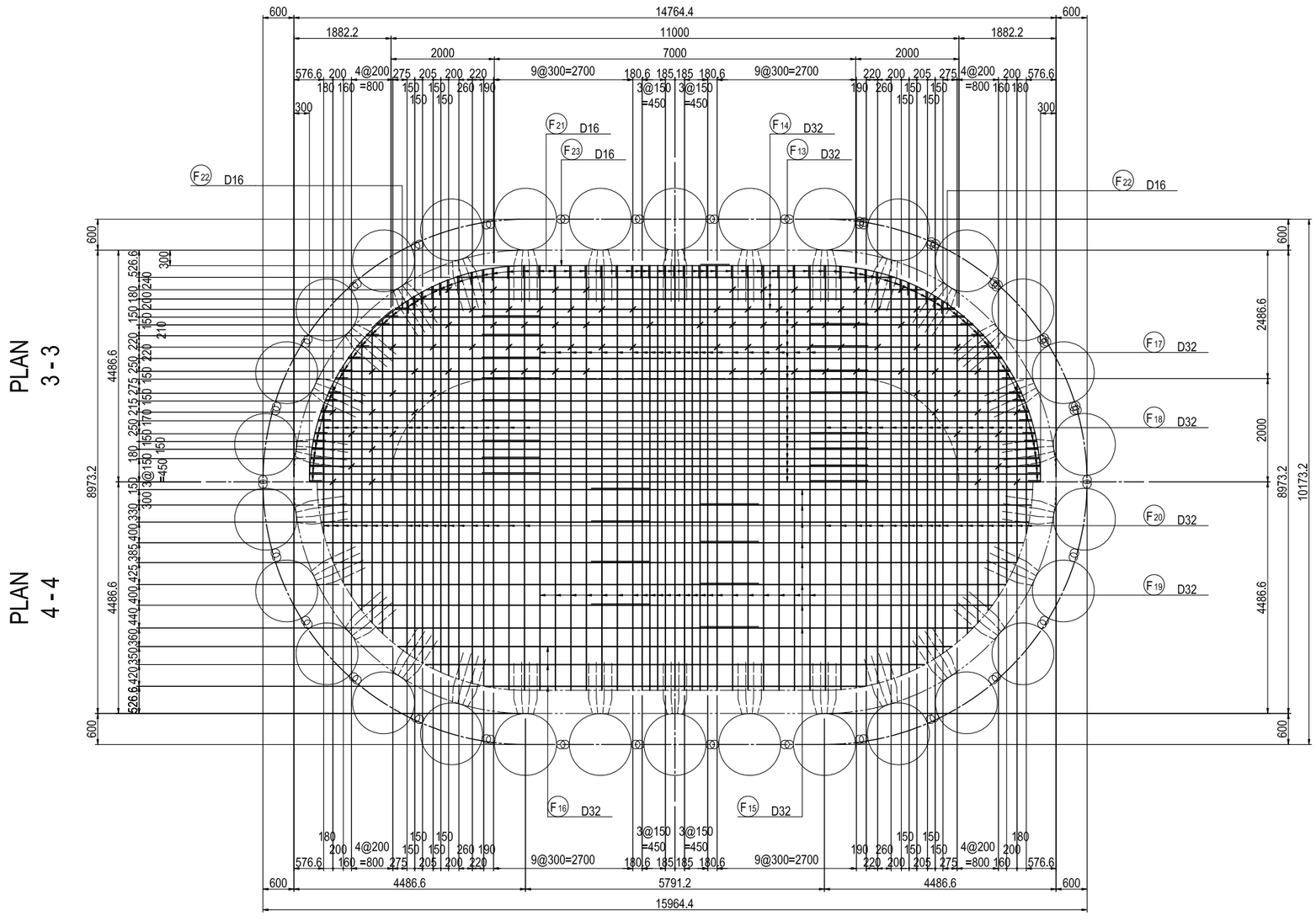
USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

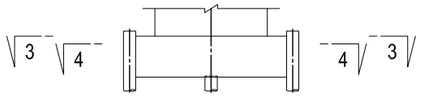
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P17 FOOTING (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2318

BAR ARRANGEMENT OF P17 FOOTING (2) S=1:100



MARKING DIAGRAM



USE MATERIALS

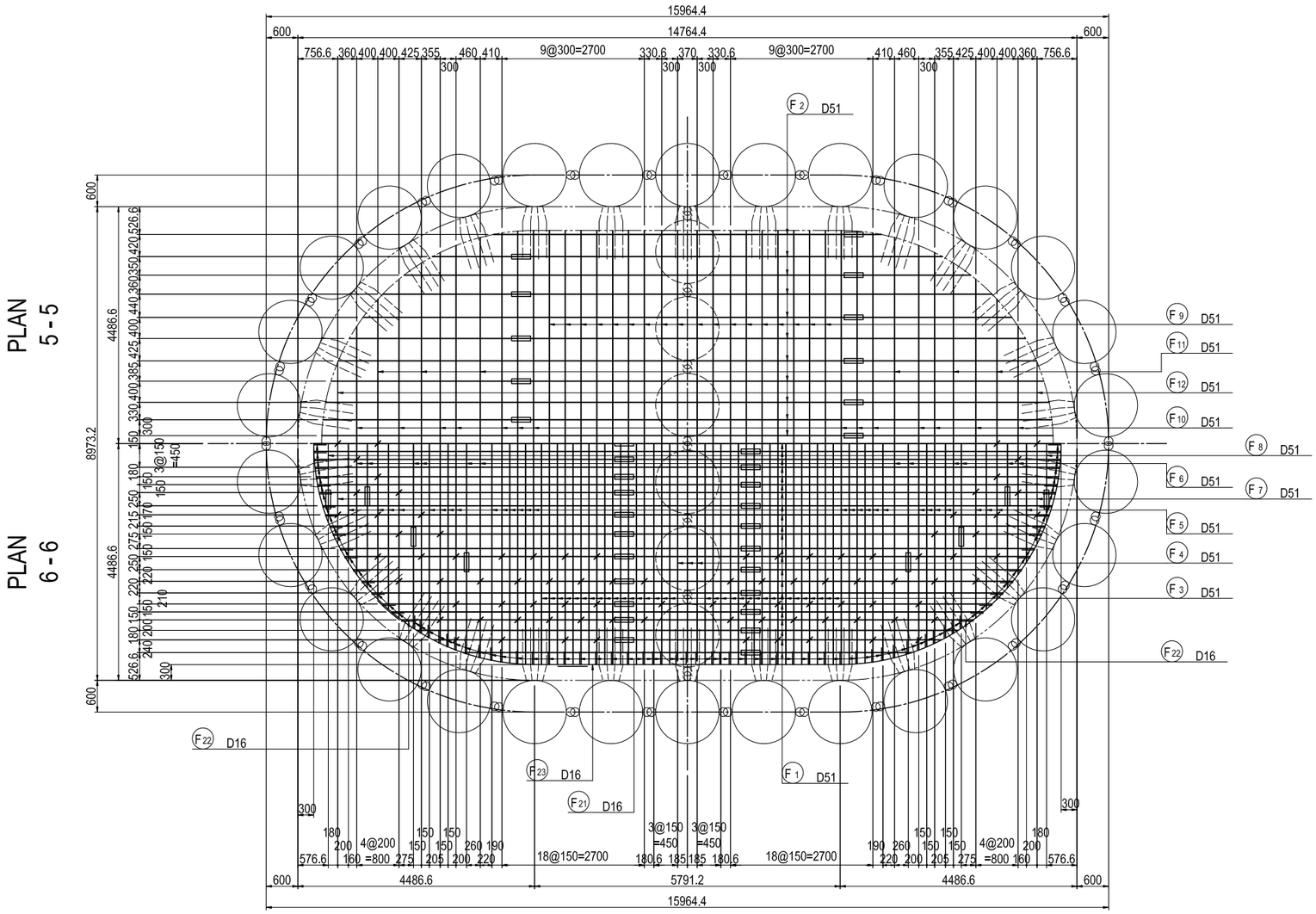
	CONCRETE	BAR
FOOTING	σck = 24 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

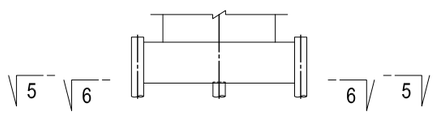
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P17 FOOTING (2)	2
	DWG No.
	P2-SB-2319

BAR ARRANGEMENT OF P17 FOOTING (3) S=1:100



MARKING DIAGRAM



USE MATERIALS

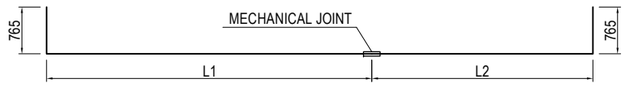
	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

Note: ⊣⊢ : MECHANICAL JOINT

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

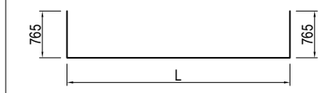
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P17 FOOTING (3)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2320

BAR ARRANGEMENT OF P17 FOOTING (4) S=1:100



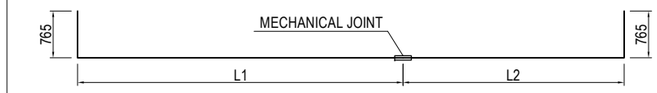
(F1)-1 43 – D51 × 8270 (AVE)　　(F1)-2 43 – D51 × 5870 (AVE)

MARKS		DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS		DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F1 -1	1	D51	1	8282	9047	F1 -2	1	D51	1	5882	6647
	2	〃	2	8280	9045		2	〃	2	5880	6645
	3	〃	2	8271	9036		3	〃	2	5871	6636
	4	〃	2	8258	9023		4	〃	2	5858	6623
	5	〃	2	8235	9000		5	〃	2	5835	6600
	6	〃	2	8209	8974		6	〃	2	5809	6574
	7	〃	2	8178	8943		7	〃	2	5778	6543
	8	〃	2	8112	8877		8	〃	2	5712	6477
	9	〃	2	8059	8824		9	〃	2	5659	6424
	10	〃	2	7979	8744		10	〃	2	5579	6344
	11	〃	2	7915	8680		11	〃	2	5515	6280
	12	〃	2	7779	8544		12	〃	2	5379	6144
	13	〃	2	7694	8459		13	〃	2	5294	6059
	14	〃	2	7533	8298		14	〃	2	5133	5898
	15	〃	2	7369	8134		15	〃	2	4969	5734
	16	〃	2	7181	7946		16	〃	2	4781	5546
	17	〃	2	6974	7739		17	〃	2	4574	5339
	18	〃	2	6807	7572		18	〃	2	4407	5172
	19	〃	2	6620	7385		19	〃	2	4220	4985
	20	〃	2	6331	7096		20	〃	2	3931	4696
	21	〃	2	6016	6781		21	〃	2	3616	4381
	22	〃	2	5454	6219		22	〃	2	3054	3819
AVE			43		8272	AVE			43		5872



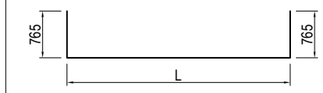
(F5) 28 – D51 × 8930 (AVE)

MARKS		DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F5	1	D51	2	8373	9903
	2	〃	2	8366	9896
	3	〃	2	8349	9879
	4	〃	2	8320	9850
	5	〃	2	8281	9811
	6	〃	2	8215	9745
	7	〃	2	7825	9355
	8	〃	2	7704	9234
	9	〃	2	7569	9099
	10	〃	2	7361	8891
	11	〃	2	6610	8140
	12	〃	2	6278	7808
	13	〃	2	5901	7431
	14	〃	2	4502	6032
AVE			28		8934



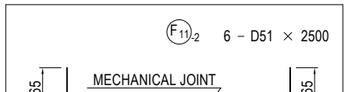
(F2)-1 22 – D51 × 9940 (AVE)　　(F2)-2 22 – D51 × 3640 (AVE)

MARKS		DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS		DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F2 -1	1	D51	2	10079	10844	F2 -2	1	D51	2	3779	4544
	2	〃	2	10057	10822		2	〃	2	3757	4522
	3	〃	2	10006	10771		3	〃	2	3706	4471
	4	〃	2	9906	10671		4	〃	2	3606	4371
	5	〃	2	9766	10531		5	〃	2	3466	4231
	6	〃	2	9558	10323		6	〃	2	3258	4023
	7	〃	2	9299	10064		7	〃	2	2999	3764
	8	〃	2	8924	9689		8	〃	2	2624	3389
	9	〃	2	8519	9284		9	〃	2	2219	2984
	10	〃	2	7985	8750		10	〃	2	1685	2450
	11	〃	2	6828	7593		11	〃	2	528	1293
AVE			22		9940	AVE			22		3640



(F10) 14 – D51 × 8600 (AVE)

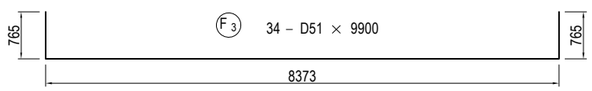
MARKS		DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F10	1	D51	2	8073	9603
	2	〃	2	8048	9578
	3	〃	2	7977	9507
	4	〃	2	7503	9033
	5	〃	2	7236	8766
	6	〃	2	6226	7756
	7	〃	2	4444	5974
AVE			14		8602



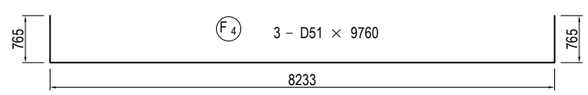
(F11)-2 6 – D51 × 2500

(F11)-1 6 – D51 × 5730 (AVE)

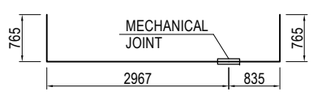
MARKS		DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F11 -1	1	D51	2	6071	6836
	2	〃	2	5104	5869
	3	〃	2	3732	4497
AVE			6		5734



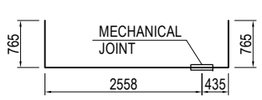
(F3) 34 – D51 × 9900



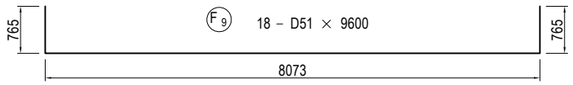
(F4) 3 – D51 × 9760



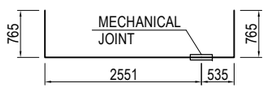
(F7)-1 2 – D51 × 3730　　(F7)-2 2 – D51 × 1600



(F8)-1 2 – D51 × 3320　　(F8)-2 2 – D51 × 1200



(F9) 18 – D51 × 9600



(F12)-1 2 – D51 × 3320　　(F12)-2 2 – D51 × 1300

USE MATERIALS

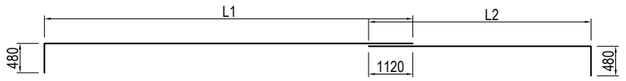
	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

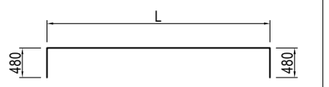
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P17 FOOTING (4)	2
	DWG No.
	P2-SB-2321

BAR ARRANGEMENT OF P17 FOOTING (5) S=1:100



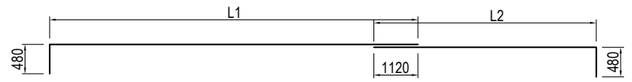
F13-1 35 – D32 × 10850 (AVE)　　F13-2 35 – D32 × 4490 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F13-1 1	D32	1	10822	11302	F13-2 1	D32	1	4462	4942
2	〃	2	10820	11300	2	〃	2	4460	4940
3	〃	2	10811	11291	3	〃	2	4451	4931
4	〃	2	10798	11278	4	〃	2	4438	4918
5	〃	2	10775	11255	5	〃	2	4415	4895
6	〃	2	10749	11229	6	〃	2	4389	4869
7	〃	2	10718	11198	7	〃	2	4358	4838
8	〃	2	10652	11132	8	〃	2	4292	4772
9	〃	2	10599	11079	9	〃	2	4239	4719
10	〃	2	10519	10999	10	〃	2	4159	4639
11	〃	2	10455	10935	11	〃	2	4095	4575
12	〃	2	10319	10799	12	〃	2	3959	4439
13	〃	2	10234	10714	13	〃	2	3874	4354
14	〃	2	10073	10553	14	〃	2	3713	4193
15	〃	2	9909	10389	15	〃	2	3549	4029
16	〃	2	9721	10201	16	〃	2	3361	3841
17	〃	2	9514	9994	17	〃	2	3154	3634
18	〃	2	9347	9827	18	〃	2	2987	3467
AVE		35		10847	AVE		35		4487



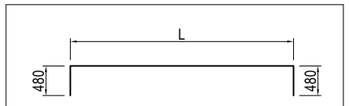
F18 40 – D32 × 7680 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F18 1	D32	2	8373	9333
2	〃	2	8349	9309
3	〃	2	8281	9241
4	〃	2	8215	9175
5	〃	2	8116	9076
6	〃	2	7966	8926
7	〃	2	7825	8785
8	〃	2	7704	8664
9	〃	2	7569	8529
10	〃	2	7361	8321
11	〃	2	7191	8151
12	〃	2	7003	7963
13	〃	2	6610	7570
14	〃	2	6278	7238
15	〃	2	5901	6861
16	〃	2	5469	6429
17	〃	2	4968	5928
18	〃	2	4502	5462
19	〃	2	3802	4762
20	〃	2	2993	3953
AVE		20		7684



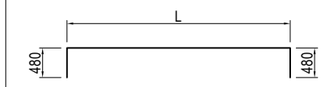
F15-1 16 – D32 × 8650 (AVE)　　F15-2 16 – D32 × 6530 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F15-1 1	D32	2	8549	9029	F15-2 1	D32	2	6429	6909
2	〃	2	8527	9007	2	〃	2	6407	6887
3	〃	2	8476	8956	3	〃	2	6356	6836
4	〃	2	8376	8856	4	〃	2	6256	6736
5	〃	2	8236	8716	5	〃	2	6116	6596
6	〃	2	8028	8508	6	〃	2	5908	6388
7	〃	2	7769	8249	7	〃	2	5649	6129
8	〃	2	7394	7874	8	〃	2	5274	5754
AVE		16		8649	AVE		16		6529



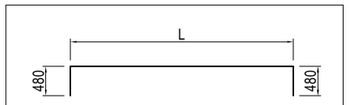
F16 6 – D32 × 10220 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F16 1	D32	2	10738	11698
2	〃	2	9671	10631
3	〃	2	7356	8316
AVE		6		10215



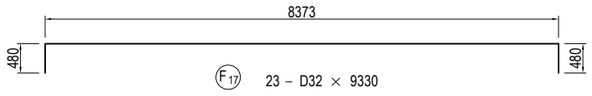
F20 40 – D32 × 7270 (AVE)

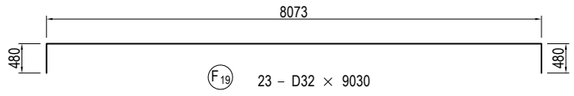
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F20 1	D32	2	8073	9033
2	〃	2	8048	9008
3	〃	2	7977	8937
4	〃	2	7909	8869
5	〃	2	7806	8766
6	〃	2	7650	8610
7	〃	2	7503	8463
8	〃	2	7377	8337
9	〃	2	7236	8196
10	〃	2	7018	7978
11	〃	2	6839	7799
12	〃	2	6641	7601
13	〃	2	6226	7186
14	〃	2	5872	6832
15	〃	2	5467	6427
16	〃	2	4998	5958
17	〃	2	4444	5404
18	〃	2	3916	4876
19	〃	2	3086	4046
20	〃	2	2006	2966
AVE		40		7265

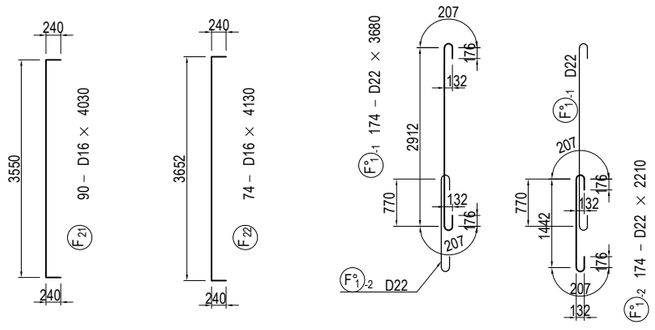


F14 8 – D32 × 10770 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F14 1	D32	2	10840	11800
2	〃	2	10262	11222
3	〃	2	9633	10593
4	〃	2	8509	9469
AVE		8		10771





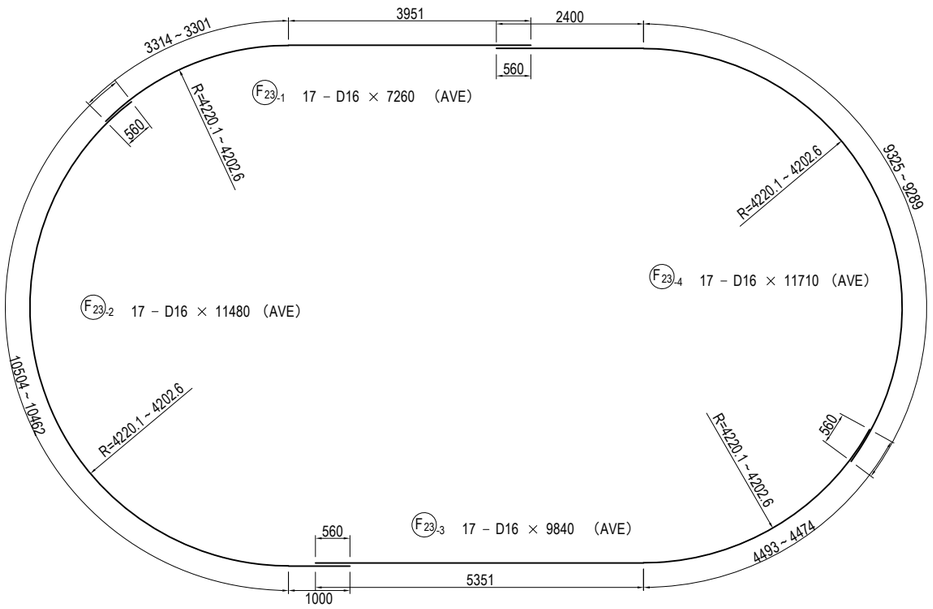


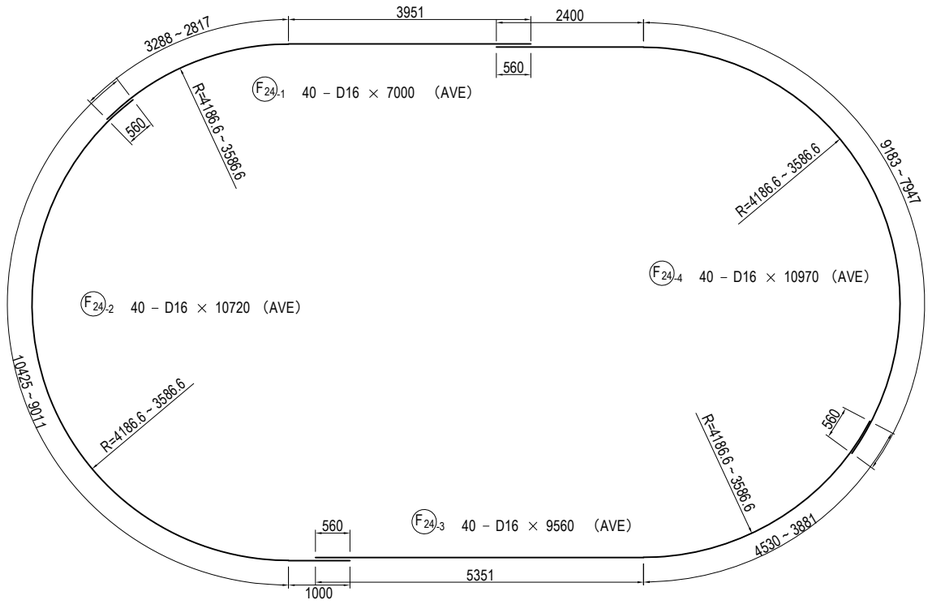
USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P17 FOOTING (5)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2322

BAR ARRANGEMENT OF P17 FOOTING (6) S=1:100





Note） The joint position of the reinfocing bar is rotated 180 degrees for each step arranged.

BAR SCHEDULE

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
F 1-1	D51	8270	43	15.9	131.49	5654	(43) (AVE)
1-2	"	5870	43	"	93.33	4013	(AVE)
2-1	"	9940	22	"	158.05	3477	(22) (AVE)
2-2	"	3640	22	"	57.88	1273	(AVE)
3	"	9900	34	"	157.41	5352	
4	"	9760	3	"	155.18	466	"
5	"	8930	28	"	141.99	3976	" (AVE)
6-1	"	5820	12	"	92.54	1110	(12) (AVE)
6-2	"	2500	12	"	39.75	477	
7-1	"	3730	2	"	59.31	119	(2)
7-2	"	1600	2	"	25.44	51	
8-1	"	3320	2	"	52.79	106	(2)
8-2	"	1200	2	"	19.08	38	
9	"	9600	18	"	152.64	2748	
10	"	8600	14	"	136.74	1914	" (AVE)
11-1	"	5730	6	"	91.11	547	(6) (AVE)
11-2	"	2500	6	"	39.75	239	
12-1	"	3320	2	"	52.79	106	(2)
12-2	"	1300	2	"	20.67	41	
13-1	D32	10850	35	6.23	67.60	2366	(AVE)
13-2	"	4490	35	"	27.97	979	(AVE)
14	"	10770	8	"	67.10	537	(AVE)
15-1	"	8650	16	"	53.89	862	(AVE)
15-2	"	6530	16	"	40.68	651	(AVE)
16	"	10220	6	"	63.67	382	(AVE)
17	"	9330	23	"	58.13	1337	"
18	"	7680	40	"	47.85	1914	" (AVE)
19	"	9030	23	"	56.26	1294	"
20	"	7270	40	"	45.29	1812	" (AVE)
21	D16	4030	90	1.56	6.29	566	
22	"	4130	74	"	6.44	477	"
23-1	"	7260	17	"	11.33	193	(AVE)
23-2	"	11480	17	"	17.91	304	(AVE)
23-3	"	9840	17	"	15.35	261	(AVE)
23-4	"	11710	17	"	18.27	311	(AVE)
24-1	"	7000	40	"	10.92	437	(AVE)
24-2	"	10720	40	"	16.72	669	(AVE)
24-3	"	9560	40	"	14.91	596	(AVE)
24-4	"	10970	40	"	17.11	684	(AVE)
					SUBTOTAL	48339 kg	
F° 1-1	D22	3680	174	3.04	11.19	1947	
1-2	"	2210	174	"	6.72	1169	"
					SUBTOTAL	3116 kg	

(MECHANICAL JOINT)

D51	31707 kg	(89)
D32	12134 "	
D22	3116 "	
D16	4498 "	
TOTAL	51455 kg	(89)

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm 2	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

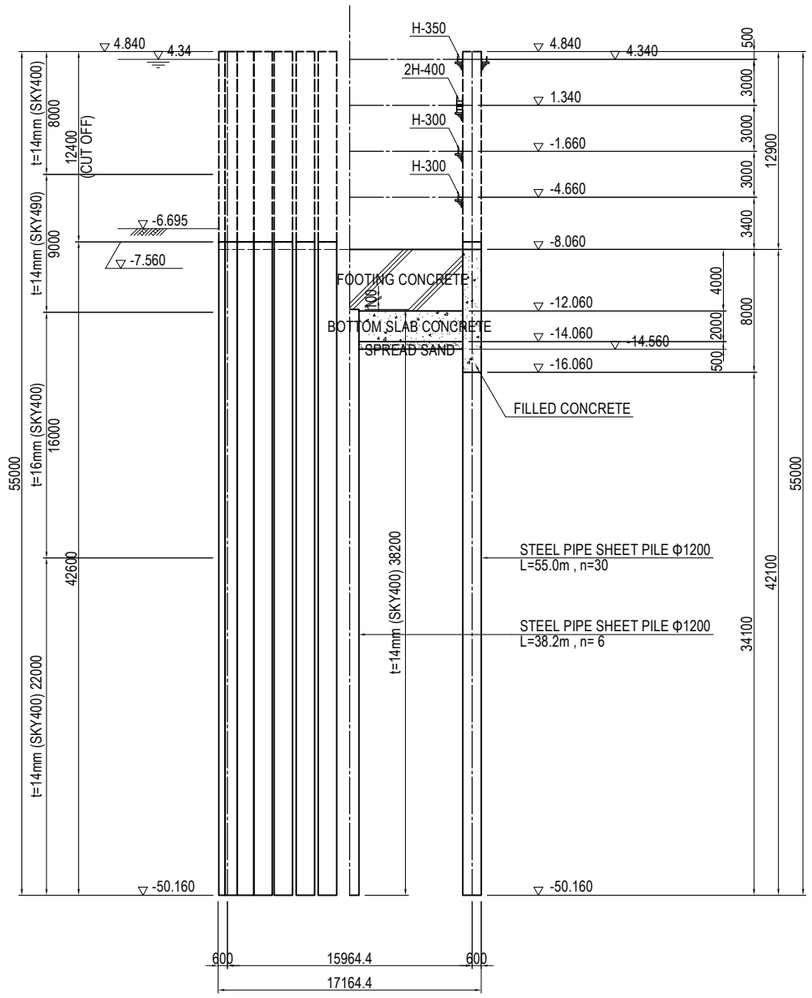
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P17 FOOTING (6)	2
	DWG No.
	P2-SB-2323

GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P17 PIER

S=1:400

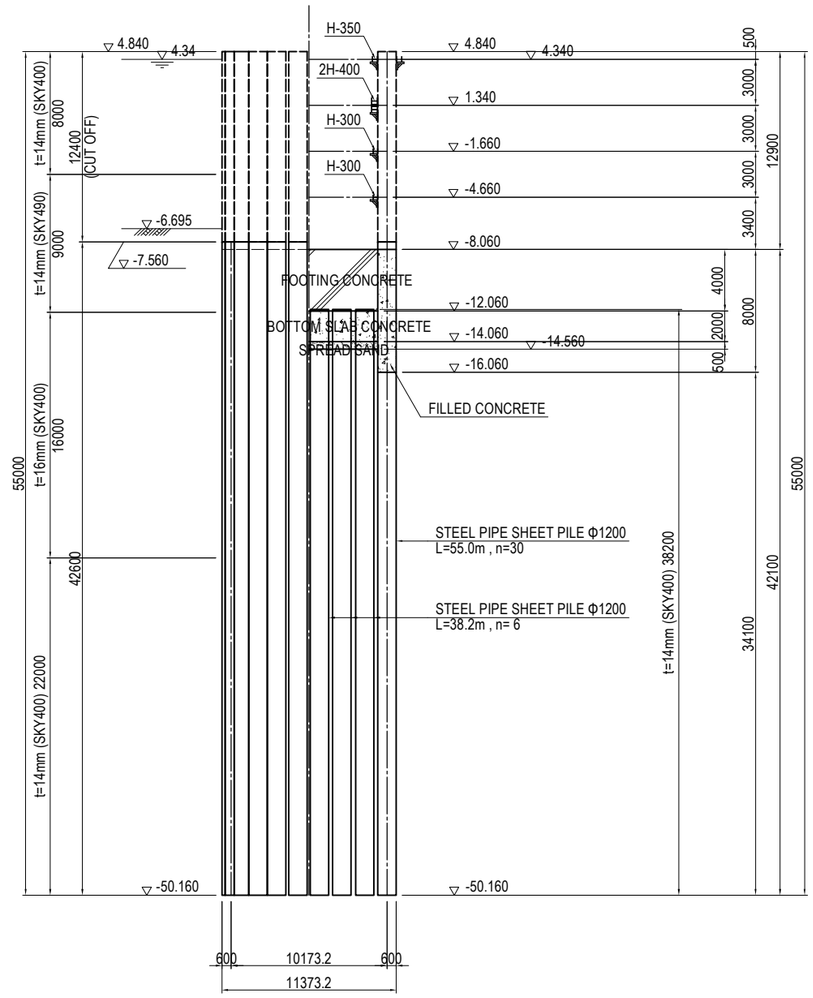
FRONT ELEVATION

1 - 1　　2 - 2

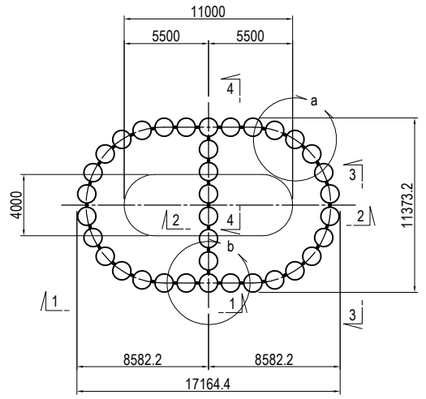


SIDE ELEVATION

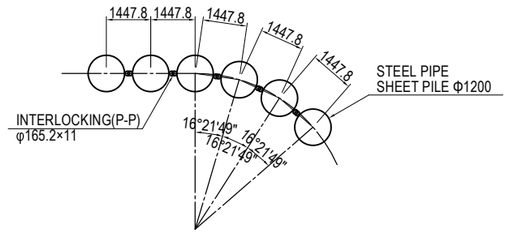
3 - 3　　4 - 4



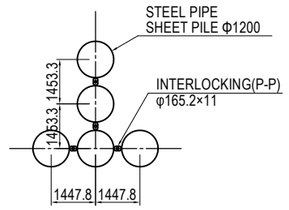
PLAN



DETAIL a　S=1:200



DETAIL b　S=1:200



USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

Note: Temporary support can be used for reference only.

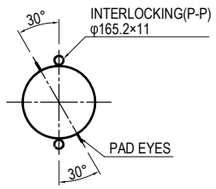
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P17 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2324

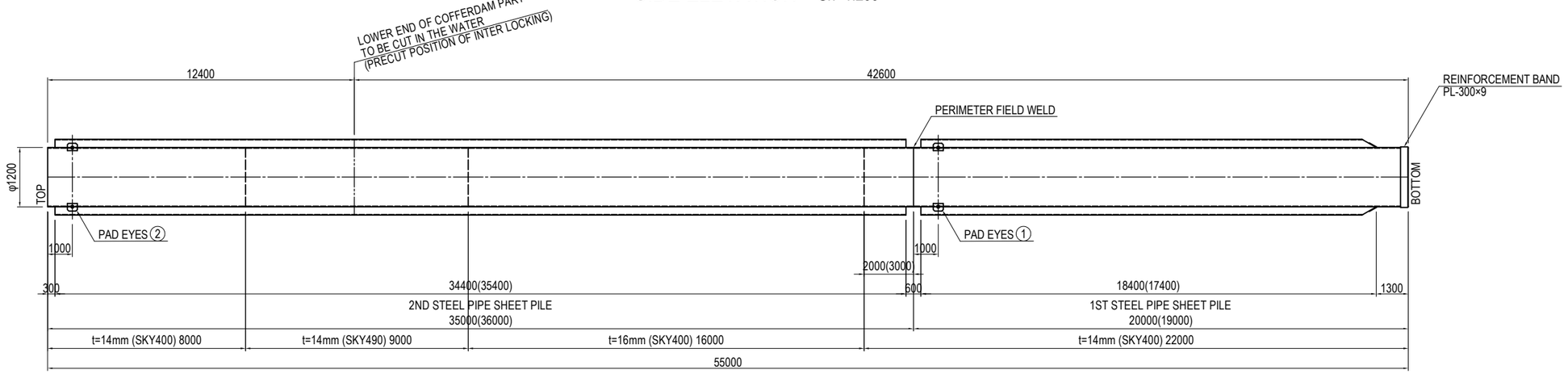
DETAIL OF STEEL PIPE SHEET PILE OF P17 PIER (1)

CROSS SECTION S=1:200

TYPE A
(TYPE B)

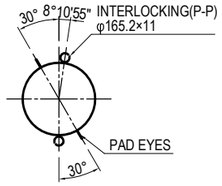


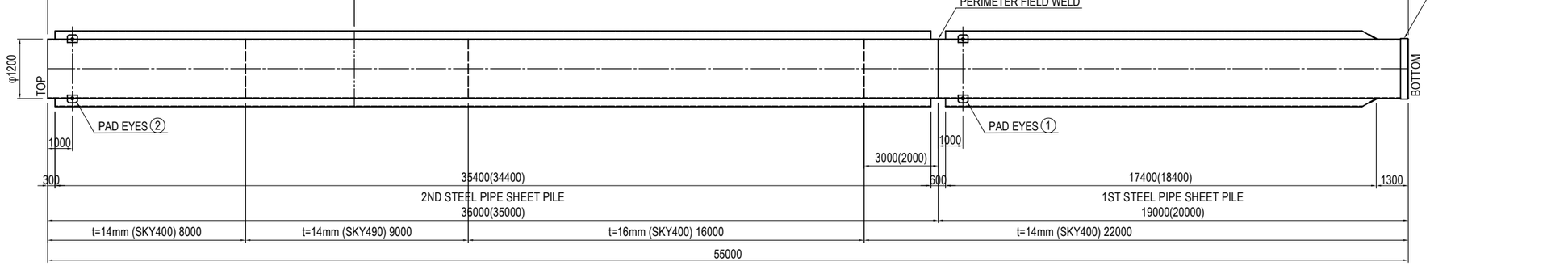
SIDE ELEVATION Sv=1:100 Sh=1:200



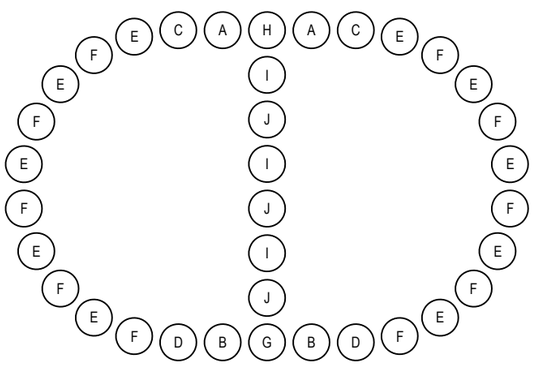
CROSS SECTION S=1:200

TYPE C
(TYPE D)



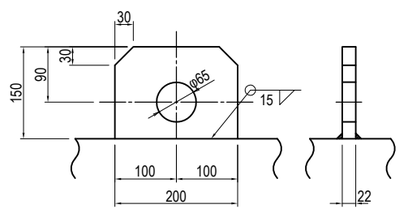


STEEL PIPE SHEET PILE TYPE AND POSITION

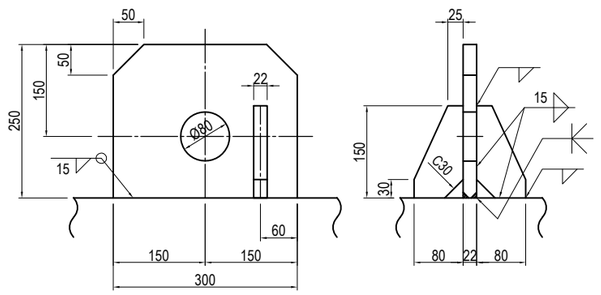


DETAIL OF EYES S=1:10

PAD EYES ① PL-200x150x22(SM490A)



PAD EYES ② PL-300x250x22(SM490A)



Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

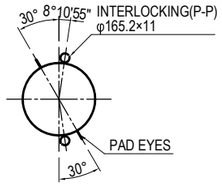
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF STEEL PIPE SHEET PILE OF P17 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2325

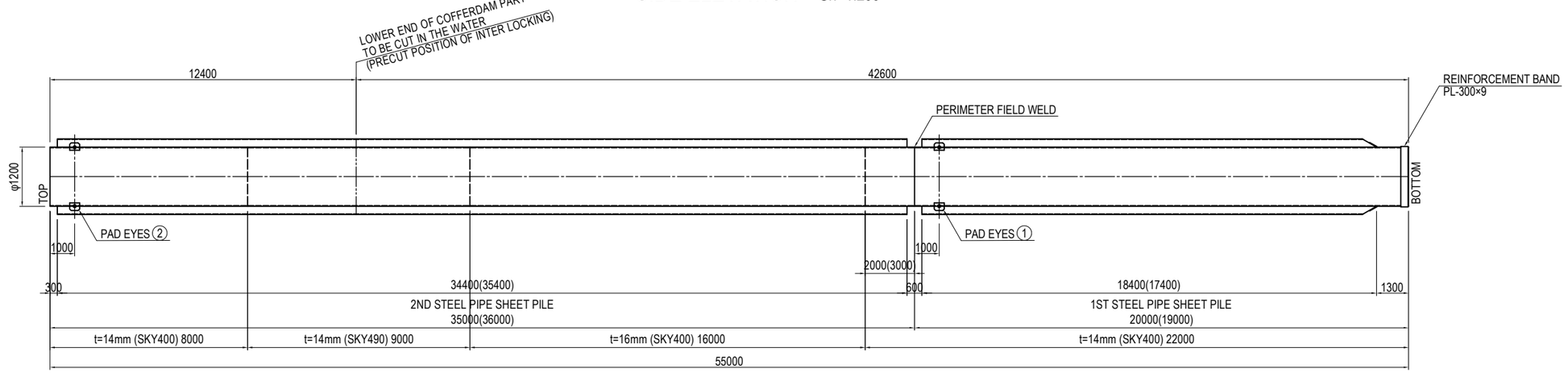
DETAIL OF STEEL PIPE SHEET PILE OF P17 PIER (2)

CROSS SECTION S=1:200

TYPE E
(TYPE F)

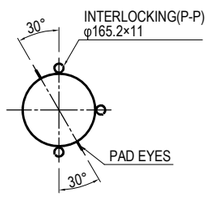


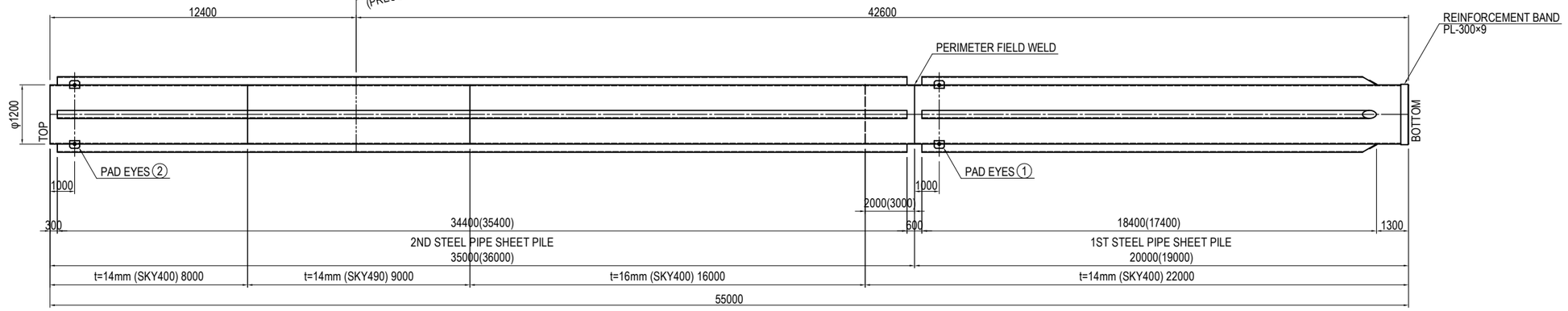
SIDE ELEVATION Sv=1:100 Sh=1:200



CROSS SECTION S=1:200

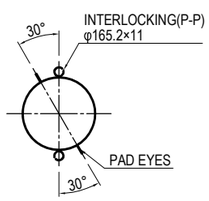
TYPE G
(TYPE H)

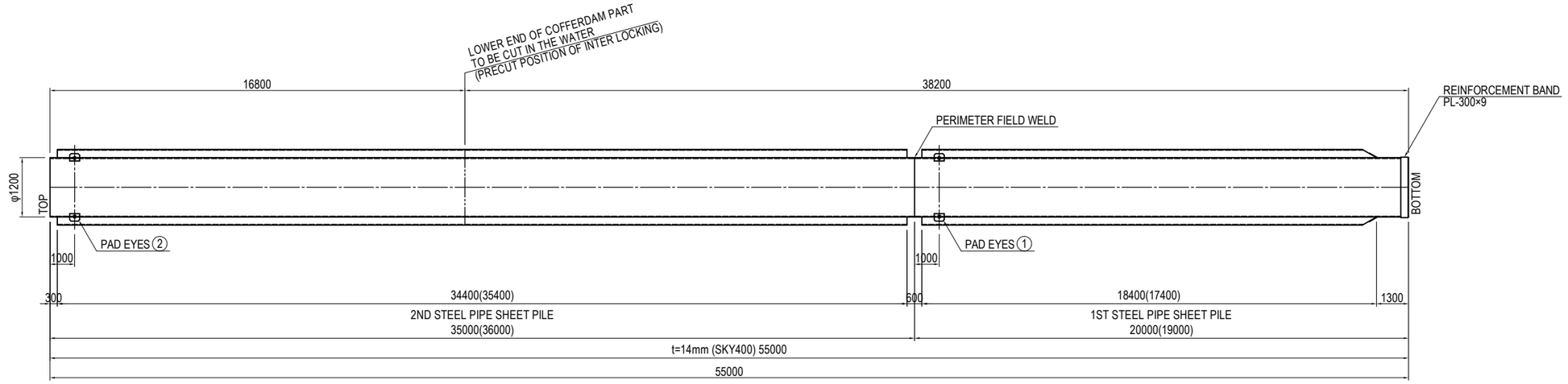




CROSS SECTION S=1:200

TYPE I
(TYPE J)





Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

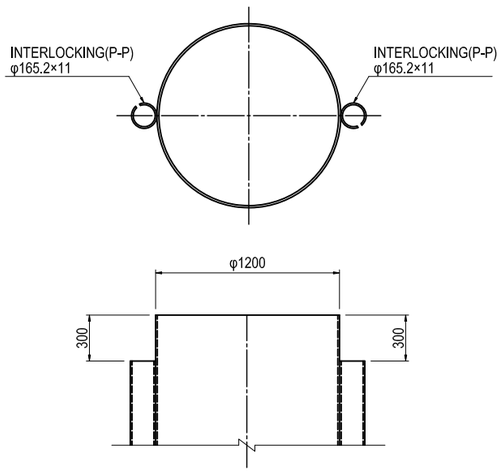
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

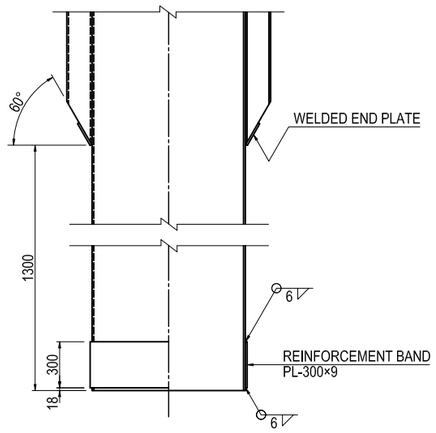
DRAWING TITLE	PACKAGE
DETAIL OF STEEL PIPE SHEET PILE OF P17 PIER (2)	2
	DWG No.
	P2-SB-2326

DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P17 PIER

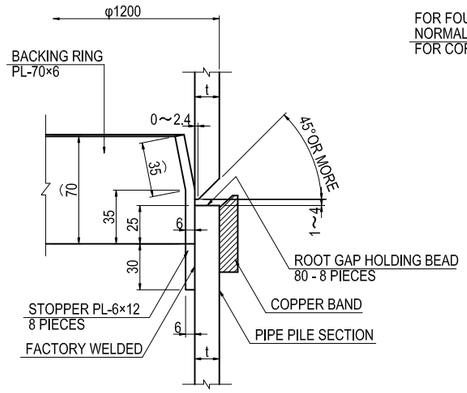
DETAIL OF STEEL PIPE SHEET PILE TOP S=1:40



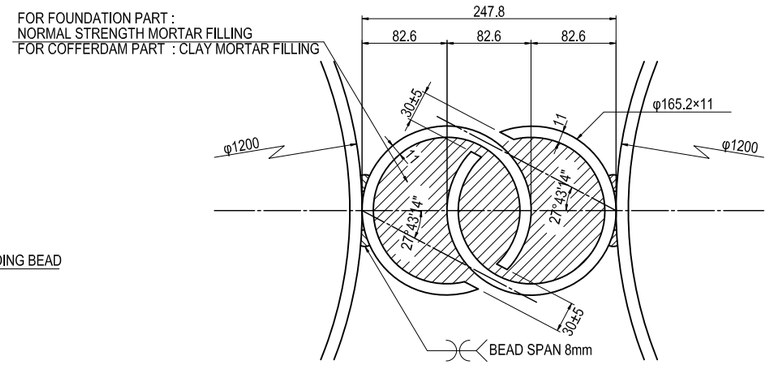
DETAIL OF STEEL PIPE SHEET PILE TOE S=1:40



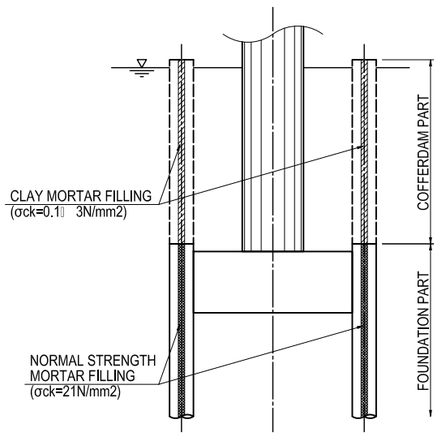
DETAIL OF PERIMETER FIELD WELDING OF STEEL PIPE SHEET PILE S=1:4



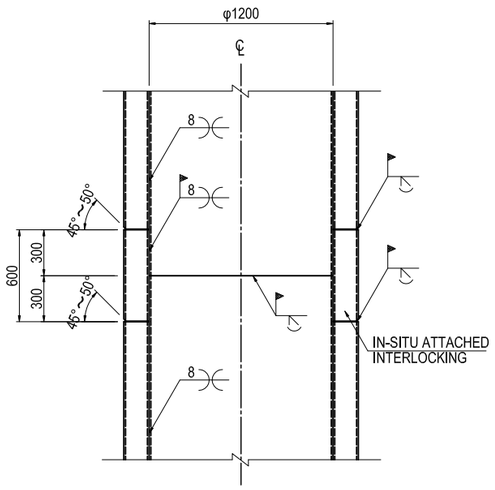
DETAIL OF CONNECTED INTERLOCKING(P-P) S=1:6



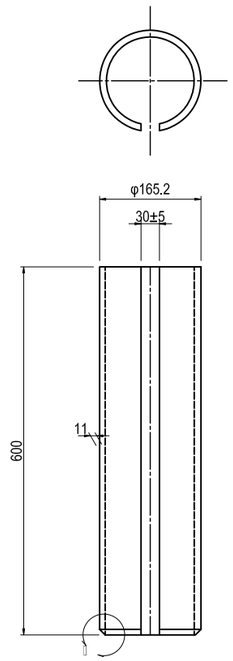
TREATMENT OF STEEL PIPE SHEET PILE INTERLOCKING



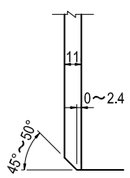
DETAIL OF IN-SITU LONGITUDINAL WELDING PART S=1:40



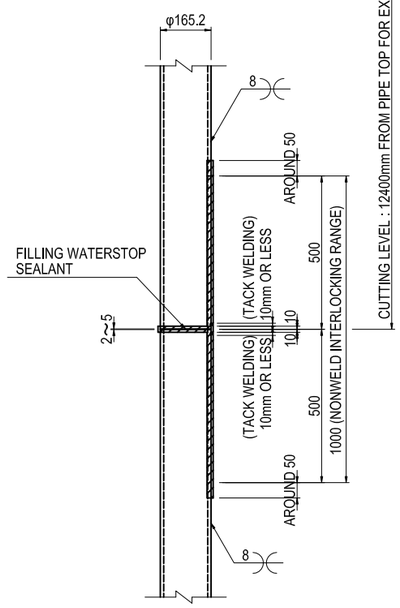
DETAIL OF IN-SITU ATTACHED INTERLOCKING S=1:10



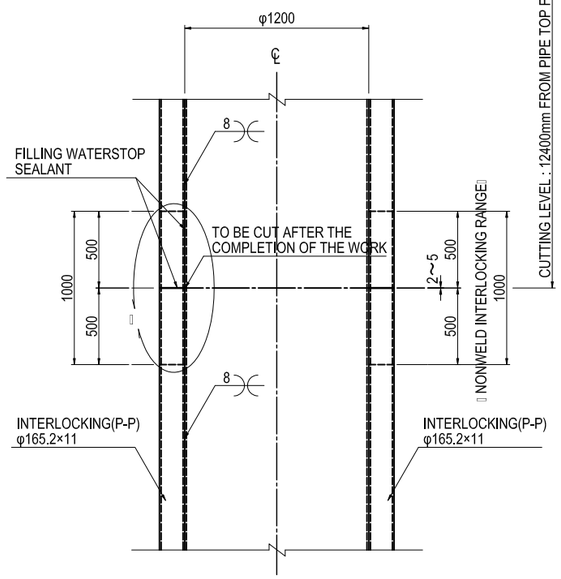
DETAIL a



DETAIL b



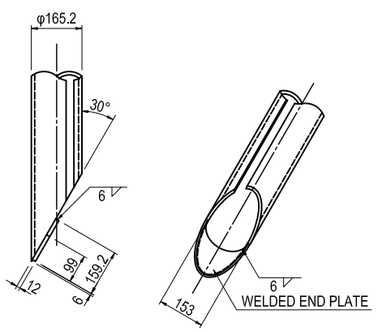
DETAIL OF PRECUT INTERRLOCKING S=1:40



CUTTING LEVEL : 12400mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING

CUTTING LEVEL : 12400mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING

DETAIL OF INTERRLOCKING TOE S=1:20



PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME / SIGNATURE / DATE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA 15 Jun.2017
				CHECKED BY	T. HAYAKAWA 20 Jun.2017
				APPROVED BY	Y. SANO 21 Jun.2017

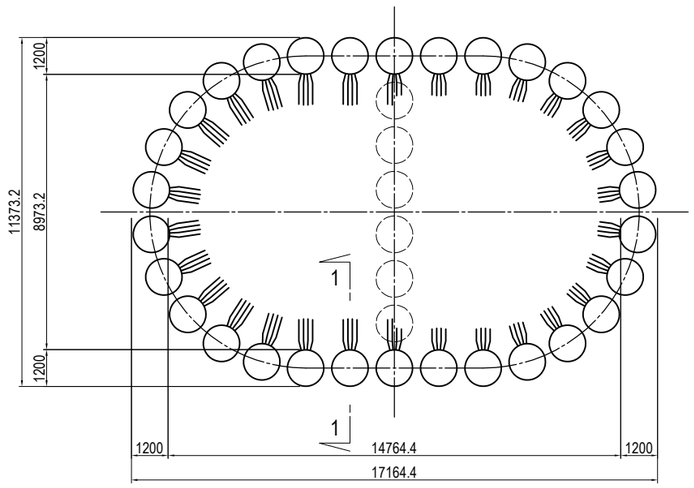
DRAWING TITLE: DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P17 PIER

PACKAGE: 2

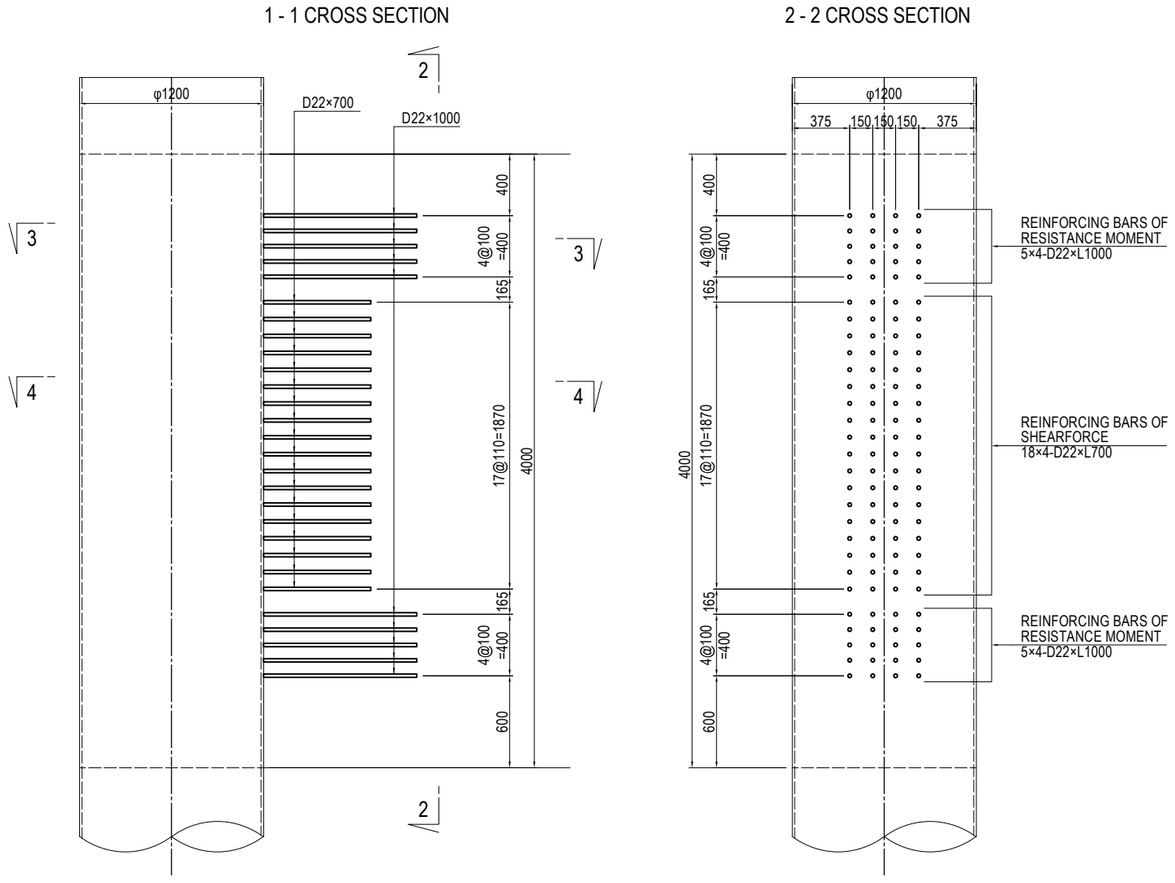
DWG No.: P2-SB-2327

DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P17 PIER

PLAN S=1:200

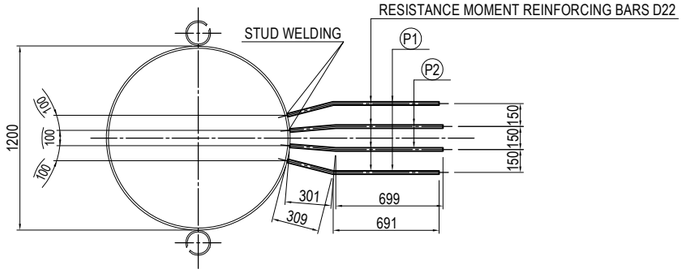


DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:40

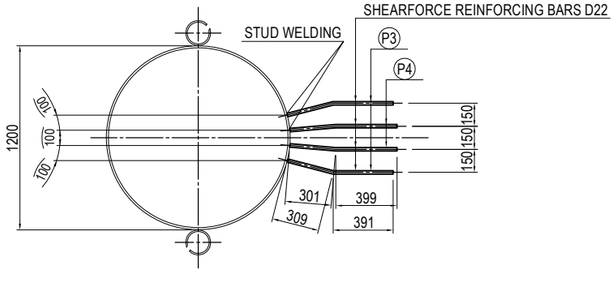


CROSS SECTION OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND REINFORCING BARS S=1:40

3 - 3 CROSS SECTION
(RESISTANCE MOMENT REINFORCING BARS CONNECTION PART)



4 - 4 CROSS SECTION
(SHEARFORCE REINFORCING BARS CONNECTION PART)



FABRICATION OF REINFORCING BARS S=1:40

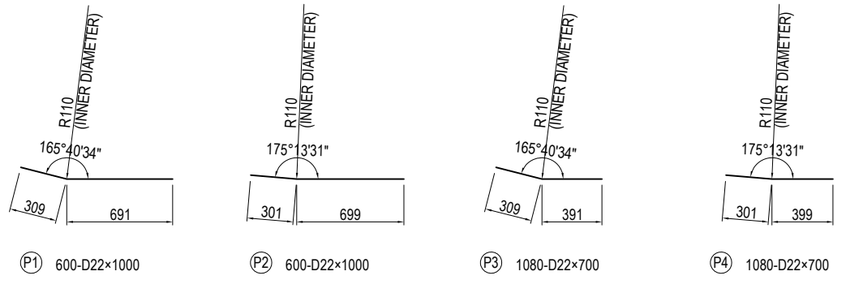


TABLE OF REINFORCING BARS

MARK	TYPE	LENGTH (mm)	PIECES (piece)	UNIT WEIGHT (kg/m)	UNIT WEIGHT (kg/piece)	WEIGHT (kg)	GRADE	MEMO
(P1)	D22	1000	600	3.04	3.04	1824.0	SD345 for STUD WELDING	
(P2)	D22	1000	600	3.04	3.04	1824.0	SD345 for STUD WELDING	
(P3)	D22	700	1080	3.04	2.13	2300.4	SD345 for STUD WELDING	
(P4)	D22	700	1080	3.04	2.13	2300.4	SD345 for STUD WELDING	
				D22		8248.8	kg	
				TOTAL WEIGHT		8248.8	kg	

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

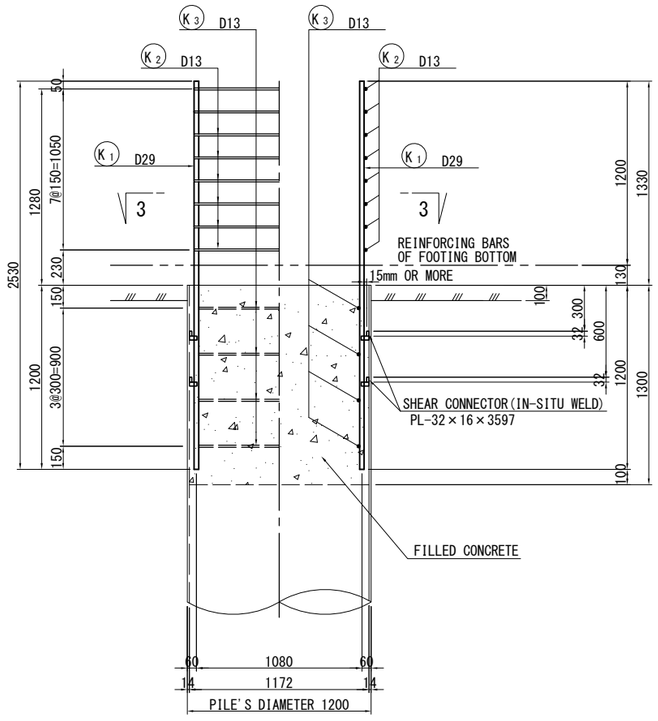
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

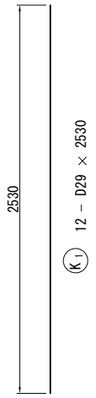
DRAWING TITLE	PACKAGE
DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P17 PIER	2
	DWG No.
	P2-SB-2328

DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P17 PIER S=1:40

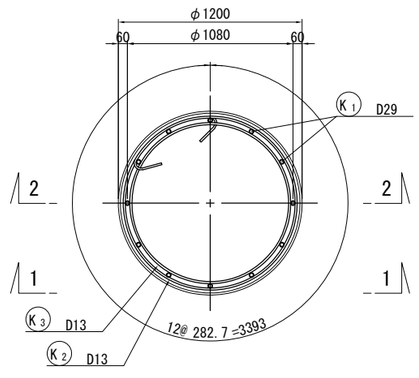
DETAIL OF PILE TOP

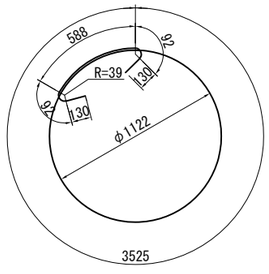
1 - 1　　2 - 2



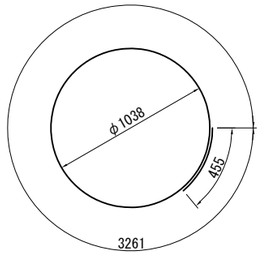


3 - 3





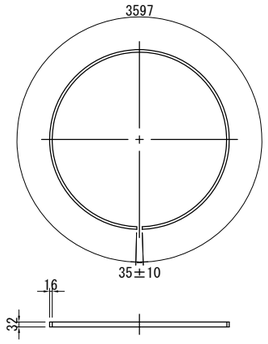
K2　8 - D13 × 4560



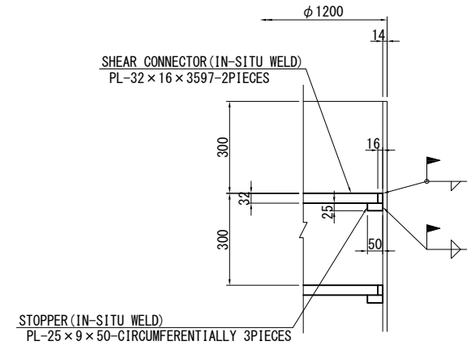
K3　4 - D13 × 3720

DETAIL OF ATTACHMENT OF SHEAR CONNECTOR

CENTER OF LENGTH



SETTING IN THE FIELD S=1:20



MATERIAL LIST

WEIGHT/EA.

MARKS	SECTION SIZE	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	MATERIAL	REMARKS
PILE TOP ACCOMPANYING ITEMS								
PL	PL-32*16	3597	2	4.019	14.456	28.9	SS400	SHEAR CONNECTOR
PL	PL-25*9	50	6	1.766	0.088	0.5	SS400	STOPPER
REINFORCEMENT								
K1	D29	2530	12	5.04	12.75	153	SD345	｜
K2	D13	4560	8	0.995	4.54	36.3	SD345	○
K3	D13	3720	4	0.995	3.70	14.8	SD345	○
TOTAL						204		
FILLED CONCRETE　(σck = 24 N/mm^2)								
V = 1/4 × π × 1.172^2 × 1.300　=　1.402 m^3								

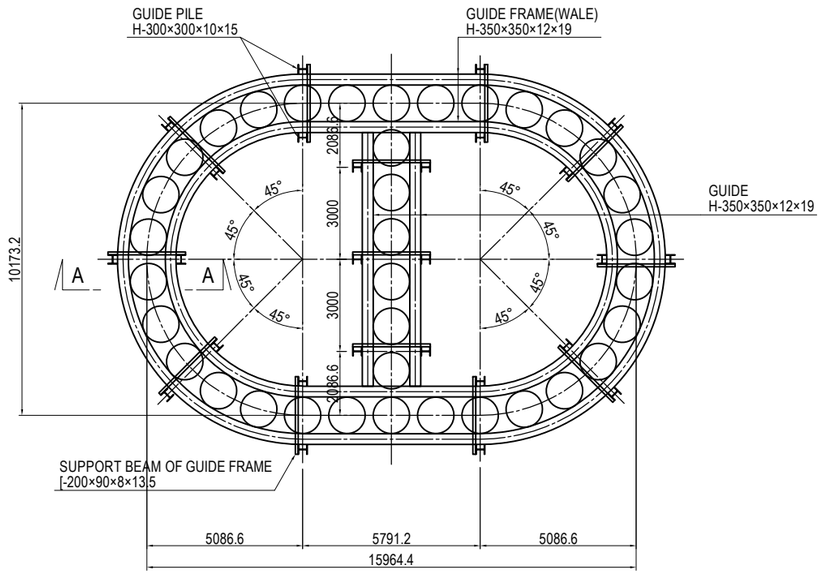
ITEM	DIVISION		UNIT CONTENT	WEIGHT/EA.	QUANTITY
NUMBER OF PILE			Number		6
PILE TOP	SS400	TOTAL	kg	29.4	176.4
REINFORCEMENT	SD345	D29	kg	153	918
		D13	kg	51	307
		TOTAL	kg	204	1225
FILLED CONCRETE	σck = 24 N/mm^2		m^3	1.402	8.4

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

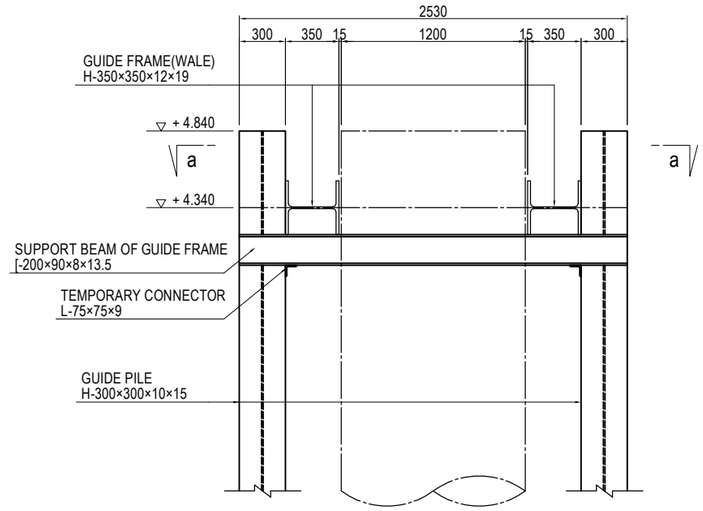
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P17 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2329

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P17 PIER (1)

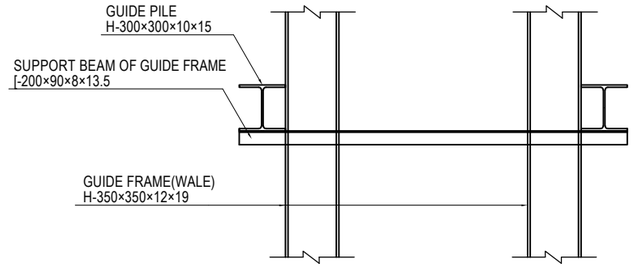
LAYOUT PLAN OF GUIDE FRAMES AND GUIDE PILES S=1:200



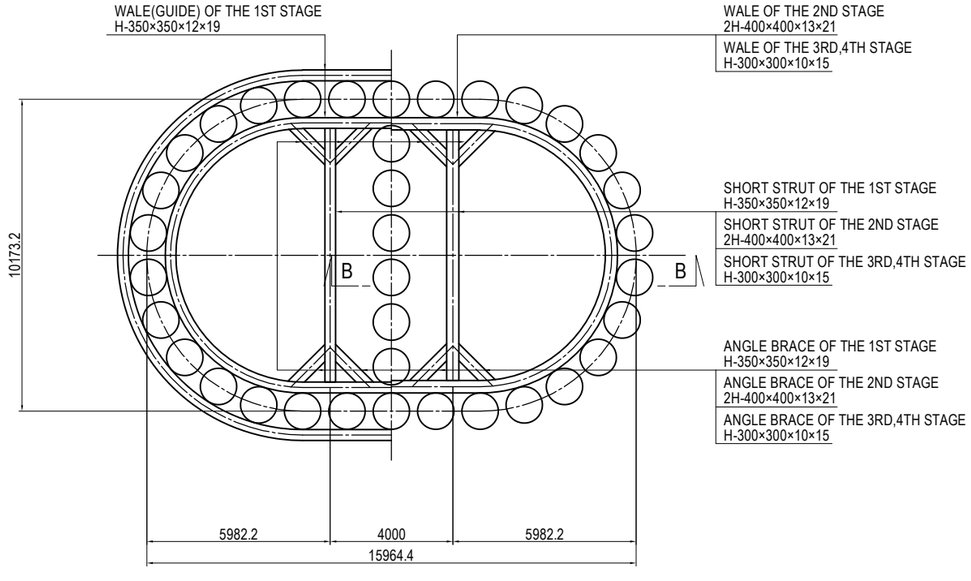
DETAIL OF ATTACHMENT OF GUIDE PILES AND GUIDE FRAMES S=1:40



a - a



LAYOUT PLAN OF STRUTS AND WALES S=1:200

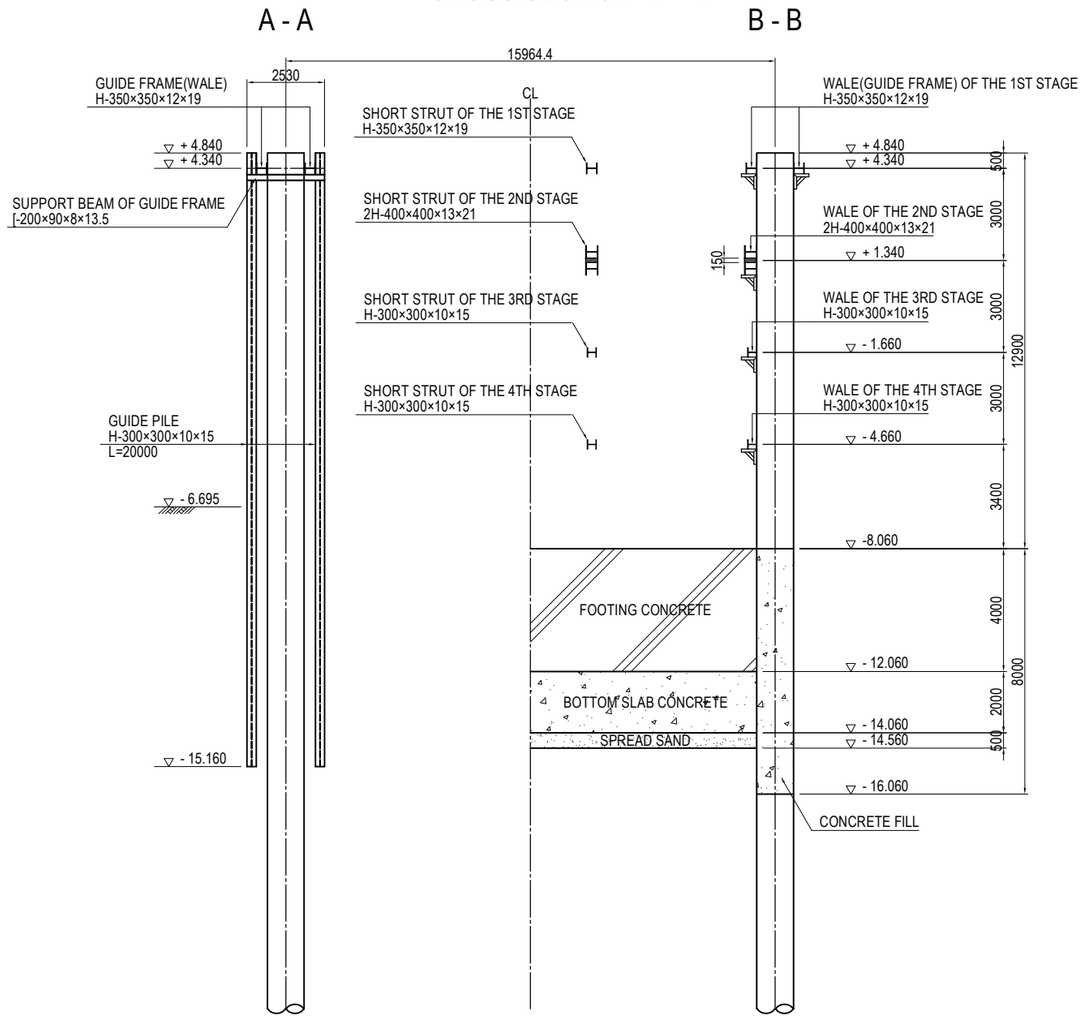


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

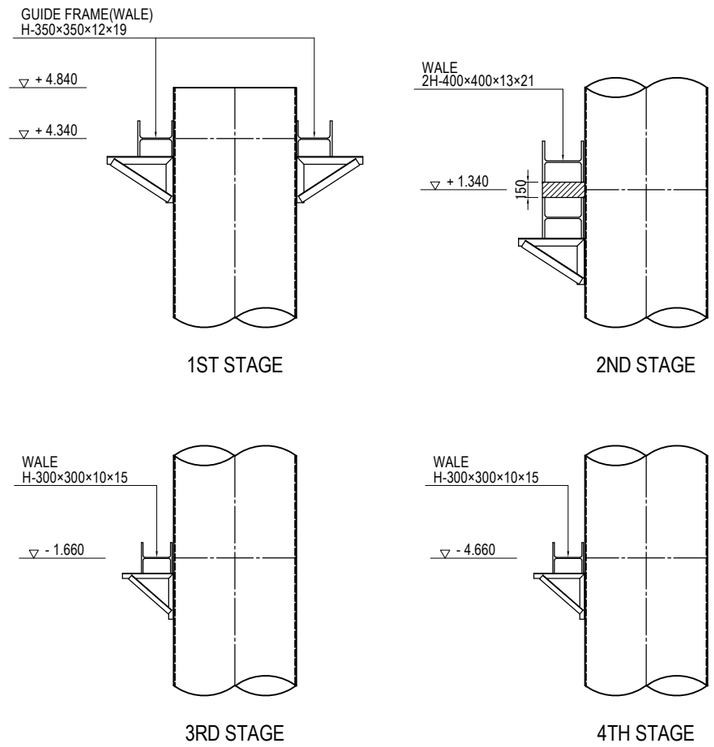
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P17 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2330

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P17 PIER(2)

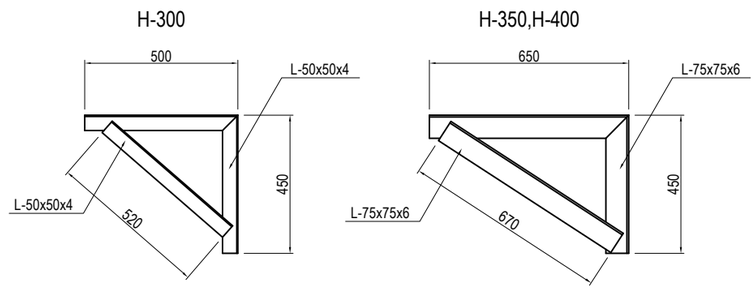
CROSS SECTION S=1:200



DETAIL OF ATTACHMENT OF WALE S=1:60



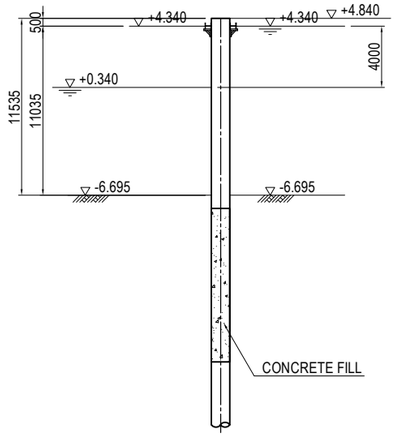
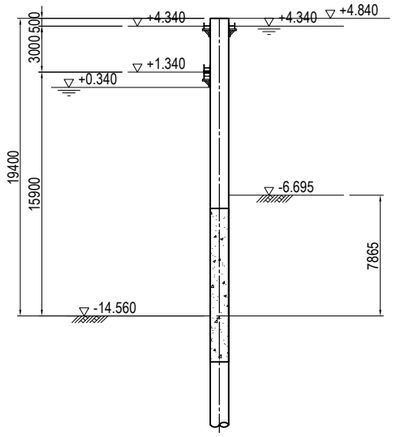
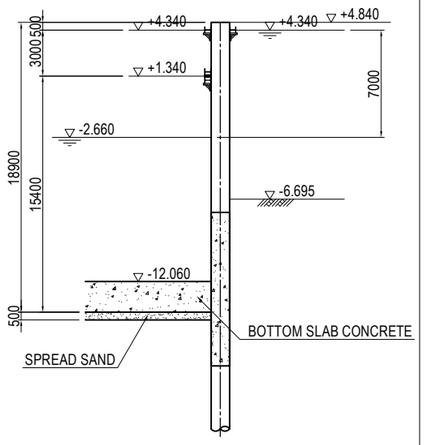
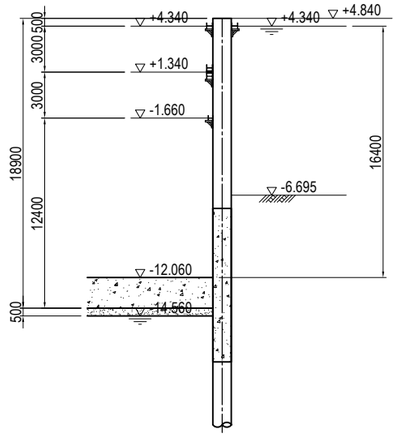
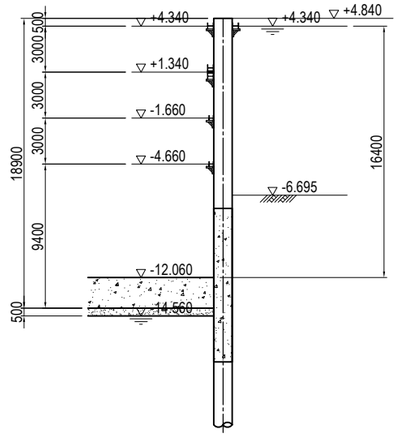
DETAIL OF BRACKET S=1:20

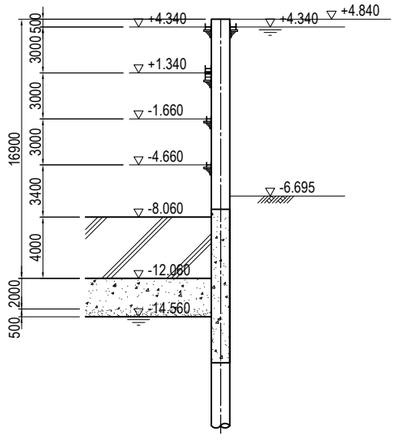


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P17 PIER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2331

(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P17 PIER S=1:400

STEP 1	STEP 2	STEP 3	STEP 4	STEP 5
				
Excavate inside of exterior sheet pilles and filled with concrete as shown. Draining the inside of cofferdam up to +0.340m level. The 1st support Installation.	The 2nd support Installation. Underwater excavation up to -14.560m level.	Draining the inside of cofferdam up to -2.660m level. Placement of spread sand followed by Casting undeawater bottom slab concrete.	The 3rd support Installation. Dry up inside the cofferdam.	The 4th support Installation.

STEP 6				
				
Casting of footing concrete.				

Note : This drawing can be used for reference only.

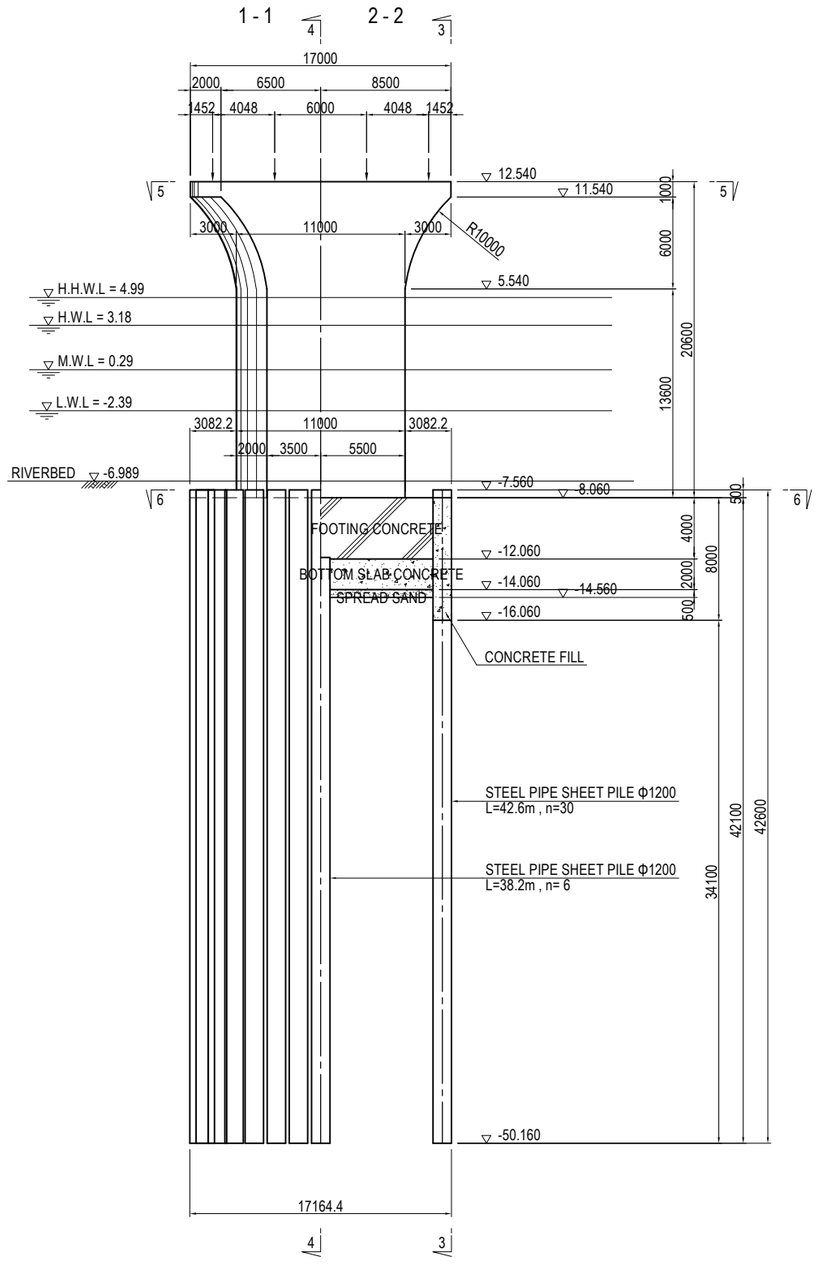
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

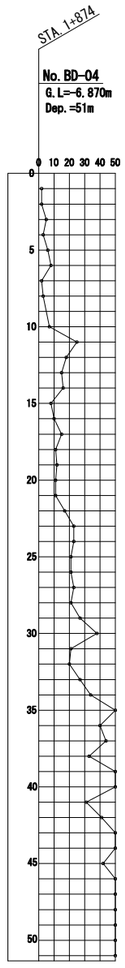
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P17 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2332

GENERAL VIEW OF P18 PIER (1)

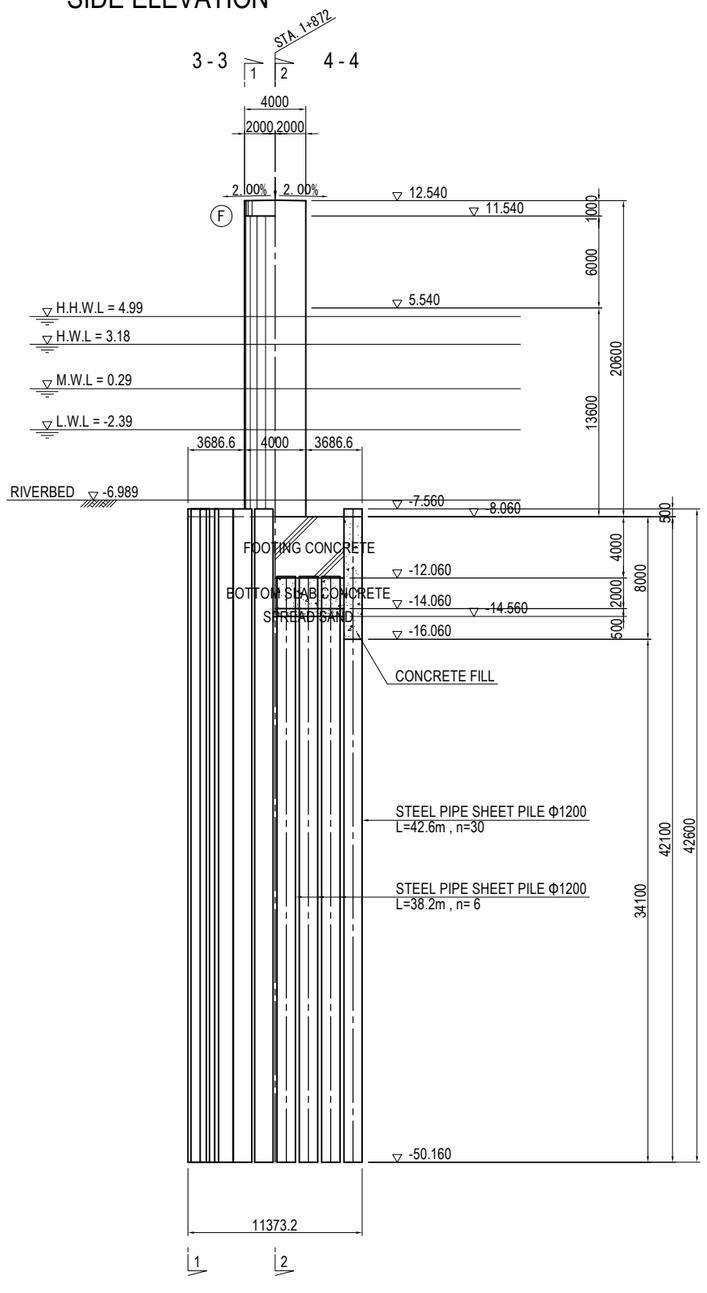
S=1:400

FRONT ELEVATION



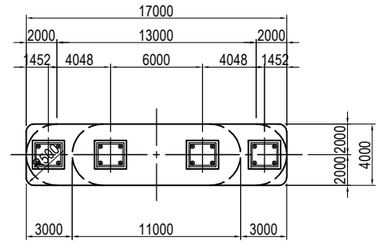


SIDE ELEVATION



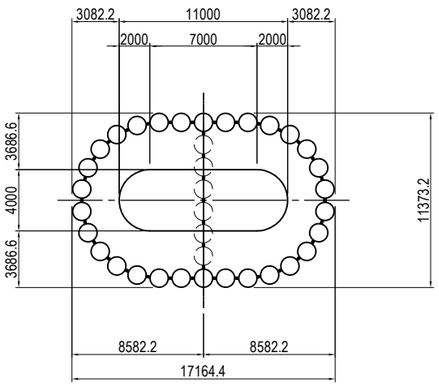
PLAN

5 - 5



PLAN

6 - 6



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm²	SD345
COLUMN	σck = 30 N/mm²	SD390 • SD345
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

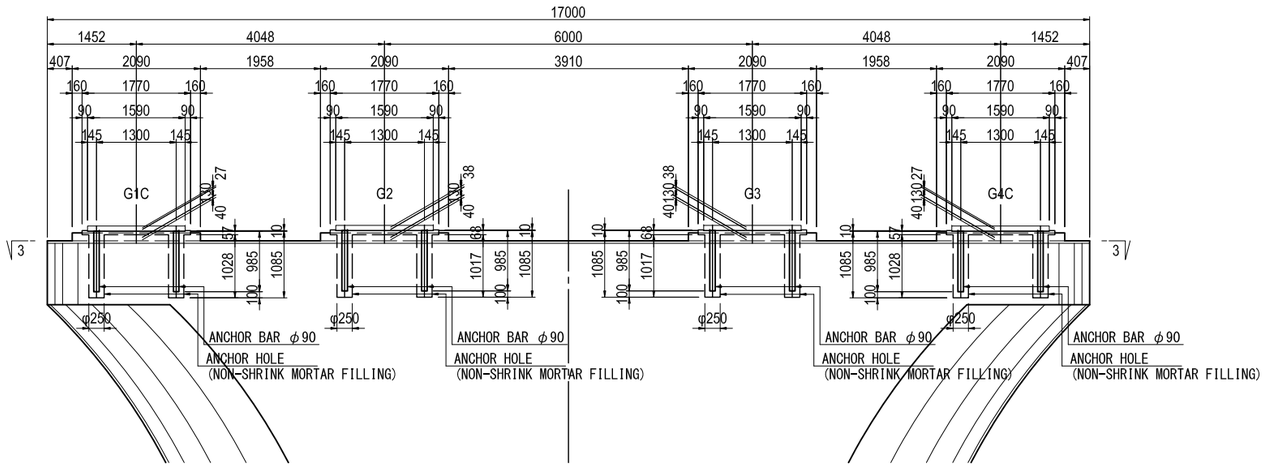
DRAWING TITLE	PACKAGE
GENERAL VIEW OF P18 PIER (1)	2
	DWG No.
	P2-SB-2401

GENERAL VIEW OF P18 PIER (2)

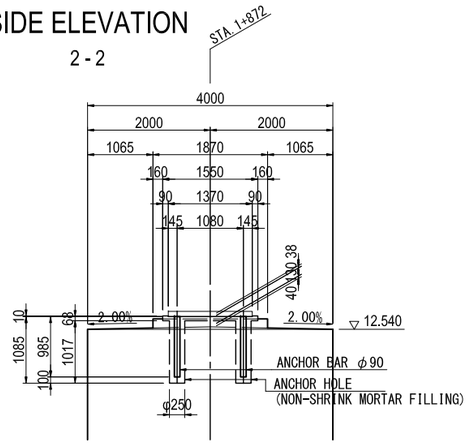
S=1:100

DETAIL OF BEARING AND ANCHOR

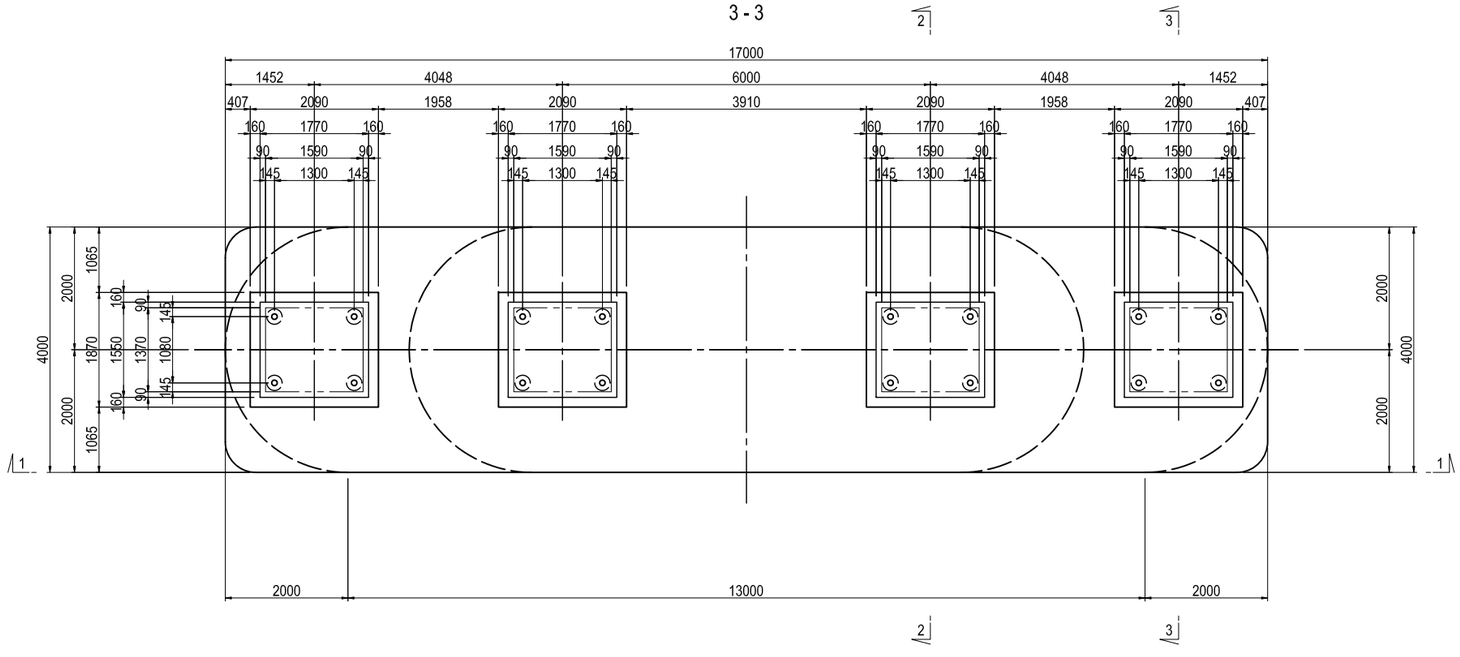
FRONT ELEVATION
1 - 1



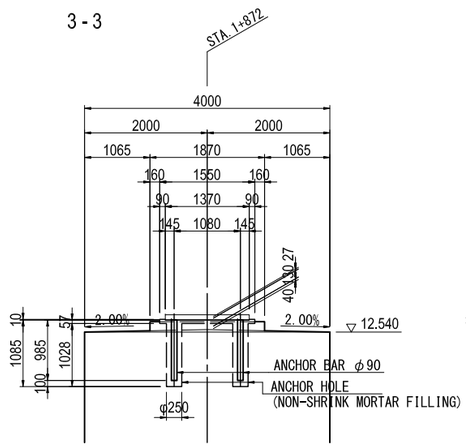
SIDE ELEVATION
2 - 2

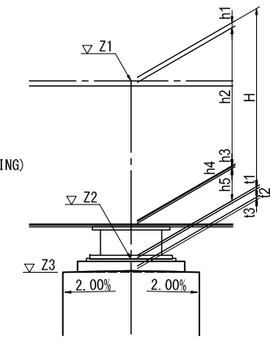


PLAN
3 - 3



SIDE ELEVATION
3 - 3





		P18 PIER			
		G1C	G2	G3	G4C
PROPOSED HEIGHT	Z1	15.953	16.034	16.034	15.953
PAVEMENT	h1	0.080	0.080	0.080	0.080
GIRDER	h2	2.709	2.790	2.790	2.709
BOTTOM FLANGE	h3	0.039	0.028	0.028	0.039
SOLE PLATE	h4	0.035	0.035	0.035	0.035
BEARING	h5	0.353	0.353	0.353	0.353
SUBTOTAL	H	3.216	3.286	3.286	3.216
ELEVATION OF BEARING BOTTOM	Z2	12.737	12.748	12.748	12.737
MORTAR	t1	0.027	0.038	0.038	0.027
BEARING BASE	t2	0.130	0.130	0.130	0.130
DRAINAGE INCLINE	t3	0.040	0.040	0.040	0.040
ELEVATION OF PIER TOP	Z3	12.540	12.540	12.540	12.540

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE: GENERAL VIEW OF P18 PIER (2)

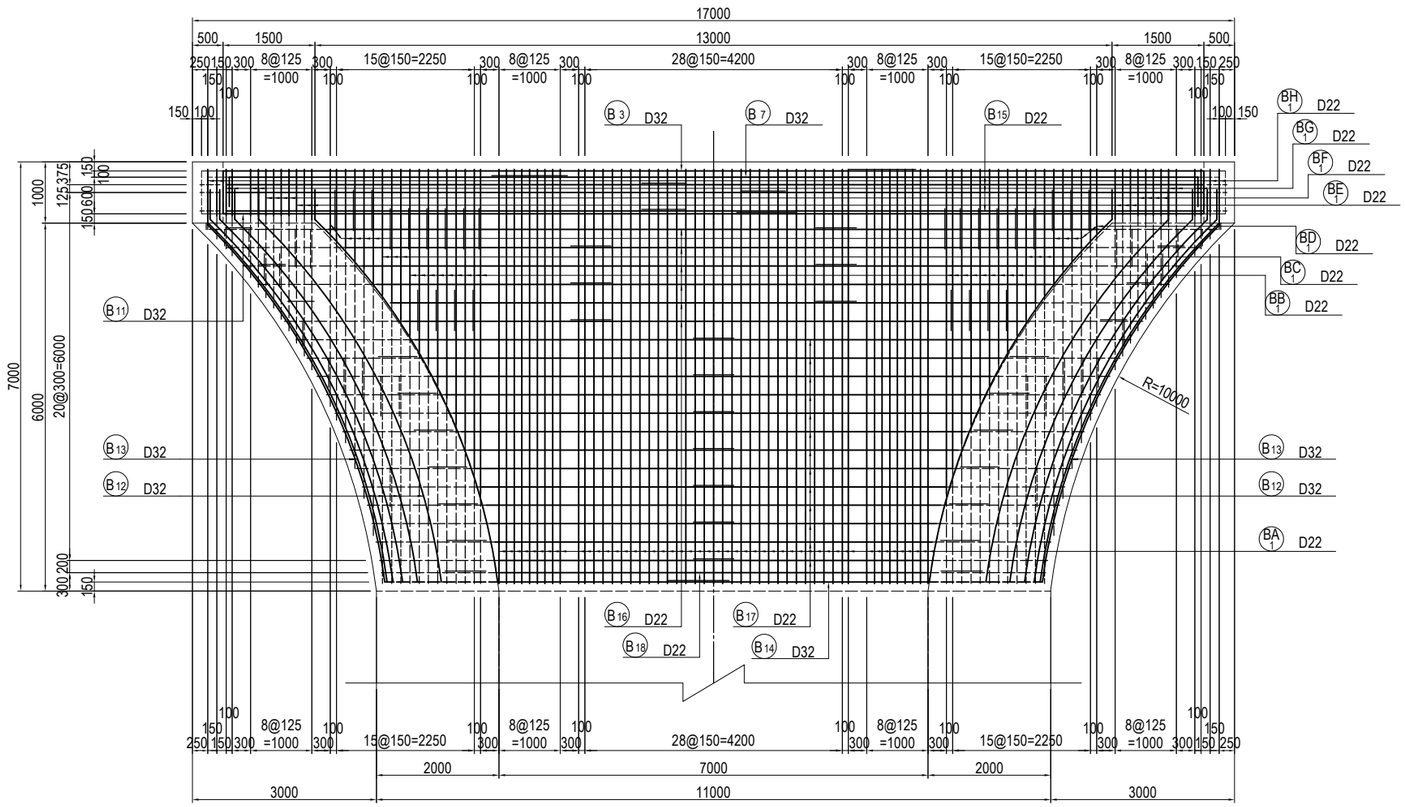
PACKAGE: 2

DWG No.: P2-SB-2402

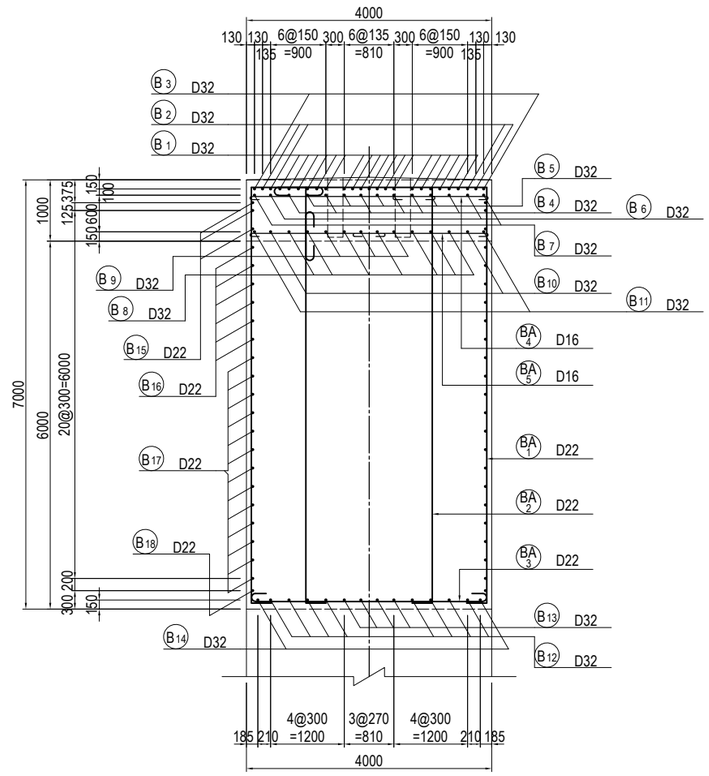
BAR ARRANGEMENT OF P18 PIER (1) S=1:100

BEAM

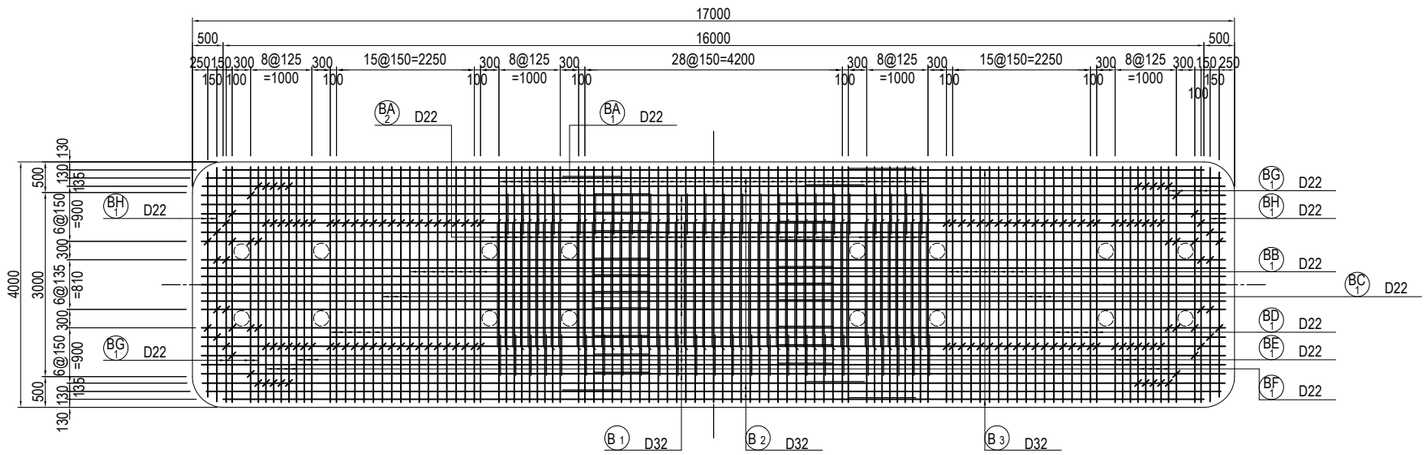
FRONT ELEVATION
1 - 1



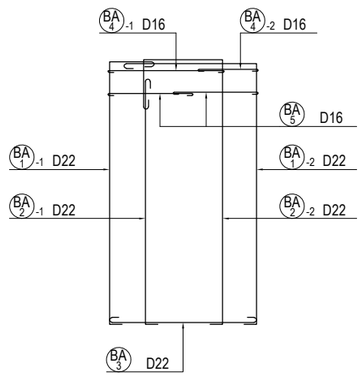
SECTION
3 - 3



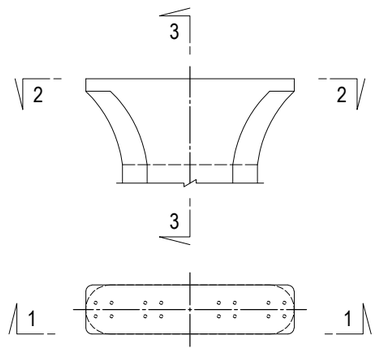
PLAN
2 - 2



ASSEMBLY DRAWING OF STIRRUP



MARKING DIAGRAM



USE MATERIALS

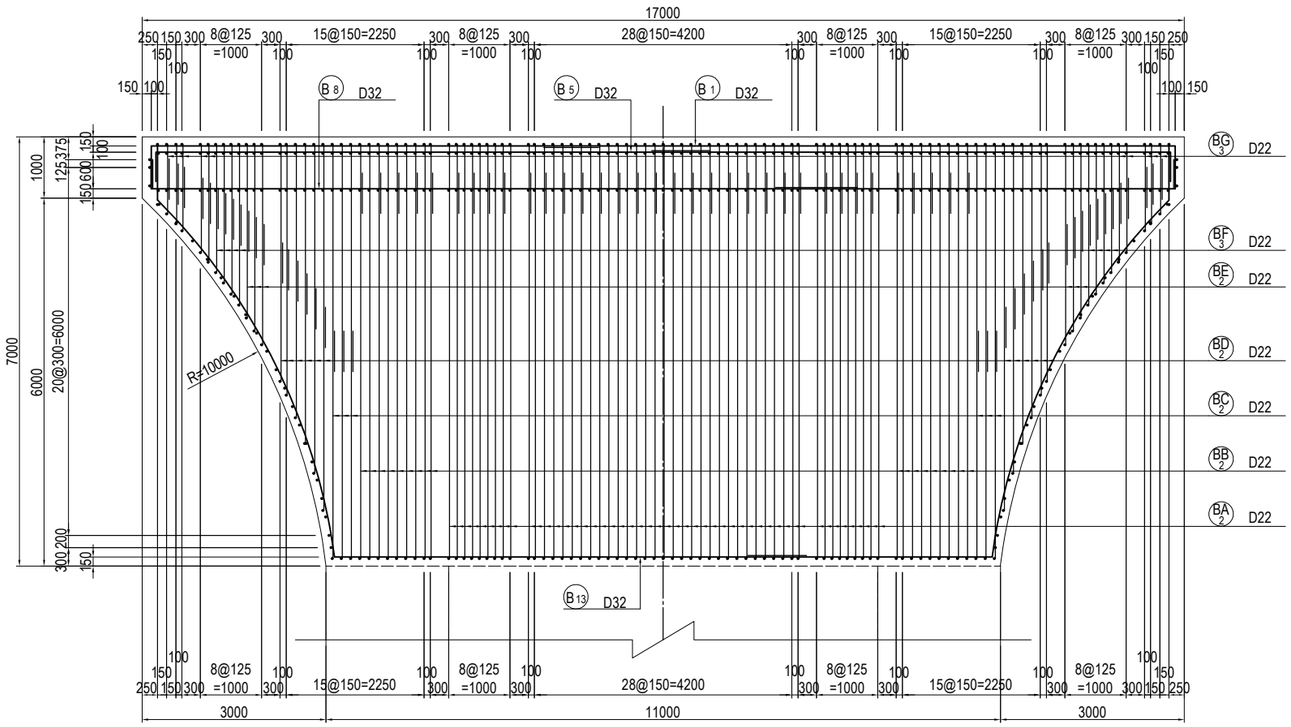
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P18 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2403

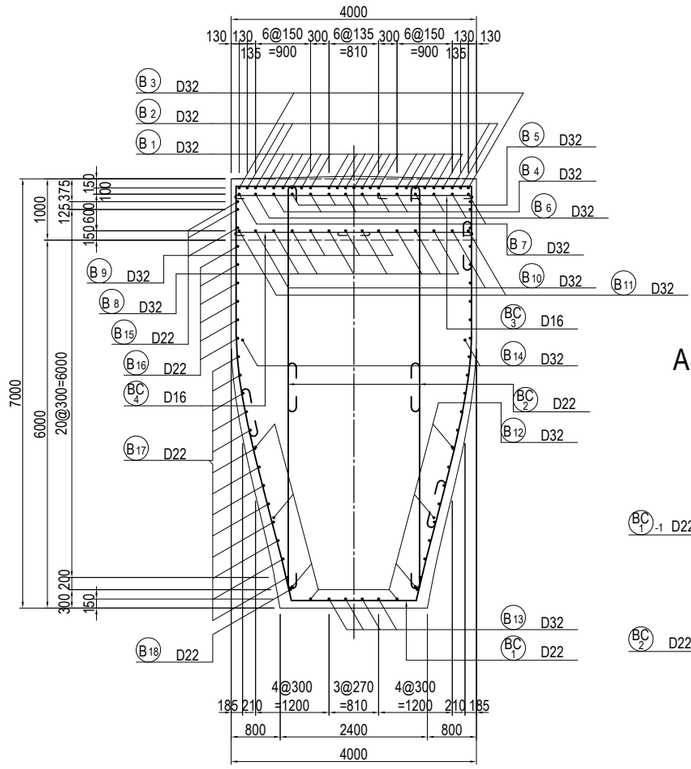
BAR ARRANGEMENT OF P18 PIER (2) S=1:100

BEAM

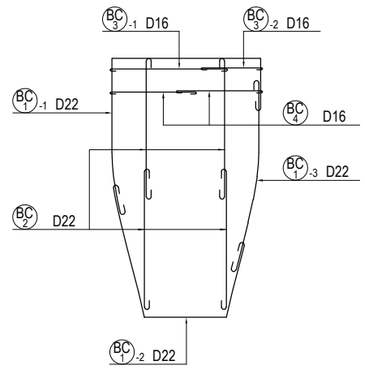
SECTION 4 - 4



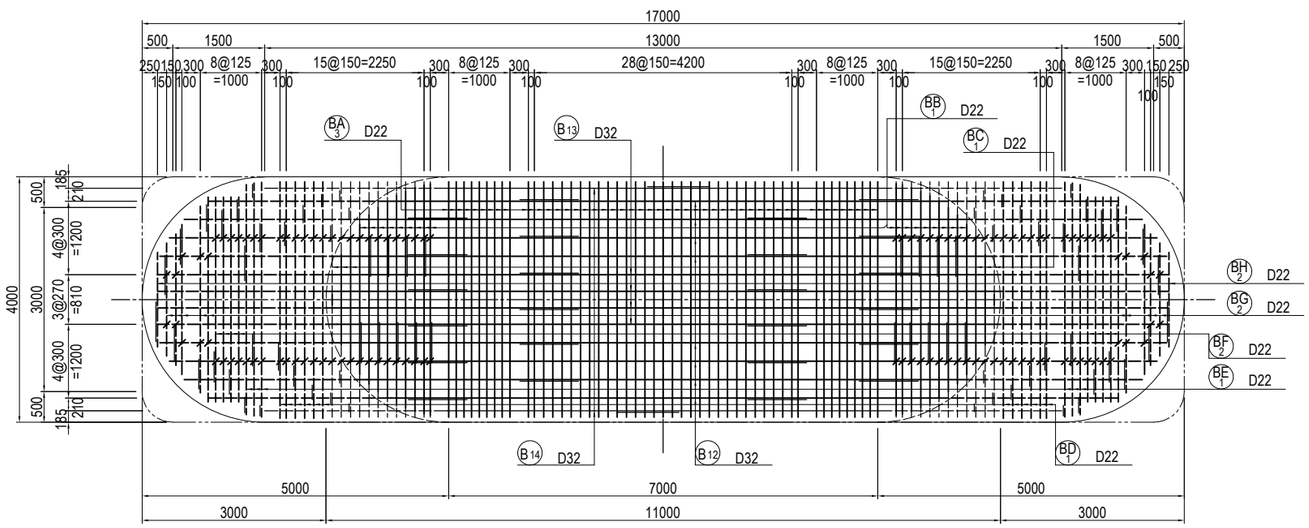
SECTION 7 - 7



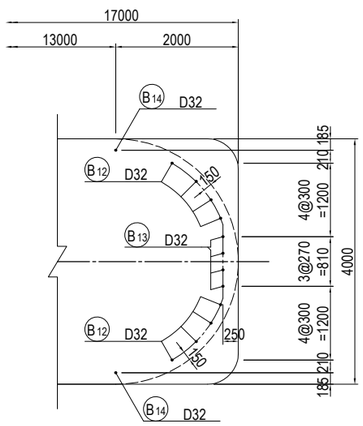
ASSEMBLY DRAWING OF STIRRUP



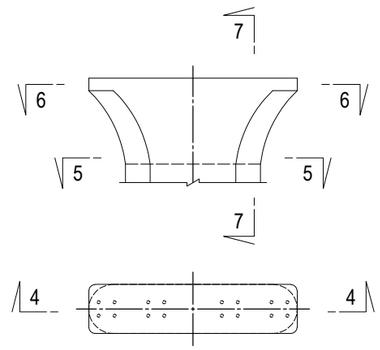
PLAN 5 - 5



PLAN 6 - 6



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

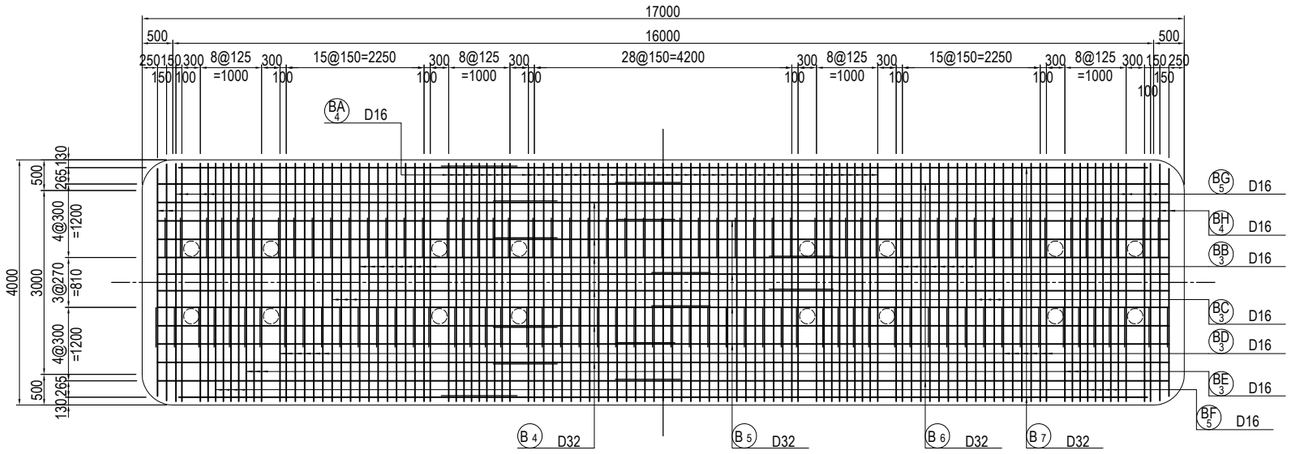
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P18 PIER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2404

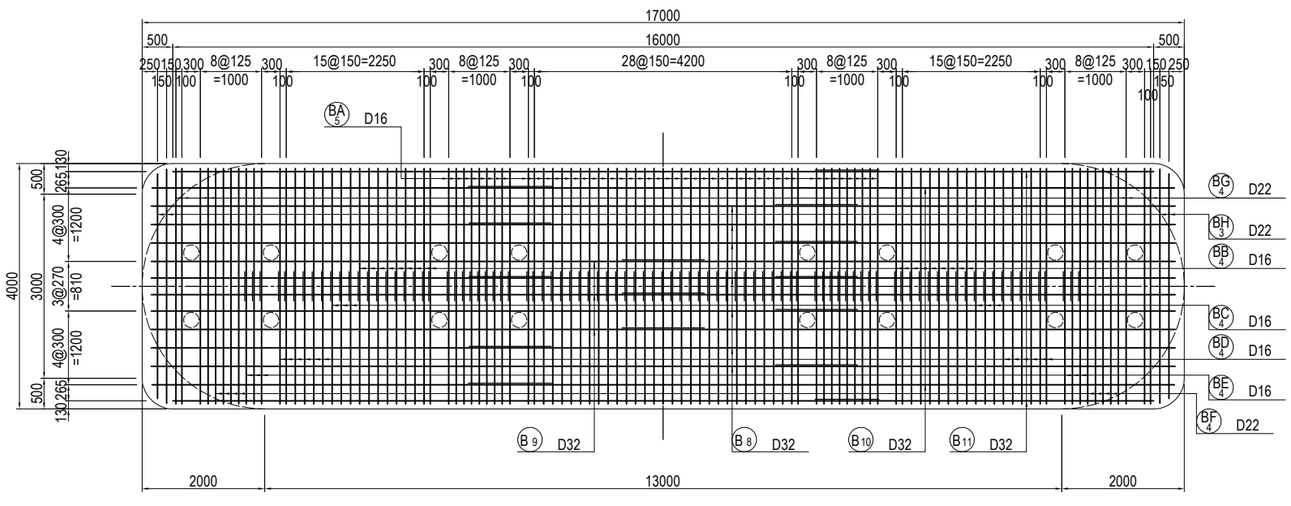
BAR ARRANGEMENT OF P18 PIER (3) S=1:100

BEAM

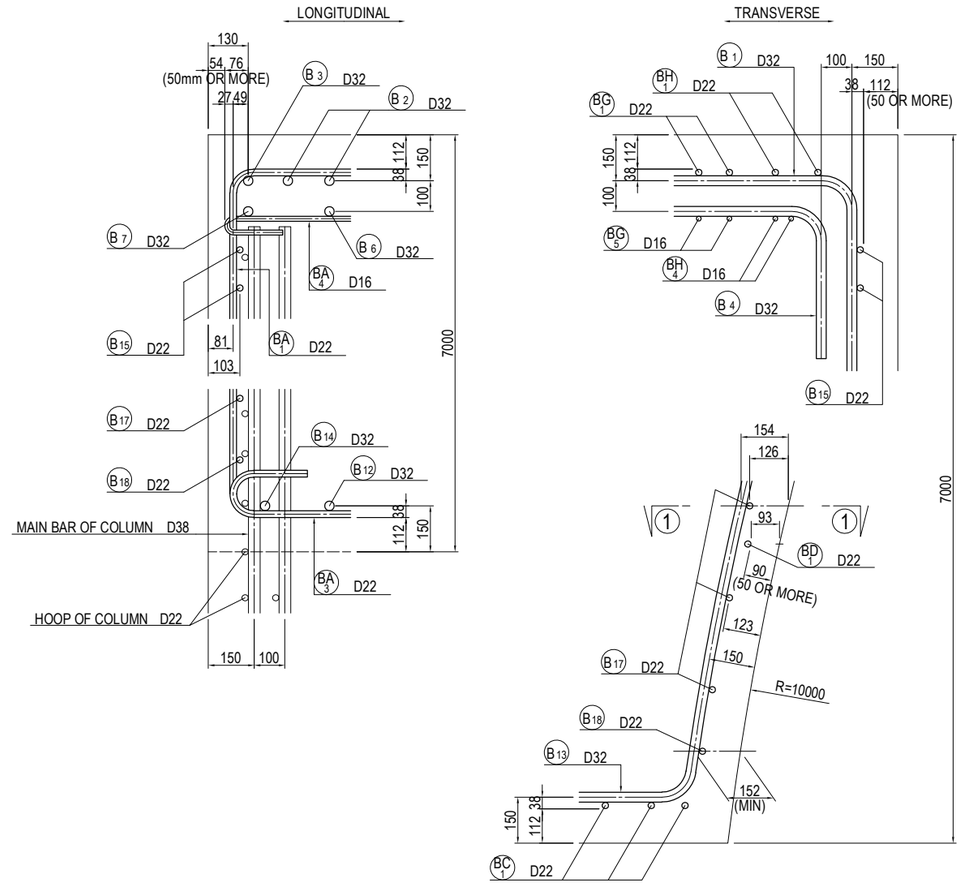
PLAN 8 - 8



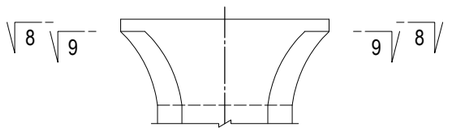
PLAN 9 - 9



DETAIL OF BEAM S=1:20



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P18 PIER (3)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2405

BAR ARRANGEMENT OF P18 PIER (4) S=1:100

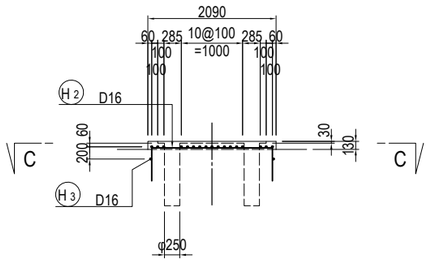
BEAM

BAR ARRANGEMENT OF BEARING BASE

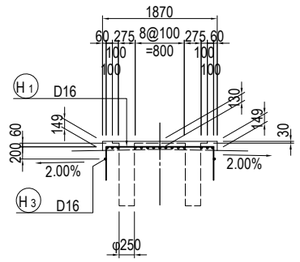
(N = 4)

SECTION

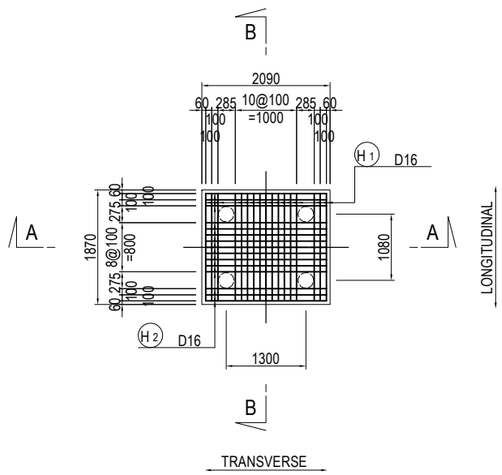
A - A

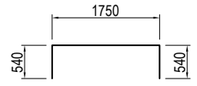


B - B

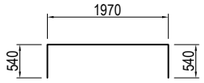


PLAN
C - C

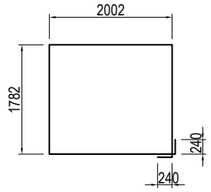




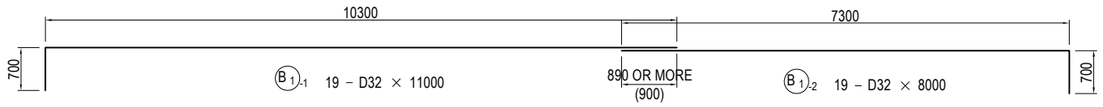
(H1) 68 – D16 × 2830

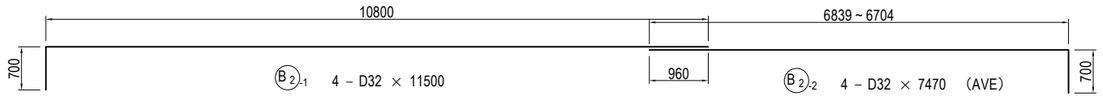


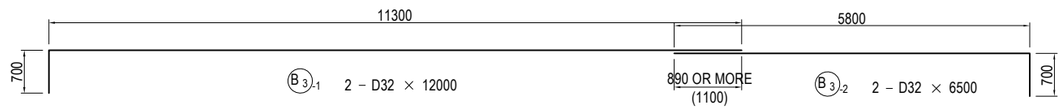
(H2) 60 – D16 × 3050

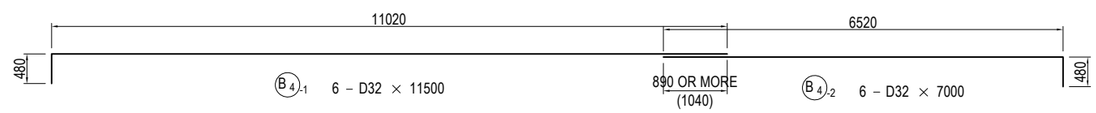


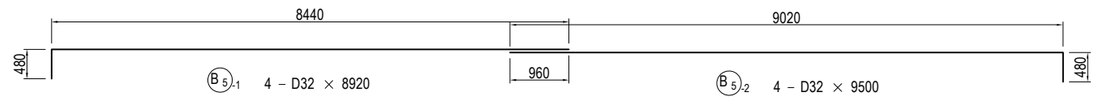
(H3) 4 – D16 × 8050

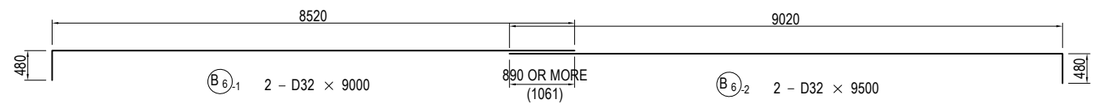


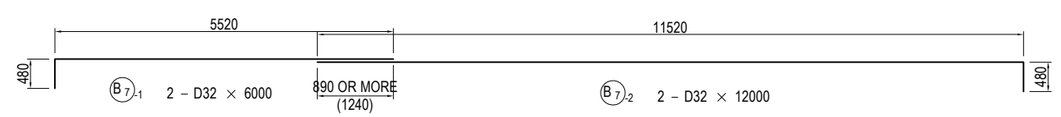












USE MATERIALS

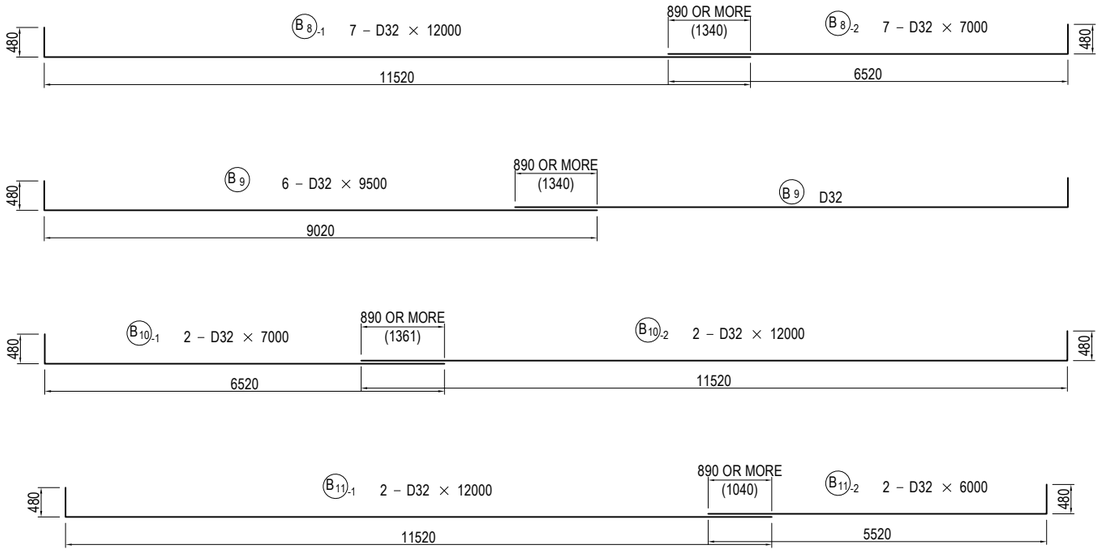
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

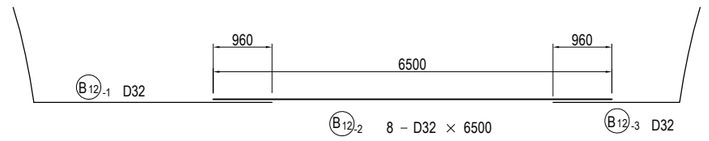
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME	SIGNATURE / DATE
				PREPARED BY	S. IMADA — 15 Jun.2017
				CHECKED BY	T. HAYAKAWA — 20 Jun.2017
				APPROVED BY	Y. SANO — 21 Jun.2017

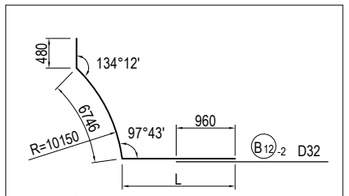
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P18 PIER (4)	2
	DWG No.
	P2-SB-2406

BAR ARRANGEMENT OF P18 PIER (5) S=1:100

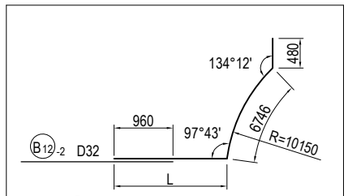
BEAM



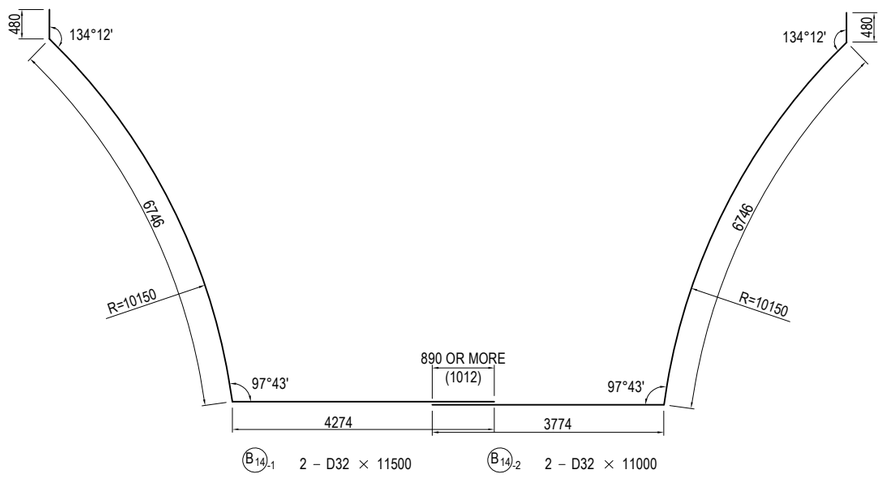


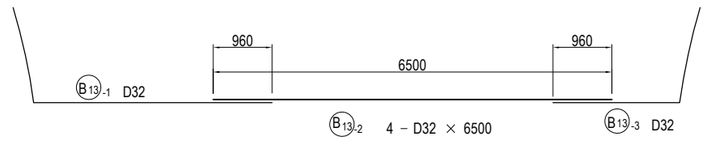


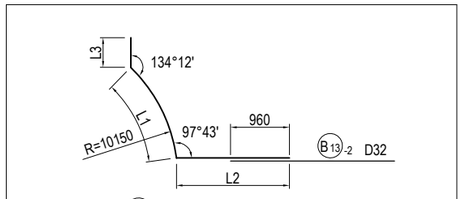
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B12 -1 1	D32	2	3058	10284
2	"	2	3449	10675
3	"	2	3691	10917
4	"	2	3848	11074
AVE		8		10738



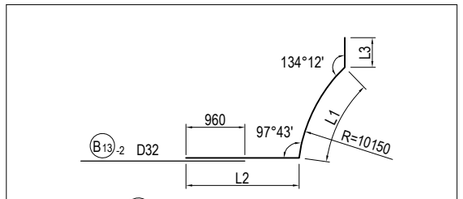
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B12 -3 1	D32	2	1238	8464
2	"	2	1629	8855
3	"	2	1871	9097
4	"	2	2028	9254
AVE		8		8918







MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
B13 -1 1	D32	2	6669	3943	840	11452
2	"	2	6613	3983	880	11476
AVE		4				11464



MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
B13 -3 1	D32	2	6669	2123	840	9632
2	"	2	6613	2163	880	9656
AVE		4				9644

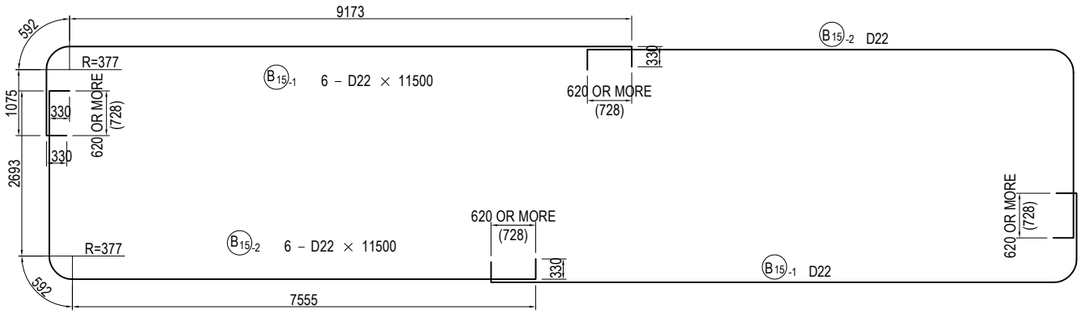
USE MATERIALS

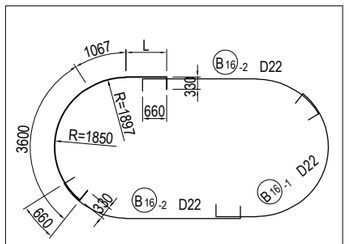
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P18 PIER (5)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2407

BAR ARRANGEMENT OF P18 PIER (6) S=1:100

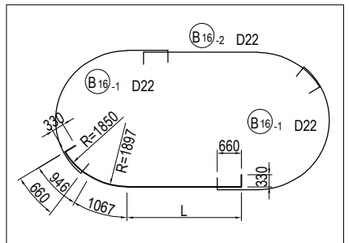
BEAM





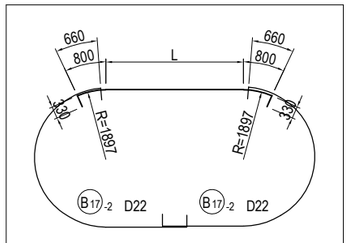
B16-1 12 – D22 × 9300 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-1 1	D22	2	4612	9939
2	"	2	4328	9655
3	"	2	4065	9392
4	"	2	3823	9150
5	"	2	3598	8925
6	"	2	3391	8718
AVE		12		9297



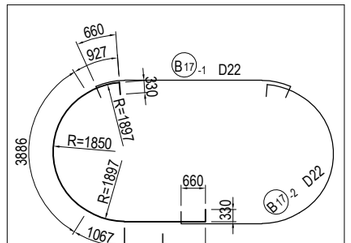
B16-2 12 – D22 × 10640 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-2 1	D22	2	8612	11285
2	"	2	8328	11001
3	"	2	8065	10738
4	"	2	7823	10496
5	"	2	7598	10271
6	"	2	7391	10064
AVE		12		10643



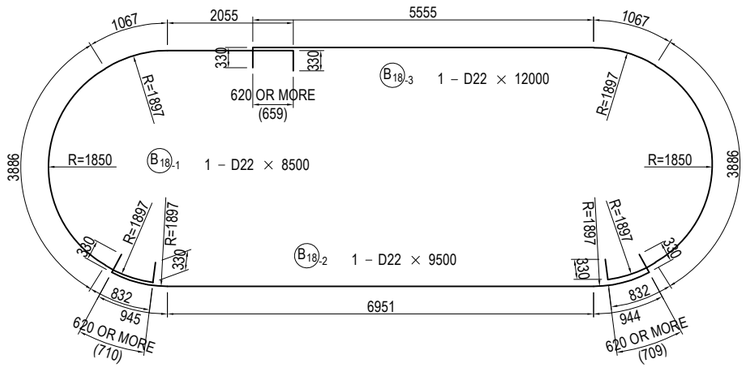
B17-1 13 – D22 × 10400 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B17-1 1	D22	1	9737	11997
2	"	1	9381	11641
3	"	1	9052	11312
4	"	1	8749	11009
5	"	1	8470	10730
6	"	1	8215	10475
7	"	1	7982	10242
8	"	1	7771	10031
9	"	1	7580	9840
10	"	1	7410	9670
11	"	1	7260	9520
12	"	1	7128	9388
13	"	1	7016	9276
AVE		13		10395



B17-2 26 – D22 × 10940 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B17-2 1	D22	2	5198	11738
2	"	2	5020	11560
3	"	2	4856	11396
4	"	2	4705	11245
5	"	2	4565	11105
6	"	2	4438	10978
7	"	2	4321	10861
8	"	2	4215	10755
9	"	2	4120	10660
10	"	2	4035	10575
11	"	2	3960	10500
12	"	2	3894	10434
13	"	2	3838	10378
AVE		26		10937



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm²	SD345

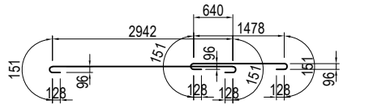
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

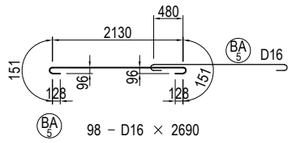
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

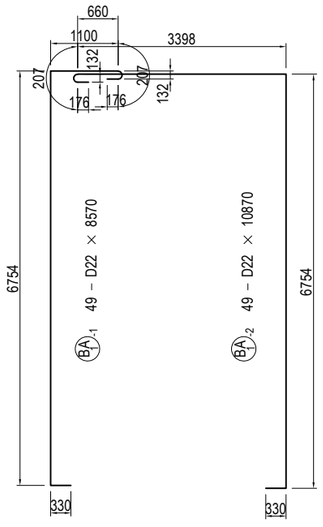
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P18 PIER (6)	2
	DWG No.
	P2-SB-2408

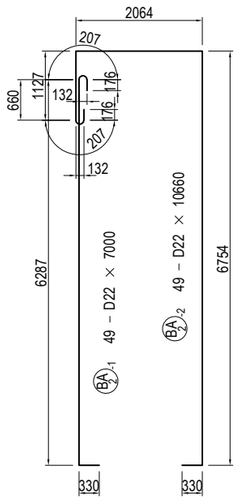
BAR ARRANGEMENT OF P18 PIER (7) S=1:100

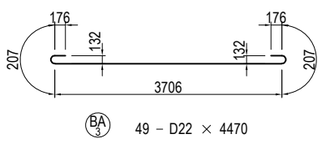
BEAM

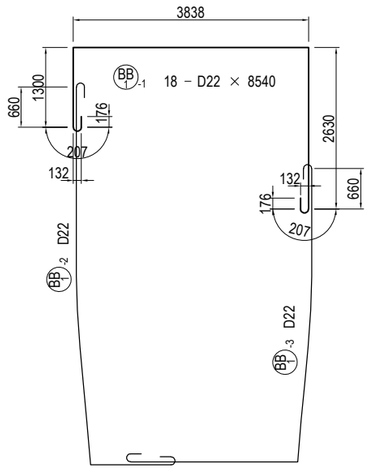


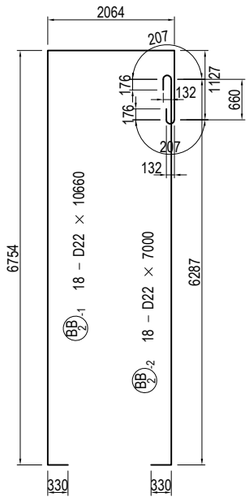


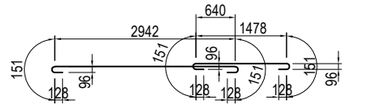


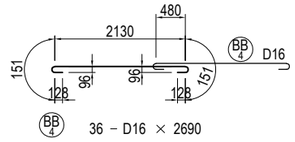


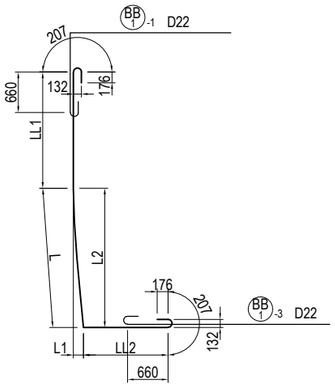






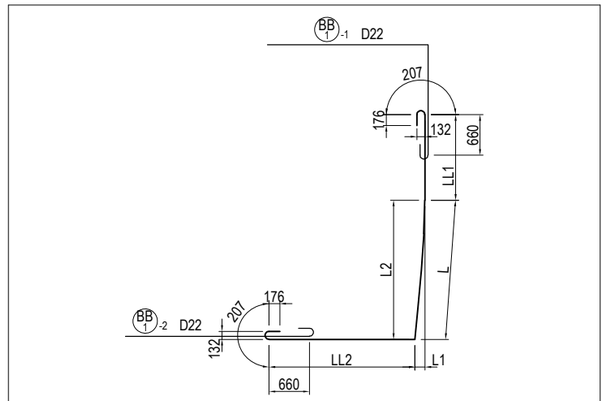






BB1-2 18 – D22 × 8160 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL1	LENGTH LL2	TOTAL LENGTH ΣL
BB1-2 1	D22	2	1464	33	1464	4650	1511	8391
2	"	2	1892	54	1891	4223	1490	8371
3	"	2	2282	97	2280	3834	1447	8329
4	"	2	2606	155	2601	3513	1389	8274
5	"	2	3029	227	3020	3094	1317	8206
6	"	2	3241	315	3225	2889	1229	8125
7	"	2	3607	416	3580	2534	1128	8035
8	"	2	3827	541	3785	2329	1003	7925
9	"	2	4115	698	4051	2063	846	7790
AVE		18						8161



BB1-3 18 – D22 × 8240 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL1	LENGTH LL2	TOTAL LENGTH ΣL
BB1-3 1	D22	2	1464	33	1464	3320	2921	8471
2	"	2	1892	54	1891	2893	2900	8451
3	"	2	2282	97	2280	2504	2857	8409
4	"	2	2606	155	2601	2183	2799	8354
5	"	2	3029	227	3020	1764	2727	8286
6	"	2	3241	315	3225	1559	2639	8205
7	"	2	3607	416	3580	1204	2538	8115
8	"	2	3827	541	3785	999	2413	8005
9	"	2	4115	698	4051	733	2256	7870
AVE		18						8241

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm²	SD345

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JAPAN INTERNATIONAL
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COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

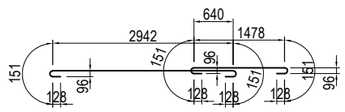
DRAWING TITLE: BAR ARRANGEMENT OF P18 PIER (7)

PACKAGE: 2

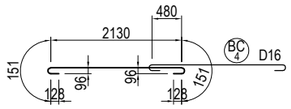
DWG No.: P2-SB-2409

BAR ARRANGEMENT OF P18 PIER (8) S=1:100

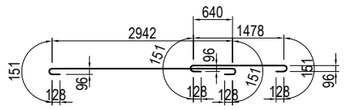
BEAM



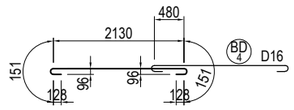
(BC3)-1 6 – D16 × 3500 (BC3)-2 6 – D16 × 2040



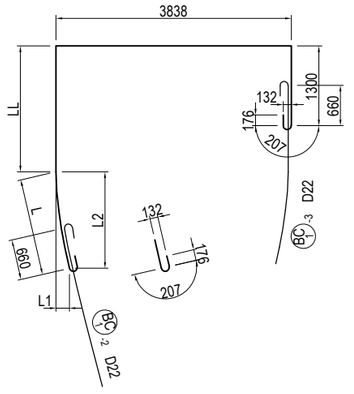
(BC4) 12 – D16 × 2690



(BD3)-1 12 – D16 × 3500 (BD3)-2 12 – D16 × 2040

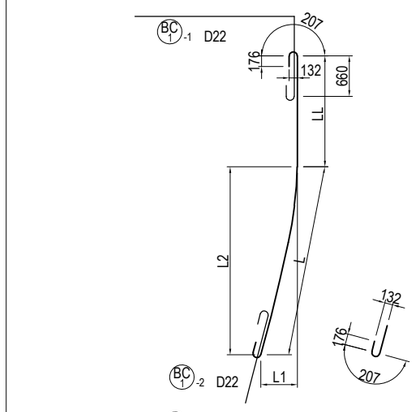


(BD4) 24 – D16 × 2690



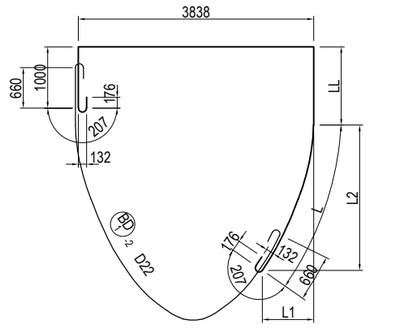
(BC1)-1 6 – D22 × 9950 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BC1-1 1	D22	2	1591	219	1573	2451	9946
2	"	2	1871	304	1837	2177	9952
3	"	2	2008	400	1961	2049	9961
AVE		6					9953



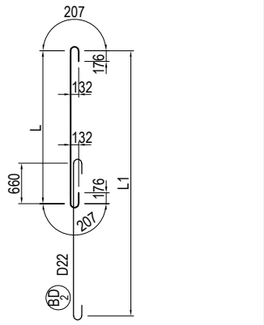
(BC1)-3 6 – D22 × 5730 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BC1-3 1	D22	2	3129	594	3064	1811	5706
2	"	2	3426	761	3327	1537	5729
3	"	2	3591	975	3434	1409	5766
AVE		6					5734



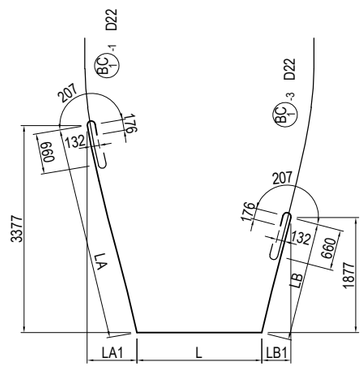
(BD1)-1 12 – D22 × 9420 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BD1-1 1	D22	2	1907	407	1855	1851	9362
2	"	2	2150	524	2071	1623	9377
3	"	2	2289	665	2171	1503	9396
4	"	2	2544	836	2369	1277	9425
5	"	2	2697	1045	2436	1167	9468
6	"	2	2879	1218	2528	1027	9510
AVE		12					9423



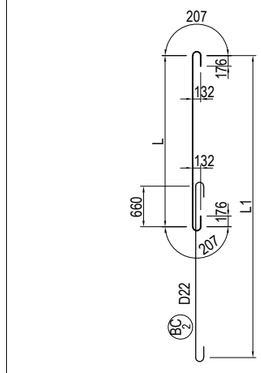
(BD2) 24 – D22 × 2980 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BD2 1	D22	4	2645	4630	3411
2	"	4	2445	4229	3211
3	"	4	2266	3872	3032
4	"	4	2105	3549	2871
5	"	4	1957	3253	2723
6	"	4	1864	3068	2630
AVE		24			2980



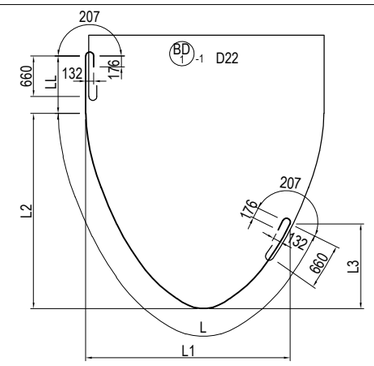
(BC1)-2 6 – D22 × 7630 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LB	LENGTH LB1	LENGTH L	TOTAL LENGTH ΣL
BC1-2 1	D22	2	3474	811	1936	474	2038	8214
2	"	2	3536	1043	1981	760	1465	7748
3	"	2	3791	1621	2209	1120	171	6937
AVE		6						7633



(BC2) 12 – D22 × 3960 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BC2 1	D22	4	3543	6425	4309
2	"	4	3159	5657	3925
3	"	4	2877	5093	3643
AVE		12			3959



(BD1)-2 12 – D22 × 8250 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BD1-2 1	D22	2	8159	3633	4120	2894	1511	10436
2	"	2	7303	3548	3741	2287	1283	9352
3	"	2	6546	3453	3373	1799	1163	8475
4	"	2	5999	3336	3183	1383	937	7702
5	"	2	5399	3189	2925	1015	827	6992
6	"	2	5104	3072	2841	791	687	6557
AVE		12						8252

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
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FINANCED BY
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NIPPON ENGINEERING CONSULTANTS CO.,LTD.

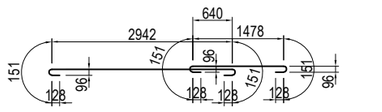
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE: BAR ARRANGEMENT OF P18 PIER (8)

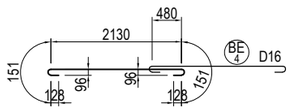
PACKAGE: 2
DWG No.: P2-SB-2410

BAR ARRANGEMENT OF P18 PIER (9) S=1:100

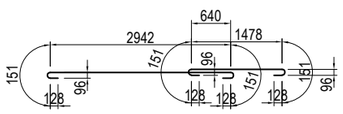
BEAM



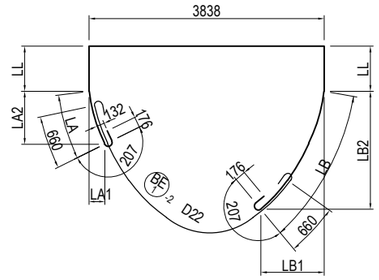
BE2-1 6 – D16 × 3500 BE2-2 6 – D16 × 2040



BE4 12 – D16 × 2690

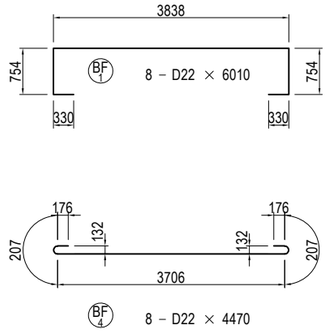


BF5-1 8 – D16 × 3500 BF5-2 8 – D16 × 2040

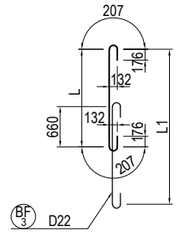


BE1-1 6 – D22 × 9620 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LA2	LENGTH LB	LENGTH LB1	LENGTH LB2	LENGTH LL	TOTAL LENGTH ΣL
BE1-1 1	D22	2	820	196	793	2475	1141	2129	818	9535
2	"	2	905	257	863	2624	1351	2154	736	9605
3	"	2	970	325	906	2780	1612	2117	679	9712
AVE		6								9617

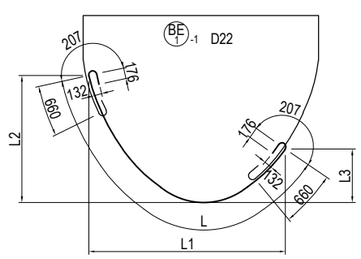


BF4 8 – D22 × 4470



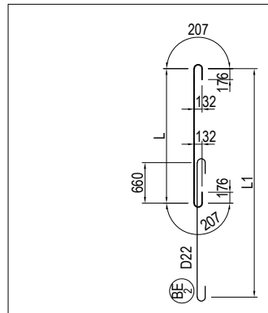
BF3-1 16 – D22 × 1980 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BF3-1 1	D22	4	1335	2009	2101
2	"	4	1251	1841	2017
3	"	4	1170	1680	1936
4	"	4	1093	1526	1859
AVE		16			1978



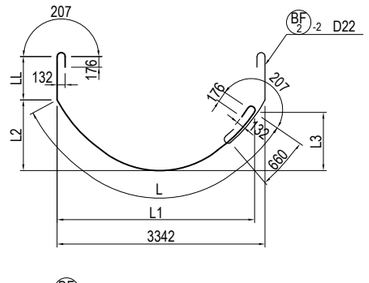
BE1-2 6 – D22 × 4990 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
BE1-2 1	D22	2	4693	3139	2292	792	5459
2	"	2	4230	2959	2069	569	4996
3	"	2	3755	2725	1858	358	4521
AVE		6					4992



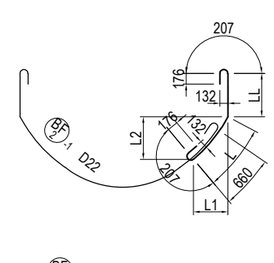
BE2 12 – D22 × 2280 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BE2 1	D22	4	1611	2561	2377
2	"	4	1514	2368	2280
3	"	4	1423	2185	2189
AVE		12			2282



BF2-1 8 – D22 × 5850 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BF2-1 1	D22	2	4397	3300	1340	1258	1228	6391
2	"	2	4172	3218	1287	1068	1092	6030
3	"	2	3933	3126	1233	887	964	5663
4	"	2	3721	3016	1196	713	829	5316
AVE		8						5850



BF2-2 8 – D22 × 2790 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BF2-2 1	D22	2	753	407	631	1228	2747
2	"	2	912	530	737	1092	2770
3	"	2	1069	665	828	964	2799
4	"	2	1243	821	914	829	2838
AVE		8					2789

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

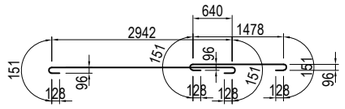
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

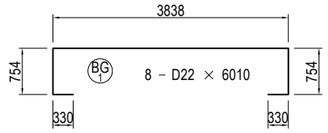
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P18 PIER (9)	2
	DWG No.
	P2-SB-2411

BAR ARRANGEMENT OF P18 PIER (10) S=1:100

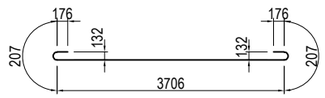
BEAM



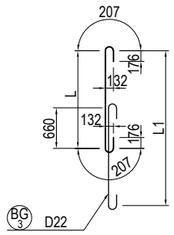
BG5-1 8 – D16 × 3500 BG5-2 8 – D16 × 2040



BG1 8 – D22 × 6010

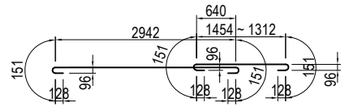


BG4 8 – D22 × 4470



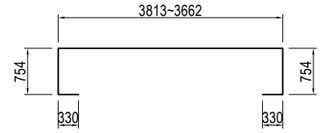
BG3 20 – D22 × 1700 (AVE)

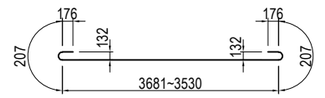
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BG3 1	D22	4	1113	1565	1879
2	"	4	1038	1415	1804
3	"	4	869	1077	1635
4	"	4	866	1071	1632
5	"	4	787	914	1553
AVE		20			1701



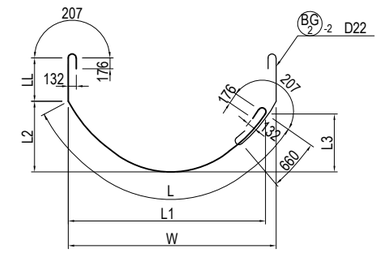
BH4-1 4 – D16 × 3500 BH4-2 4 – D16 × 1940 (AVE)

BH1 4 – D22 × 5910 (AVE)



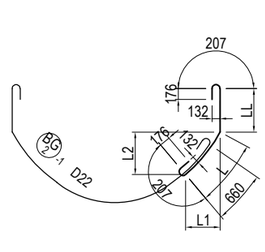


BH3 4 – D22 × 4370 (AVE)



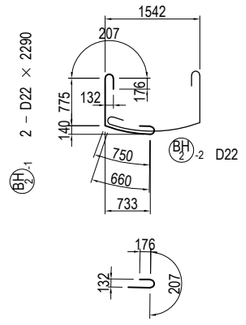
BG2-1 10 – D22 × 4390 (AVE)

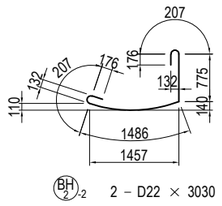
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH W	LENGTH LL	TOTAL LENGTH ΣL
BG2-1 1	D22	2	4015	3220	1151	948	3342	707	5488
2	"	2	3528	2977	876	789	3042	824	5118
3	"	2	2594	2371	491	432	2442	852	4212
4	"	2	2227	2077	369	321	2142	863	3856
5	"	2	1715	1639	271	159	1842	799	3280
AVE		10							4391



BG2-2 10 – D22 × 2390 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BG2-2 1	D22	2	898	561	694	707	2371
2	"	2	769	545	536	824	2359
3	"	2	752	645	379	852	2370
4	"	2	740	662	320	863	2369
5	"	2	892	840	269	799	2457
AVE		10					2385





BH2-2 2 – D22 × 3030

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

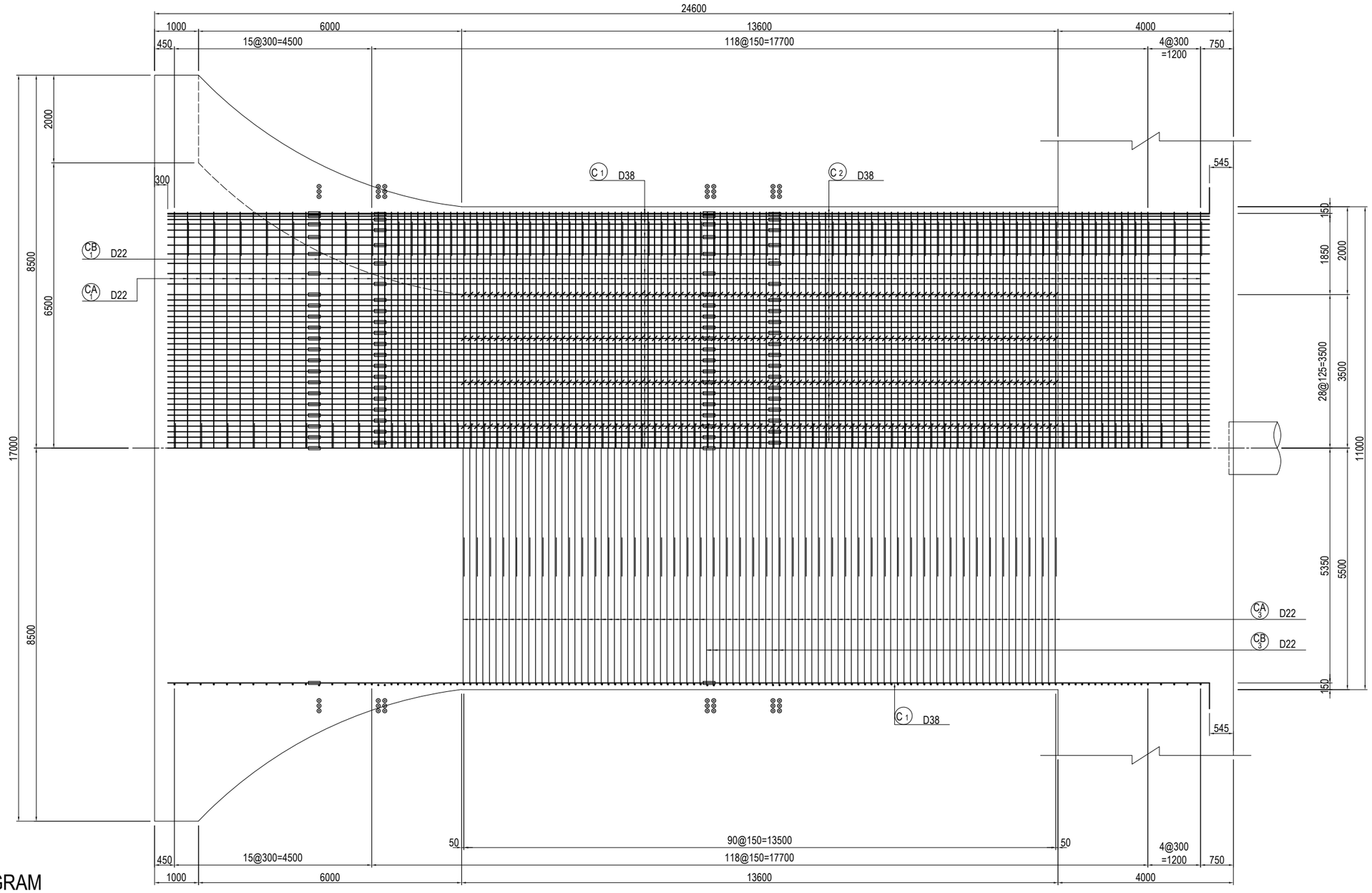
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P18 PIER (10)	2
	DWG No.
	P2-SB-2412

BAR ARRANGEMENT OF P18 PIER (11) S=1:100

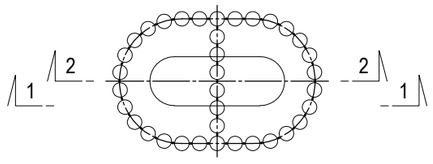
COLUMN

FRONT ELEVATION
1 - 1



SECTION
2 - 2

MARKING DIAGRAM



Notes) 1. ⊛⊛⊛ : This mark indicates hoop arranged in the location of mechanical joint.
2. ⊢▭⊣ : This mark indicates a mechanical joint.

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

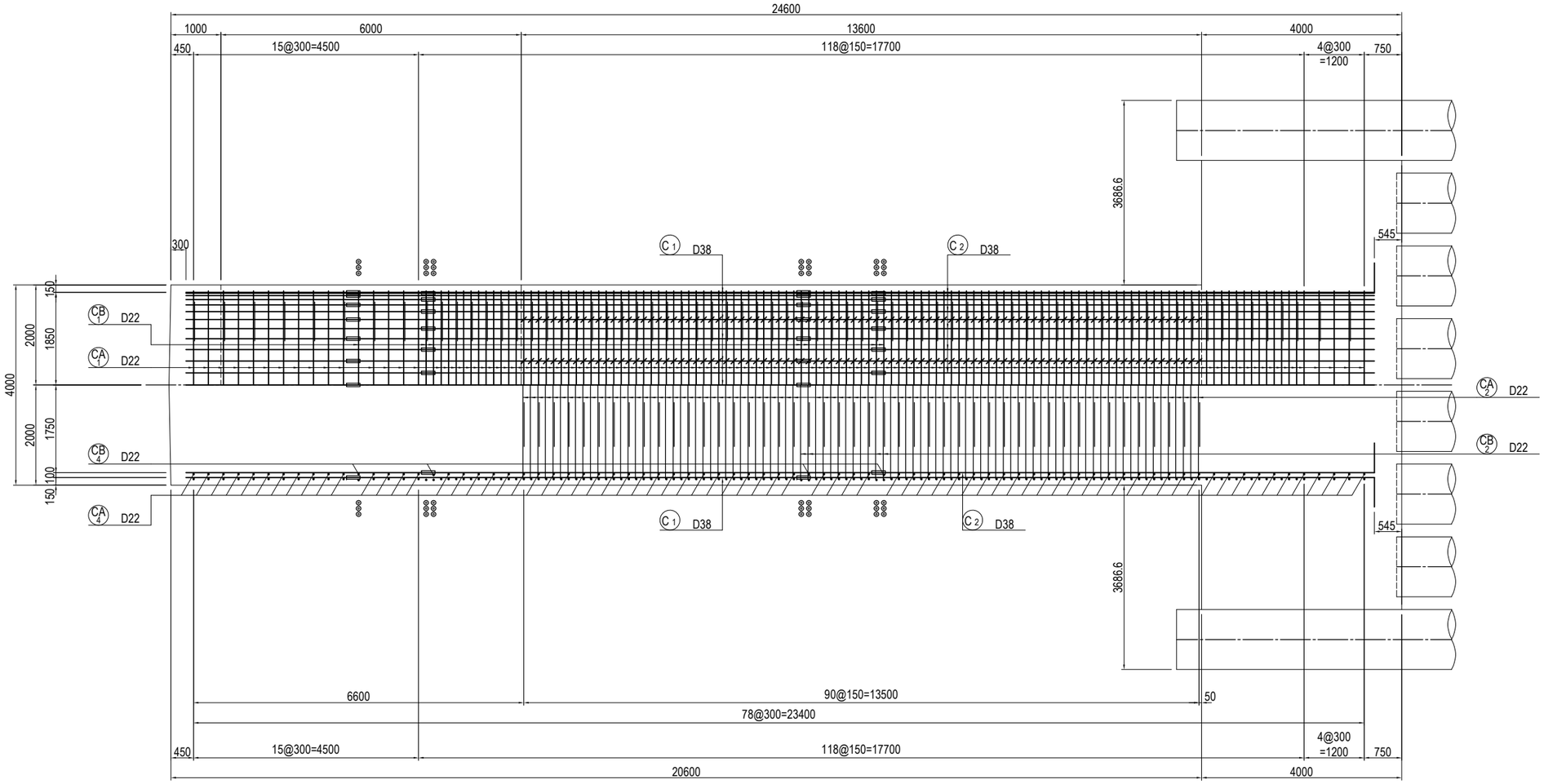
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P18 PIER (11)	2
	DWG No.
	P2-SB-2413

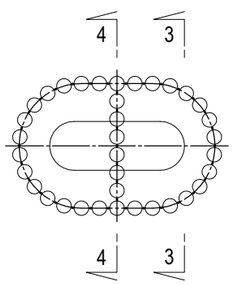
BAR ARRANGEMENT OF P18 PIER (12) S=1:100

COLUMN

SECTION 4 - 4 SIDE ELEVATION 3 - 3



MARKING DIAGRAM



Notes) 1. ⊛⊛⊛ : This mark indicates hoop arranged in the location of mechanical joint.
2. —▭— : This mark indicates a mechanical joint.

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME	SIGNATURE / DATE
				PREPARED BY	S. IMADA — 15 Jun.2017
				CHECKED BY	T. HAYAKAWA — 20 Jun.2017
				APPROVED BY	Y. SANO — 21 Jun.2017

DRAWING TITLE: BAR ARRANGEMENT OF P18 PIER (12)

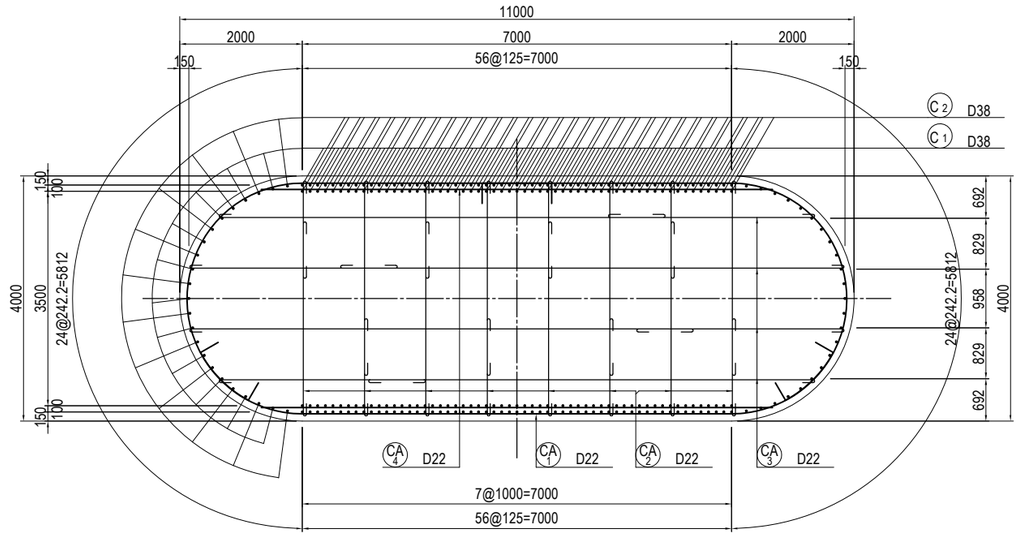
PACKAGE: 2

DWG No.: P2-SB-2414

BAR ARRANGEMENT OF P18 PIER (13) S=1:100

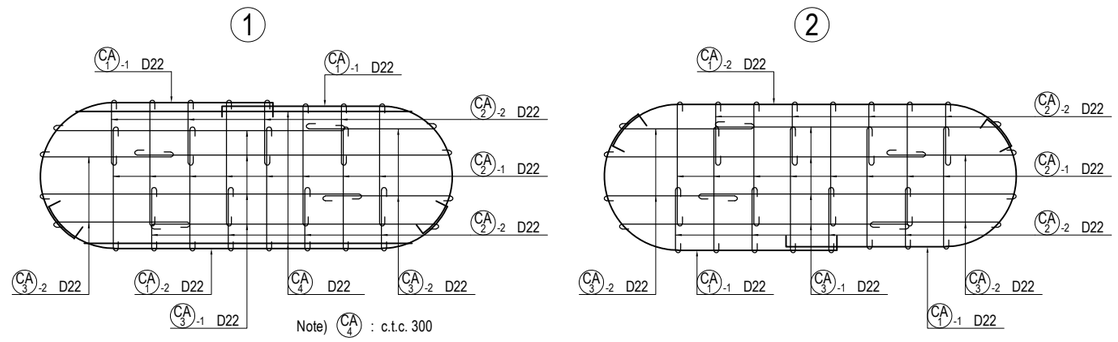
COLUMN

PLAN
5 - 5

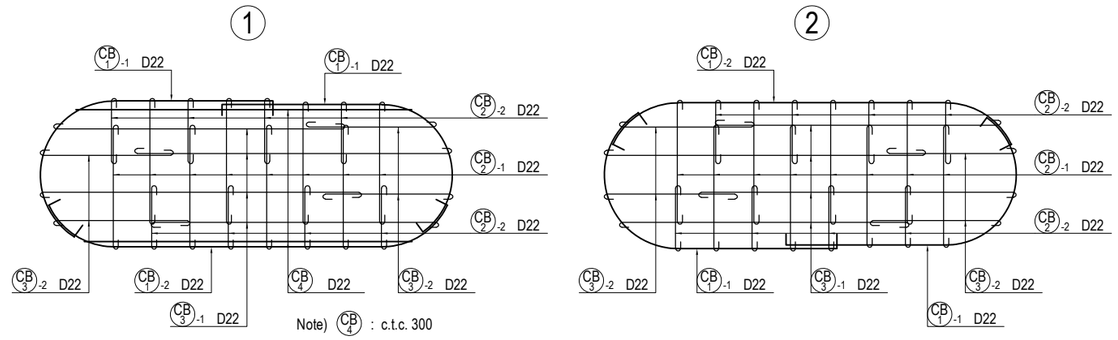


ASSEMBLY DRAWING OF HOOP
(c.t.c. 150)

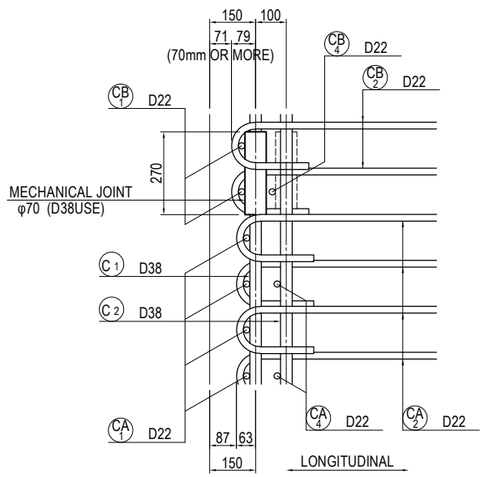
【STANDARD PART】



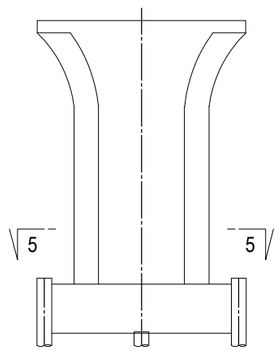
【MECHANICAL JOINT PART】



DETAIL OF COLUMN S=1:20



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

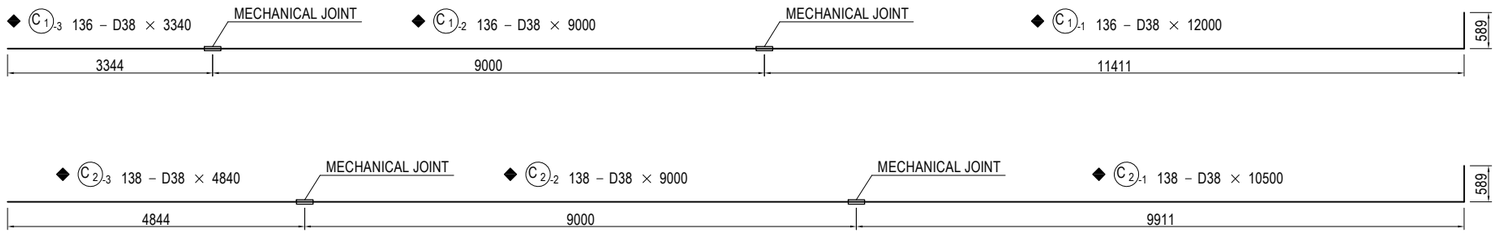
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

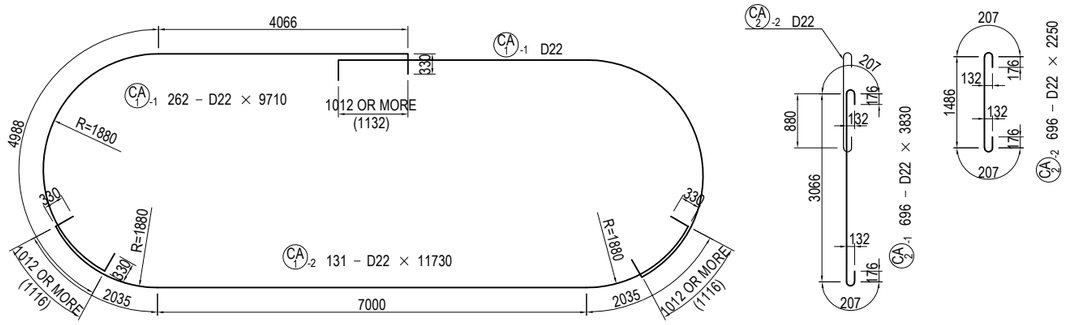
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

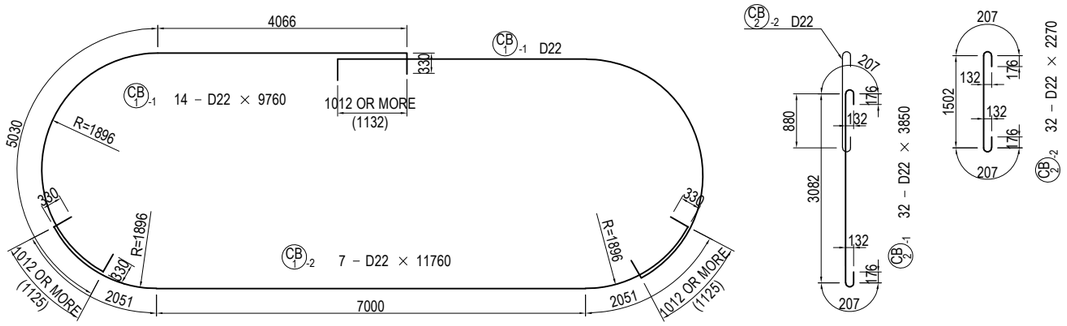
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P18 PIER (13)	2
	DWG No.
	P2-SB-2415

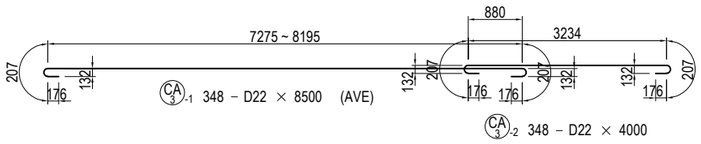
BAR ARRANGEMENT OF P18 PIER (14) S=1:100

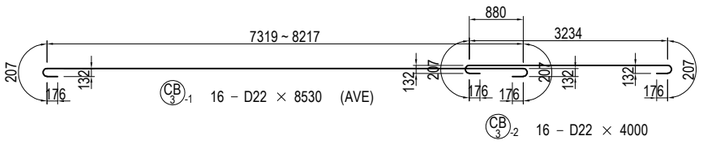
COLUMN

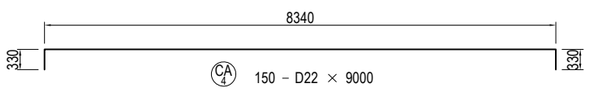


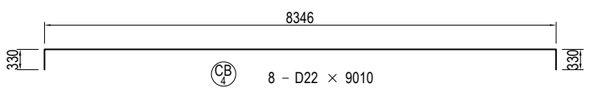




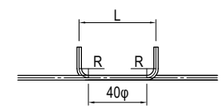








LAP LENGTH LIST OF HOOP



DIA.	R	LAP LENGTH (40φ)	L
D13	39	520	598
D16	48	640	736
D19	57	760	874
D22	66	880	1012
D25	75	1000	1150
D29	87	1160	1334
D32	96	1280	1472

Notes) 1. ◆ : SD390
2. —▭— : MECHANICAL JOINT

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P18 PIER (14)	2
	DWG No.
	P2-SB-2416

BAR ARRANGEMENT OF P18 PIER (15) NOT TO SCALE

BAR SCHEDULE (SD390)

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
C 1-1	D38	12000	136	8.95	107.40	14606	(136)
1-2	"	9000	136	"	80.55	10955	(136)
1-3	"	3340	136	"	29.89	4065	
2-1	"	10500	138	"	93.98	12969	(138)
2-2	"	9000	138	"	80.55	11116	(138)
2-3	"	4840	138	"	43.32	5978	
					SUBTOTAL	59689 kg	
							(MECHANICAL JOINT)
	SD390		D38		59689 kg	(548)	
			TOTAL		59689 kg	(548)	

BAR SCHEDULE (SD345)

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
B 1-1	D32	11000	19	6.23	68.53	1302	
1-2	"	8000	19	"	49.84	947	
2-1	"	11500	4	"	71.65	287	
2-2	"	7470	4	"	46.54	186	(AVE)
3-1	"	12000	2	"	74.76	150	
3-2	"	6500	2	"	40.50	81	
4-1	"	11500	6	"	71.65	430	
4-2	"	7000	6	"	43.61	262	
5-1	"	8920	4	"	55.57	222	
5-2	"	9500	4	"	59.19	237	
6-1	"	9000	2	"	56.07	112	
6-2	"	9500	2	"	59.19	118	
7-1	"	6000	2	"	37.38	75	
7-2	"	12000	2	"	74.76	150	
8-1	"	12000	7	"	74.76	523	
8-2	"	7000	7	"	43.61	305	
9	"	9500	6	"	59.19	355	
10-1	"	7000	2	"	43.61	87	"
10-2	"	12000	2	"	74.76	150	
11-1	"	12000	2	"	74.76	150	
11-2	"	6000	2	"	37.38	75	
12-1	"	10740	8	"	66.91	535	(AVE)
12-2	"	6500	8	"	40.50	324	
12-3	"	8920	8	"	55.57	445	(AVE)
13-1	"	11460	4	"	71.40	286	(AVE)
13-2	"	6500	4	"	40.50	162	
13-3	"	9640	4	"	60.06	240	(AVE)
14-1	"	11500	2	"	71.65	143	
14-2	"	11000	2	"	68.53	137	
15-1	D22	11500	6	3.04	34.96	210	
15-2	"	11500	6	"	34.96	210	
16-1	"	9300	12	"	28.27	339	(AVE)
16-2	"	10640	12	"	32.35	388	(AVE)
17-1	"	10400	13	"	31.62	411	(AVE)
17-2	"	10940	26	"	33.26	865	(AVE)
18-1	"	8500	1	"	25.84	26	
18-2	"	9500	1	"	28.88	29	
18-3	"	12000	1	"	36.48	36	
					SUBTOTAL	10990 kg	
BA 1-1	D22	8570	49	3.04	26.05	1276	
1-2	"	10870	49	"	33.04	1619	
2-1	"	7000	49	"	21.28	1043	
2-2	"	10660	49	"	32.41	1588	
3	"	4470	49	"	13.59	666	
4-1	D16	3500	49	1.56	5.46	268	
4-2	"	2040	49	"	3.18	156	"
5	"	2690	98	"	4.20	412	"
					SUBTOTAL	7028 kg	

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
BB 1-1	D22	8540	18	3.04	25.96	467	
1-2	"	8160	18	"	24.81	447	(AVE)
1-3	"	8240	18	"	25.05	451	(AVE)
2-1	"	10660	18	"	32.41	583	
2-2	"	7000	18	"	21.28	383	
3-1	D16	3500	18	1.56	5.46	98	
3-2	"	2040	18	"	3.18	57	"
4	"	2690	36	"	4.20	151	"
					SUBTOTAL	2637 kg	
BC 1-1	D22	9950	6	3.04	30.25	182	(AVE)
1-2	"	7630	6	"	23.20	139	(AVE)
1-3	"	5730	6	"	17.42	105	(AVE)
2	"	3960	12	"	12.04	144	(AVE)
3-1	D16	3500	6	1.56	5.46	33	
3-2	"	2040	6	"	3.18	19	"
4	"	2690	12	"	4.20	50	"
					SUBTOTAL	672 kg	
BD 1-1	D22	9420	12	3.04	28.64	344	(AVE)
1-2	"	8250	12	"	25.08	301	(AVE)
2	"	2980	24	"	9.06	217	(AVE)
3-1	D16	3500	12	1.56	5.46	66	
3-2	"	2040	12	"	3.18	38	"
4	"	2690	24	"	4.20	101	"
					SUBTOTAL	1067 kg	
BE 1-1	D22	9620	6	3.04	29.24	175	(AVE)
1-2	"	4990	6	"	15.17	91	(AVE)
2	"	2280	12	"	6.93	83	(AVE)
3-1	D16	3500	6	1.56	5.46	33	
3-2	"	2040	6	"	3.18	19	"
4	"	2690	12	"	4.20	50	"
					SUBTOTAL	451 kg	
BF 1	D22	6010	8	3.04	18.27	146	
2-1	"	5850	8	"	17.78	142	(AVE)
2-2	"	2790	8	"	8.48	68	(AVE)
3	"	1980	16	"	6.02	96	(AVE)
4	"	4470	8	"	13.59	109	
5-1	D16	3500	8	1.56	5.46	44	
5-2	"	2040	8	"	3.18	25	"
					SUBTOTAL	630 kg	
BG 1	D22	6010	8	3.04	18.27	146	
2-1	"	4390	10	"	13.35	134	(AVE)
2-2	"	2390	10	"	7.27	73	(AVE)
3	"	1700	20	"	5.17	103	(AVE)
4	"	4470	8	"	13.59	109	
5-1	D16	3500	8	1.56	5.46	44	
5-2	"	2040	8	"	3.18	25	"
					SUBTOTAL	634 kg	

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
BH 1	D22	5910	4	3.04	17.97	72	(AVE)
2-1	"	2290	2	"	6.96	14	
2-2	"	3030	2	"	9.21	18	
3	"	4370	4	"	13.28	53	(AVE)
4-1	D16	3500	4	1.56	5.46	22	
4-2	"	1940	4	"	3.03	12	(AVE)
					SUBTOTAL	191 kg	
H 1	D16	2830	68	1.56	4.41	300	
2	"	3050	60	"	4.76	286	"
3	"	8050	4	"	12.56	50	
					SUBTOTAL	636 kg	
CA 1-1	D22	9710	262	3.04	29.52	7734	
1-2	"	11730	131	"	35.66	4671	
2-1	"	3830	696	"	11.64	8101	
2-2	"	2250	696	"	6.84	4761	"
3-1	"	8500	348	"	25.84	8992	(AVE)
3-2	"	4000	348	"	12.16	4232	"
4	"	9000	150	"	27.36	4104	
					SUBTOTAL	42595 kg	
CB 1-1	D22	9760	14	3.04	29.67	415	
1-2	"	11760	7	"	35.75	250	
2-1	"	3850	32	"	11.70	374	
2-2	"	2270	32	"	6.90	221	"
3-1	"	8530	16	"	25.93	415	(AVE)
3-2	"	4000	16	"	12.16	195	"
4	"	9010	8	"	27.39	219	
					SUBTOTAL	2089 kg	
	SD345		D32		8476 kg		
			D22		58785 "		
			D16		2359 "		
			TOTAL		69620 kg		

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

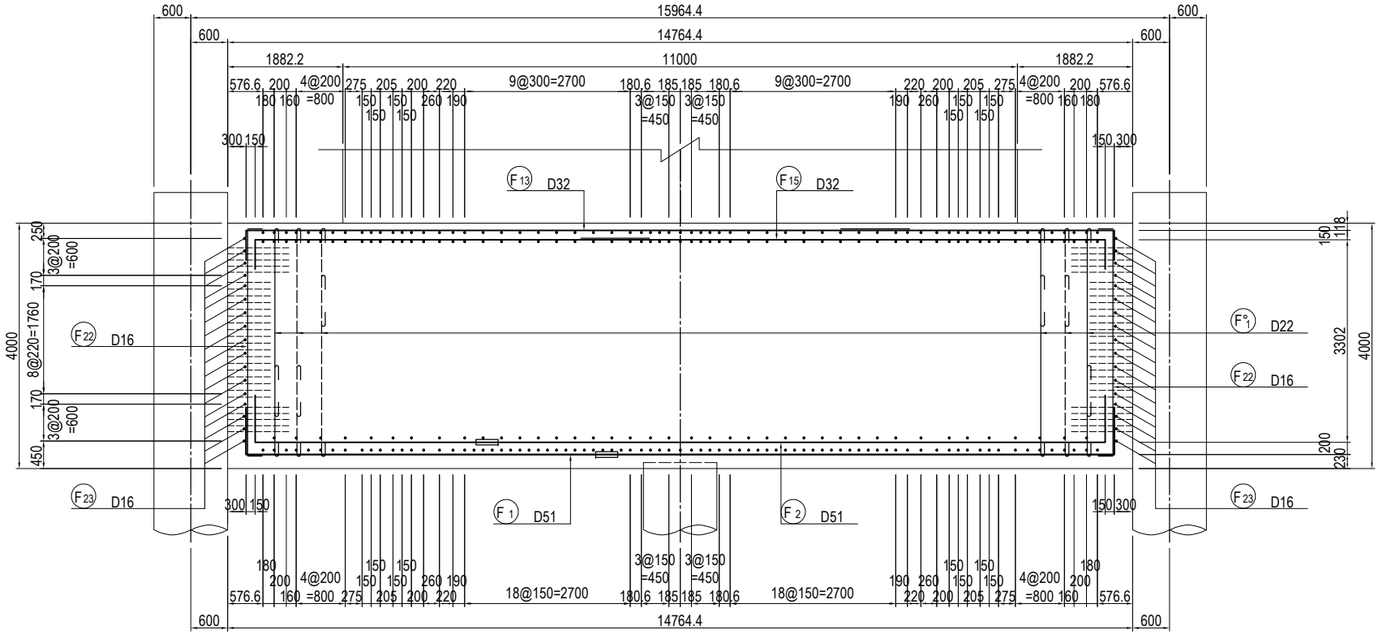
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

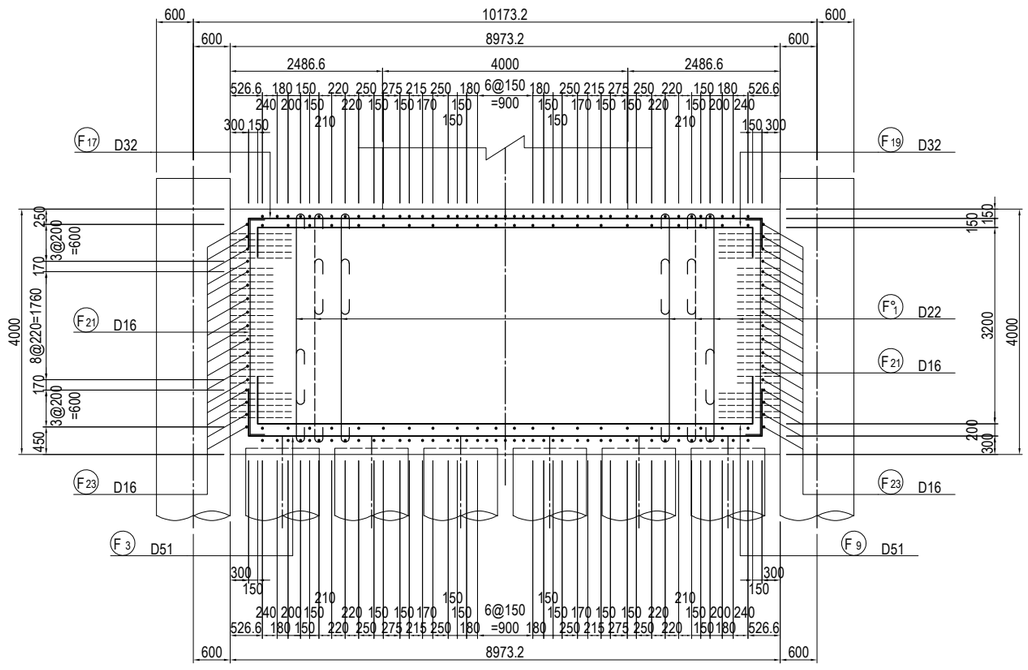
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P18 PIER (15)	2
	DWG No.
	P2-SB-2417

BAR ARRANGEMENT OF P18 FOOTING (1) S=1:100

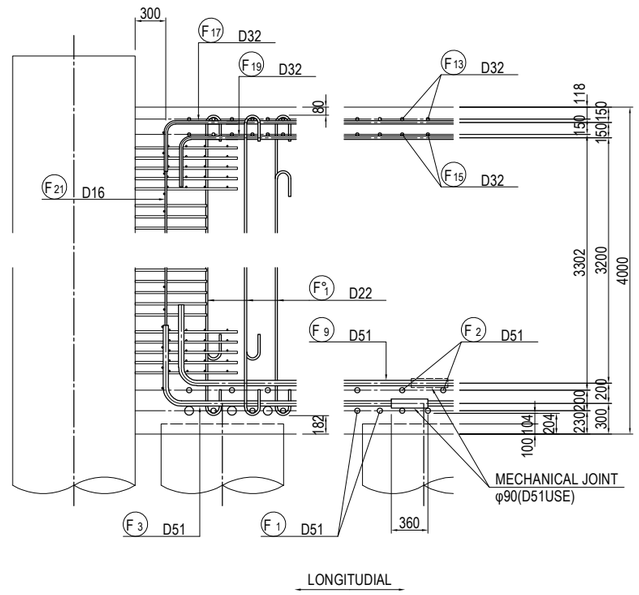
SECTION 1 - 1



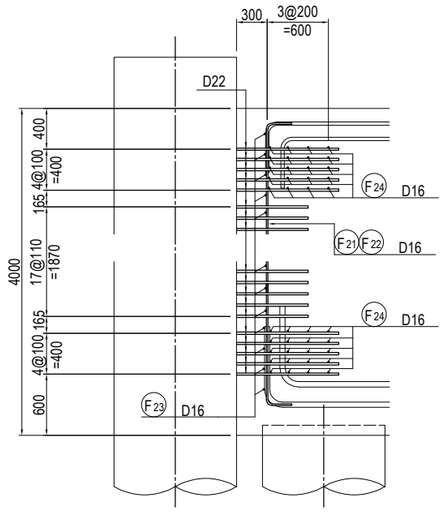
SECTION 2 - 2



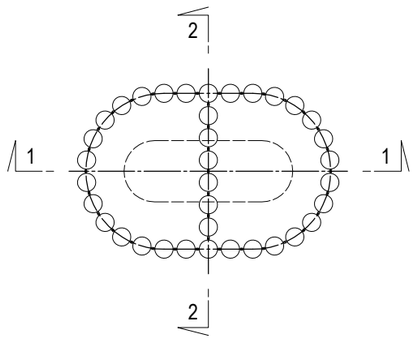
DETAIL OF PILE CAP S=1:60



DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:60



MARKING DIAGRAM



Note) : MECHANICAL JOINT

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

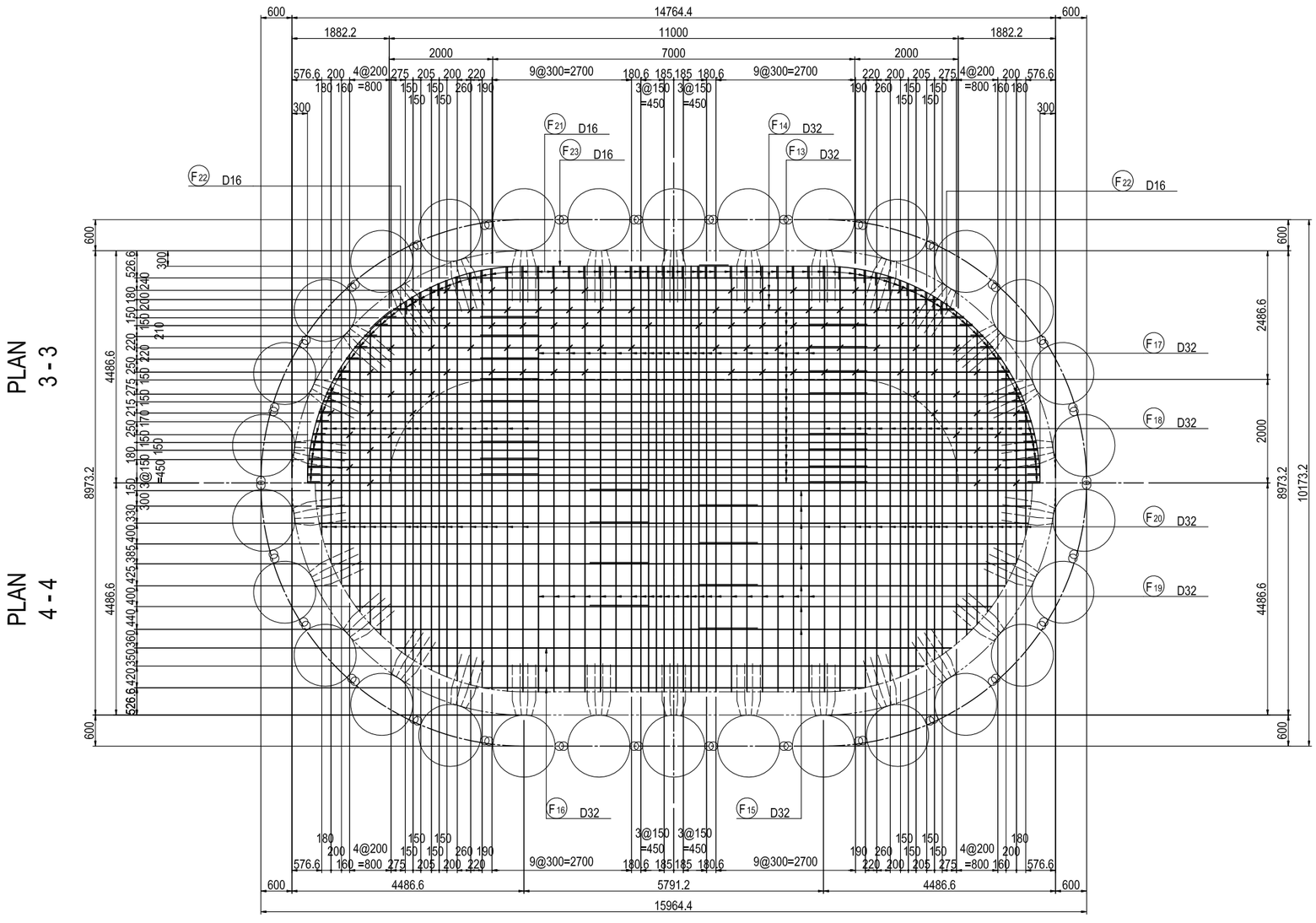
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P18 FOOTING (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2418

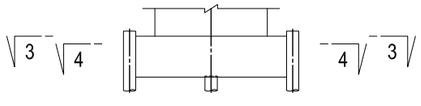
BAR ARRANGEMENT OF P18 FOOTING (2) S=1:100

PLAN 3 - 3

PLAN 4 - 4



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

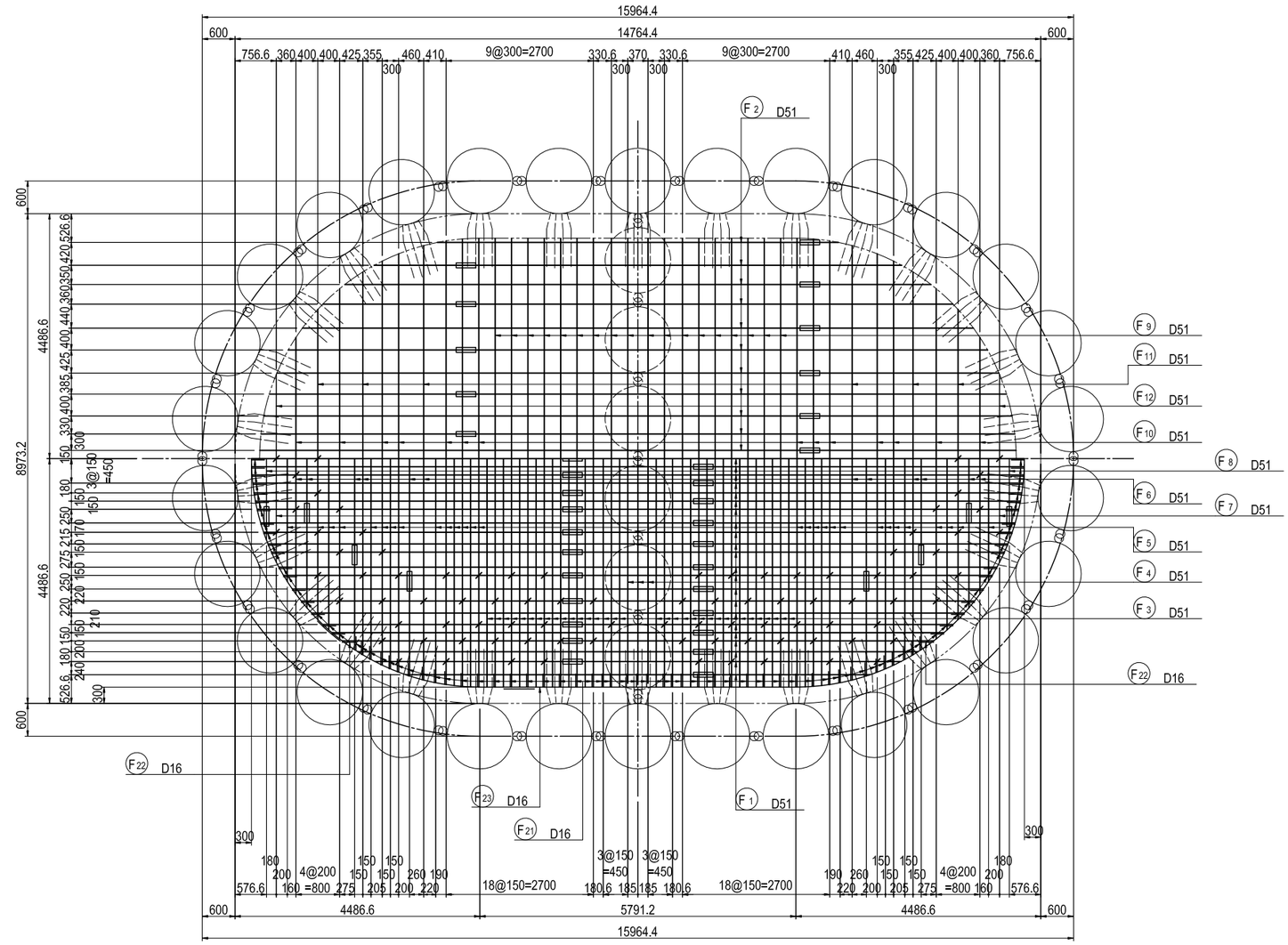
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P18 FOOTING (2)	2
	DWG No.
	P2-SB-2419

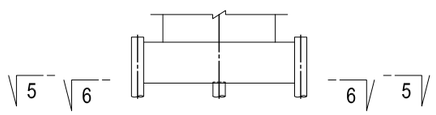
BAR ARRANGEMENT OF P18 FOOTING (3) S=1:100

PLAN 5 - 5

PLAN 6 - 6



MARKING DIAGRAM



Note: ⊣⊢ : MECHANICAL JOINT

USE MATERIALS

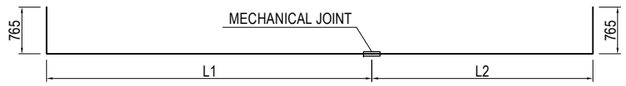
	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P18 FOOTING (3)	2
	DWG No.
	P2-SB-2420

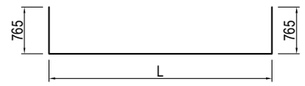
BAR ARRANGEMENT OF P18 FOOTING (4) S=1:100



(F1)-1 43 – D51 × 8270 (AVE)

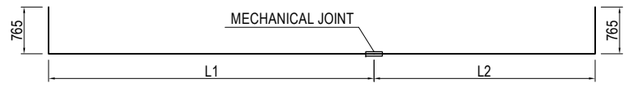
(F1)-2 43 – D51 × 5870 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F1 -1 1	D51	1	8282	9047	F1 -2 1	D51	1	5882	6647
2	〃	2	8280	9045	2	〃	2	5880	6645
3	〃	2	8271	9036	3	〃	2	5871	6636
4	〃	2	8258	9023	4	〃	2	5858	6623
5	〃	2	8235	9000	5	〃	2	5835	6600
6	〃	2	8209	8974	6	〃	2	5809	6574
7	〃	2	8178	8943	7	〃	2	5778	6543
8	〃	2	8112	8877	8	〃	2	5712	6477
9	〃	2	8059	8824	9	〃	2	5659	6424
10	〃	2	7979	8744	10	〃	2	5579	6344
11	〃	2	7915	8680	11	〃	2	5515	6280
12	〃	2	7779	8544	12	〃	2	5379	6144
13	〃	2	7694	8459	13	〃	2	5294	6059
14	〃	2	7533	8298	14	〃	2	5133	5898
15	〃	2	7369	8134	15	〃	2	4969	5734
16	〃	2	7181	7946	16	〃	2	4781	5546
17	〃	2	6974	7739	17	〃	2	4574	5339
18	〃	2	6807	7572	18	〃	2	4407	5172
19	〃	2	6620	7385	19	〃	2	4220	4985
20	〃	2	6331	7096	20	〃	2	3931	4696
21	〃	2	6016	6781	21	〃	2	3616	4381
22	〃	2	5454	6219	22	〃	2	3054	3819
AVE		43		8272	AVE		43		5872



(F5) 28 – D51 × 8930 (AVE)

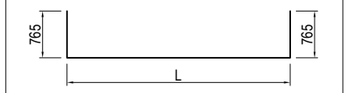
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F5 1	D51	2	8373	9903
2	〃	2	8366	9896
3	〃	2	8349	9879
4	〃	2	8320	9850
5	〃	2	8281	9811
6	〃	2	8215	9745
7	〃	2	7825	9355
8	〃	2	7704	9234
9	〃	2	7569	9099
10	〃	2	7361	8891
11	〃	2	6610	8140
12	〃	2	6278	7808
13	〃	2	5901	7431
14	〃	2	4502	6032
AVE		28		8934



(F2)-1 22 – D51 × 9940 (AVE)

(F2)-2 22 – D51 × 3640 (AVE)

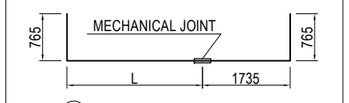
MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F2 -1 1	D51	2	10079	10844	F2 -2 1	D51	2	3779	4544
2	〃	2	10057	10822	2	〃	2	3757	4522
3	〃	2	10006	10771	3	〃	2	3706	4471
4	〃	2	9906	10671	4	〃	2	3606	4371
5	〃	2	9766	10531	5	〃	2	3466	4231
6	〃	2	9558	10323	6	〃	2	3258	4023
7	〃	2	9299	10064	7	〃	2	2999	3764
8	〃	2	8924	9689	8	〃	2	2624	3389
9	〃	2	8519	9284	9	〃	2	2219	2984
10	〃	2	7985	8750	10	〃	2	1685	2450
11	〃	2	6828	7593	11	〃	2	528	1293
AVE		22		9940	AVE		22		3640



(F10) 14 – D51 × 8600 (AVE)

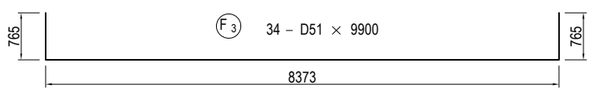
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F10 1	D51	2	8073	9603
2	〃	2	8048	9578
3	〃	2	7977	9507
4	〃	2	7503	9033
5	〃	2	7236	8766
6	〃	2	6226	7756
7	〃	2	4444	5974
AVE		14		8602

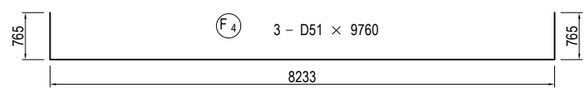
(F11)-2 6 – D51 × 2500

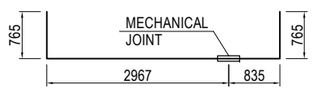


(F11)-1 6 – D51 × 5730 (AVE)

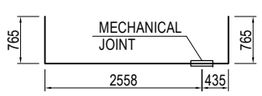
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F11 -1 1	D51	2	6071	6836
2	〃	2	5104	5869
3	〃	2	3732	4497
AVE		6		5734



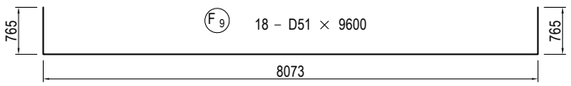


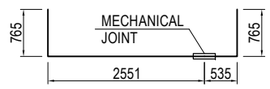


(F7)-1 2 – D51 × 3730 (F7)-2 2 – D51 × 1600



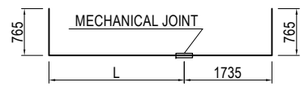
(F8)-1 2 – D51 × 3320 (F8)-2 2 – D51 × 1200





(F12)-1 2 – D51 × 3320 (F12)-2 2 – D51 × 1300

(F6)-2 12 – D51 × 2500



(F6)-1 12 – D51 × 5820 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F6 -1 1	D51	2	6381	7146
2	〃	2	6231	6996
3	〃	2	5456	6221
4	〃	2	5268	6033
5	〃	2	3734	4499
6	〃	2	3233	3998
AVE		12		5816

USE MATERIALS

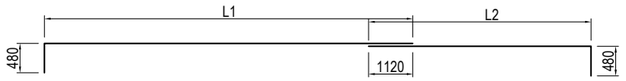
	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

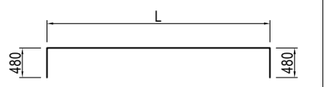
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P18 FOOTING (4)	2
	DWG No.
	P2-SB-2421

BAR ARRANGEMENT OF P18 FOOTING (5) S=1:100



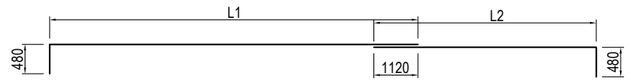
F13-1 35 – D32 × 10850 (AVE)　　F13-2 35 – D32 × 4490 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F13-1 1	D32	1	10822	11302	F13-2 1	D32	1	4462	4942
2	〃	2	10820	11300	2	〃	2	4460	4940
3	〃	2	10811	11291	3	〃	2	4451	4931
4	〃	2	10798	11278	4	〃	2	4438	4918
5	〃	2	10775	11255	5	〃	2	4415	4895
6	〃	2	10749	11229	6	〃	2	4389	4869
7	〃	2	10718	11198	7	〃	2	4358	4838
8	〃	2	10652	11132	8	〃	2	4292	4772
9	〃	2	10599	11079	9	〃	2	4239	4719
10	〃	2	10519	10999	10	〃	2	4159	4639
11	〃	2	10455	10935	11	〃	2	4095	4575
12	〃	2	10319	10799	12	〃	2	3959	4439
13	〃	2	10234	10714	13	〃	2	3874	4354
14	〃	2	10073	10553	14	〃	2	3713	4193
15	〃	2	9909	10389	15	〃	2	3549	4029
16	〃	2	9721	10201	16	〃	2	3361	3841
17	〃	2	9514	9994	17	〃	2	3154	3634
18	〃	2	9347	9827	18	〃	2	2987	3467
AVE		35		10847	AVE		35		4487



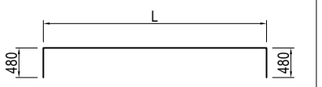
F18 40 – D32 × 7680 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F18 1	D32	2	8373	9333
2	〃	2	8349	9309
3	〃	2	8281	9241
4	〃	2	8215	9175
5	〃	2	8116	9076
6	〃	2	7966	8926
7	〃	2	7825	8785
8	〃	2	7704	8664
9	〃	2	7569	8529
10	〃	2	7361	8321
11	〃	2	7191	8151
12	〃	2	7003	7963
13	〃	2	6610	7570
14	〃	2	6278	7238
15	〃	2	5901	6861
16	〃	2	5469	6429
17	〃	2	4968	5928
18	〃	2	4502	5462
19	〃	2	3802	4762
20	〃	2	2993	3953
AVE		20		7684



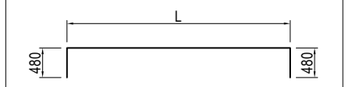
F15-1 16 – D32 × 8650 (AVE)　　F15-2 16 – D32 × 6530 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F15-1 1	D32	2	8549	9029	F15-2 1	D32	2	6429	6909
2	〃	2	8527	9007	2	〃	2	6407	6887
3	〃	2	8476	8956	3	〃	2	6356	6836
4	〃	2	8376	8856	4	〃	2	6256	6736
5	〃	2	8236	8716	5	〃	2	6116	6596
6	〃	2	8028	8508	6	〃	2	5908	6388
7	〃	2	7769	8249	7	〃	2	5649	6129
8	〃	2	7394	7874	8	〃	2	5274	5754
AVE		16		8649	AVE		16		6529



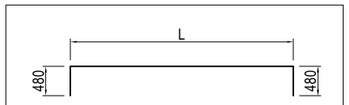
F16 6 – D32 × 10220 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F16 1	D32	2	10738	11698
2	〃	2	9671	10631
3	〃	2	7356	8316
AVE		6		10215



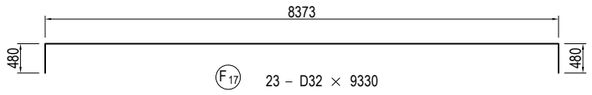
F20 40 – D32 × 7270 (AVE)

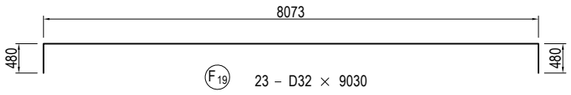
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F20 1	D32	2	8073	9033
2	〃	2	8048	9008
3	〃	2	7977	8937
4	〃	2	7909	8869
5	〃	2	7806	8766
6	〃	2	7650	8610
7	〃	2	7503	8463
8	〃	2	7377	8337
9	〃	2	7236	8196
10	〃	2	7018	7978
11	〃	2	6839	7799
12	〃	2	6641	7601
13	〃	2	6226	7186
14	〃	2	5872	6832
15	〃	2	5467	6427
16	〃	2	4998	5958
17	〃	2	4444	5404
18	〃	2	3916	4876
19	〃	2	3086	4046
20	〃	2	2006	2966
AVE		40		7265

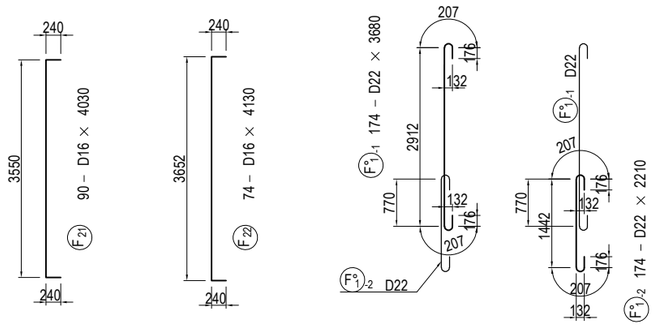


F14 8 – D32 × 10770 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F14 1	D32	2	10840	11800
2	〃	2	10262	11222
3	〃	2	9633	10593
4	〃	2	8509	9469
AVE		8		10771







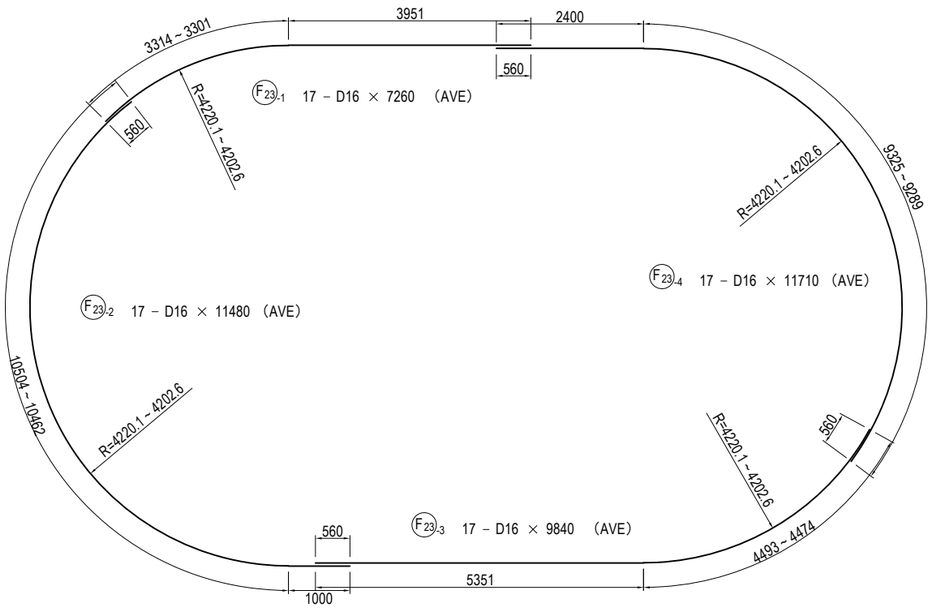
USE MATERIALS

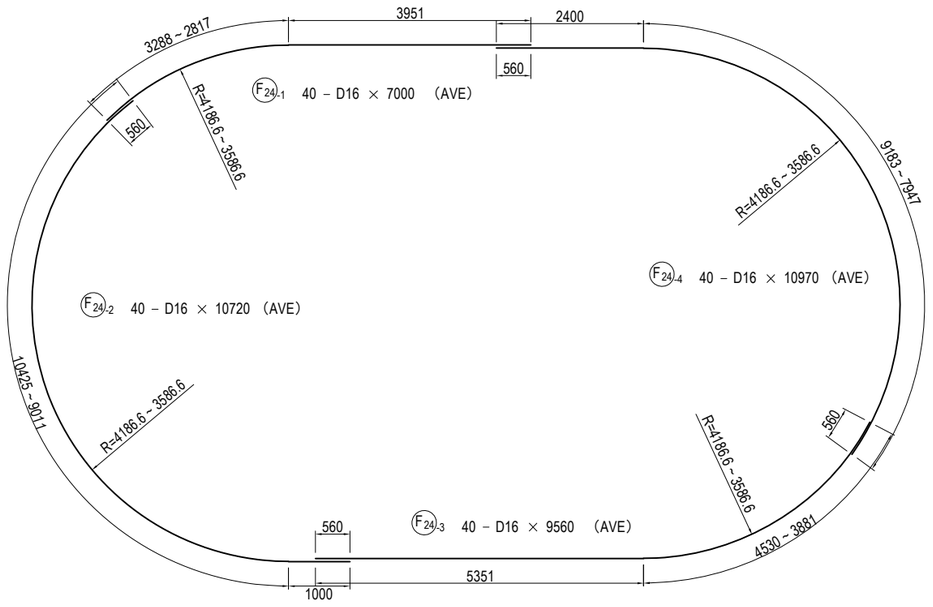
	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P18 FOOTING (5)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2422

BAR ARRANGEMENT OF P18 FOOTING (6) S=1:100





Note） The joint position of the reinfocing bar is rotated 180 degrees for each step arranged.

BAR SCHEDULE

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
F 1-1	D51	8270	43	15.9	131.49	5654	(43) (AVE)
1-2	"	5870	43	"	93.33	4013	(AVE)
2-1	"	9940	22	"	158.05	3477	(22) (AVE)
2-2	"	3640	22	"	57.88	1273	(AVE)
3	"	9900	34	"	157.41	5352	
4	"	9760	3	"	155.18	466	"
5	"	8930	28	"	141.99	3976	" (AVE)
6-1	"	5820	12	"	92.54	1110	(12) (AVE)
6-2	"	2500	12	"	39.75	477	
7-1	"	3730	2	"	59.31	119	(2)
7-2	"	1600	2	"	25.44	51	
8-1	"	3320	2	"	52.79	106	(2)
8-2	"	1200	2	"	19.08	38	
9	"	9600	18	"	152.64	2748	
10	"	8600	14	"	136.74	1914	" (AVE)
11-1	"	5730	6	"	91.11	547	(6) (AVE)
11-2	"	2500	6	"	39.75	239	
12-1	"	3320	2	"	52.79	106	(2)
12-2	"	1300	2	"	20.67	41	
13-1	D32	10850	35	6.23	67.60	2366	(AVE)
13-2	"	4490	35	"	27.97	979	(AVE)
14	"	10770	8	"	67.10	537	(AVE)
15-1	"	8650	16	"	53.89	862	(AVE)
15-2	"	6530	16	"	40.68	651	(AVE)
16	"	10220	6	"	63.67	382	(AVE)
17	"	9330	23	"	58.13	1337	"
18	"	7680	40	"	47.85	1914	" (AVE)
19	"	9030	23	"	56.26	1294	"
20	"	7270	40	"	45.29	1812	" (AVE)
21	D16	4030	90	1.56	6.29	566	
22	"	4130	74	"	6.44	477	"
23-1	"	7260	17	"	11.33	193	(AVE)
23-2	"	11480	17	"	17.91	304	(AVE)
23-3	"	9840	17	"	15.35	261	(AVE)
23-4	"	11710	17	"	18.27	311	(AVE)
24-1	"	7000	40	"	10.92	437	(AVE)
24-2	"	10720	40	"	16.72	669	(AVE)
24-3	"	9560	40	"	14.91	596	(AVE)
24-4	"	10970	40	"	17.11	684	(AVE)
					SUBTOTAL	48339 kg	
F° 1-1	D22	3680	174	3.04	11.19	1947	
1-2	"	2210	174	"	6.72	1169	"
					SUBTOTAL	3116 kg	

			(MECHANICAL JOINT)
	D51	31707 kg	(89)
	D32	12134 "	
	D22	3116 "	
	D16	4498 "	
	TOTAL	51455 kg	(89)

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm 2	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

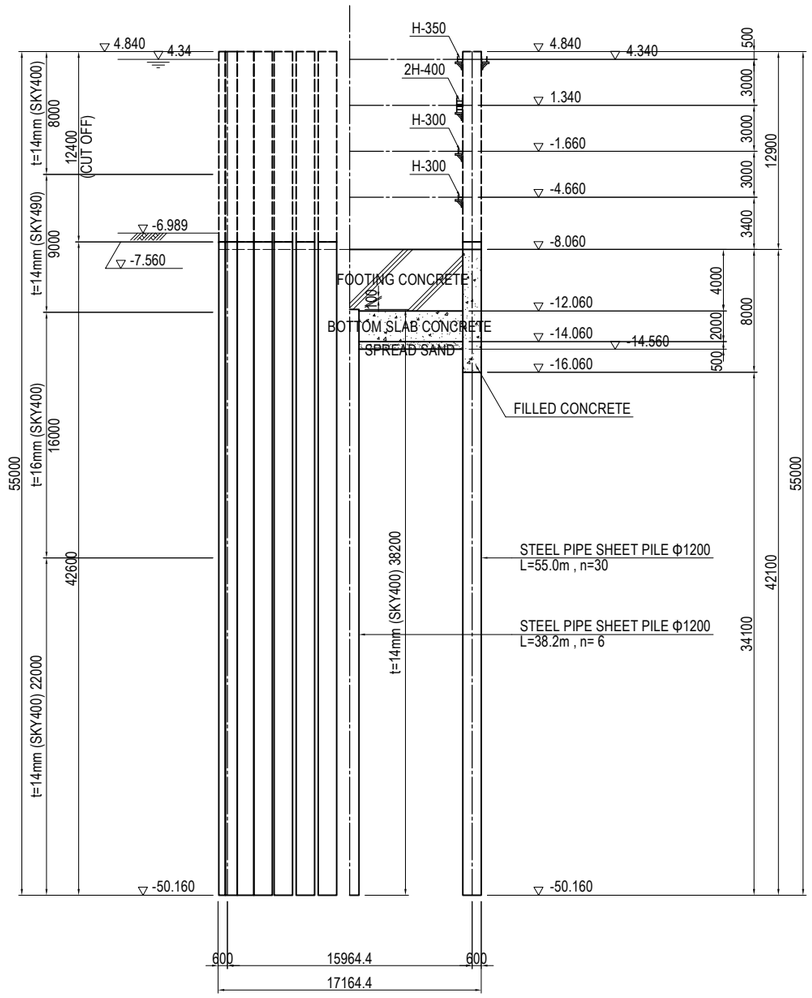
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P18 FOOTING (6)	2
	DWG No.
	P2-SB-2423

GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P18 PIER

S=1:400

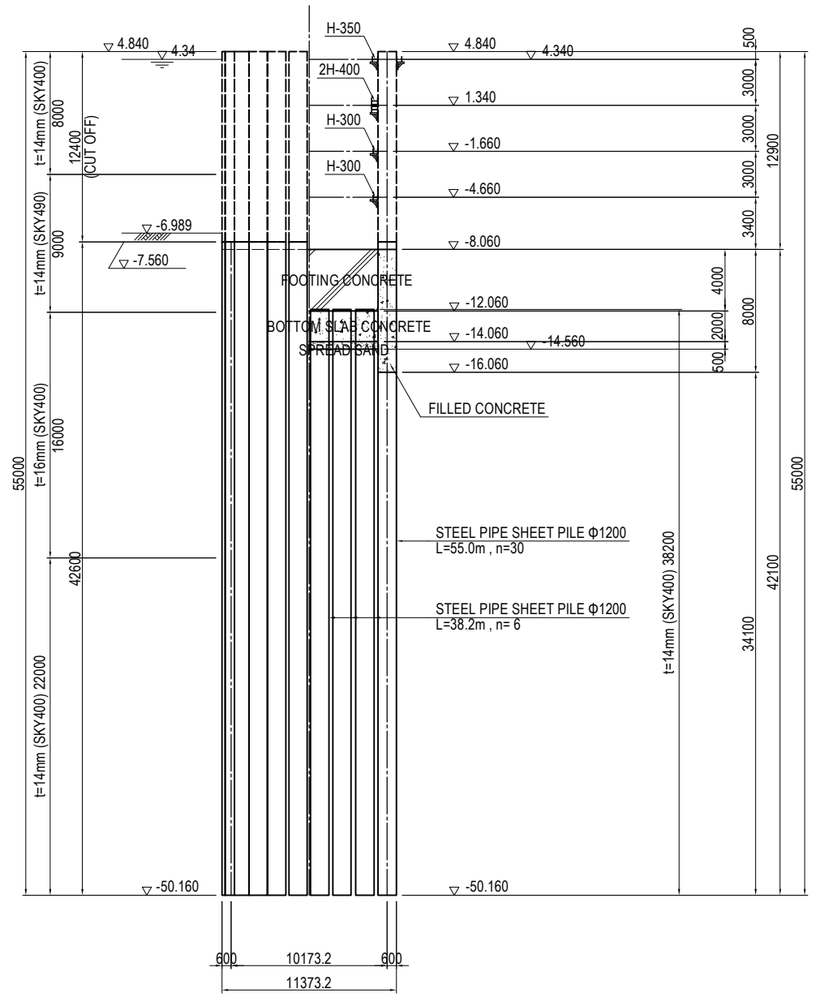
FRONT ELEVATION

1 - 1　　2 - 2

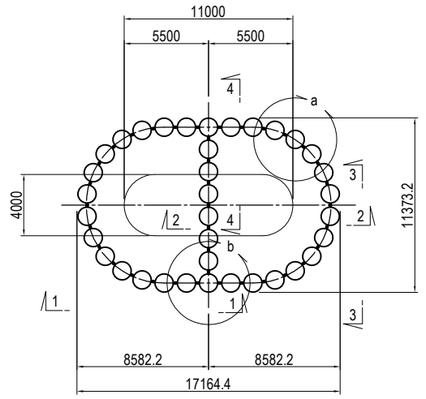


SIDE ELEVATION

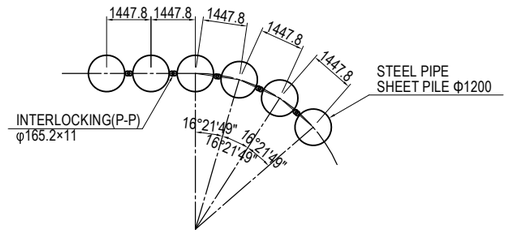
3 - 3　　4 - 4



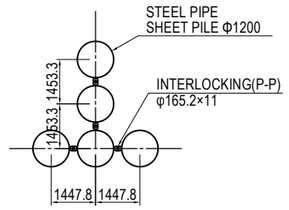
PLAN



DETAIL a　S=1:200



DETAIL b　S=1:200



USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

Note: Temporary support can be used for reference only.

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

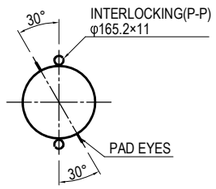
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P18 PIER	2
	DWG No.
	P2-SB-2424

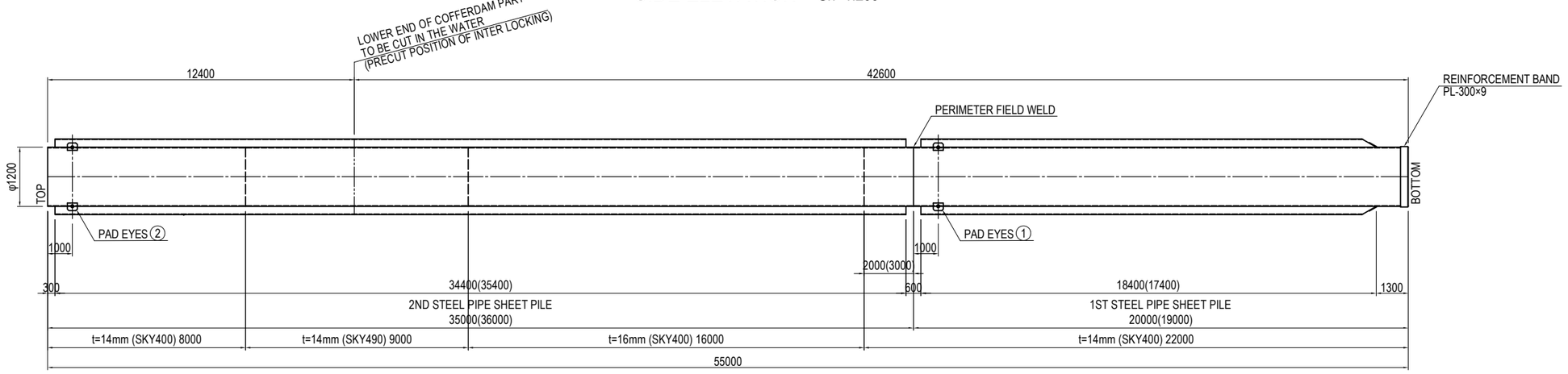
DETAIL OF STEEL PIPE SHEET PILE OF P18 PIER (1)

CROSS SECTION S=1:200

TYPE A
(TYPE B)

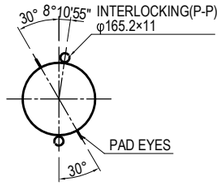


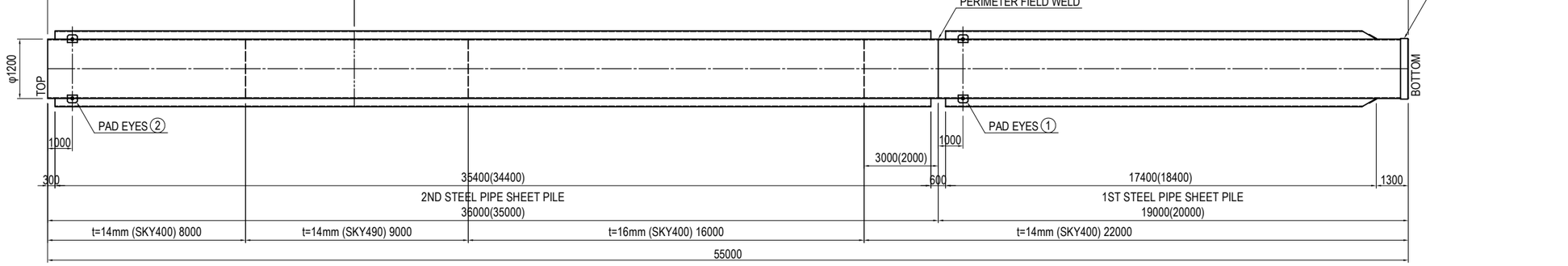
SIDE ELEVATION Sv=1:100 Sh=1:200



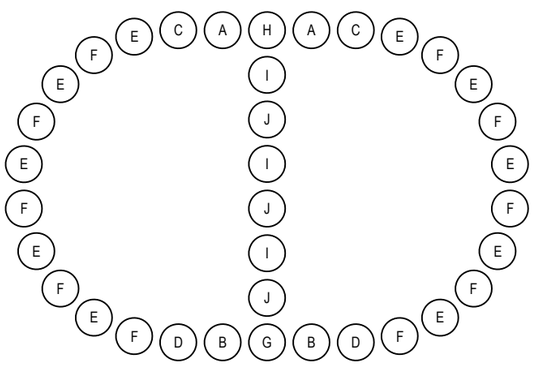
CROSS SECTION S=1:200

TYPE C
(TYPE D)



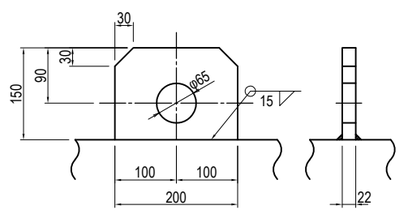


STEEL PIPE SHEET PILE TYPE AND POSITION

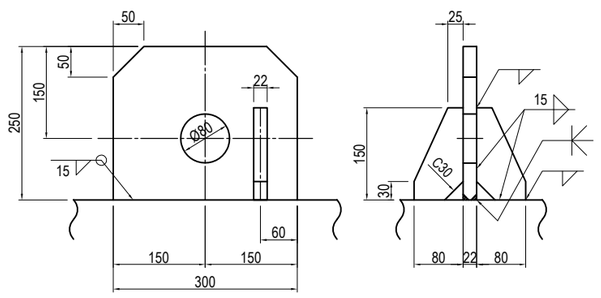


DETAIL OF EYES S=1:10

PAD EYES ① PL-200x150x22(SM490A)



PAD EYES ② PL-300x250x22(SM490A)



Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

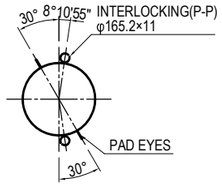
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF STEEL PIPE SHEET PILE OF P18 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2425

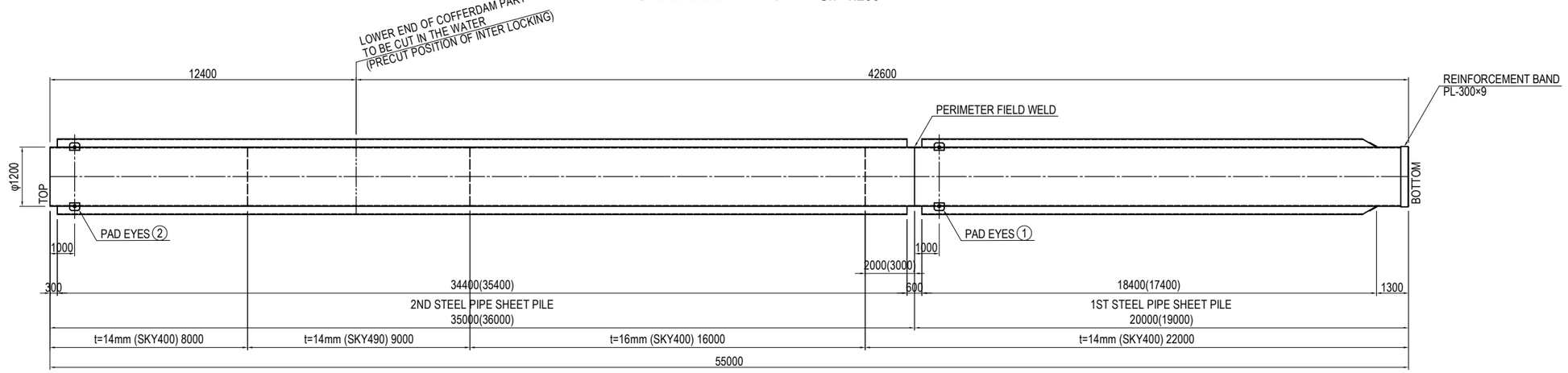
DETAIL OF STEEL PIPE SHEET PILE OF P18 PIER (2)

CROSS SECTION S=1:200

TYPE E
(TYPE F)

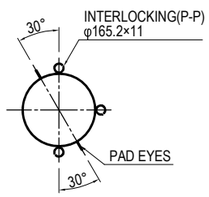


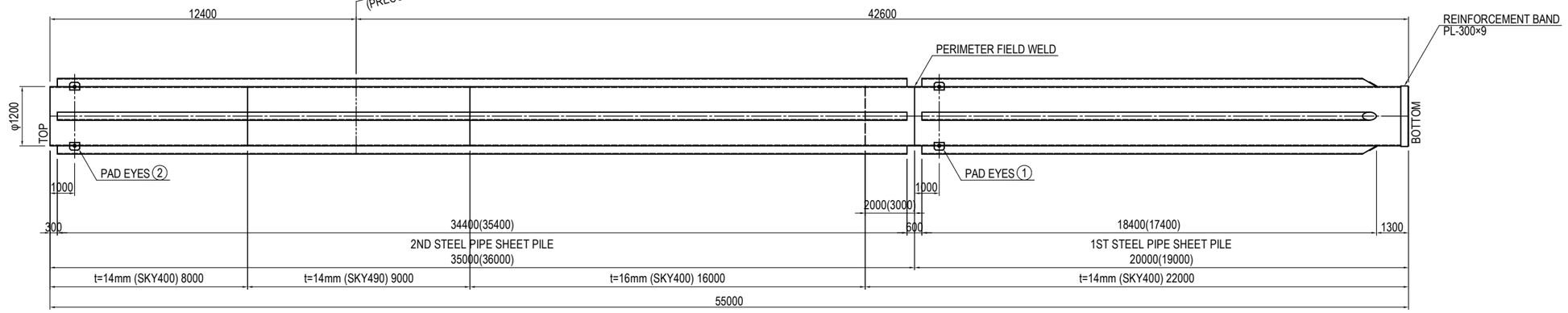
SIDE ELEVATION Sv=1:100 Sh=1:200



CROSS SECTION S=1:200

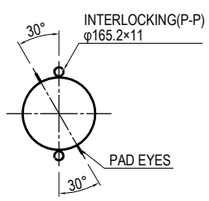
TYPE G
(TYPE H)

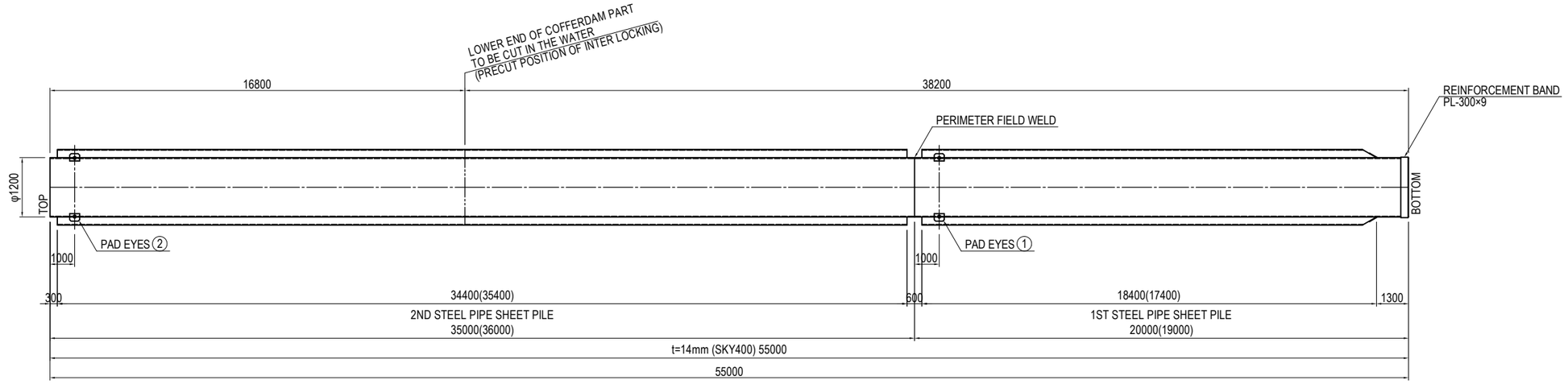




CROSS SECTION S=1:200

TYPE I
(TYPE J)





Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

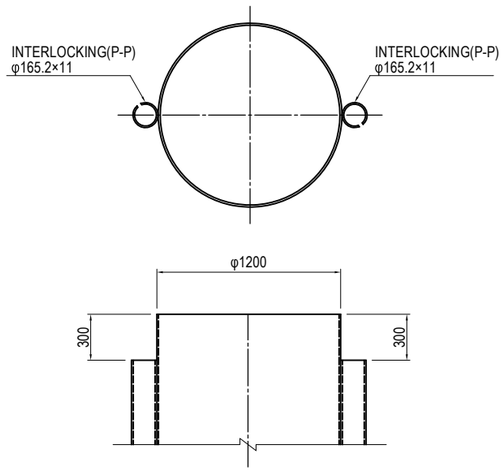
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

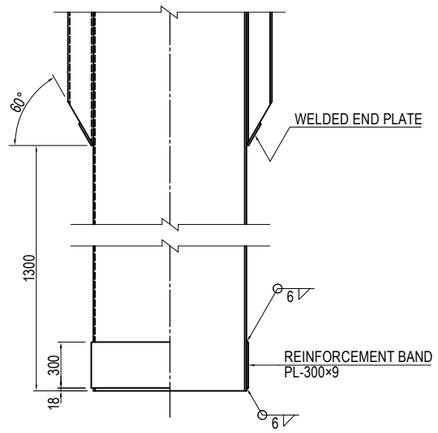
DRAWING TITLE	PACKAGE
DETAIL OF STEEL PIPE SHEET PILE OF P18 PIER (2)	2
	DWG No.
	P2-SB-2426

DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P18 PIER

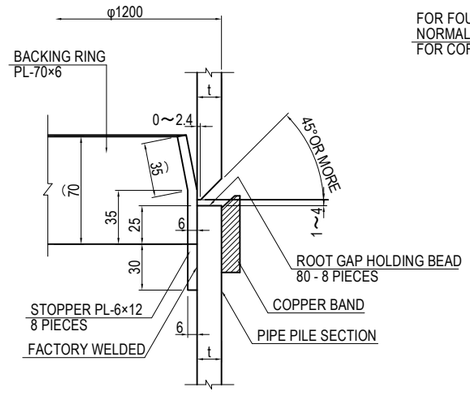
DETAIL OF STEEL PIPE SHEET PILE TOP S=1:40



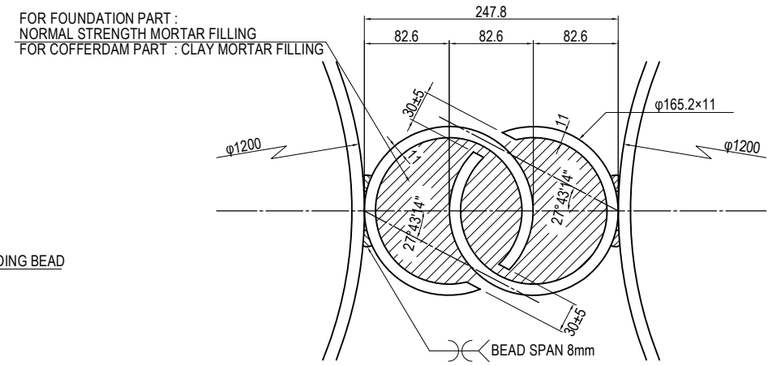
DETAIL OF STEEL PIPE SHEET PILE TOE S=1:40



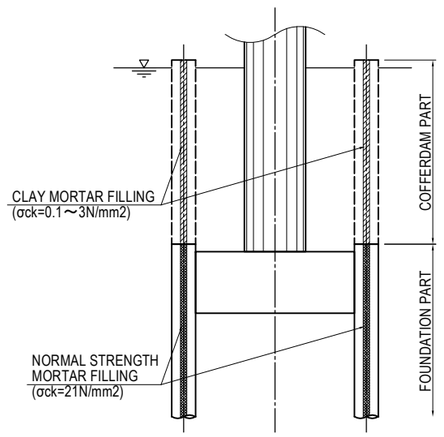
DETAIL OF PERIMETER FIELD WELDING OF STEEL PIPE SHEET PILE S=1:4



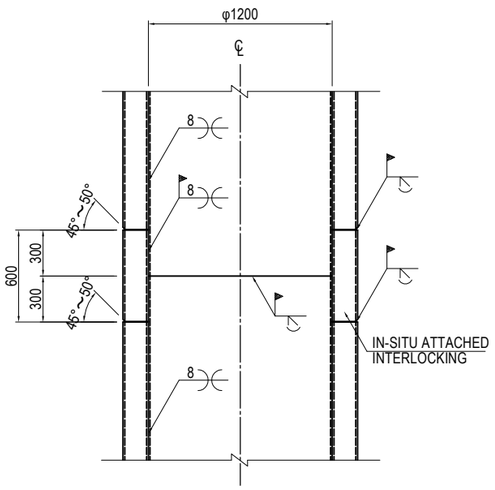
DETAIL OF CONNECTED INTERLOCKING(P-P) S=1:6



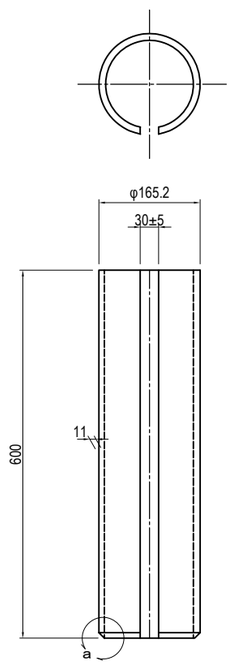
TREATMENT OF STEEL PIPE SHEET PILE INTERLOCKING



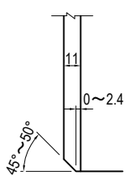
DETAIL OF IN-SITU LONGITUDINAL WELDING PART S=1:40



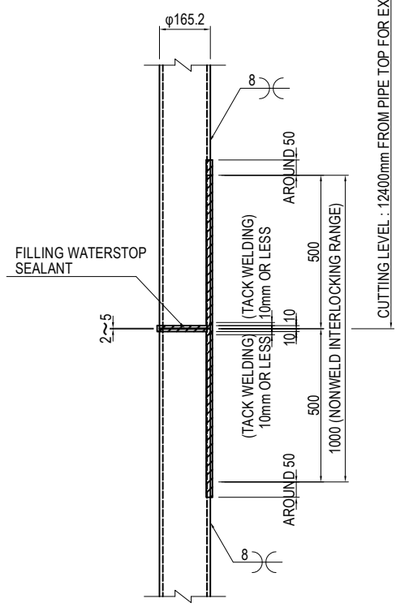
DETAIL OF IN-SITU ATTACHED INTERLOCKING S=1:10



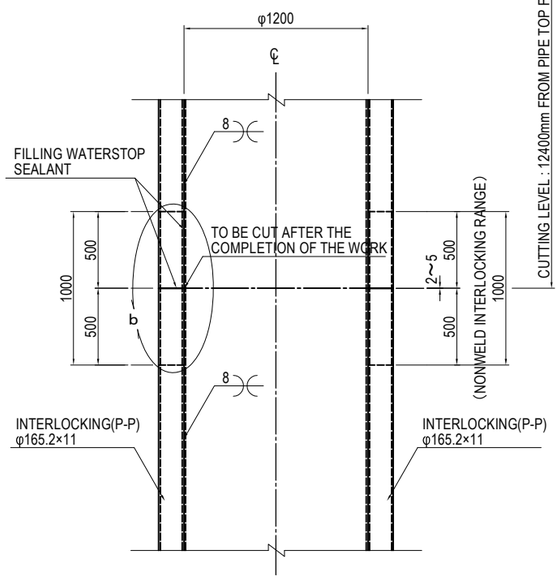
DETAIL a



DETAIL b



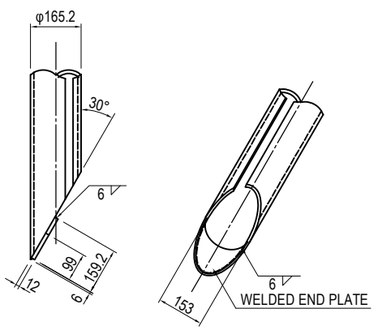
DETAIL OF PRECUT INTERRLOCKING S=1:40



CUTTING LEVEL : 12400mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING

CUTTING LEVEL : 12400mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING

DETAIL OF INTERRLOCKING TOE S=1:20

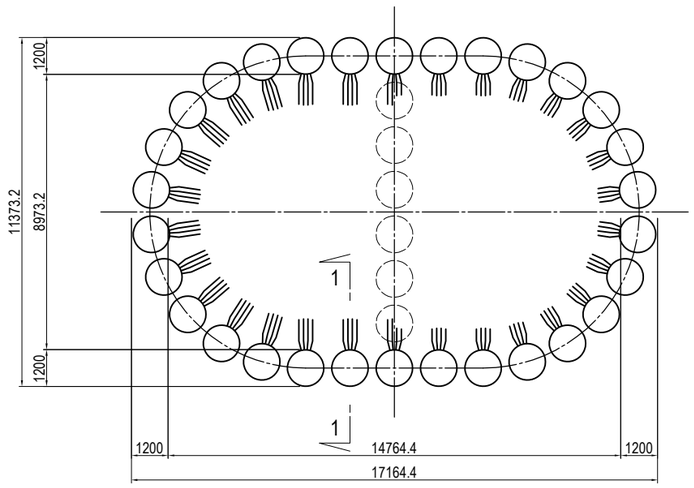


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

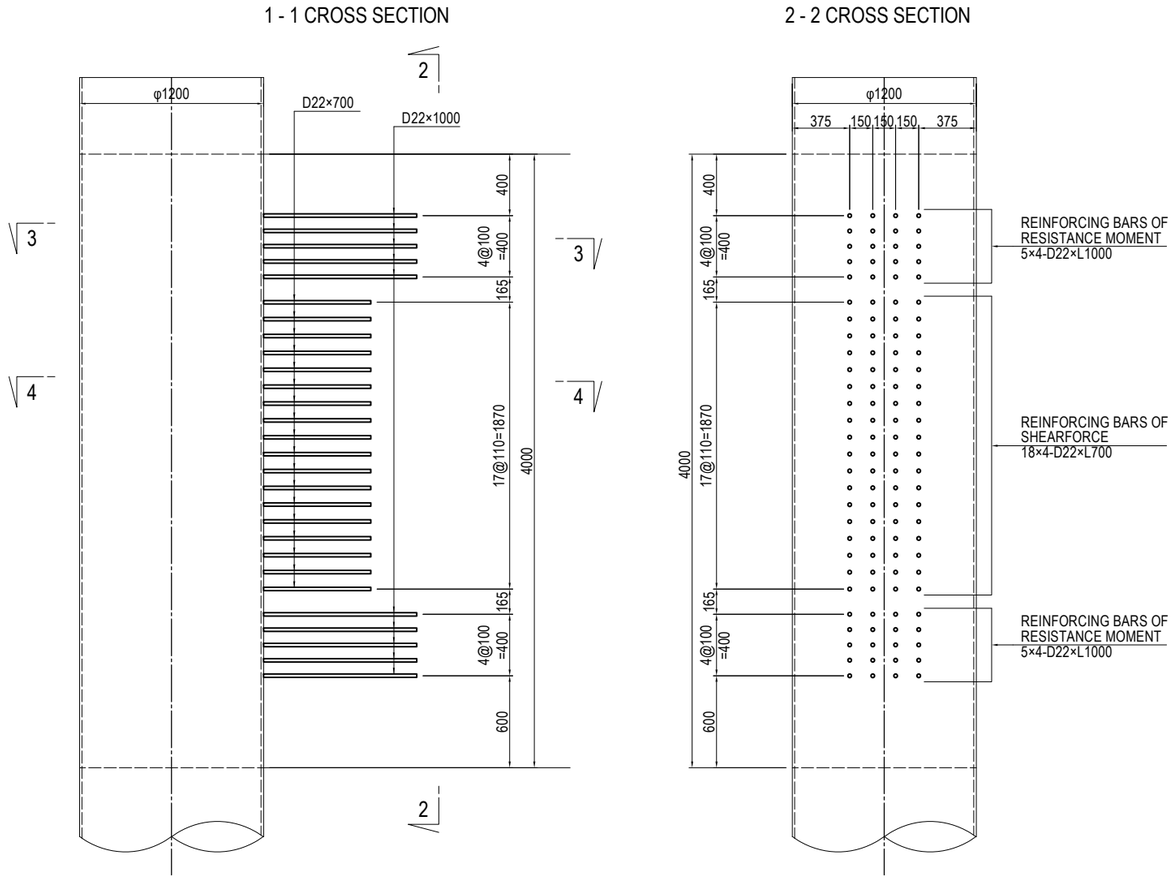
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P18 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2427

DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P18 PIER

PLAN S=1:200

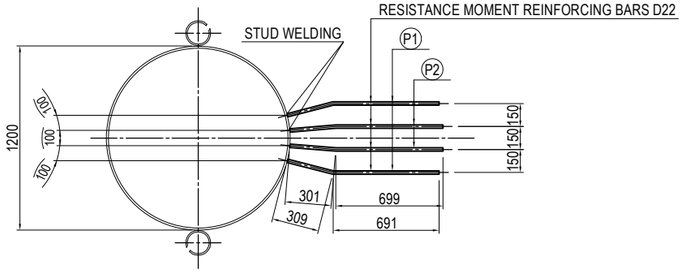


DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:40

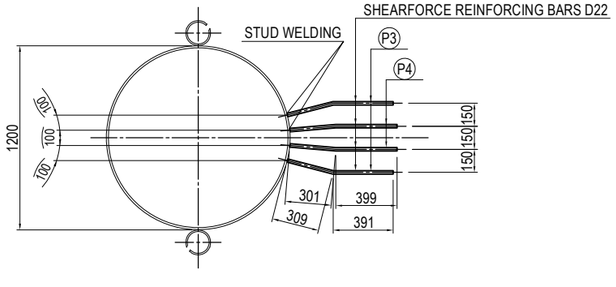


CROSS SECTION OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND REINFORCING BARS S=1:40

3 - 3 CROSS SECTION
(RESISTANCE MOMENT REINFORCING BARS CONNECTION PART)



4 - 4 CROSS SECTION
(SHEARFORCE REINFORCING BARS CONNECTION PART)



FABRICATION OF REINFORCING BARS S=1:40

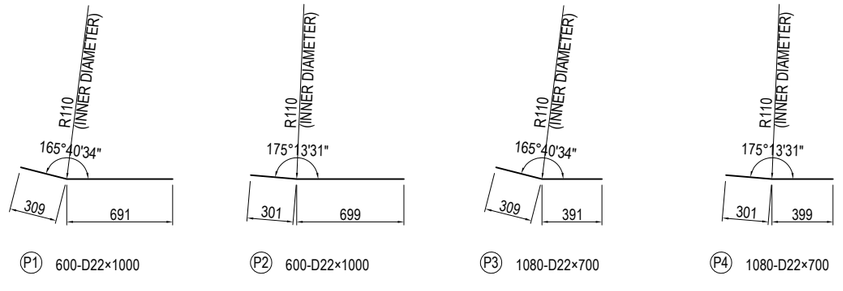


TABLE OF REINFORCING BARS

MARK	TYPE	LENGTH (mm)	PIECES (piece)	UNIT WEIGHT (kg/m)	UNIT WEIGHT (kg/piece)	WEIGHT (kg)	GRADE	MEMO
P1	D22	1000	600	3.04	3.04	1824.0	SD345 for STUD WELDING	
P2	D22	1000	600	3.04	3.04	1824.0	SD345 for STUD WELDING	
P3	D22	700	1080	3.04	2.13	2300.4	SD345 for STUD WELDING	
P4	D22	700	1080	3.04	2.13	2300.4	SD345 for STUD WELDING	
				D22		8248.8	kg	
				TOTAL WEIGHT		8248.8	kg	

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

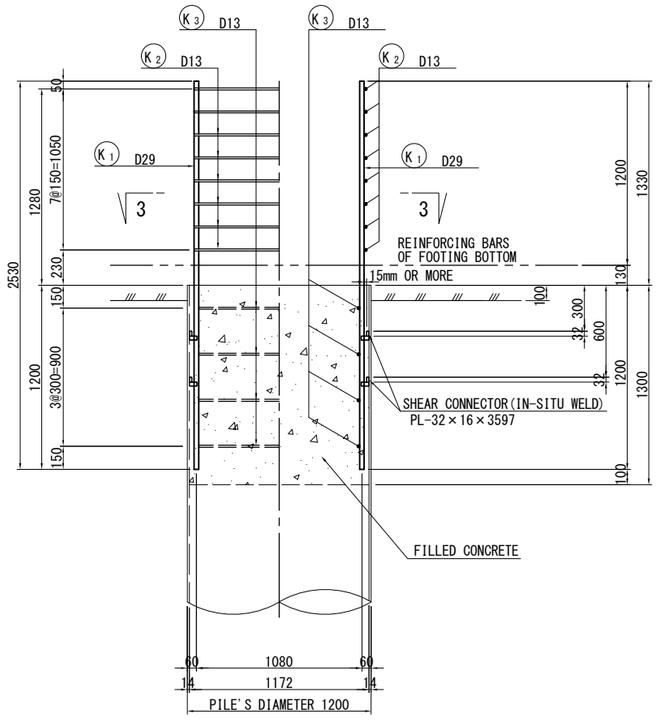
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

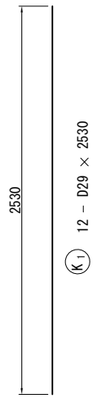
DRAWING TITLE	PACKAGE
DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P18 PIER	2
	DWG No.
	P2-SB-2428

DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P18 PIER S=1:40

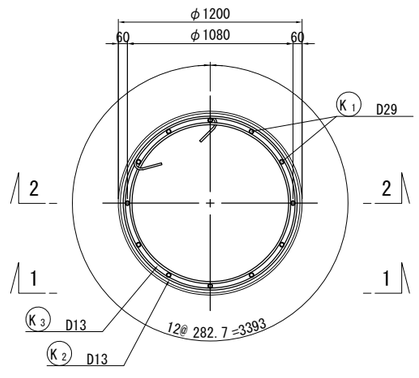
DETAIL OF PILE TOP

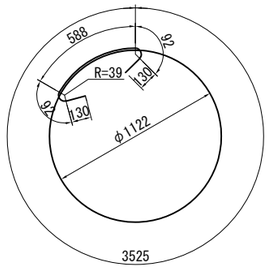
1 - 1　　2 - 2



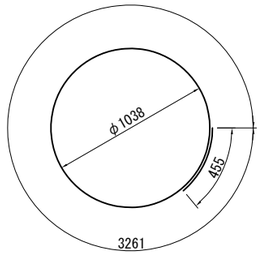


3 - 3





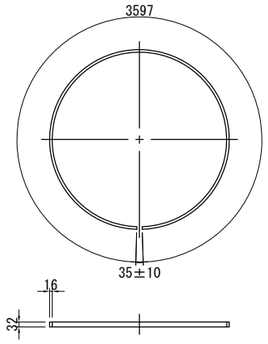
K2　8 - D13 × 4560



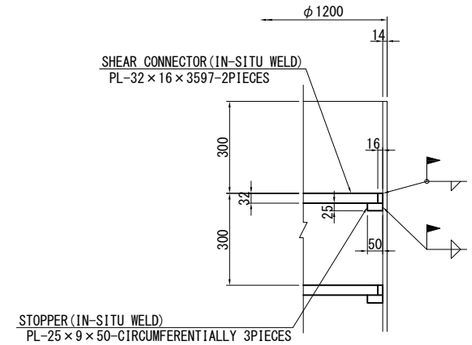
K3　4 - D13 × 3720

DETAIL OF ATTACHMENT OF SHEAR CONNECTOR

CENTER OF LENGTH



SETTING IN THE FIELD S=1:20



MATERIAL LIST

WEIGHT/EA.

MARKS	SECTION SIZE	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	MATERIAL	REMARKS
PILE TOP ACCOMPANYING ITEMS								
PL	PL-32*16	3597	2	4.019	14.456	28.9	SS400	SHEAR CONNECTOR
PL	PL-25*9	50	6	1.766	0.088	0.5	SS400	STOPPER
REINFORCEMENT								
K1	D29	2530	12	5.04	12.75	153	SD345	I
K2	D13	4560	8	0.995	4.54	36.3	SD345	○
K3	D13	3720	4	0.995	3.70	14.8	SD345	○
TOTAL						204		
FILLED CONCRETE　(σck = 24 N/mm^2)								
V = 1/4 × π × 1.172^2 × 1.300　=　1.402 m^3								

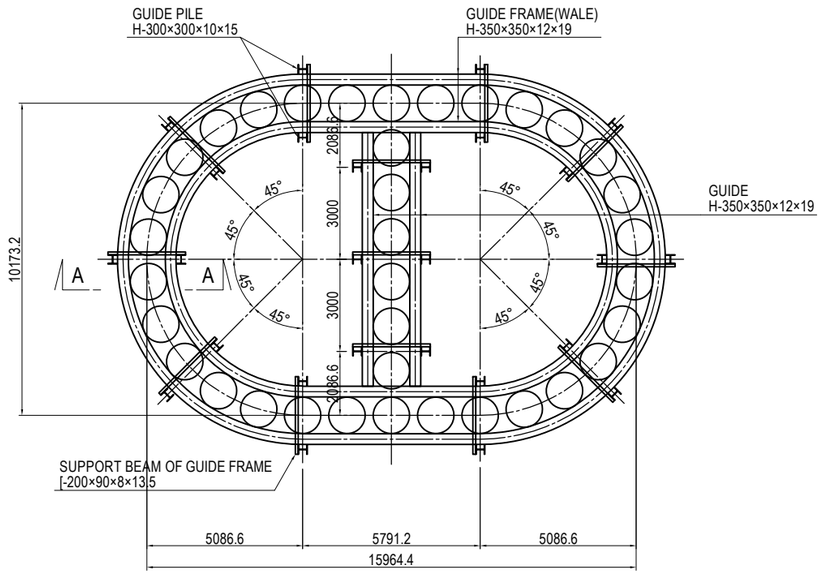
ITEM	DIVISION		UNIT CONTENT	WEIGHT/EA.	QUANTITY
NUMBER OF PILE			Number		6
PILE TOP	SS400	TOTAL	kg	29.4	176.4
REINFORCEMENT	SD345	D29	kg	153	918
		D13	kg	51	307
		TOTAL	kg	204	1225
FILLED CONCRETE	σck = 24 N/mm^2		m^3	1.402	8.4

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

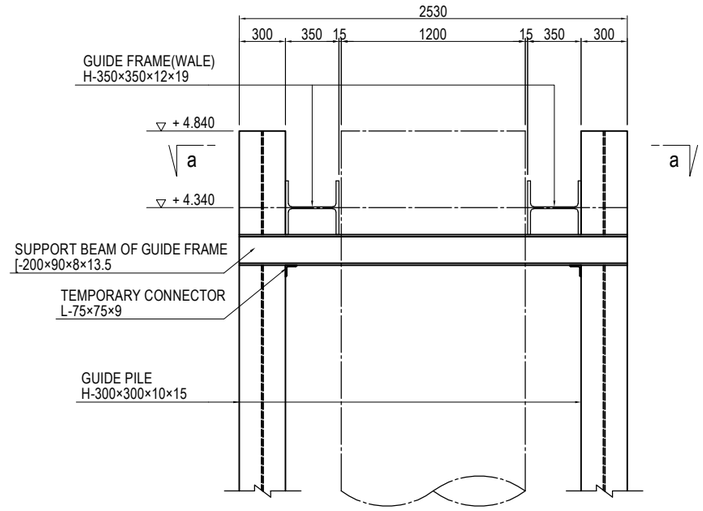
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P18 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2429

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P18 PIER (1)

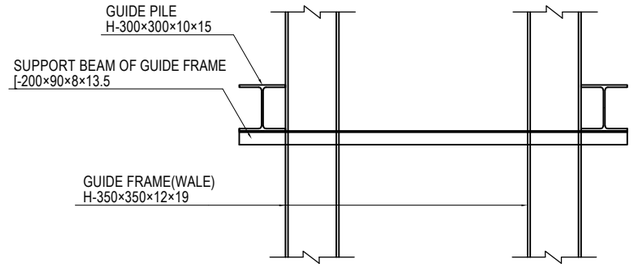
LAYOUT PLAN OF GUIDE FRAMES AND GUIDE PILES S=1:200



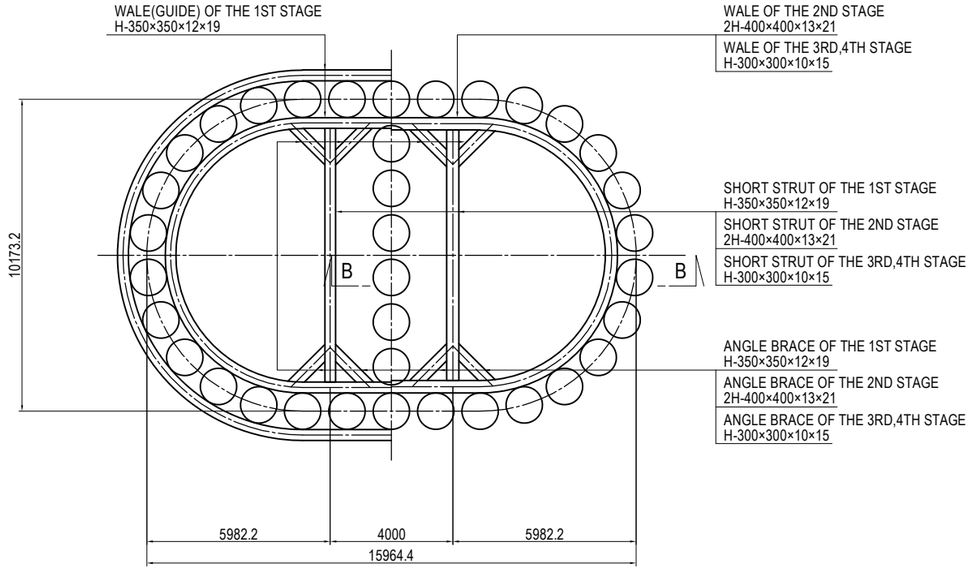
DETAIL OF ATTACHMENT OF GUIDE PILES AND GUIDE FRAMES S=1:40



a - a



LAYOUT PLAN OF STRUTS AND WALES S=1:200

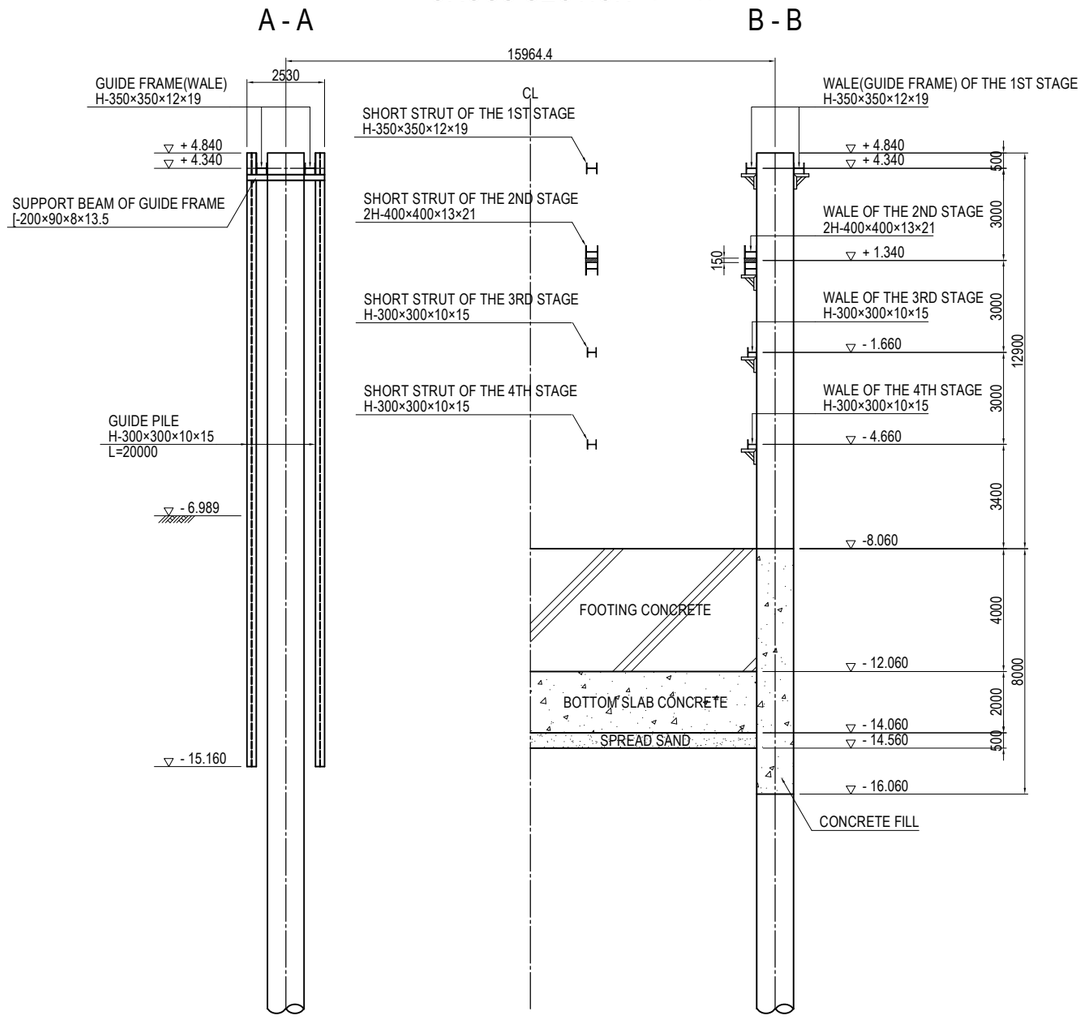


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

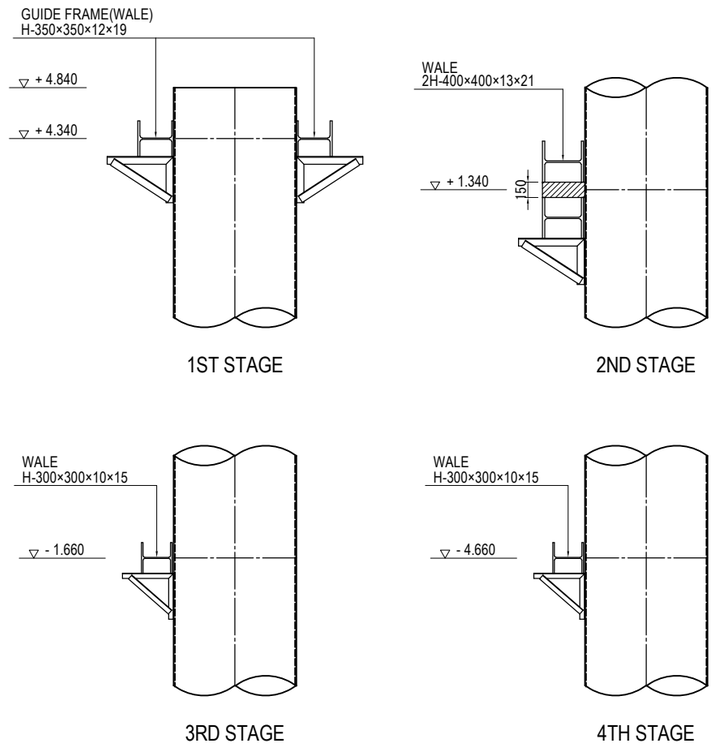
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P18 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2430

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P18 PIER(2)

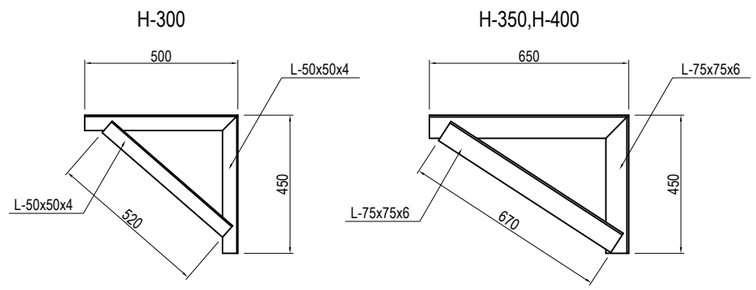
CROSS SECTION S=1:200



DETAIL OF ATTACHMENT OF WALE S=1:60



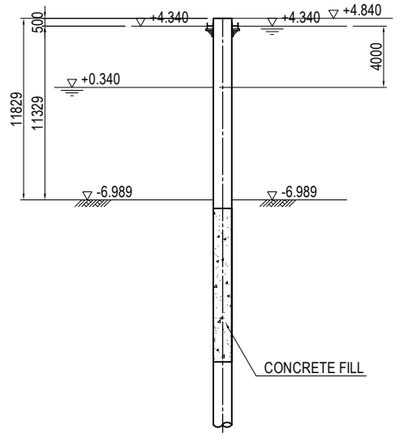
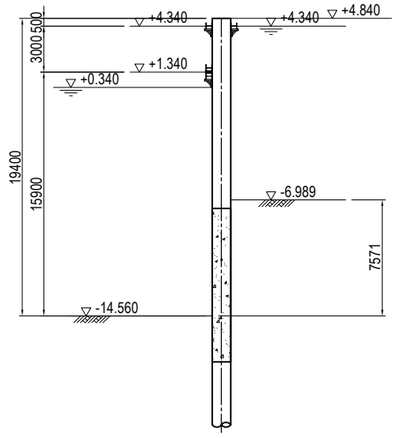
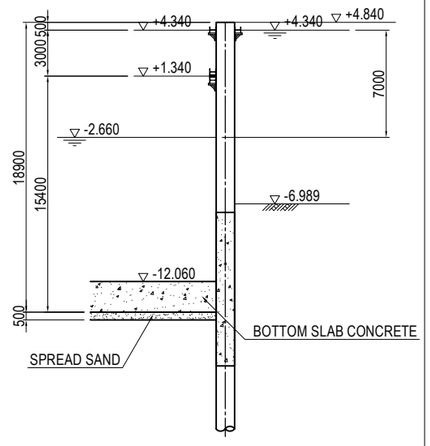
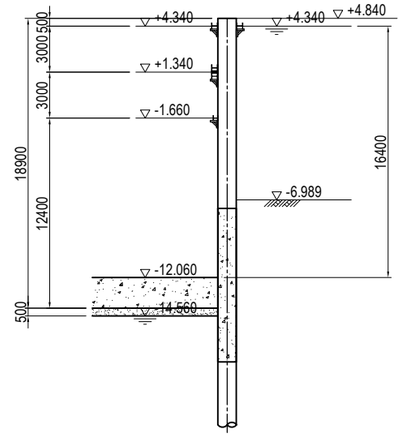
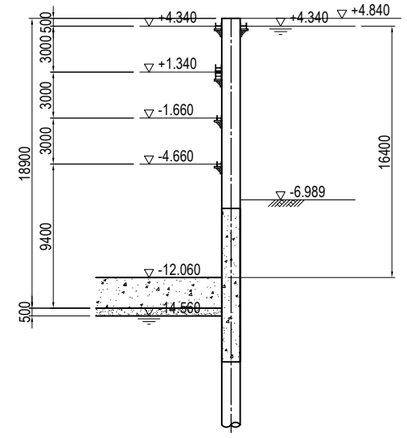
DETAIL OF BRACKET S=1:20

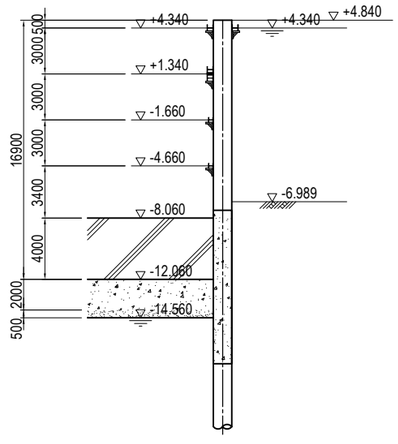


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P18 PIER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2431

(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P18 PIER S=1:400

STEP 1	STEP 2	STEP 3	STEP 4	STEP 5
				
Excavate inside of exterior sheet pilles and filled with concrete as shown. Draining the inside of cofferdam up to +0.340m level. The 1st support Installation.	The 2nd support Installation. Underwater excavation up to -14.560m level.	Draining the inside of cofferdam up to -2.660m level. Placement of spread sand followed by Casting undeawater bottom slab concrete.	The 3rd support Installation. Dry up inside the cofferdam.	The 4th support Installation.

STEP 6

Casting of footing concrete.

Note : This drawing can be used for reference only.

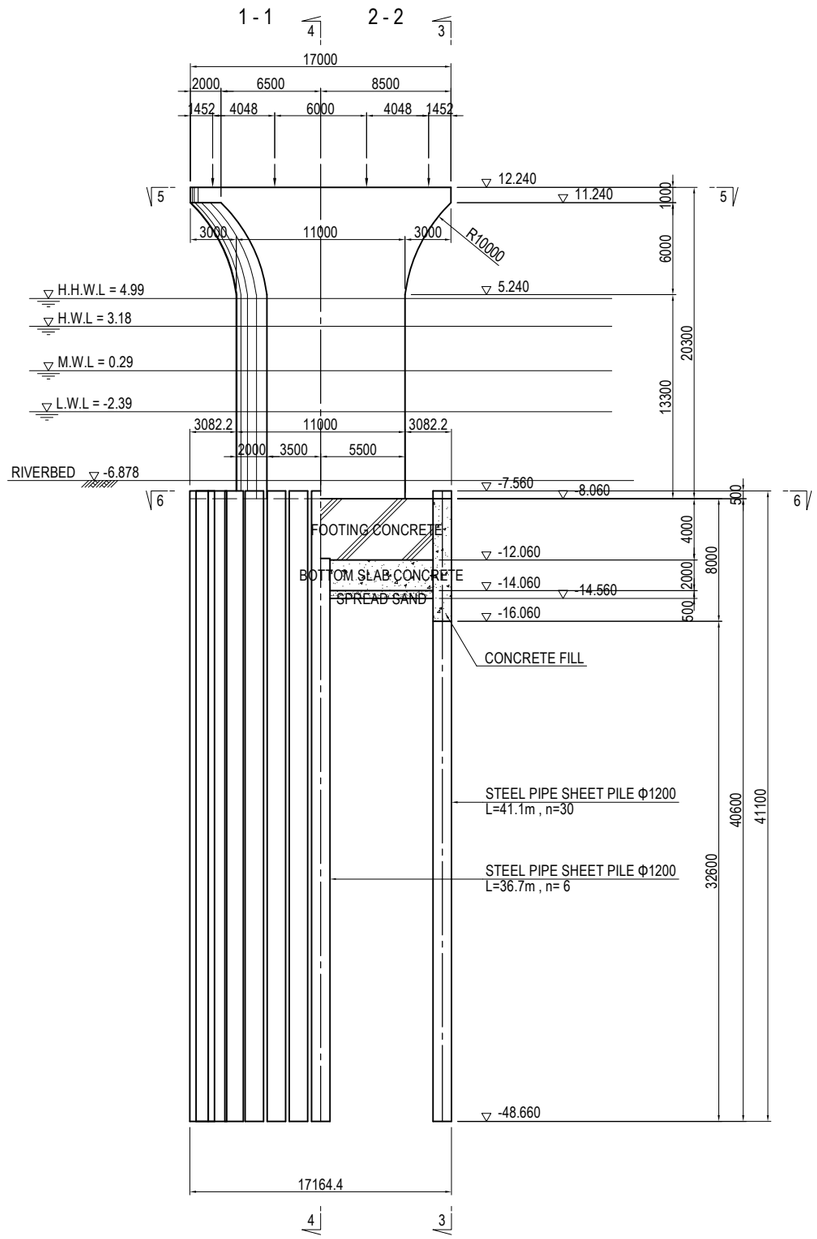
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P18 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2432

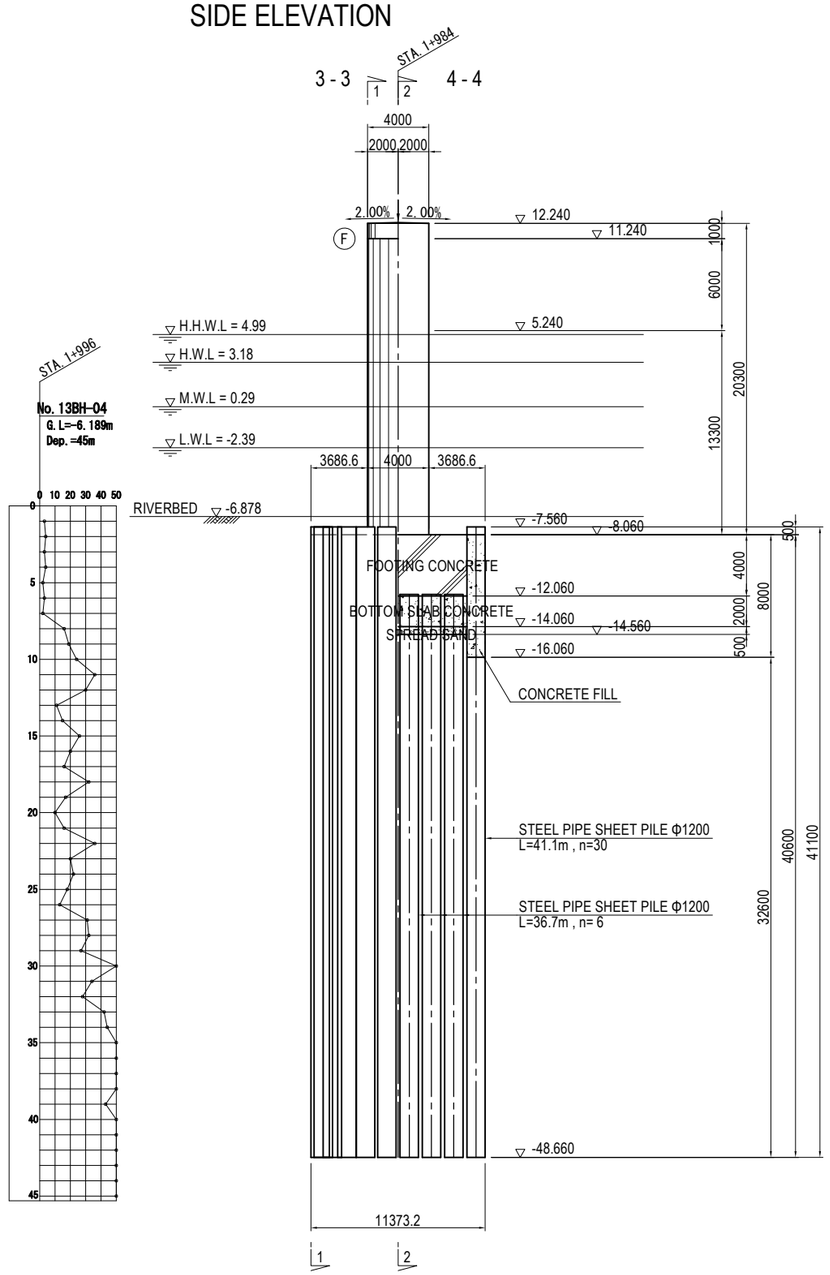
GENERAL VIEW OF P19 PIER (1)

S=1:400

FRONT ELEVATION

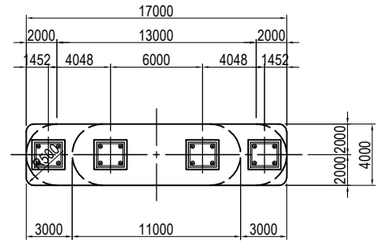


SIDE ELEVATION



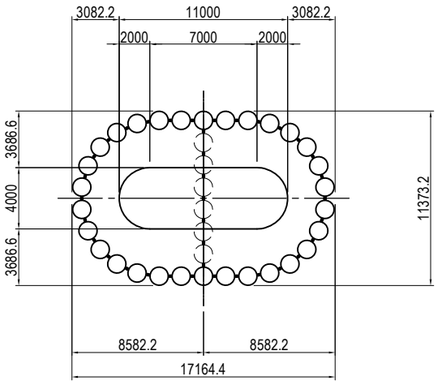
PLAN

5 - 5



PLAN

6 - 6



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm²	SD345
COLUMN	σck = 30 N/mm²	SD390 • SD345
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
GENERAL VIEW OF P19 PIER (1)	2
	DWG No.
	P2-SB-2501

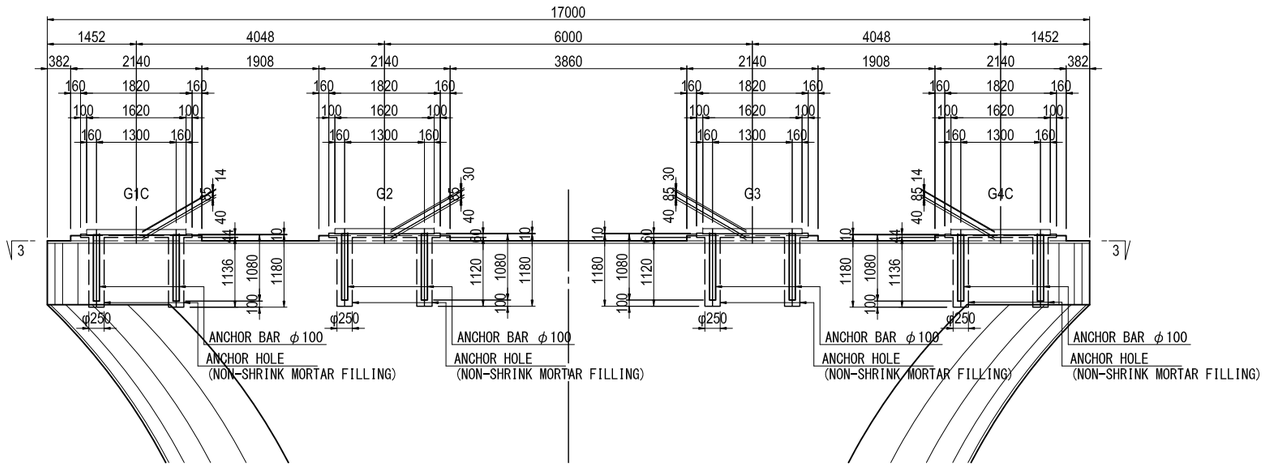
GENERAL VIEW OF P19 PIER (2)

S=1:100

DETAIL OF BEARING AND ANCHOR

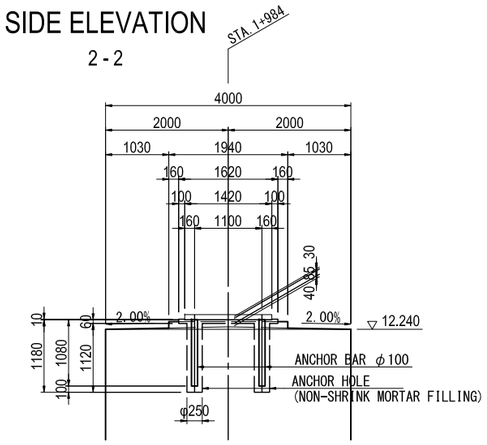
FRONT ELEVATION

1 - 1



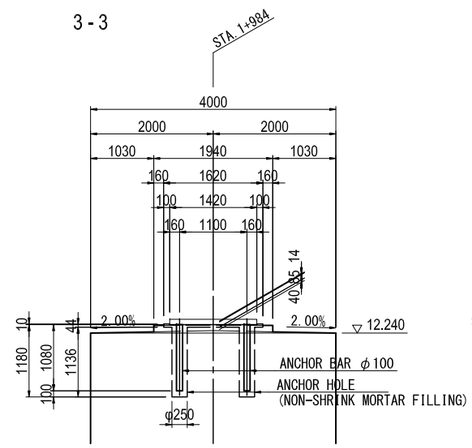
SIDE ELEVATION

2 - 2



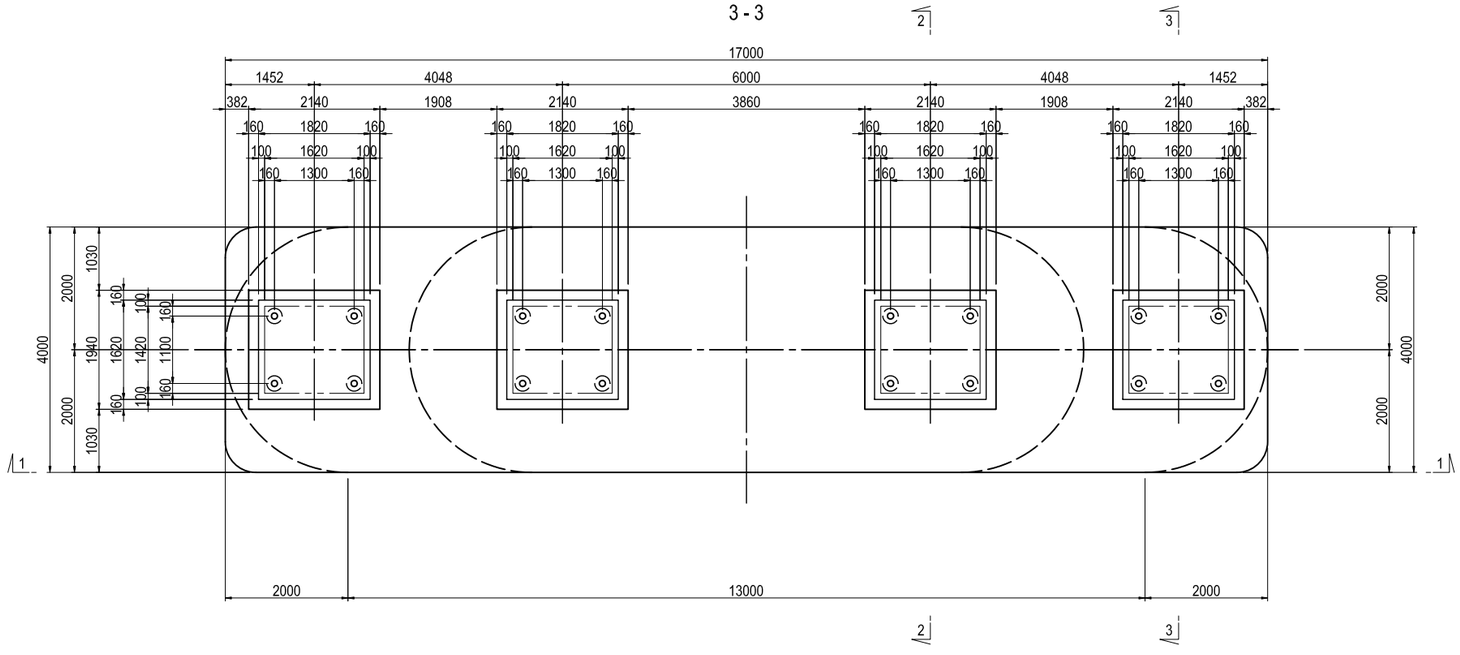
SIDE ELEVATION

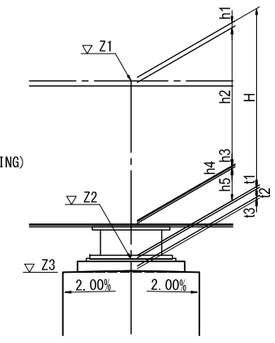
3 - 3



PLAN

3 - 3





		P19 PIER			
		G1C	G2	G3	G4C
PROPOSED HEIGHT	Z1	15.617	15.698	15.698	15.617
PAVEMENT	h1	0.080	0.080	0.080	0.080
GIRDER	h2	2.709	2.790	2.790	2.709
BOTTOM FLANGE	h3	0.050	0.034	0.034	0.050
SOLE PLATE	h4	0.040	0.040	0.040	0.040
BEARING	h5	0.359	0.359	0.359	0.359
SUBTOTAL	H	3.238	3.303	3.303	3.238
ELEVATION OF BEARING BOTTOM	Z2	12.379	12.395	12.395	12.379
MORTAR	t1	0.014	0.030	0.030	0.014
BEARING BASE	t2	0.085	0.085	0.085	0.085
DRAINAGE INCLINE	t3	0.040	0.040	0.040	0.040
ELEVATION OF PIER TOP	Z3	12.240	12.240	12.240	12.240

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

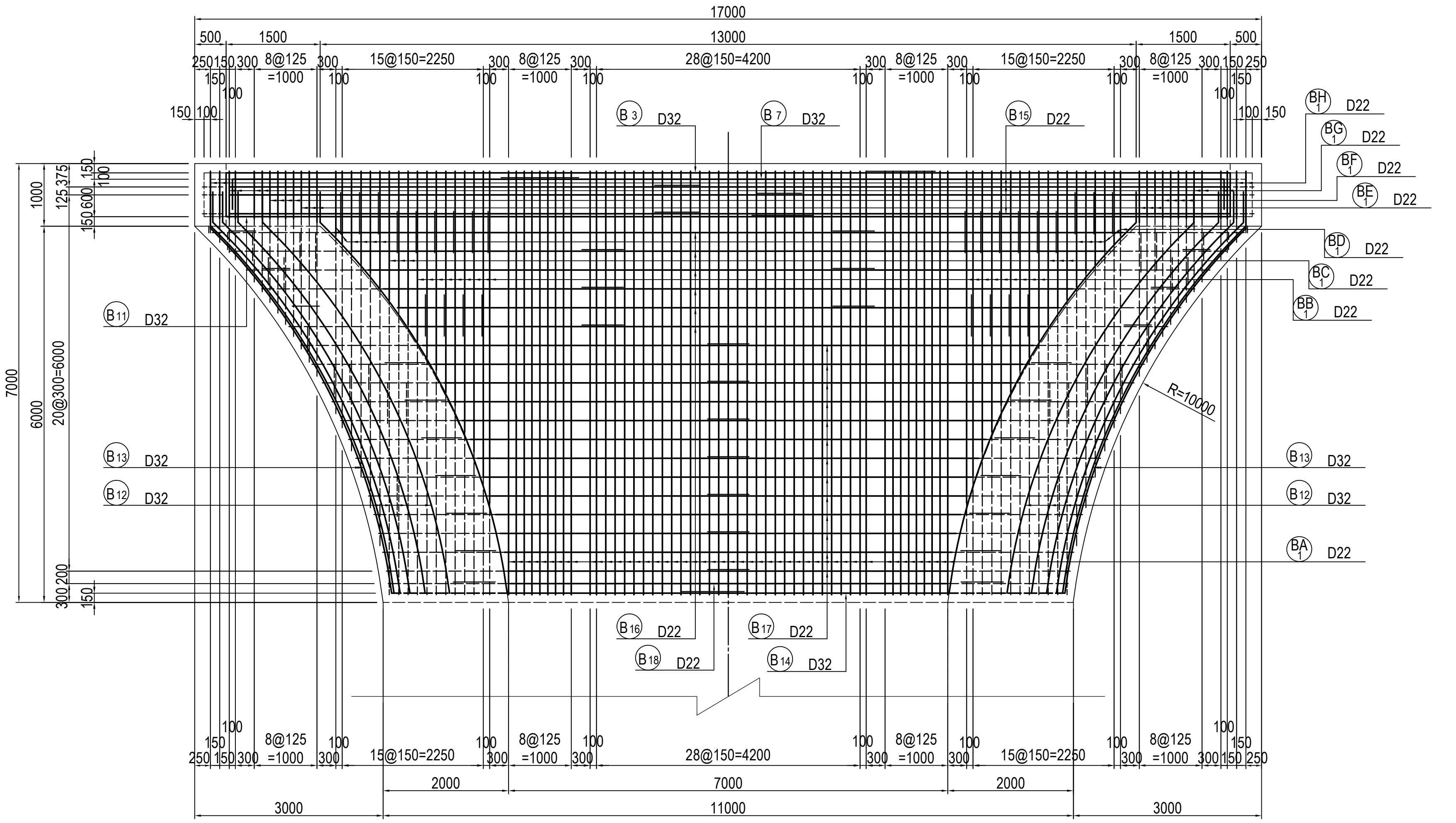
DRAWING TITLE
GENERAL VIEW OF P19 PIER (2)

PACKAGE	2
DWG No.	P2-SB-2502

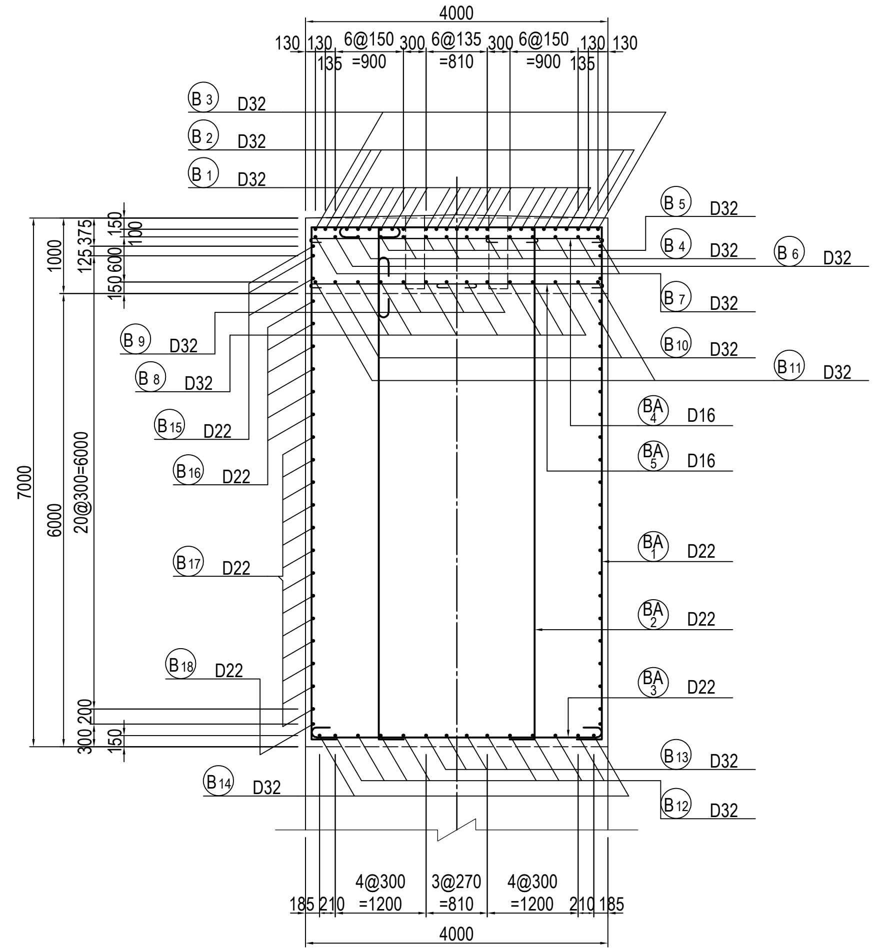
BAR ARRANGEMENT OF P19 PIER (1) S=1:100

BEAM

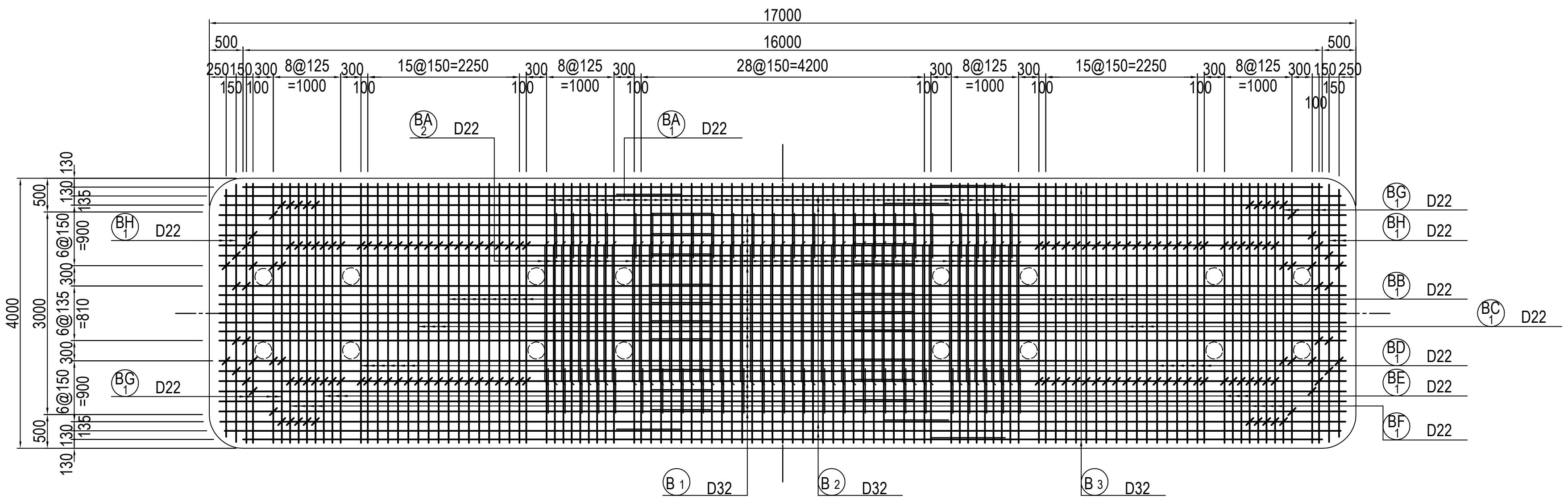
FRONT ELEVATION 1 - 1



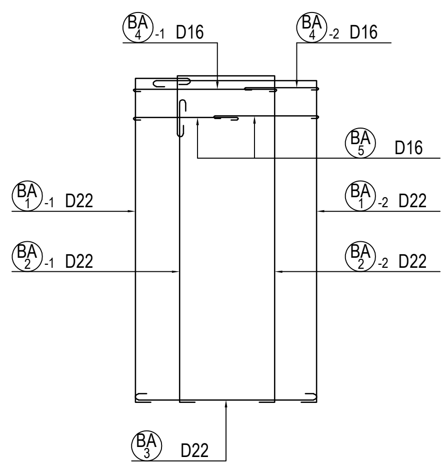
SECTION 3 - 3



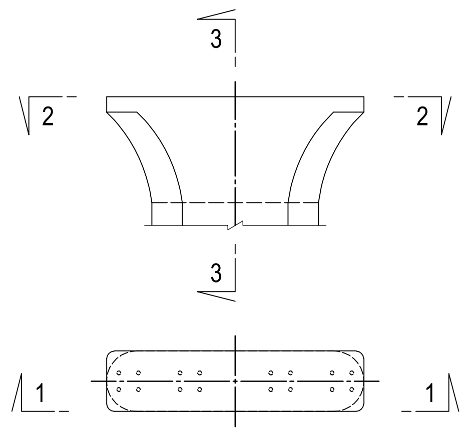
PLAN 2 - 2



ASSEMBLY DRAWING OF STIRRUP



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

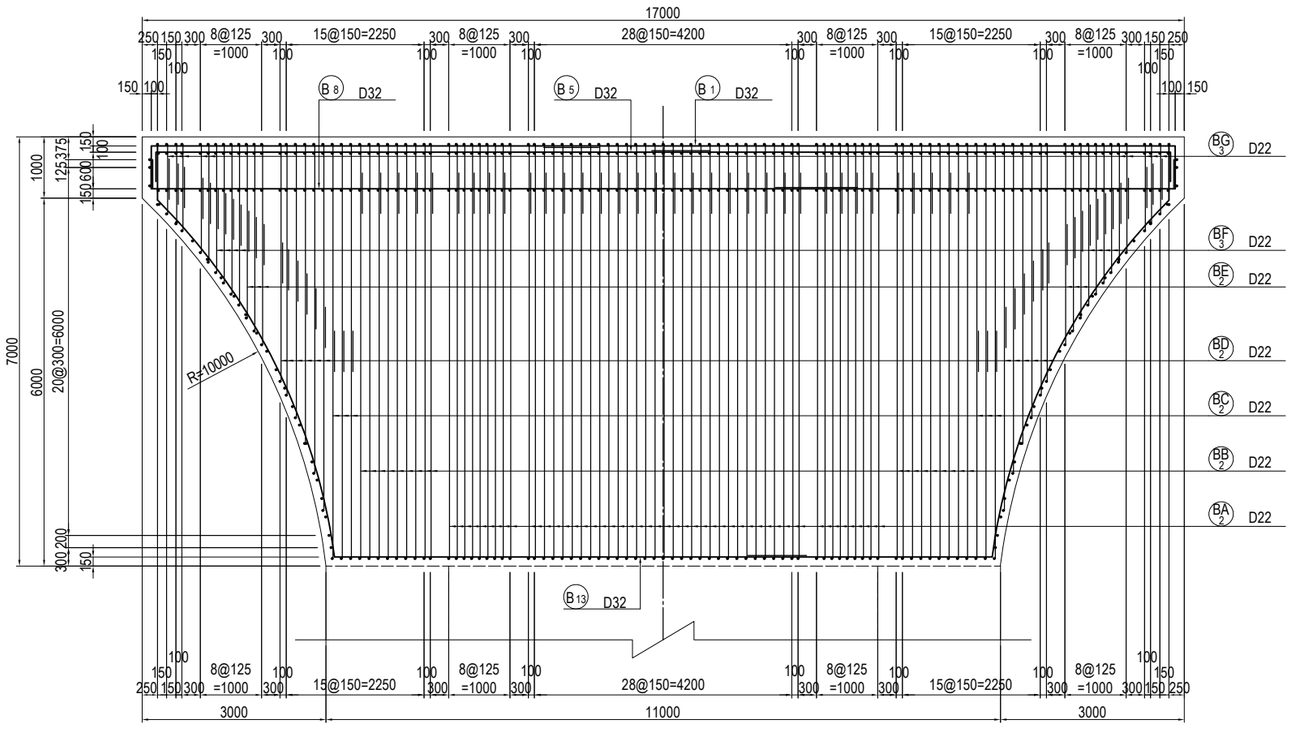
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA	[signature]	15 Jun.2017	BAR ARRANGEMENT OF P19 PIER (1)	2
CHECKED BY	T. HAYAKAWA	[signature]	20 Jun.2017		DWG No.
APPROVED BY	Y. SANO	[signature]	21 Jun.2017		P2-SB-2503

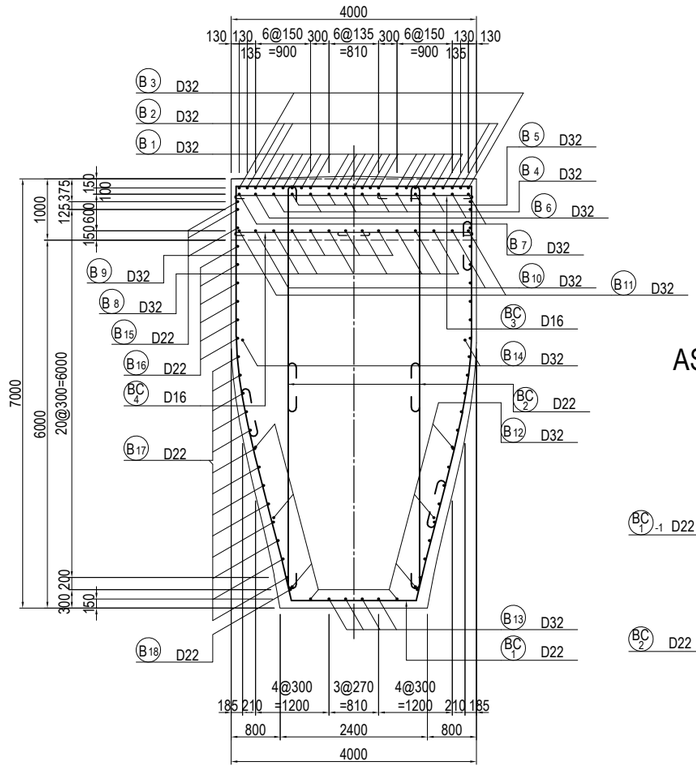
BAR ARRANGEMENT OF P19 PIER (2) S=1:100

BEAM

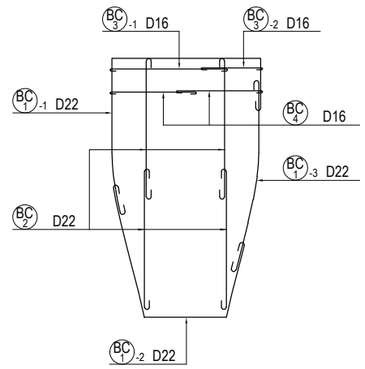
SECTION 4 - 4



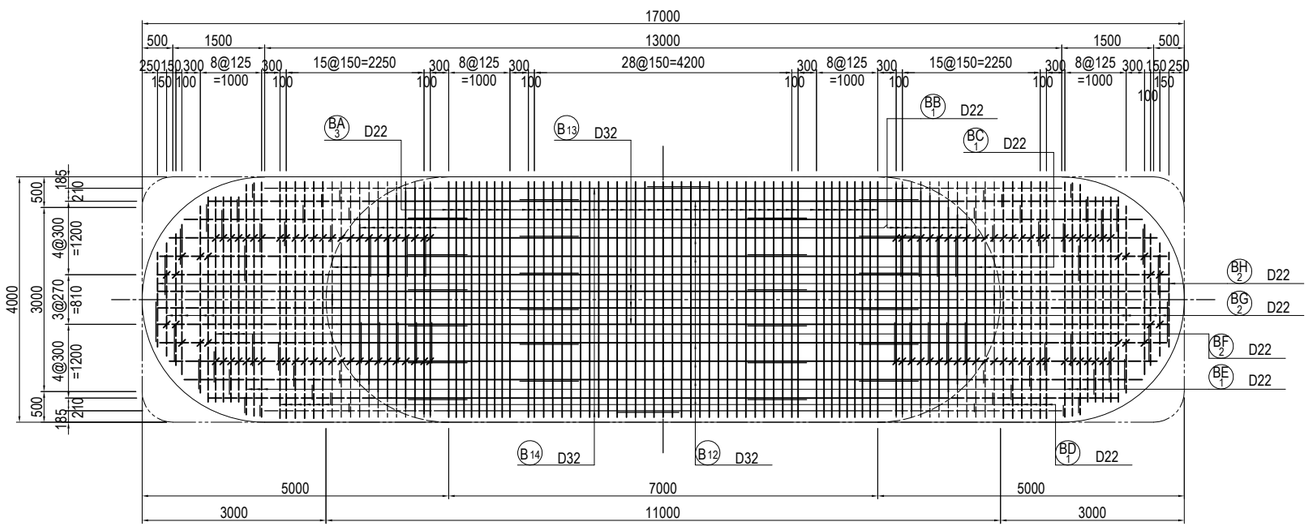
SECTION 7 - 7



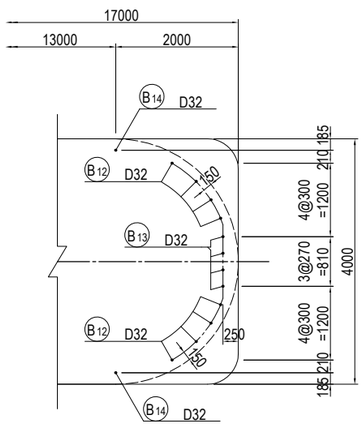
ASSEMBLY DRAWING OF STIRRUP



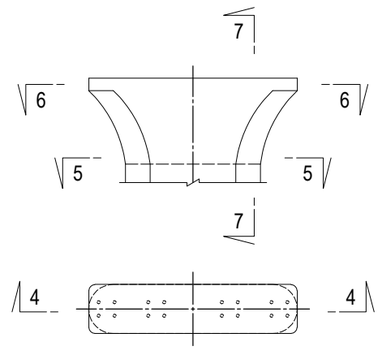
PLAN 5 - 5



PLAN 6 - 6



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

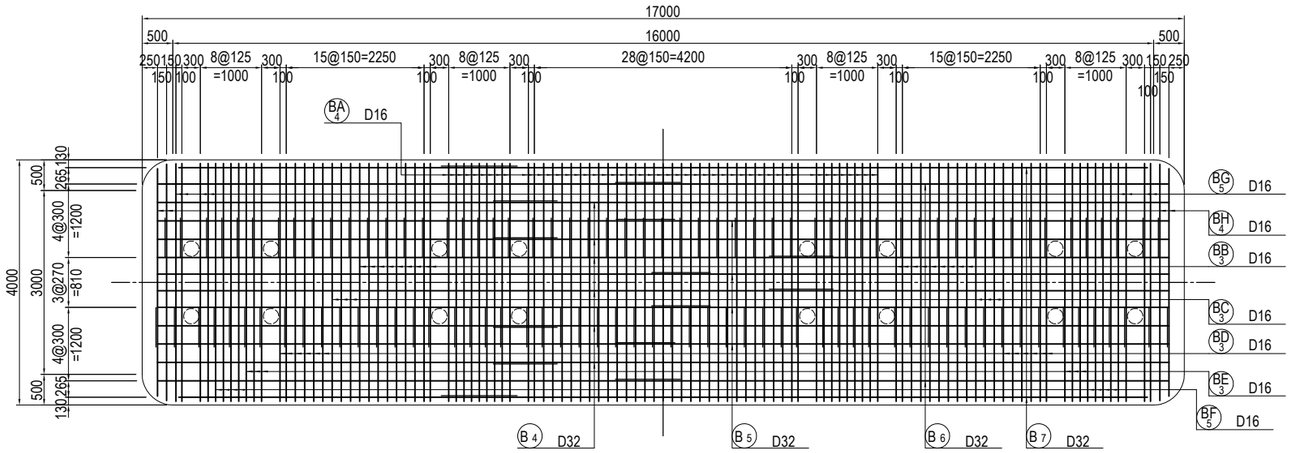
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P19 PIER (2)	2
	DWG No.
	P2-SB-2504

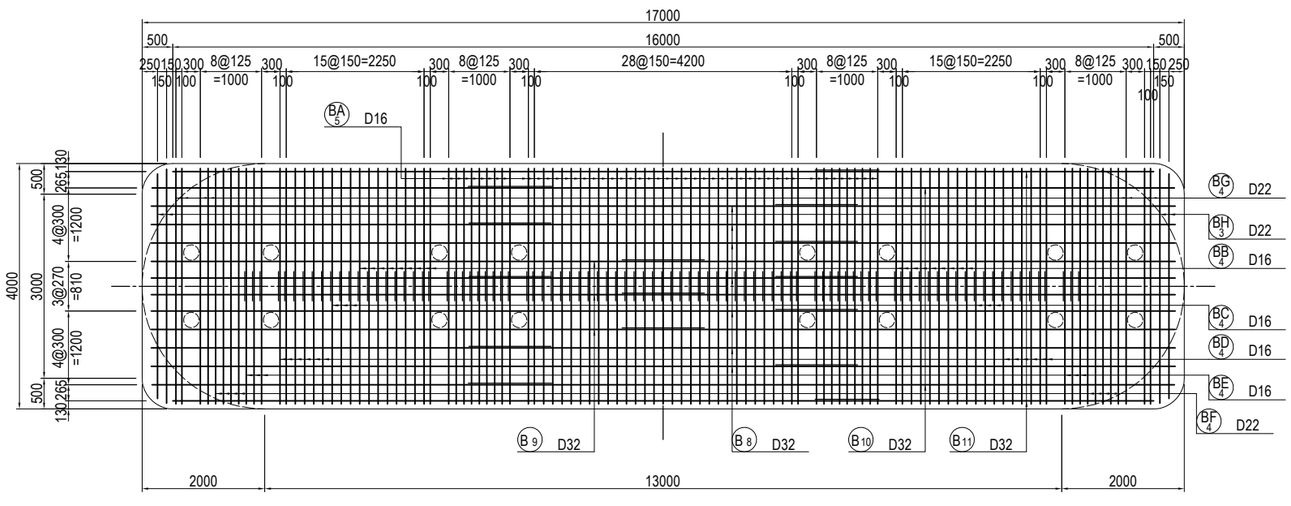
BAR ARRANGEMENT OF P19 PIER (3) S=1:100

BEAM

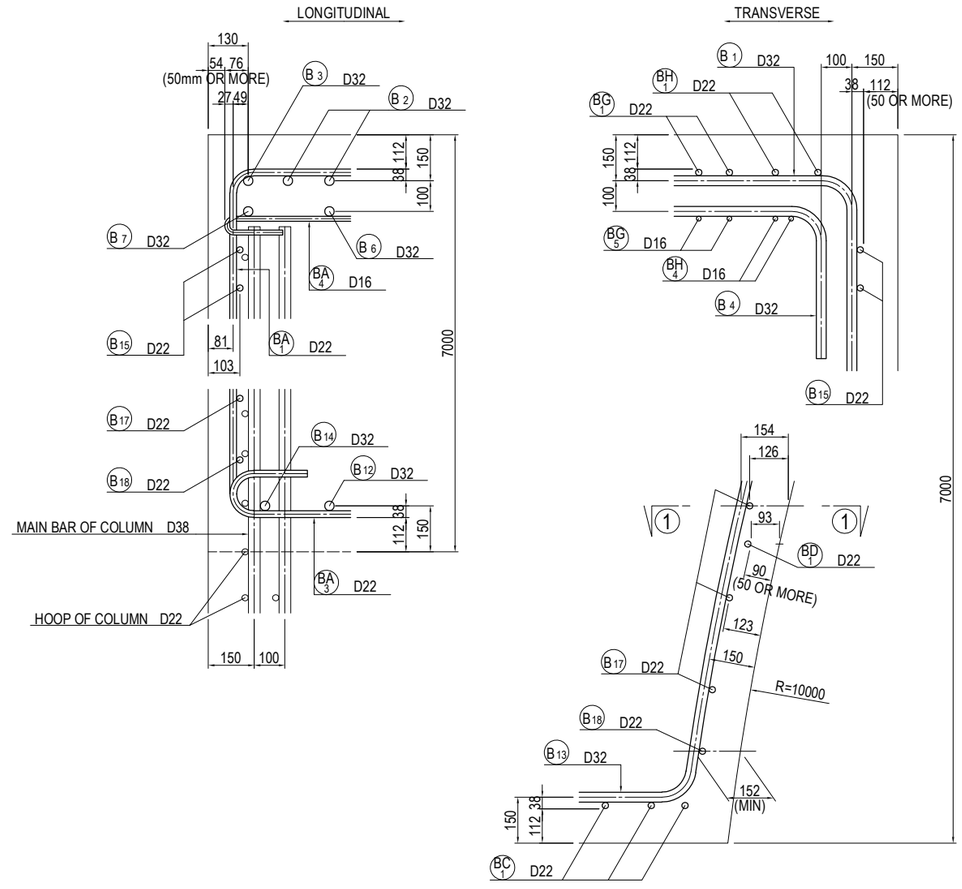
PLAN 8 - 8



PLAN 9 - 9



DETAIL OF BEAM S=1:20



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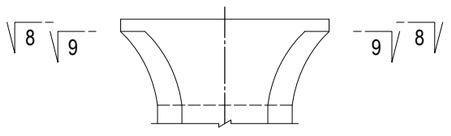


USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P19 PIER (3)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2505

BAR ARRANGEMENT OF P19 PIER (4) S=1:100

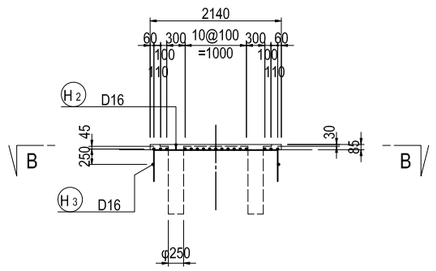
BEAM

BAR ARRANGEMENT OF BEARING BASE

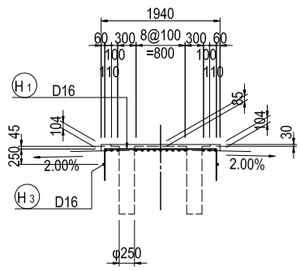
(N = 4)

SECTION

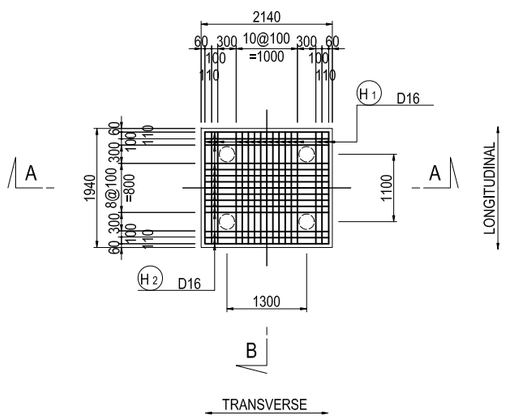
A - A

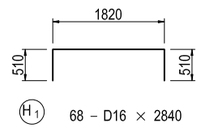


B - B

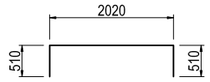


PLAN
C - C

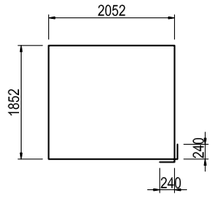




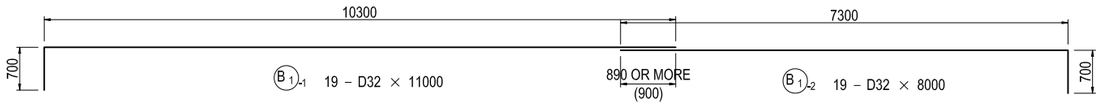
H1 68 – D16 × 2840

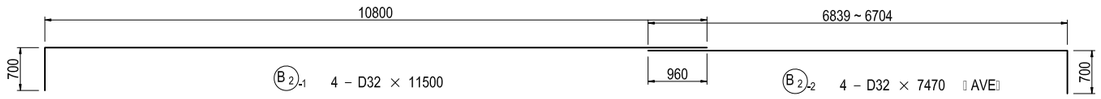


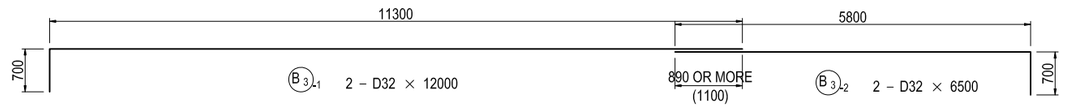
H2 60 – D16 × 3040

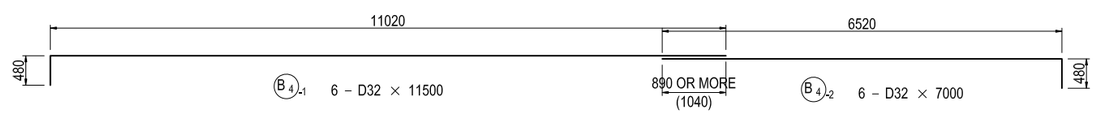


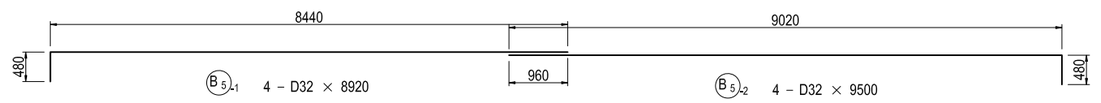
H3 4 – D16 × 8290

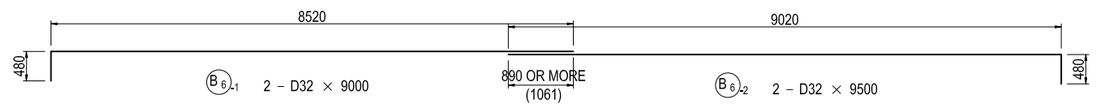


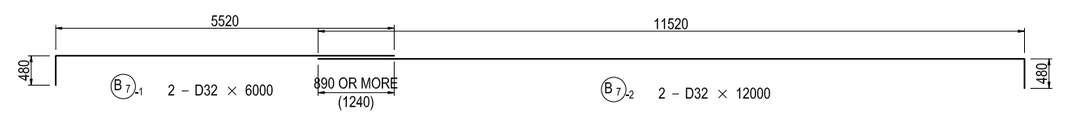












USE MATERIALS

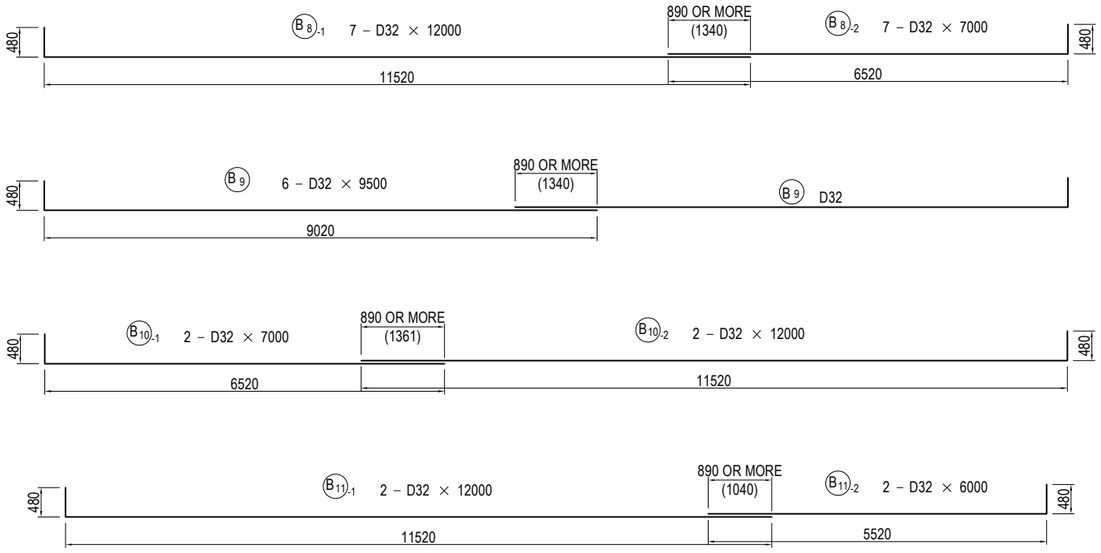
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

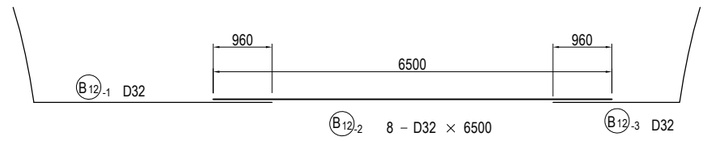
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

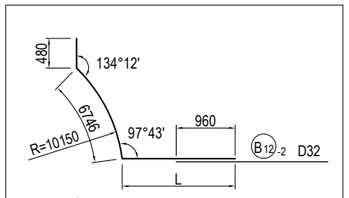
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P19 PIER (4)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2506

BAR ARRANGEMENT OF P19 PIER (5) S=1:100

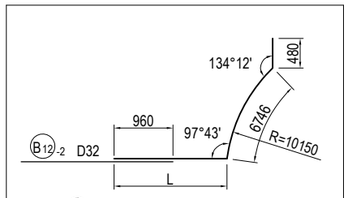
BEAM



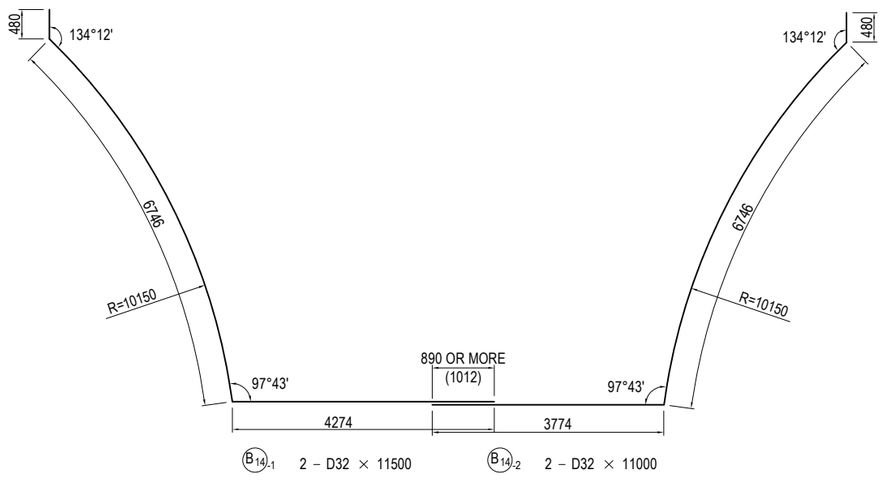


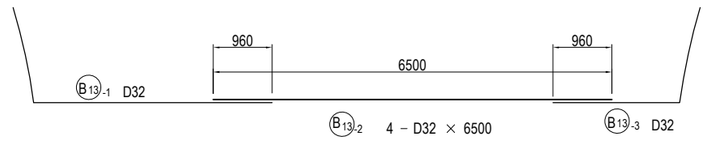


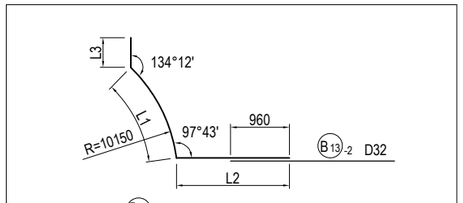
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B12 -1 1	D32	2	3058	10284
2	"	2	3449	10675
3	"	2	3691	10917
4	"	2	3848	11074
AVE		8		10738



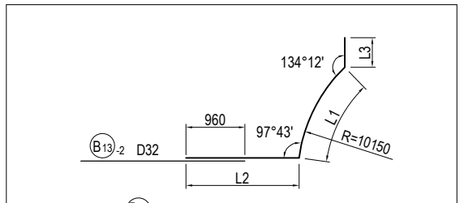
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B12 -3 1	D32	2	1238	8464
2	"	2	1629	8855
3	"	2	1871	9097
4	"	2	2028	9254
AVE		8		8918







MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
B13 -1 1	D32	2	6669	3943	840	11452
2	"	2	6613	3983	880	11476
AVE		4				11464



MARKS	DIA.	NOS. OF BARS	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
B13 -3 1	D32	2	6669	2123	840	9632
2	"	2	6613	2163	880	9656
AVE		4				9644

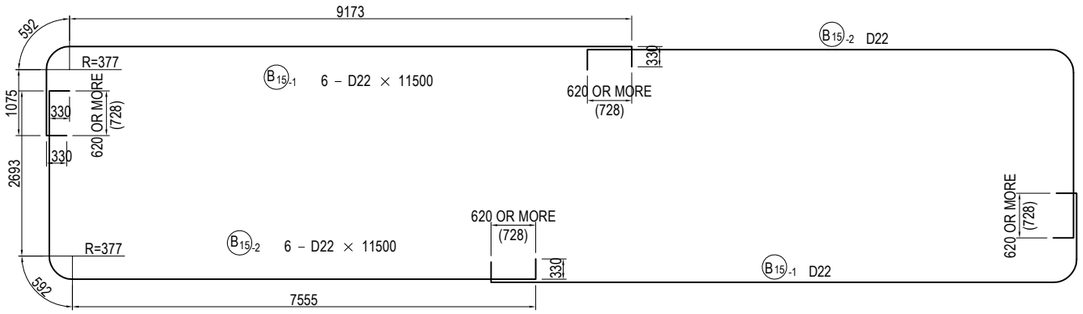
USE MATERIALS

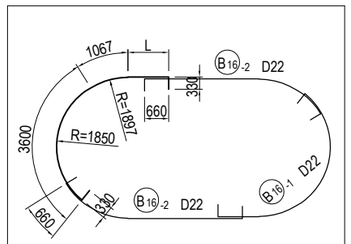
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P19 PIER (5)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2507

BAR ARRANGEMENT OF P19 PIER (6) S=1:100

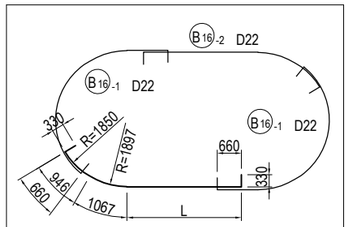
BEAM





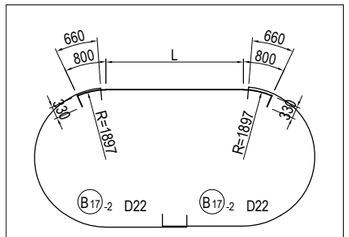
B16-1 12 – D22 × 9300 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-1 1	D22	2	4612	9939
2	"	2	4328	9655
3	"	2	4065	9392
4	"	2	3823	9150
5	"	2	3598	8925
6	"	2	3391	8718
AVE		12		9297



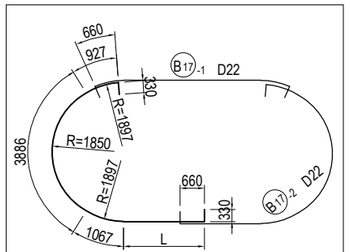
B16-2 12 – D22 × 10640 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-2 1	D22	2	8612	11285
2	"	2	8328	11001
3	"	2	8065	10738
4	"	2	7823	10496
5	"	2	7598	10271
6	"	2	7391	10064
AVE		12		10643



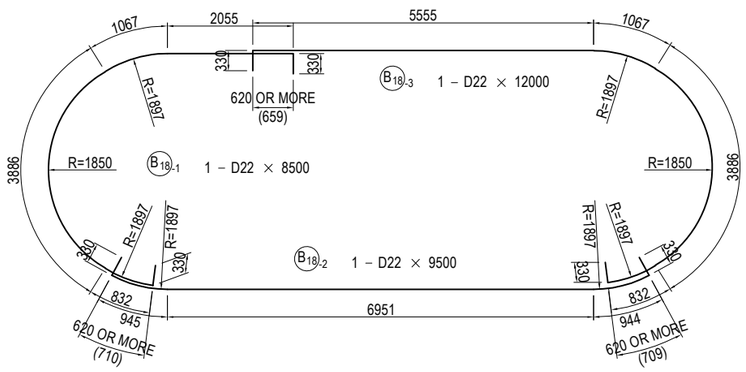
B17-1 13 – D22 × 10400 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B17-1 1	D22	1	9737	11997
2	"	1	9381	11641
3	"	1	9052	11312
4	"	1	8749	11009
5	"	1	8470	10730
6	"	1	8215	10475
7	"	1	7982	10242
8	"	1	7771	10031
9	"	1	7580	9840
10	"	1	7410	9670
11	"	1	7260	9520
12	"	1	7128	9388
13	"	1	7016	9276
AVE		13		10395



B17-2 26 – D22 × 10940 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B17-2 1	D22	2	5198	11738
2	"	2	5020	11560
3	"	2	4856	11396
4	"	2	4705	11245
5	"	2	4565	11105
6	"	2	4438	10978
7	"	2	4321	10861
8	"	2	4215	10755
9	"	2	4120	10660
10	"	2	4035	10575
11	"	2	3960	10500
12	"	2	3894	10434
13	"	2	3838	10378
AVE		26		10937



USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm²	SD345

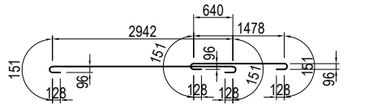
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

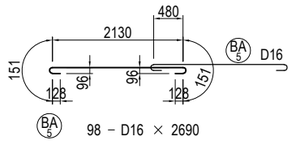
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

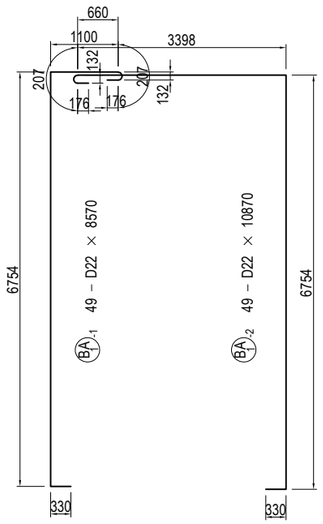
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P19 PIER (6)	2
	DWG No.
	P2-SB-2508

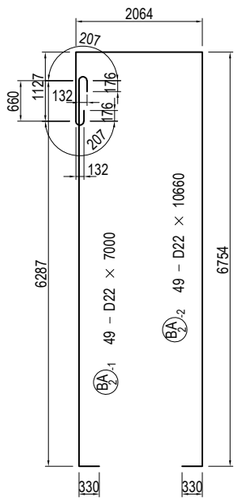
BAR ARRANGEMENT OF P19 PIER (7) S=1:100

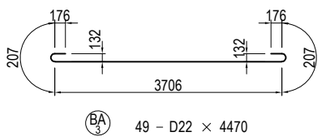
BEAM

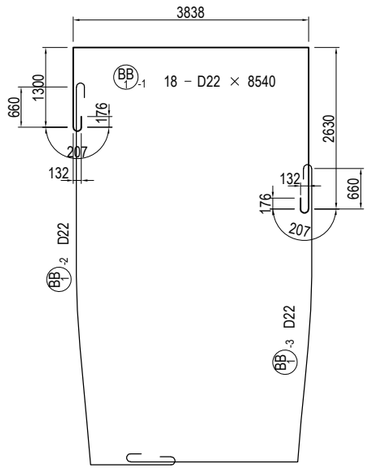


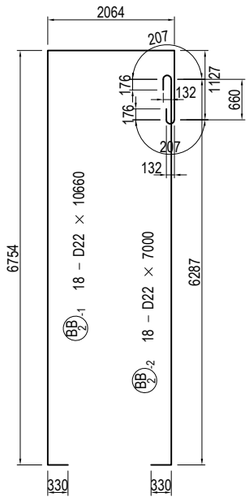


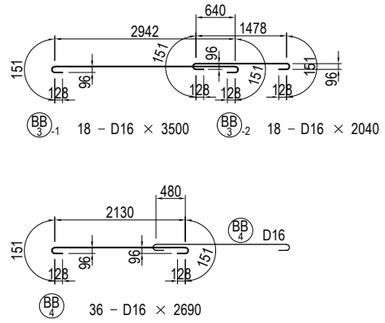


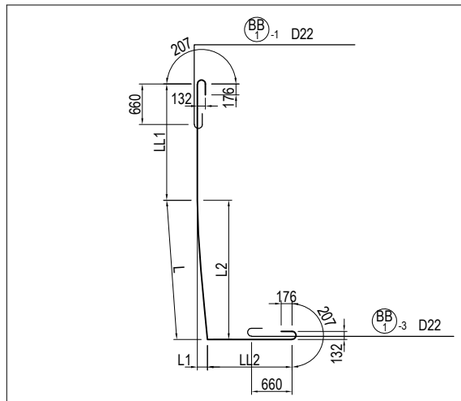




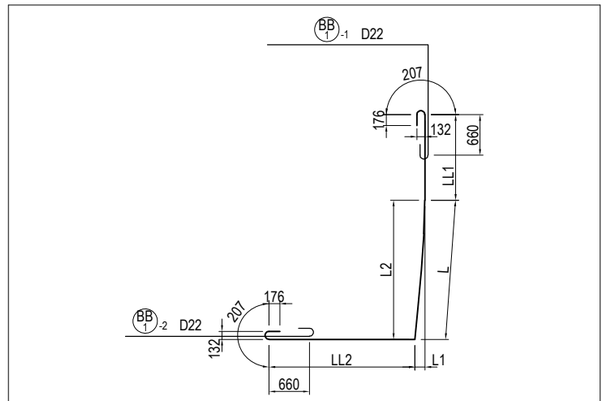








MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL1	LENGTH LL2	TOTAL LENGTH ΣL
BB1-2 1	D22	2	1464	33	1464	4650	1511	8391
2	"	2	1892	54	1891	4223	1490	8371
3	"	2	2282	97	2280	3834	1447	8329
4	"	2	2606	155	2601	3513	1389	8274
5	"	2	3029	227	3020	3094	1317	8206
6	"	2	3241	315	3225	2889	1229	8125
7	"	2	3607	416	3580	2534	1128	8035
8	"	2	3827	541	3785	2329	1003	7925
9	"	2	4115	698	4051	2063	846	7790
AVE		18						8161



MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL1	LENGTH LL2	TOTAL LENGTH ΣL
BB1-3 1	D22	2	1464	33	1464	3320	2921	8471
2	"	2	1892	54	1891	2893	2900	8451
3	"	2	2282	97	2280	2504	2857	8409
4	"	2	2606	155	2601	2183	2799	8354
5	"	2	3029	227	3020	1764	2727	8286
6	"	2	3241	315	3225	1559	2639	8205
7	"	2	3607	416	3580	1204	2538	8115
8	"	2	3827	541	3785	999	2413	8005
9	"	2	4115	698	4051	733	2256	7870
AVE		18						8241

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

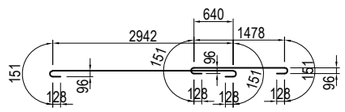
DRAWING TITLE: BAR ARRANGEMENT OF P19 PIER (7)

PACKAGE: 2

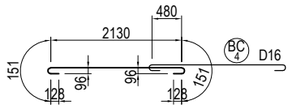
DWG No.: P2-SB-2509

BAR ARRANGEMENT OF P19 PIER (8) S=1:100

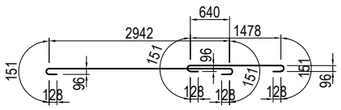
BEAM



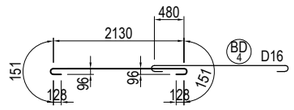
(BC3)-1 6 – D16 × 3500 (BC3)-2 6 – D16 × 2040



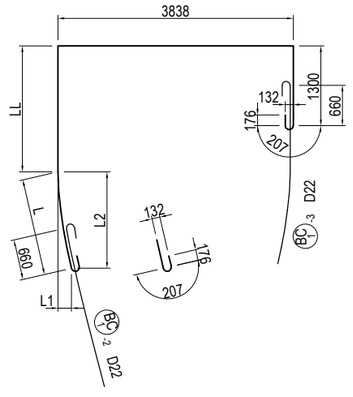
(BC4) 12 – D16 × 2690



(BD3)-1 12 – D16 × 3500 (BD3)-2 12 – D16 × 2040

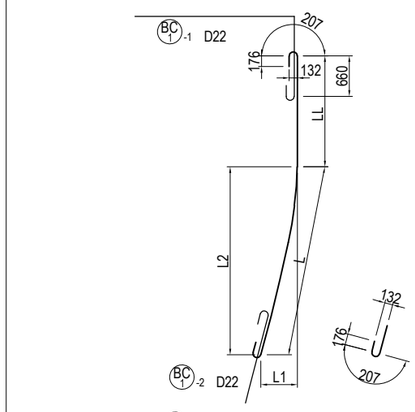


(BD4) 24 – D16 × 2690



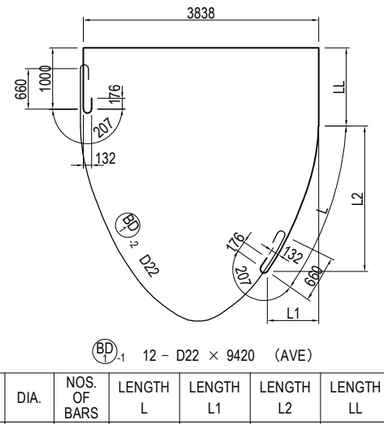
(BC1)-1 6 – D22 × 9950 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BC1-1 1	D22	2	1591	219	1573	2451	9946
2	"	2	1871	304	1837	2177	9952
3	"	2	2008	400	1961	2049	9961
AVE		6					9953



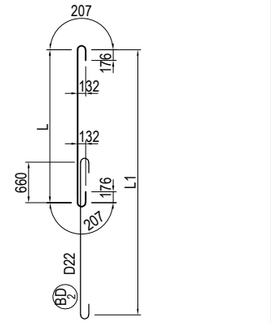
(BC1)-3 6 – D22 × 5730 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BC1-3 1	D22	2	3129	594	3064	1811	5706
2	"	2	3426	761	3327	1537	5729
3	"	2	3591	975	3434	1409	5766
AVE		6					5734



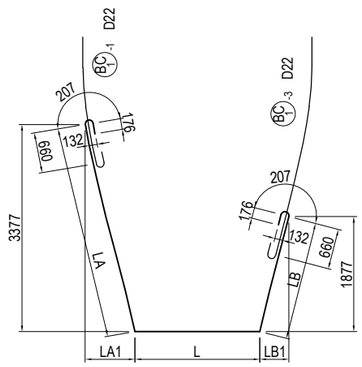
(BD1)-1 12 – D22 × 9420 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BD1-1 1	D22	2	1907	407	1855	1851	9362
2	"	2	2150	524	2071	1623	9377
3	"	2	2289	665	2171	1503	9396
4	"	2	2544	836	2369	1277	9425
5	"	2	2697	1045	2436	1167	9468
6	"	2	2879	1218	2528	1027	9510
AVE		12					9423



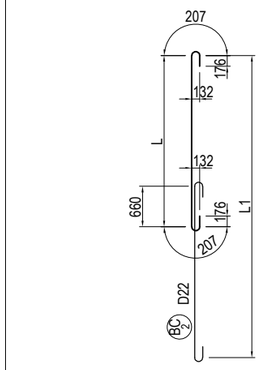
(BD2) 24 – D22 × 2980 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BD2 1	D22	4	2645	4630	3411
2	"	4	2445	4229	3211
3	"	4	2266	3872	3032
4	"	4	2105	3549	2871
5	"	4	1957	3253	2723
6	"	4	1864	3068	2630
AVE		24			2980



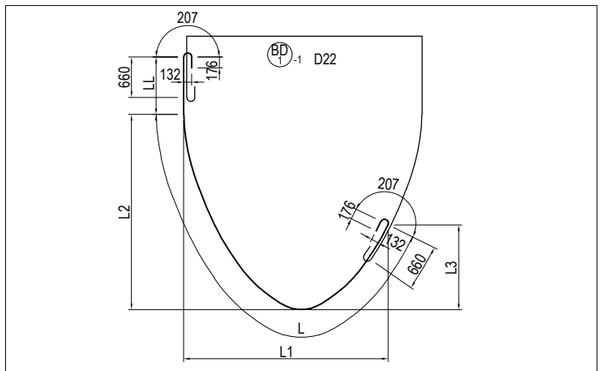
(BC1)-2 6 – D22 × 7630 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LB	LENGTH LB1	LENGTH L	TOTAL LENGTH ΣL
BC1-2 1	D22	2	3474	811	1936	474	2038	8214
2	"	2	3536	1043	1981	760	1465	7748
3	"	2	3791	1621	2209	1120	171	6937
AVE		6						7633



(BC2) 12 – D22 × 3960 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BC2 1	D22	4	3543	6425	4309
2	"	4	3159	5657	3925
3	"	4	2877	5093	3643
AVE		12			3959



(BD1)-2 12 – D22 × 8250 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BD1-2 1	D22	2	8159	3633	4120	2894	1511	10436
2	"	2	7303	3548	3741	2287	1283	9352
3	"	2	6546	3453	3373	1799	1163	8475
4	"	2	5999	3336	3183	1383	937	7702
5	"	2	5399	3189	2925	1015	827	6992
6	"	2	5104	3072	2841	791	687	6557
AVE		12						8252

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JAPAN INTERNATIONAL
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COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO.,LTD.
NIPPON ENGINEERING CONSULTANTS CO.,LTD.

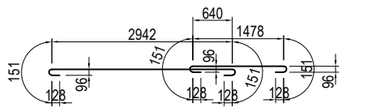
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE: BAR ARRANGEMENT OF P19 PIER (8)

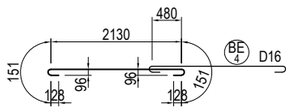
PACKAGE: 2
DWG No.: P2-SB-2510

BAR ARRANGEMENT OF P19 PIER (9) S=1:100

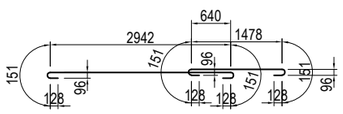
BEAM



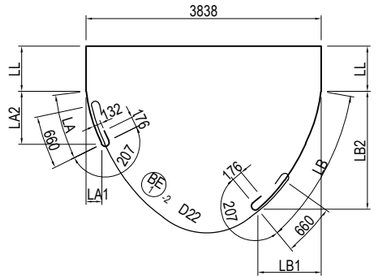
BE2-1 6 – D16 × 3500 BE2-2 6 – D16 × 2040



BE4 12 – D16 × 2690

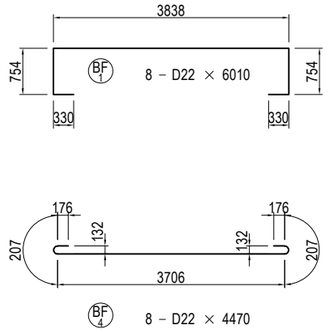


BF5-1 8 – D16 × 3500 BF5-2 8 – D16 × 2040

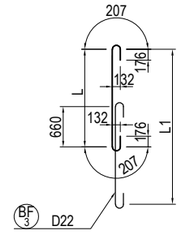


BF1-1 6 – D22 × 9620 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LA2	LENGTH LB	LENGTH LB1	LENGTH LB2	LENGTH LL	TOTAL LENGTH ΣL
BE1-1 1	D22	2	820	196	793	2475	1141	2129	818	9535
2	"	2	905	257	863	2624	1351	2154	736	9605
3	"	2	970	325	906	2780	1612	2117	679	9712
AVE		6								9617

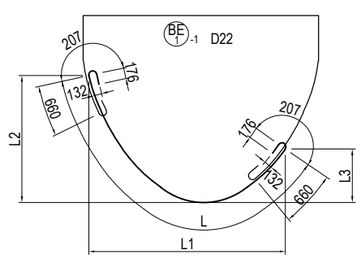


BF4 8 – D22 × 4470



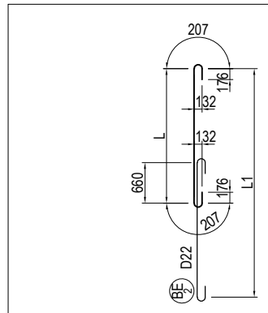
BF3 16 – D22 × 1980 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BF3 1	D22	4	1335	2009	2101
2	"	4	1251	1841	2017
3	"	4	1170	1680	1936
4	"	4	1093	1526	1859
AVE		16			1978



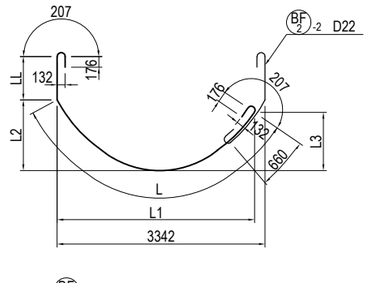
BE1-2 6 – D22 × 4990 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
BE1-2 1	D22	2	4693	3139	2292	792	5459
2	"	2	4230	2959	2069	569	4996
3	"	2	3755	2725	1858	358	4521
AVE		6					4992



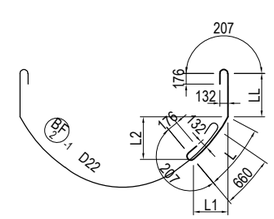
BE2 12 – D22 × 2280 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BE2 1	D22	4	1611	2561	2377
2	"	4	1514	2368	2280
3	"	4	1423	2185	2189
AVE		12			2282



BF2-1 8 – D22 × 5850 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BF2-1 1	D22	2	4397	3300	1340	1258	1228	6391
2	"	2	4172	3218	1287	1068	1092	6030
3	"	2	3933	3126	1233	887	964	5663
4	"	2	3721	3016	1196	713	829	5316
AVE		8						5850



BF2-2 8 – D22 × 2790 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BF2-2 1	D22	2	753	407	631	1228	2747
2	"	2	912	530	737	1092	2770
3	"	2	1069	665	828	964	2799
4	"	2	1243	821	914	829	2838
AVE		8					2789

USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME
DETAILED DESIGN ON
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NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

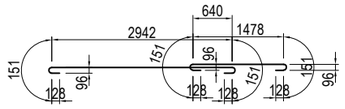
DRAWING TITLE: BAR ARRANGEMENT OF P19 PIER (9)

PACKAGE: 2

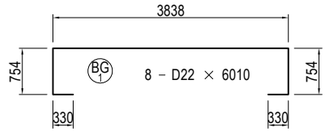
DWG No. P2-SB-2511

BAR ARRANGEMENT OF P19 PIER (10) S=1:100

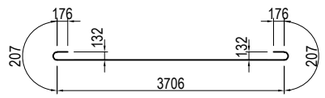
BEAM



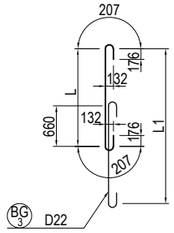
BG5-1 8 – D16 × 3500 BG5-2 8 – D16 × 2040



BG1 8 – D22 × 6010

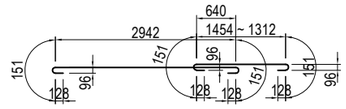


BG4 8 – D22 × 4470



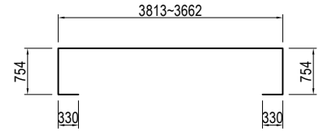
BG3 20 – D22 × 1700 (AVE)

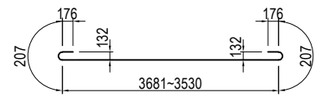
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BG3 1	D22	4	1113	1565	1879
2	"	4	1038	1415	1804
3	"	4	869	1077	1635
4	"	4	866	1071	1632
5	"	4	787	914	1553
AVE		20			1701



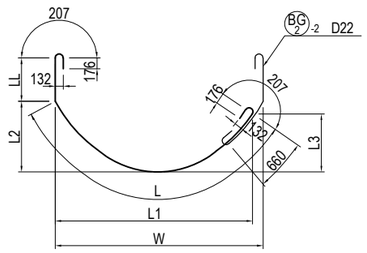
BH4-1 4 – D16 × 3500 BH4-2 4 – D16 × 1940 (AVE)

BH1 4 – D22 × 5910 (AVE)



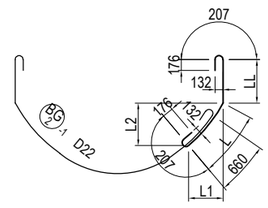


BH3 4 – D22 × 4370 (AVE)



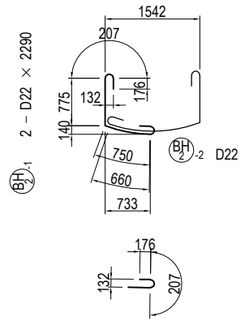
BG2-1 10 – D22 × 4390 (AVE)

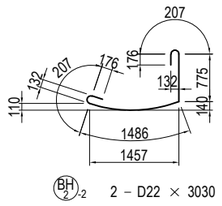
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH W	LENGTH LL	TOTAL LENGTH ΣL
BG2-1 1	D22	2	4015	3220	1151	948	3342	707	5488
2	"	2	3528	2977	876	789	3042	824	5118
3	"	2	2594	2371	491	432	2442	852	4212
4	"	2	2227	2077	369	321	2142	863	3856
5	"	2	1715	1639	271	159	1842	799	3280
AVE		10							4391



BG2-2 10 – D22 × 2390 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BG2-2 1	D22	2	898	561	694	707	2371
2	"	2	769	545	536	824	2359
3	"	2	752	645	379	852	2370
4	"	2	740	662	320	863	2369
5	"	2	892	840	269	799	2457
AVE		10					2385





BH2-2 2 – D22 × 3030

USE MATERIALS

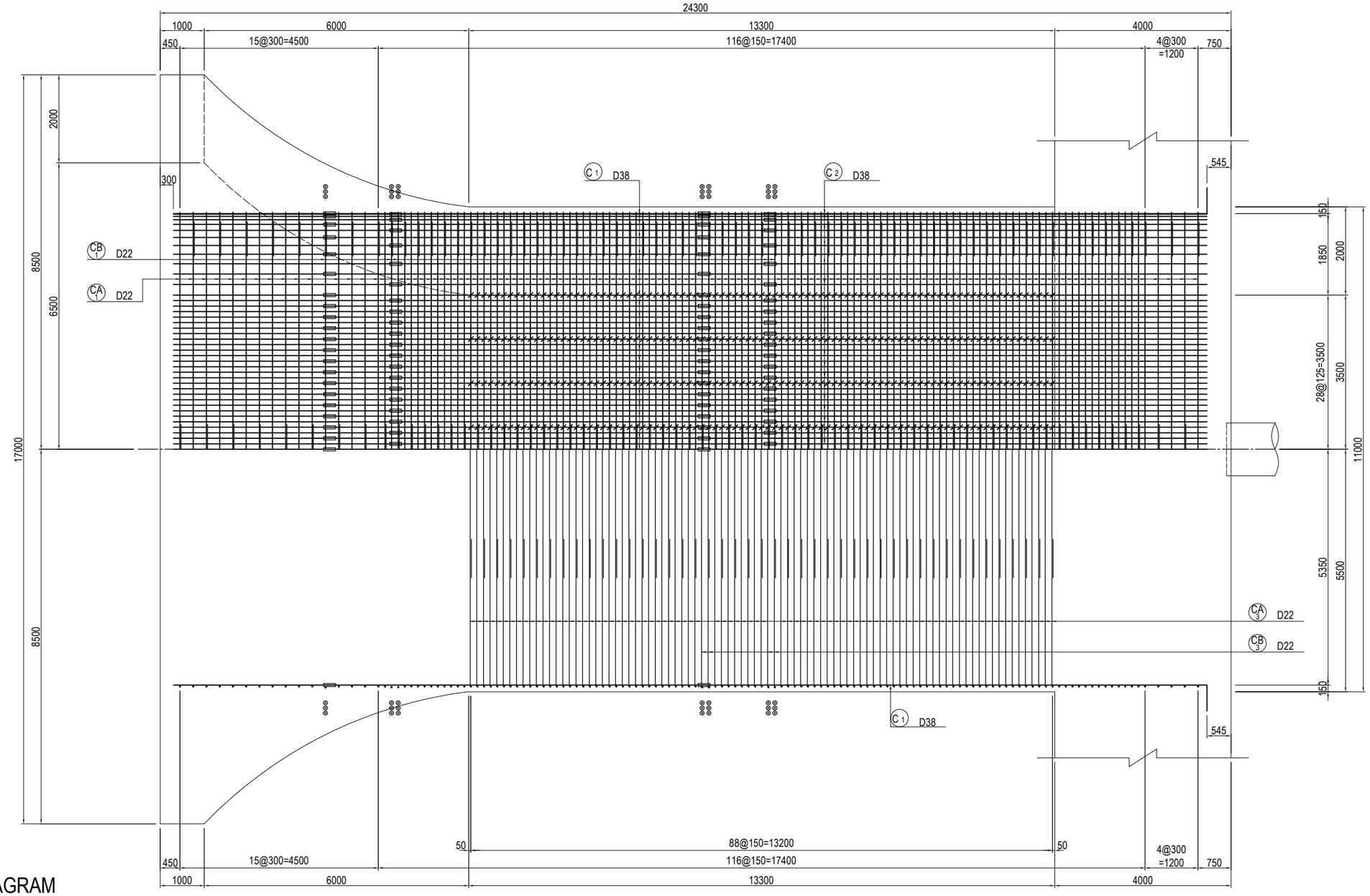
	CONCRETE	BAR
BEAM	σck = 30 N/mm 2	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P19 PIER (10)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2512

BAR ARRANGEMENT OF P19 PIER (11) S=1:100

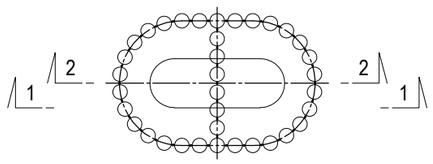
COLUMN

FRONT ELEVATION
1 - 1



SECTION
2 - 2

MARKING DIAGRAM



Notes) 1. ⊙⊙⊙ : This mark indicates hoop arranged in the location of mechanical joint.
2. —⊏⊐— : This mark indicates a mechanical joint.

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		NAME / SIGNATURE / DATE
				PREPARED BY	S. IMADA — 15 Jun.2017
				CHECKED BY	T. HAYAKAWA — 20 Jun.2017
				APPROVED BY	Y. SANO — 21 Jun.2017

DRAWING TITLE: BAR ARRANGEMENT OF P19 PIER (11)

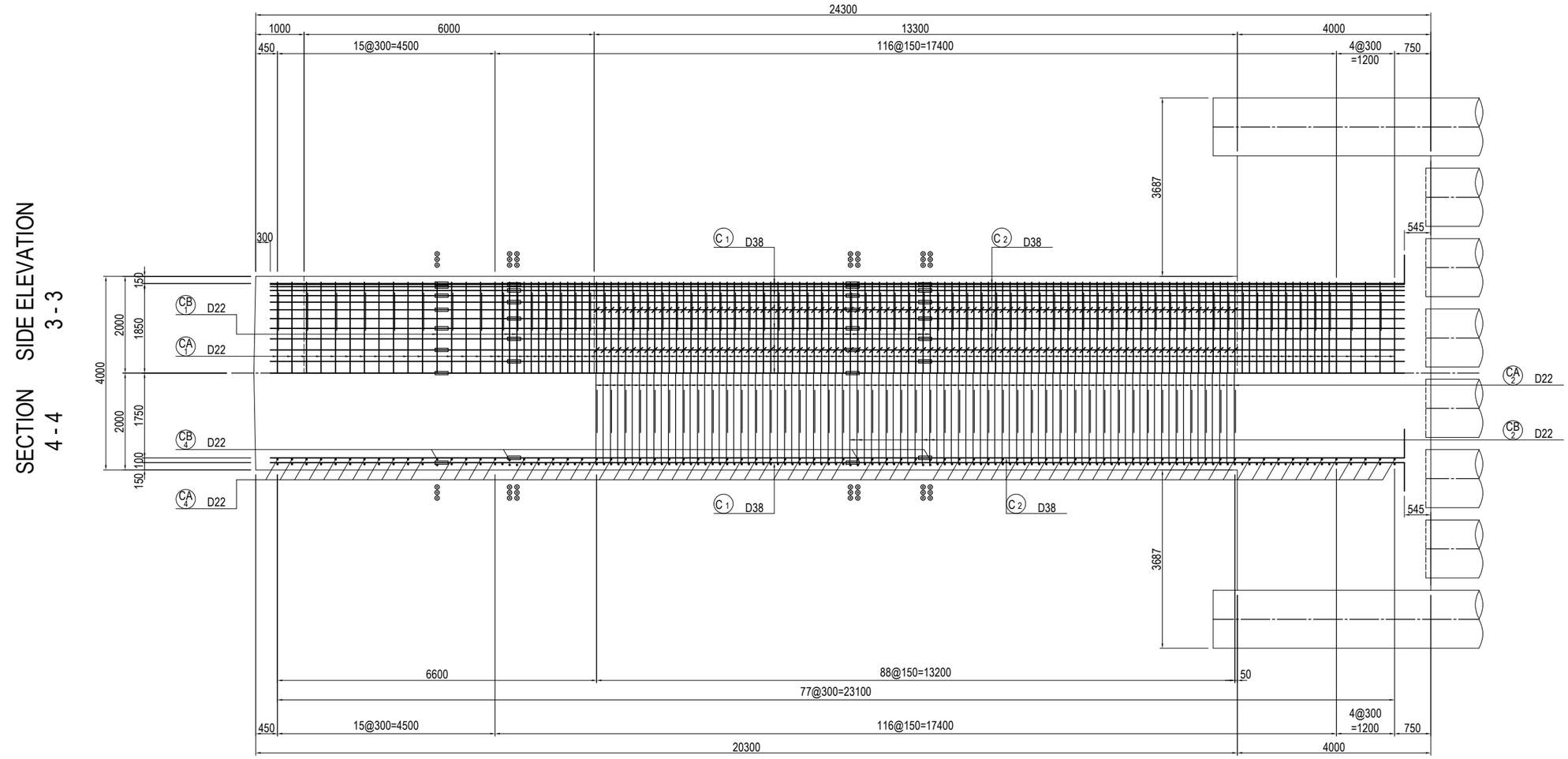
PACKAGE: 2

DWG No.: P2-SB-2513

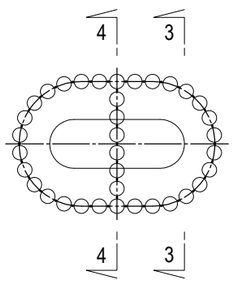
BAR ARRANGEMENT OF P19 PIER (12) S=1:100

COLUMN

SECTION 4 - 4 SIDE ELEVATION 3 - 3



MARKING DIAGRAM



Notes) 1. ⊚⊚⊚ : This mark indicates hoop arranged in the location of mechanical joint.
2. —▭— : This mark indicates a mechanical joint.

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm^2	MAIN BAR	SD390
		OTHERS	SD345

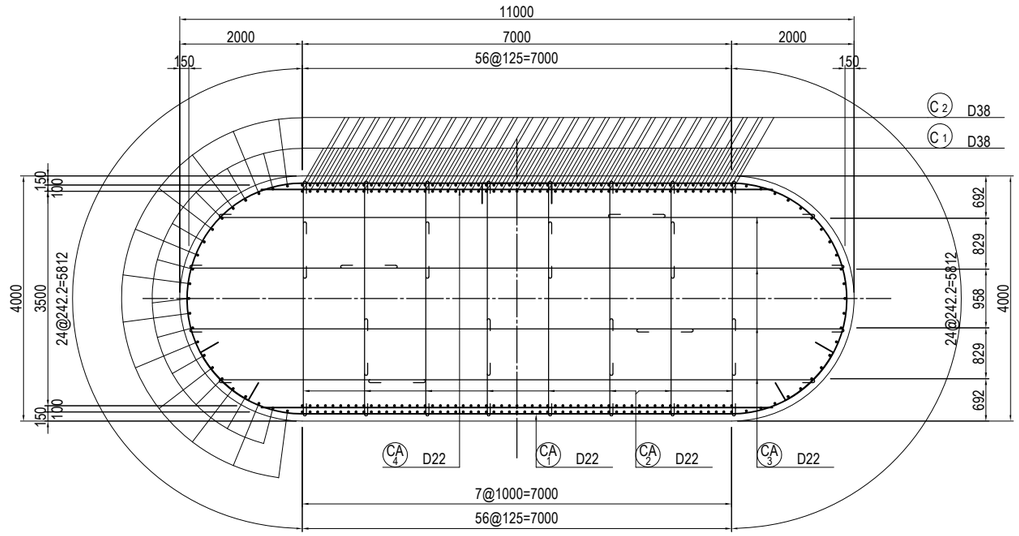
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		
				NAME	SIGNATURE / DATE
				PREPARED BY	S. IMADA / 15 Jun.2017
				CHECKED BY	T. HAYAKAWA / 20 Jun.2017
				APPROVED BY	Y. SANO / 21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P19 PIER (12)	2
	DWG No.
	P2-SB-2514

BAR ARRANGEMENT OF P19 PIER (13) S=1:100

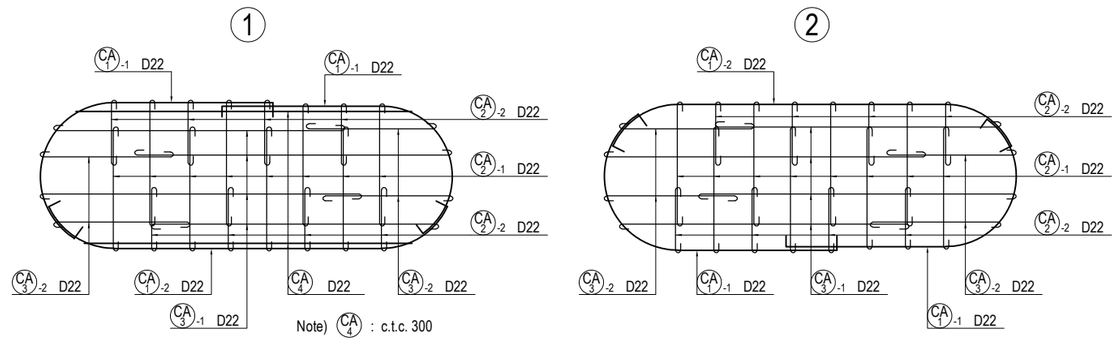
COLUMN

PLAN
5 - 5

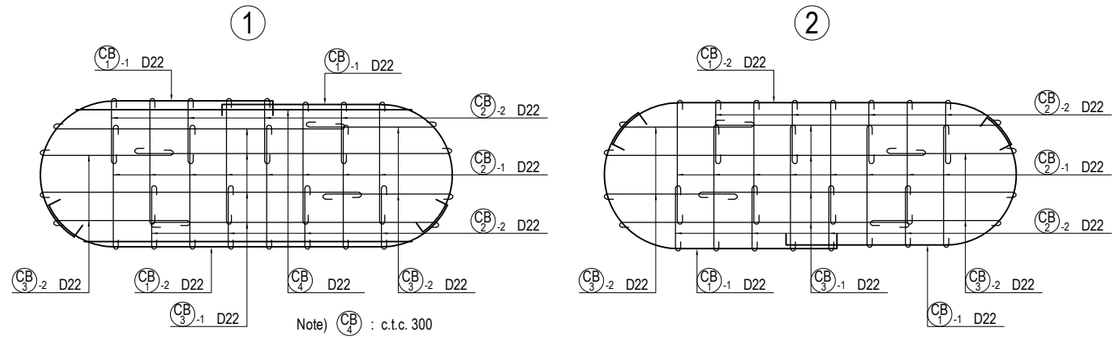


ASSEMBLY DRAWING OF HOOP
(c.t.c. 150)

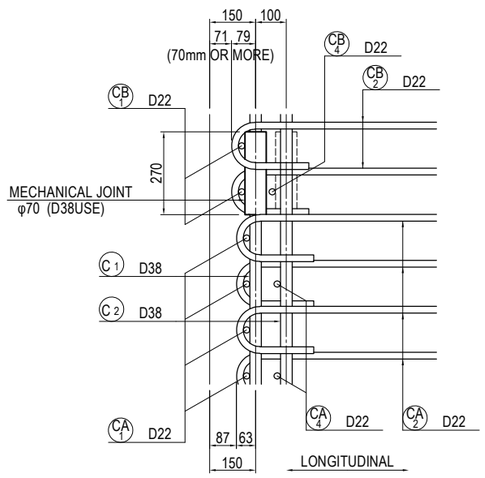
【STANDARD PART】



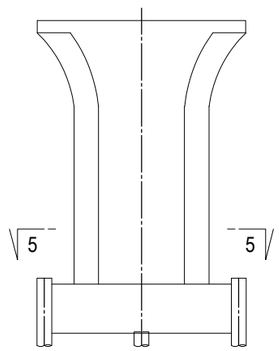
【MECHANICAL JOINT PART】



DETAIL OF COLUMN S=1:20



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

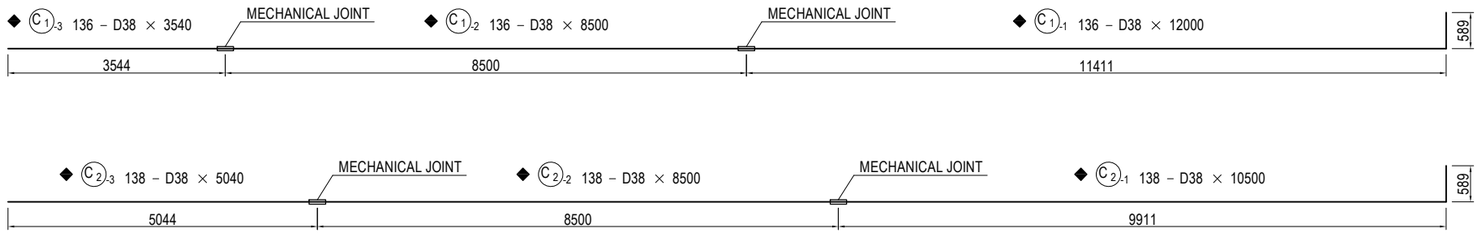
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

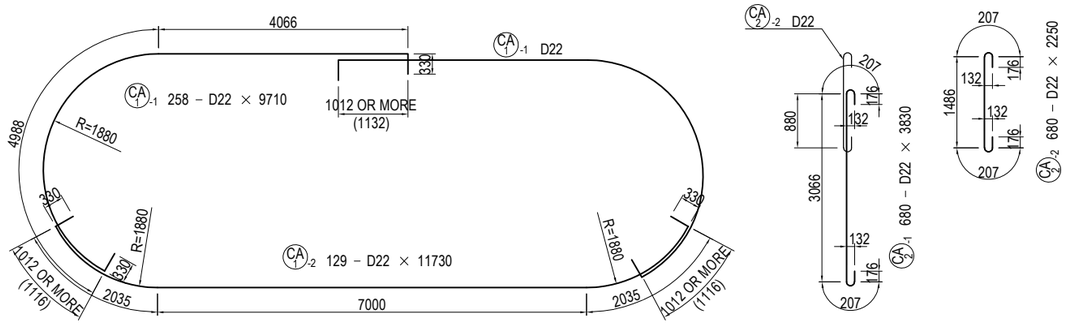
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

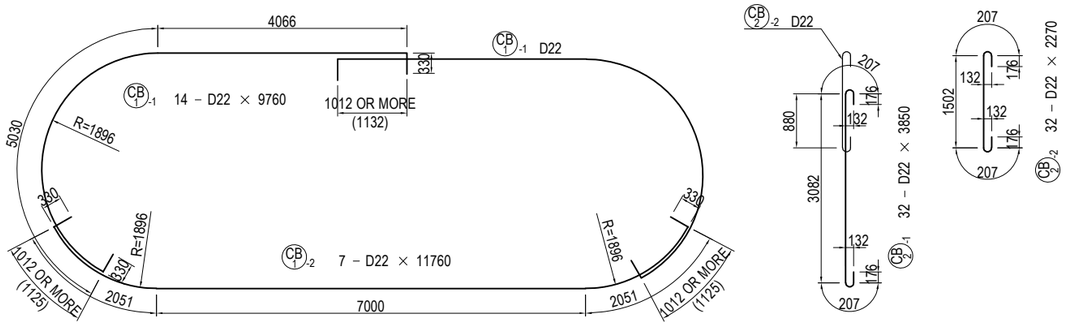
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P19 PIER (13)	2
	DWG No.
	P2-SB-2515

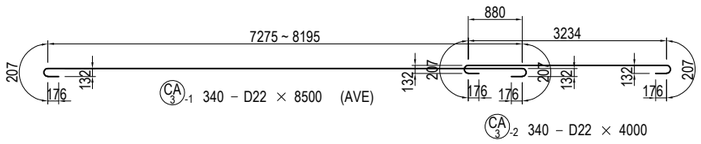
BAR ARRANGEMENT OF P19 PIER (14) S=1:100

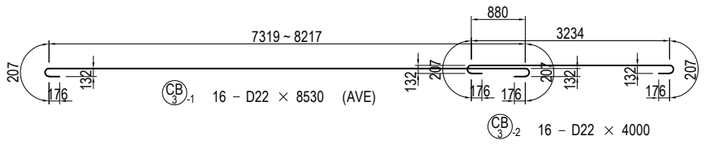
COLUMN

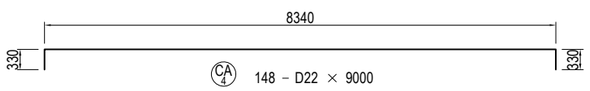


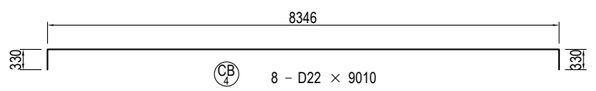




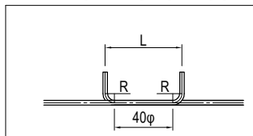








LAP LENGTH LIST OF HOOP



DIA.	R	LAP LENGTH (40φ)	L
D13	39	520	598
D16	48	640	736
D19	57	760	874
D22	66	880	1012
D25	75	1000	1150
D29	87	1160	1334
D32	96	1280	1472

Notes) 1. ◆ : SD390
2. —▭— : MECHANICAL JOINT

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm²	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P19 PIER (14)	2
	DWG No.
	P2-SB-2516

BAR ARRANGEMENT OF P19 PIER (15) NOT TO SCALE

BAR SCHEDULE (SD390)

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
C 1-1	D38	12000	136	8.95	107.40	14606	(136)
1-2	"	8500	136	"	76.08	10347	(136)
1-3	"	3540	136	"	31.68	4308	
2-1	"	10500	138	"	93.98	12969	(138)
2-2	"	8500	138	"	76.08	10499	(138)
2-3	"	5040	138	"	45.11	6225	
					SUBTOTAL	58954 kg	
							(MECHANICAL JOINT)
	SD390		D38		58954 kg	(548)	
			TOTAL		58954 kg	(548)	

BAR SCHEDULE (SD345)

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
B 1-1	D32	11000	19	6.23	68.53	1302	
1-2	"	8000	19	"	49.84	947	
2-1	"	11500	4	"	71.65	287	
2-2	"	7470	4	"	46.54	186	(AVE)
3-1	"	12000	2	"	74.76	150	
3-2	"	6500	2	"	40.50	81	
4-1	"	11500	6	"	71.65	430	
4-2	"	7000	6	"	43.61	262	
5-1	"	8920	4	"	55.57	222	
5-2	"	9500	4	"	59.19	237	
6-1	"	9000	2	"	56.07	112	
6-2	"	9500	2	"	59.19	118	
7-1	"	6000	2	"	37.38	75	
7-2	"	12000	2	"	74.76	150	
8-1	"	12000	7	"	74.76	523	
8-2	"	7000	7	"	43.61	305	
9	"	9500	6	"	59.19	355	
10-1	"	7000	2	"	43.61	87	"
10-2	"	12000	2	"	74.76	150	
11-1	"	12000	2	"	74.76	150	
11-2	"	6000	2	"	37.38	75	
12-1	"	10740	8	"	66.91	535	(AVE)
12-2	"	6500	8	"	40.50	324	
12-3	"	8920	8	"	55.57	445	(AVE)
13-1	"	11460	4	"	71.40	286	(AVE)
13-2	"	6500	4	"	40.50	162	
13-3	"	9640	4	"	60.06	240	(AVE)
14-1	"	11500	2	"	71.65	143	
14-2	"	11000	2	"	68.53	137	
15-1	D22	11500	6	3.04	34.96	210	
15-2	"	11500	6	"	34.96	210	
16-1	"	9300	12	"	28.27	339	(AVE)
16-2	"	10640	12	"	32.35	388	(AVE)
17-1	"	10400	13	"	31.62	411	(AVE)
17-2	"	10940	26	"	33.26	865	(AVE)
18-1	"	8500	1	"	25.84	26	
18-2	"	9500	1	"	28.88	29	
18-3	"	12000	1	"	36.48	36	
					SUBTOTAL	10990 kg	
BA 1-1	D22	8570	49	3.04	26.05	1276	
1-2	"	10870	49	"	33.04	1619	
2-1	"	7000	49	"	21.28	1043	
2-2	"	10660	49	"	32.41	1588	
3	"	4470	49	"	13.59	666	
4-1	D16	3500	49	1.56	5.46	268	
4-2	"	2040	49	"	3.18	156	"
5	"	2690	98	"	4.20	412	"
					SUBTOTAL	7028 kg	

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
BB 1-1	D22	8540	18	3.04	25.96	467	
1-2	"	8160	18	"	24.81	447	(AVE)
1-3	"	8240	18	"	25.05	451	(AVE)
2-1	"	10660	18	"	32.41	583	
2-2	"	7000	18	"	21.28	383	
3-1	D16	3500	18	1.56	5.46	98	
3-2	"	2040	18	"	3.18	57	"
4	"	2690	36	"	4.20	151	"
					SUBTOTAL	2637 kg	
BC 1-1	D22	9950	6	3.04	30.25	182	(AVE)
1-2	"	7630	6	"	23.20	139	(AVE)
1-3	"	5730	6	"	17.42	105	(AVE)
2	"	3960	12	"	12.04	144	(AVE)
3-1	D16	3500	6	1.56	5.46	33	
3-2	"	2040	6	"	3.18	19	"
4	"	2690	12	"	4.20	50	"
					SUBTOTAL	672 kg	
BD 1-1	D22	9420	12	3.04	28.64	344	(AVE)
1-2	"	8250	12	"	25.08	301	(AVE)
2	"	2980	24	"	9.06	217	(AVE)
3-1	D16	3500	12	1.56	5.46	66	
3-2	"	2040	12	"	3.18	38	"
4	"	2690	24	"	4.20	101	"
					SUBTOTAL	1067 kg	
BE 1-1	D22	9620	6	3.04	29.24	175	(AVE)
1-2	"	4990	6	"	15.17	91	(AVE)
2	"	2280	12	"	6.93	83	(AVE)
3-1	D16	3500	6	1.56	5.46	33	
3-2	"	2040	6	"	3.18	19	"
4	"	2690	12	"	4.20	50	"
					SUBTOTAL	451 kg	
BF 1	D22	6010	8	3.04	18.27	146	
2-1	"	5850	8	"	17.78	142	(AVE)
2-2	"	2790	8	"	8.48	68	(AVE)
3	"	1980	16	"	6.02	96	(AVE)
4	"	4470	8	"	13.59	109	
5-1	D16	3500	8	1.56	5.46	44	
5-2	"	2040	8	"	3.18	25	"
					SUBTOTAL	630 kg	
BG 1	D22	6010	8	3.04	18.27	146	
2-1	"	4390	10	"	13.35	134	(AVE)
2-2	"	2390	10	"	7.27	73	(AVE)
3	"	1700	20	"	5.17	103	(AVE)
4	"	4470	8	"	13.59	109	
5-1	D16	3500	8	1.56	5.46	44	
5-2	"	2040	8	"	3.18	25	"
					SUBTOTAL	634 kg	

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
BH 1	D22	5910	4	3.04	17.97	72	(AVE)
2-1	"	2290	2	"	6.96	14	
2-2	"	3030	2	"	9.21	18	
3	"	4370	4	"	13.28	53	(AVE)
4-1	D16	3500	4	1.56	5.46	22	
4-2	"	1940	4	"	3.03	12	(AVE)
					SUBTOTAL	191 kg	
H 1	D16	2840	68	1.56	4.43	301	
2	"	3040	60	"	4.74	284	"
3	"	8290	4	"	12.93	52	
					SUBTOTAL	637 kg	
CA 1-1	D22	9710	258	3.04	29.52	7616	
1-2	"	11730	129	"	35.66	4600	
2-1	"	3830	680	"	11.64	7915	
2-2	"	2250	680	"	6.84	4651	"
3-1	"	8500	340	"	25.84	8786	(AVE)
3-2	"	4000	340	"	12.16	4134	"
4	"	9000	148	"	27.36	4049	
					SUBTOTAL	41751 kg	
CB 1-1	D22	9760	14	3.04	29.67	415	
1-2	"	11760	7	"	35.75	250	
2-1	"	3850	32	"	11.70	374	
2-2	"	2270	32	"	6.90	221	"
3-1	"	8530	16	"	25.93	415	(AVE)
3-2	"	4000	16	"	12.16	195	"
4	"	9010	8	"	27.39	219	
					SUBTOTAL	2089 kg	
	SD345		D32		8476 kg		
			D22		57941 "		
			D16		2360 "		
			TOTAL		68777 kg		

USE MATERIALS

	CONCRETE	BAR	
COLUMN	σck = 30 N/mm 2	MAIN BAR	SD390
		OTHERS	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

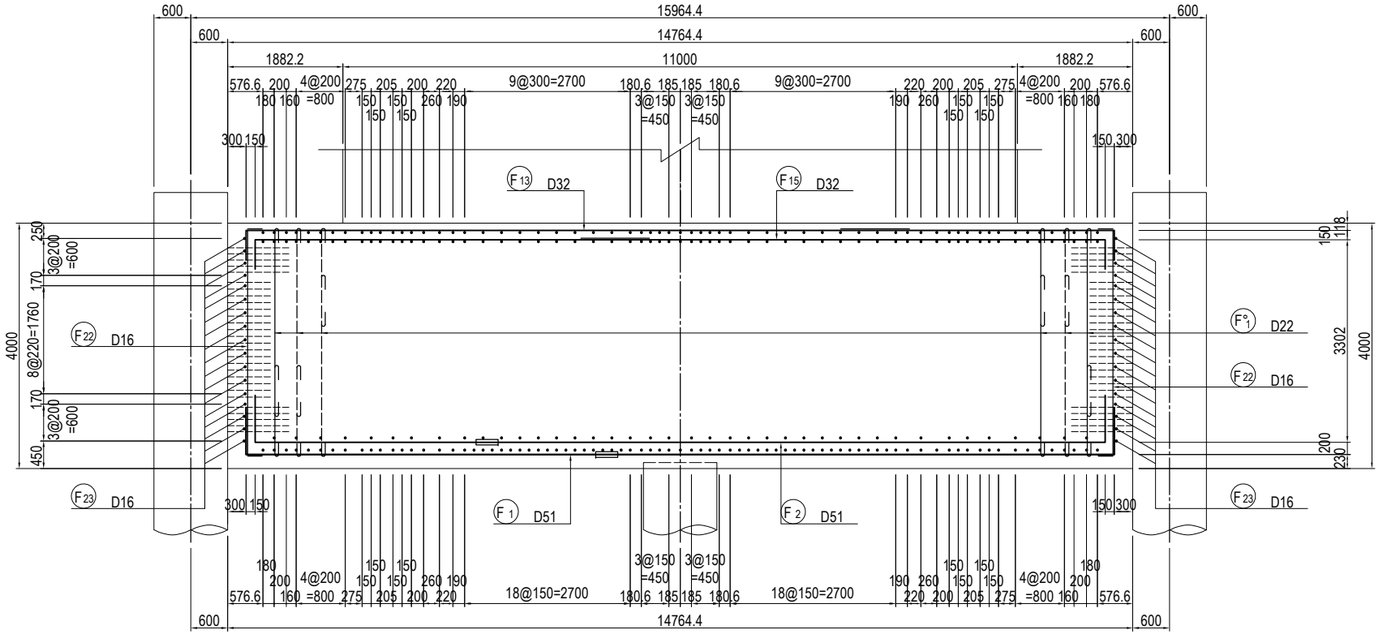
DRAWING TITLE: BAR ARRANGEMENT OF P19 PIER (15)

PACKAGE: 2

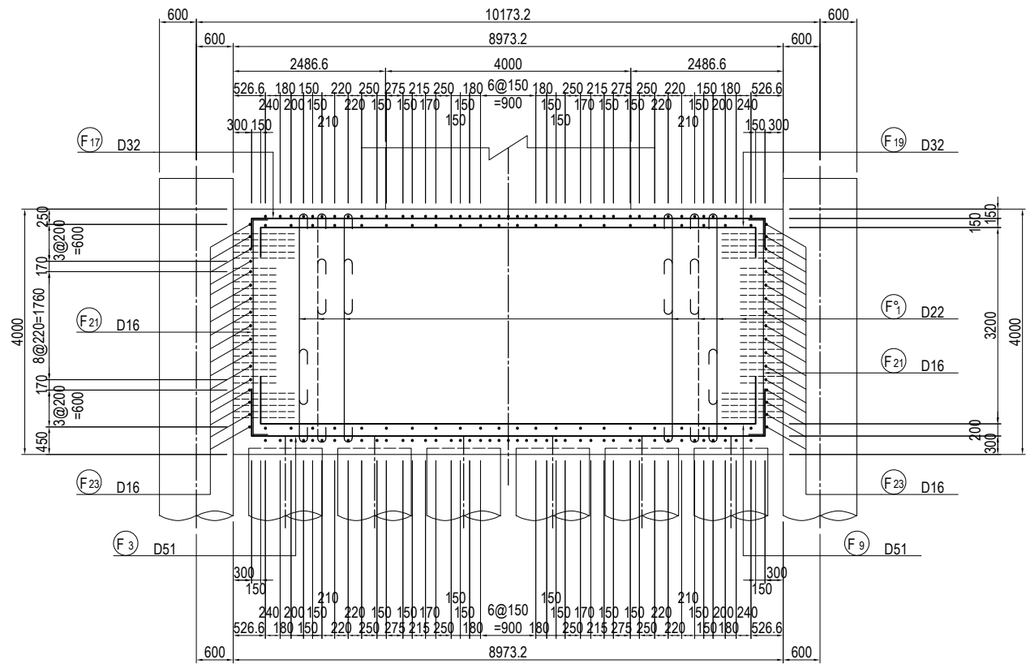
DWG No.: P2-SB-2517

BAR ARRANGEMENT OF P19 FOOTING (1) S=1:100

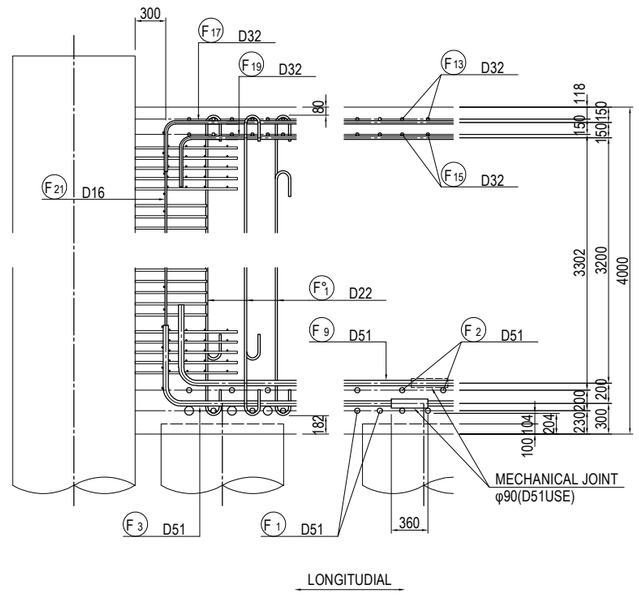
SECTION 1 - 1



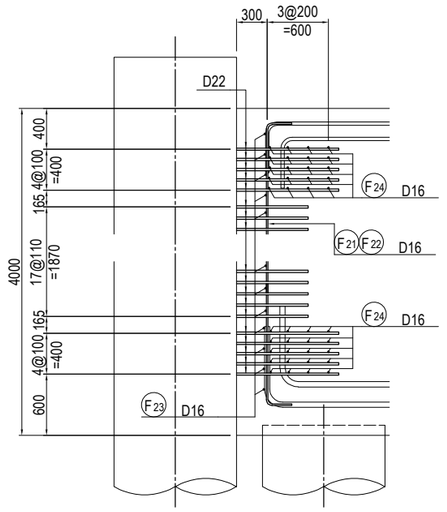
SECTION 2 - 2



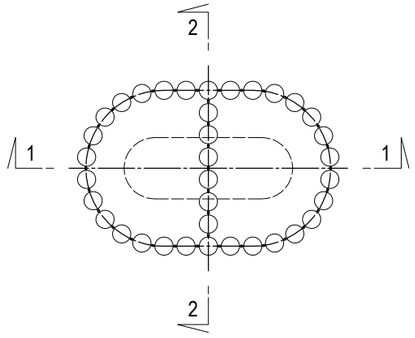
DETAIL OF PILE CAP S=1:60



DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:60



MARKING DIAGRAM



Note) : MECHANICAL JOINT

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

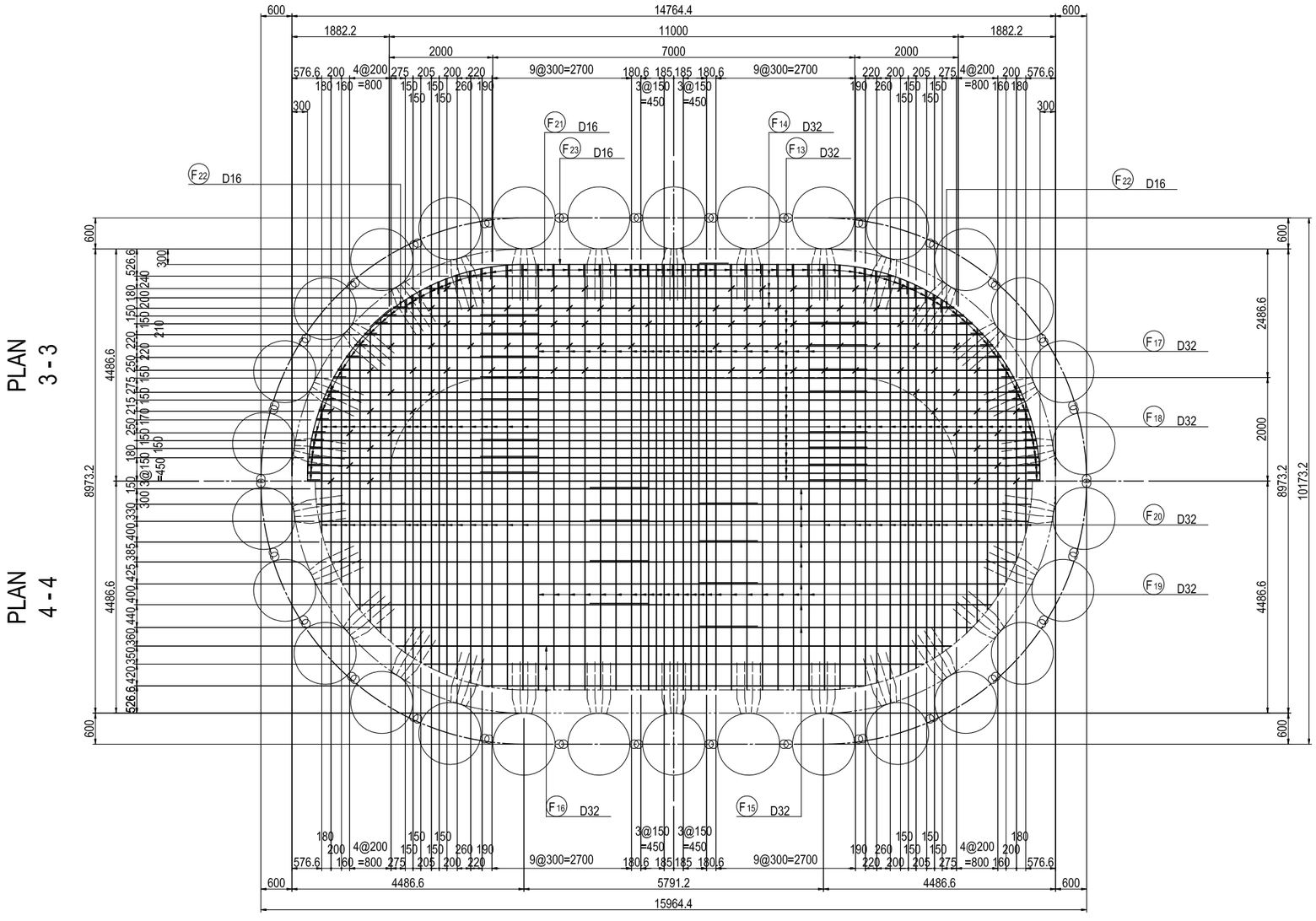
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P19 FOOTING (1)	2
	DWG No.
	P2-SB-2518

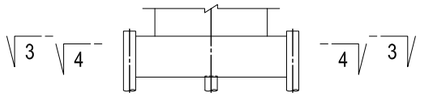
BAR ARRANGEMENT OF P19 FOOTING (2) S=1:100

PLAN 3 - 3

PLAN 4 - 4



MARKING DIAGRAM



USE MATERIALS

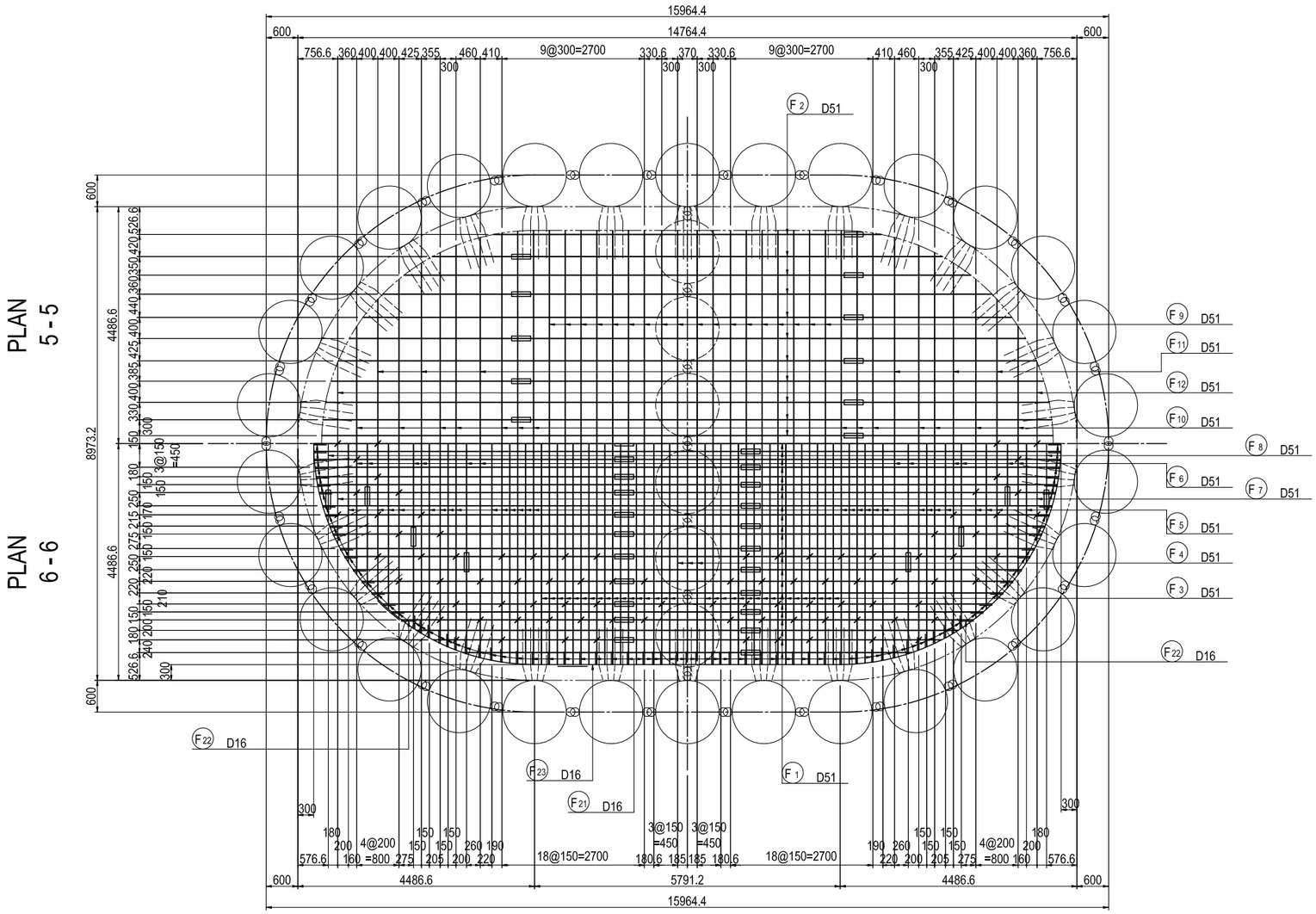
	CONCRETE	BAR
FOOTING	σck = 24 N/mm 2	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

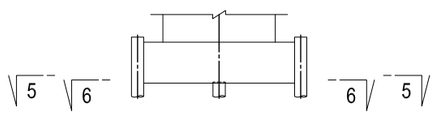
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P19 FOOTING (2)	2
	DWG No.
	P2-SB-2519

BAR ARRANGEMENT OF P19 FOOTING (3) S=1:100



MARKING DIAGRAM



Note: ⊣⊢ : MECHANICAL JOINT

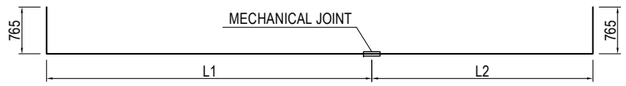
USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

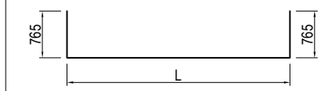
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P19 FOOTING (3)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2520

BAR ARRANGEMENT OF P19 FOOTING (4) S=1:100



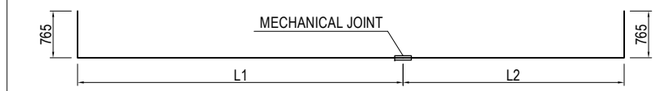
(F1)-1 43 – D51 × 8270 (AVE)　　(F1)-2 43 – D51 × 5870 (AVE)

MARKS		DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS		DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F1 -1	1	D51	1	8282	9047	F1 -2	1	D51	1	5882	6647
	2	〃	2	8280	9045		2	〃	2	5880	6645
	3	〃	2	8271	9036		3	〃	2	5871	6636
	4	〃	2	8258	9023		4	〃	2	5858	6623
	5	〃	2	8235	9000		5	〃	2	5835	6600
	6	〃	2	8209	8974		6	〃	2	5809	6574
	7	〃	2	8178	8943		7	〃	2	5778	6543
	8	〃	2	8112	8877		8	〃	2	5712	6477
	9	〃	2	8059	8824		9	〃	2	5659	6424
	10	〃	2	7979	8744		10	〃	2	5579	6344
	11	〃	2	7915	8680		11	〃	2	5515	6280
	12	〃	2	7779	8544		12	〃	2	5379	6144
	13	〃	2	7694	8459		13	〃	2	5294	6059
	14	〃	2	7533	8298		14	〃	2	5133	5898
	15	〃	2	7369	8134		15	〃	2	4969	5734
	16	〃	2	7181	7946		16	〃	2	4781	5546
	17	〃	2	6974	7739		17	〃	2	4574	5339
	18	〃	2	6807	7572		18	〃	2	4407	5172
	19	〃	2	6620	7385		19	〃	2	4220	4985
	20	〃	2	6331	7096		20	〃	2	3931	4696
	21	〃	2	6016	6781		21	〃	2	3616	4381
	22	〃	2	5454	6219		22	〃	2	3054	3819
AVE			43		8272	AVE			43		5872



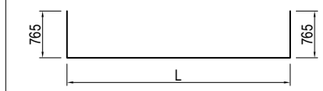
(F5) 28 – D51 × 8930 (AVE)

MARKS		DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F5	1	D51	2	8373	9903
	2	〃	2	8366	9896
	3	〃	2	8349	9879
	4	〃	2	8320	9850
	5	〃	2	8281	9811
	6	〃	2	8215	9745
	7	〃	2	7825	9355
	8	〃	2	7704	9234
	9	〃	2	7569	9099
	10	〃	2	7361	8891
	11	〃	2	6610	8140
	12	〃	2	6278	7808
	13	〃	2	5901	7431
	14	〃	2	4502	6032
AVE			28		8934



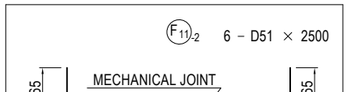
(F2)-1 22 – D51 × 9940 (AVE)　　(F2)-2 22 – D51 × 3640 (AVE)

MARKS		DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS		DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F2 -1	1	D51	2	10079	10844	F2 -2	1	D51	2	3779	4544
	2	〃	2	10057	10822		2	〃	2	3757	4522
	3	〃	2	10006	10771		3	〃	2	3706	4471
	4	〃	2	9906	10671		4	〃	2	3606	4371
	5	〃	2	9766	10531		5	〃	2	3466	4231
	6	〃	2	9558	10323		6	〃	2	3258	4023
	7	〃	2	9299	10064		7	〃	2	2999	3764
	8	〃	2	8924	9689		8	〃	2	2624	3389
	9	〃	2	8519	9284		9	〃	2	2219	2984
	10	〃	2	7985	8750		10	〃	2	1685	2450
	11	〃	2	6828	7593		11	〃	2	528	1293
AVE			22		9940	AVE			22		3640



(F10) 14 – D51 × 8600 (AVE)

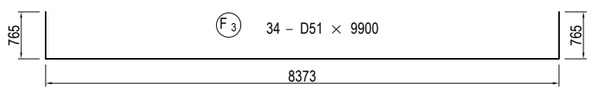
MARKS		DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F10	1	D51	2	8073	9603
	2	〃	2	8048	9578
	3	〃	2	7977	9507
	4	〃	2	7503	9033
	5	〃	2	7236	8766
	6	〃	2	6226	7756
	7	〃	2	4444	5974
AVE			14		8602



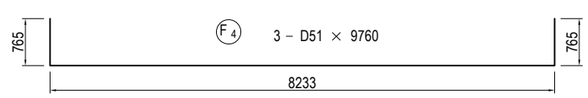
(F11)-2 6 – D51 × 2500

(F11)-1 6 – D51 × 5730 (AVE)

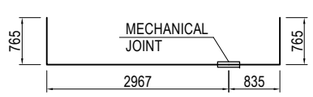
MARKS		DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F11 -1	1	D51	2	6071	6836
	2	〃	2	5104	5869
	3	〃	2	3732	4497
AVE			6		5734



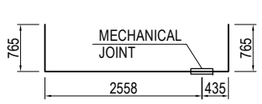
(F3) 34 – D51 × 9900



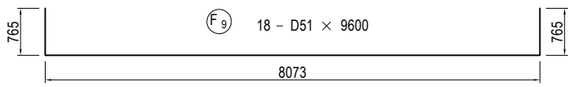
(F4) 3 – D51 × 9760



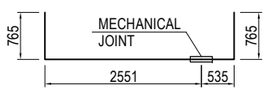
(F7)-1 2 – D51 × 3730　　(F7)-2 2 – D51 × 1600



(F8)-1 2 – D51 × 3320　　(F8)-2 2 – D51 × 1200



(F9) 18 – D51 × 9600



(F12)-1 2 – D51 × 3320　　(F12)-2 2 – D51 × 1300

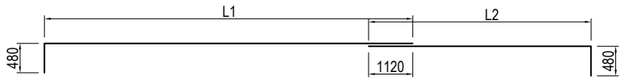
USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

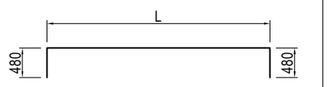
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P19 FOOTING (4)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2521

BAR ARRANGEMENT OF P19 FOOTING (5) S=1:100



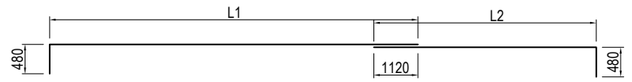
F13-1 35 – D32 × 10850 (AVE)　　F13-2 35 – D32 × 4490 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F13-1 1	D32	1	10822	11302	F13-2 1	D32	1	4462	4942
2	〃	2	10820	11300	2	〃	2	4460	4940
3	〃	2	10811	11291	3	〃	2	4451	4931
4	〃	2	10798	11278	4	〃	2	4438	4918
5	〃	2	10775	11255	5	〃	2	4415	4895
6	〃	2	10749	11229	6	〃	2	4389	4869
7	〃	2	10718	11198	7	〃	2	4358	4838
8	〃	2	10652	11132	8	〃	2	4292	4772
9	〃	2	10599	11079	9	〃	2	4239	4719
10	〃	2	10519	10999	10	〃	2	4159	4639
11	〃	2	10455	10935	11	〃	2	4095	4575
12	〃	2	10319	10799	12	〃	2	3959	4439
13	〃	2	10234	10714	13	〃	2	3874	4354
14	〃	2	10073	10553	14	〃	2	3713	4193
15	〃	2	9909	10389	15	〃	2	3549	4029
16	〃	2	9721	10201	16	〃	2	3361	3841
17	〃	2	9514	9994	17	〃	2	3154	3634
18	〃	2	9347	9827	18	〃	2	2987	3467
AVE		35		10847	AVE		35		4487



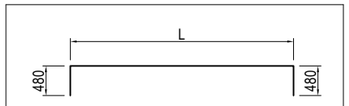
F18 40 – D32 × 7680 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F18 1	D32	2	8373	9333
2	〃	2	8349	9309
3	〃	2	8281	9241
4	〃	2	8215	9175
5	〃	2	8116	9076
6	〃	2	7966	8926
7	〃	2	7825	8785
8	〃	2	7704	8664
9	〃	2	7569	8529
10	〃	2	7361	8321
11	〃	2	7191	8151
12	〃	2	7003	7963
13	〃	2	6610	7570
14	〃	2	6278	7238
15	〃	2	5901	6861
16	〃	2	5469	6429
17	〃	2	4968	5928
18	〃	2	4502	5462
19	〃	2	3802	4762
20	〃	2	2993	3953
AVE		20		7684



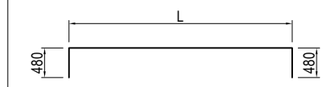
F15-1 16 – D32 × 8650 (AVE)　　F15-2 16 – D32 × 6530 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L1	TOTAL LENGTH ΣL	MARKS	DIA.	NOS. OF BARS	LENGTH L2	TOTAL LENGTH ΣL
F15-1 1	D32	2	8549	9029	F15-2 1	D32	2	6429	6909
2	〃	2	8527	9007	2	〃	2	6407	6887
3	〃	2	8476	8956	3	〃	2	6356	6836
4	〃	2	8376	8856	4	〃	2	6256	6736
5	〃	2	8236	8716	5	〃	2	6116	6596
6	〃	2	8028	8508	6	〃	2	5908	6388
7	〃	2	7769	8249	7	〃	2	5649	6129
8	〃	2	7394	7874	8	〃	2	5274	5754
AVE		16		8649	AVE		16		6529



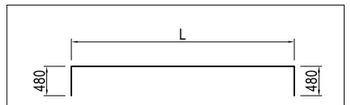
F16 6 – D32 × 10220 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F16 1	D32	2	10738	11698
2	〃	2	9671	10631
3	〃	2	7356	8316
AVE		6		10215



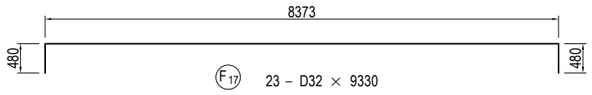
F20 40 – D32 × 7270 (AVE)

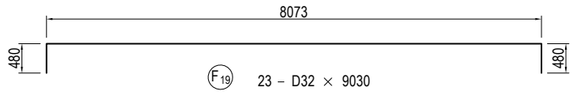
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F20 1	D32	2	8073	9033
2	〃	2	8048	9008
3	〃	2	7977	8937
4	〃	2	7909	8869
5	〃	2	7806	8766
6	〃	2	7650	8610
7	〃	2	7503	8463
8	〃	2	7377	8337
9	〃	2	7236	8196
10	〃	2	7018	7978
11	〃	2	6839	7799
12	〃	2	6641	7601
13	〃	2	6226	7186
14	〃	2	5872	6832
15	〃	2	5467	6427
16	〃	2	4998	5958
17	〃	2	4444	5404
18	〃	2	3916	4876
19	〃	2	3086	4046
20	〃	2	2006	2966
AVE		40		7265

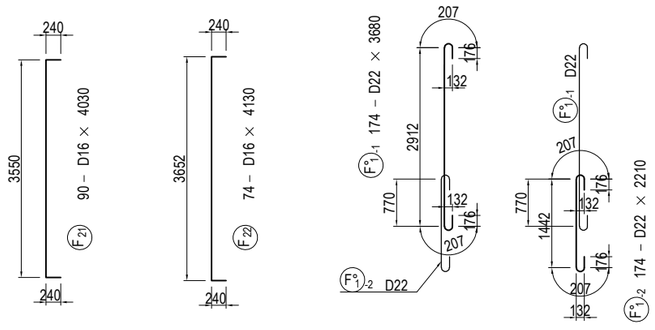


F14 8 – D32 × 10770 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
F14 1	D32	2	10840	11800
2	〃	2	10262	11222
3	〃	2	9633	10593
4	〃	2	8509	9469
AVE		8		10771







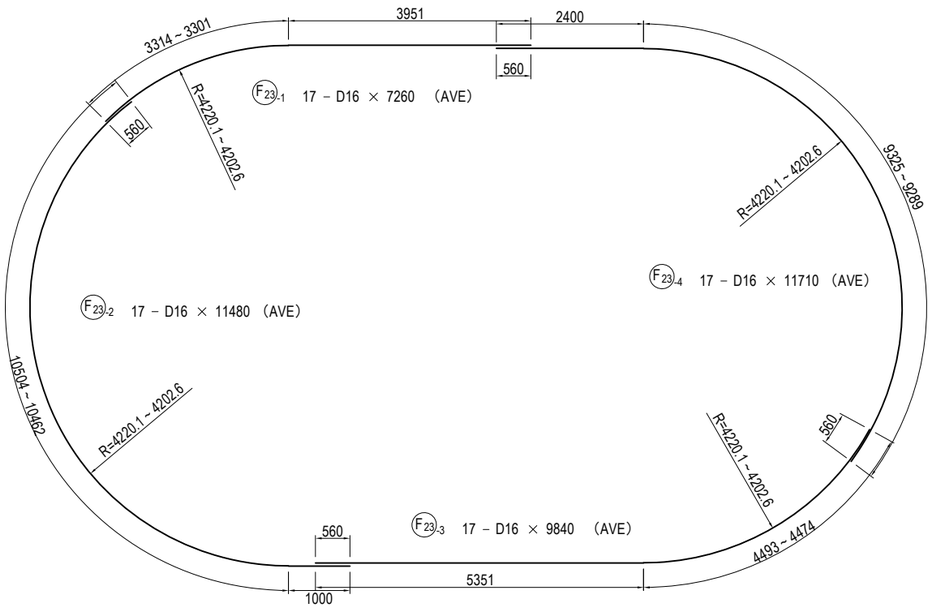
USE MATERIALS

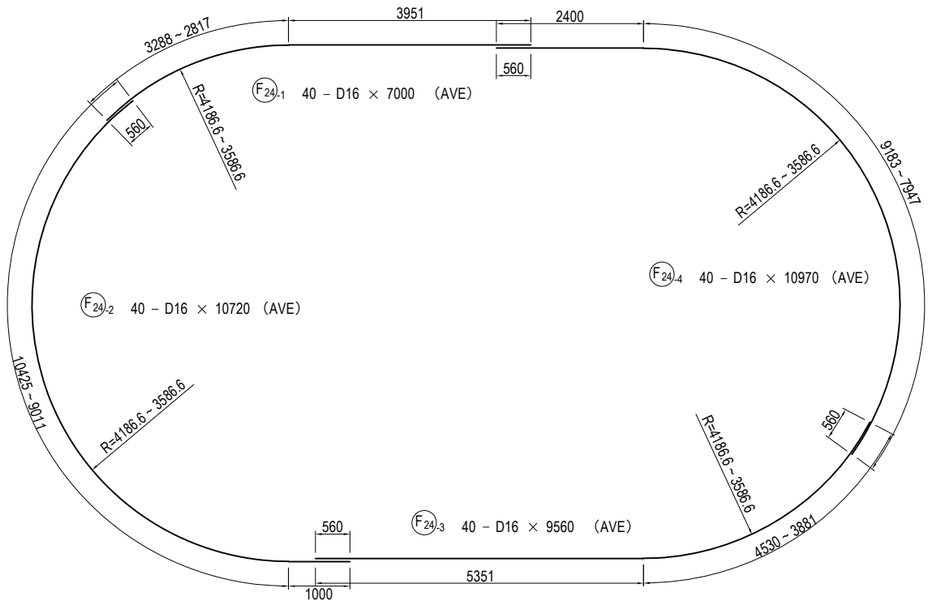
	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	BAR ARRANGEMENT OF P19 FOOTING (5)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2522

BAR ARRANGEMENT OF P19 FOOTING (6) S=1:100





Note） The joint position of the reinfocing bar is rotated 180 degrees for each step arranged.

BAR SCHEDULE

MARKS	DIA.	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	REMARKS
F 1-1	D51	8270	43	15.9	131.49	5654	(43) (AVE)
1-2	"	5870	43	"	93.33	4013	(AVE)
2-1	"	9940	22	"	158.05	3477	(22) (AVE)
2-2	"	3640	22	"	57.88	1273	(AVE)
3	"	9900	34	"	157.41	5352	
4	"	9760	3	"	155.18	466	"
5	"	8930	28	"	141.99	3976	" (AVE)
6-1	"	5820	12	"	92.54	1110	(12) (AVE)
6-2	"	2500	12	"	39.75	477	
7-1	"	3730	2	"	59.31	119	(2)
7-2	"	1600	2	"	25.44	51	
8-1	"	3320	2	"	52.79	106	(2)
8-2	"	1200	2	"	19.08	38	
9	"	9600	18	"	152.64	2748	
10	"	8600	14	"	136.74	1914	" (AVE)
11-1	"	5730	6	"	91.11	547	(6) (AVE)
11-2	"	2500	6	"	39.75	239	
12-1	"	3320	2	"	52.79	106	(2)
12-2	"	1300	2	"	20.67	41	
13-1	D32	10850	35	6.23	67.60	2366	(AVE)
13-2	"	4490	35	"	27.97	979	(AVE)
14	"	10770	8	"	67.10	537	(AVE)
15-1	"	8650	16	"	53.89	862	(AVE)
15-2	"	6530	16	"	40.68	651	(AVE)
16	"	10220	6	"	63.67	382	(AVE)
17	"	9330	23	"	58.13	1337	"
18	"	7680	40	"	47.85	1914	" (AVE)
19	"	9030	23	"	56.26	1294	"
20	"	7270	40	"	45.29	1812	" (AVE)
21	D16	4030	90	1.56	6.29	566	
22	"	4130	74	"	6.44	477	"
23-1	"	7260	17	"	11.33	193	(AVE)
23-2	"	11480	17	"	17.91	304	(AVE)
23-3	"	9840	17	"	15.35	261	(AVE)
23-4	"	11710	17	"	18.27	311	(AVE)
24-1	"	7000	40	"	10.92	437	(AVE)
24-2	"	10720	40	"	16.72	669	(AVE)
24-3	"	9560	40	"	14.91	596	(AVE)
24-4	"	10970	40	"	17.11	684	(AVE)
					SUBTOTAL	48339 kg	
F° 1-1	D22	3680	174	3.04	11.19	1947	
1-2	"	2210	174	"	6.72	1169	"
					SUBTOTAL	3116 kg	

			(MECHANICAL JOINT)
	D51	31707 kg	(89)
	D32	12134 "	
	D22	3116 "	
	D16	4498 "	
	TOTAL	51455 kg	(89)

USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm 2	SD345

PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

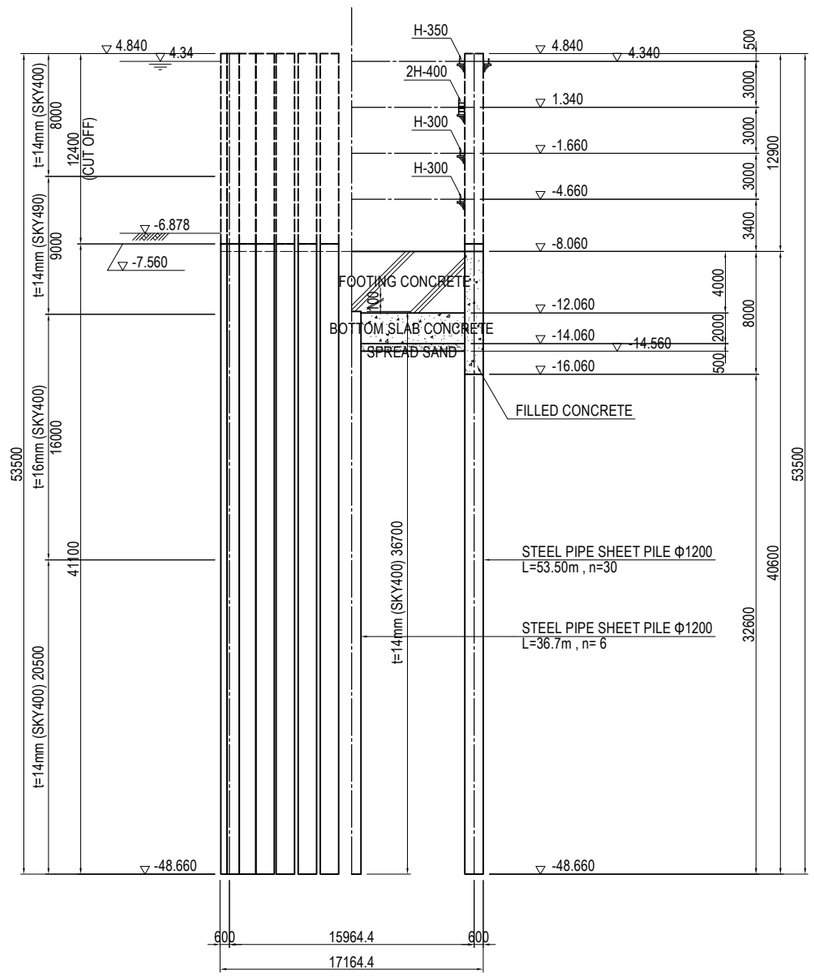
DRAWING TITLE	PACKAGE
BAR ARRANGEMENT OF P19 FOOTING (6)	2
	DWG No.
	P2-SB-2523

GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P19 PIER

S=1:400

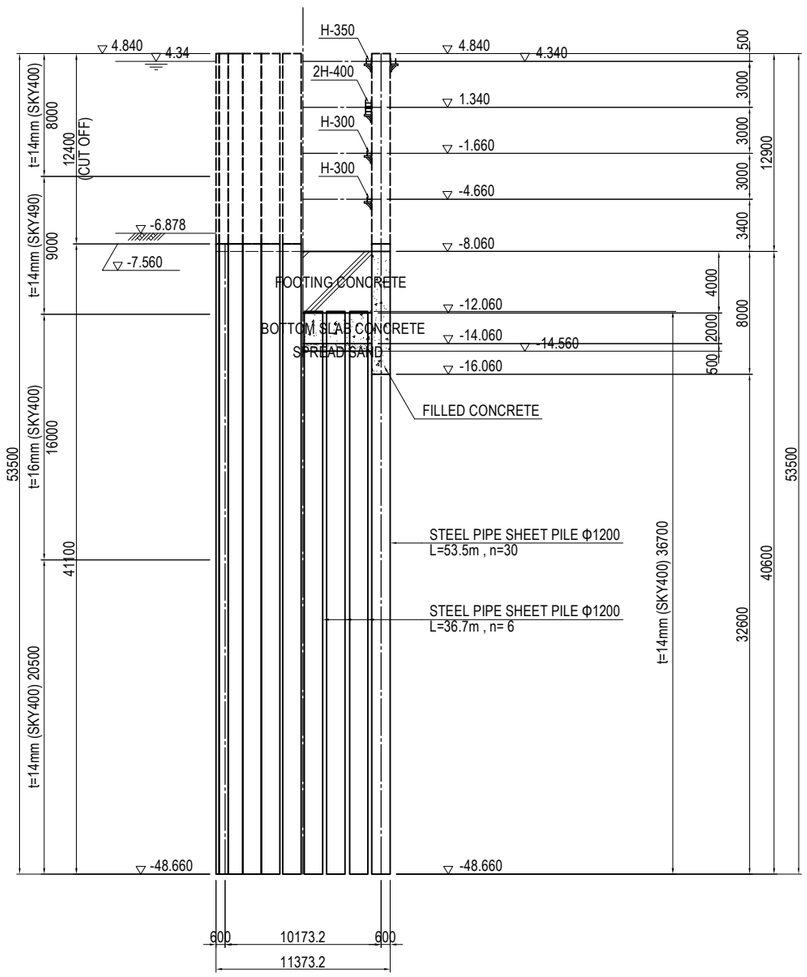
FRONT ELEVATION

1 - 1　　2 - 2

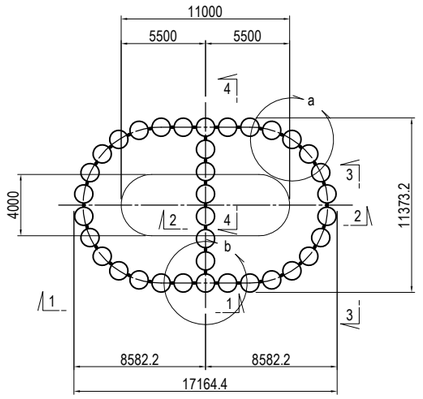


SIDE ELEVATION

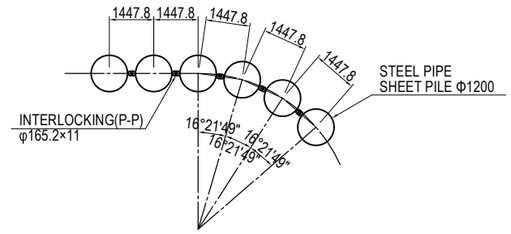
3 - 3　　4 - 4



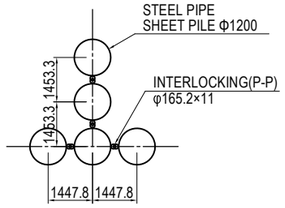
PLAN



DETAIL a　S=1:200



DETAIL b　S=1:200



USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm²	SD345

Note: Temporary support can be used for reference only.

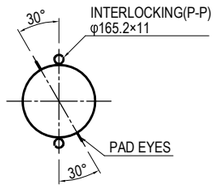
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P19 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2524

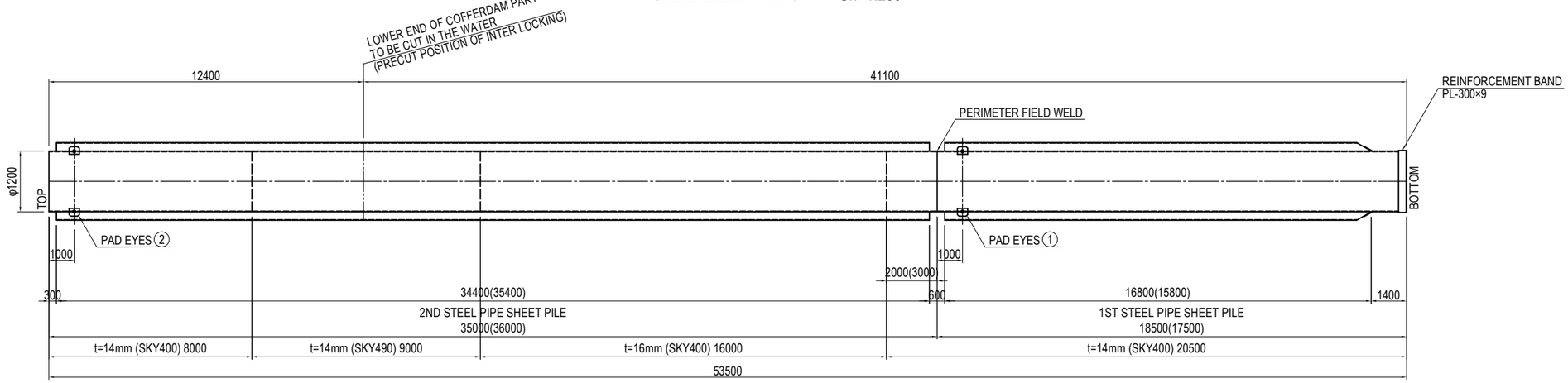
DETAIL OF STEEL PIPE SHEET PILE OF P19 PIER (1)

CROSS SECTION S=1:200

TYPE A
(TYPE B)

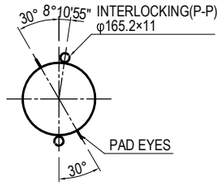


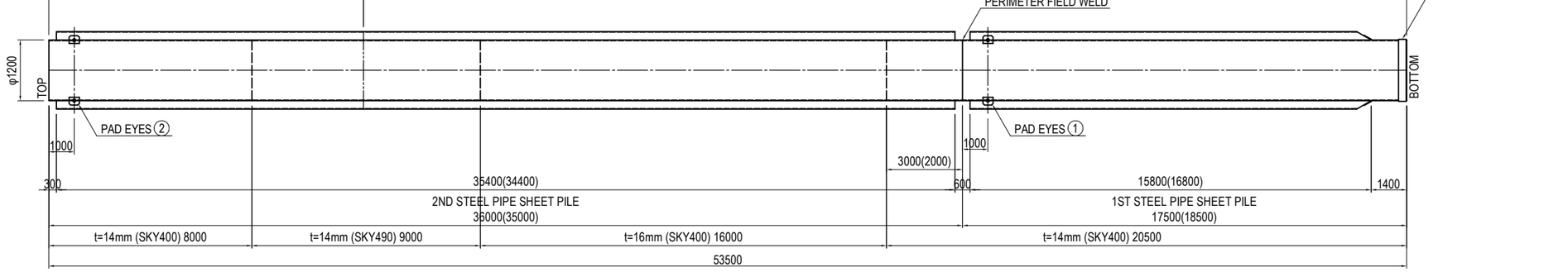
SIDE ELEVATION Sv=1:100 Sh=1:200



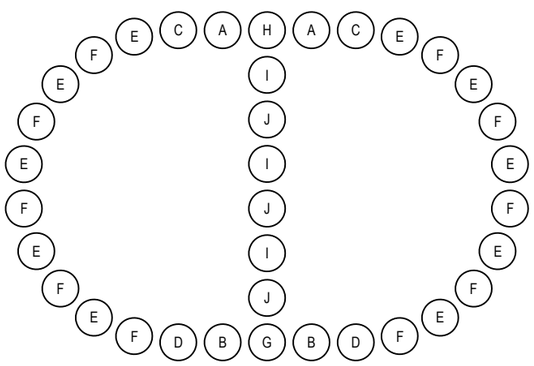
CROSS SECTION S=1:200

TYPE C
(TYPE D)



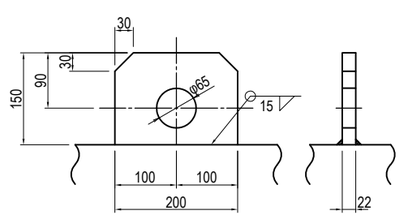


STEEL PIPE SHEET PILE TYPE AND POSITION

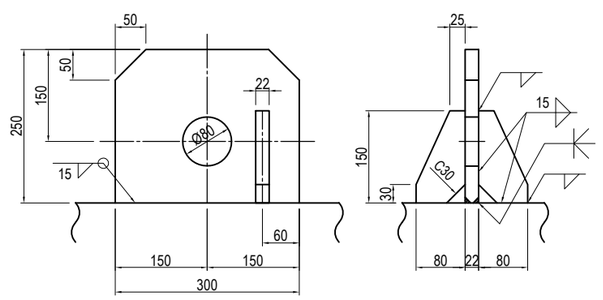


DETAIL OF EYES S=1:10

PAD EYES ① PL-200x150x22(SM490A)



PAD EYES ② PL-300x250x22(SM490A)



Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

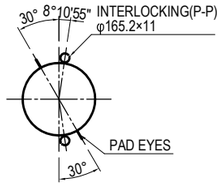
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF STEEL PIPE SHEET PILE OF P19 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2525

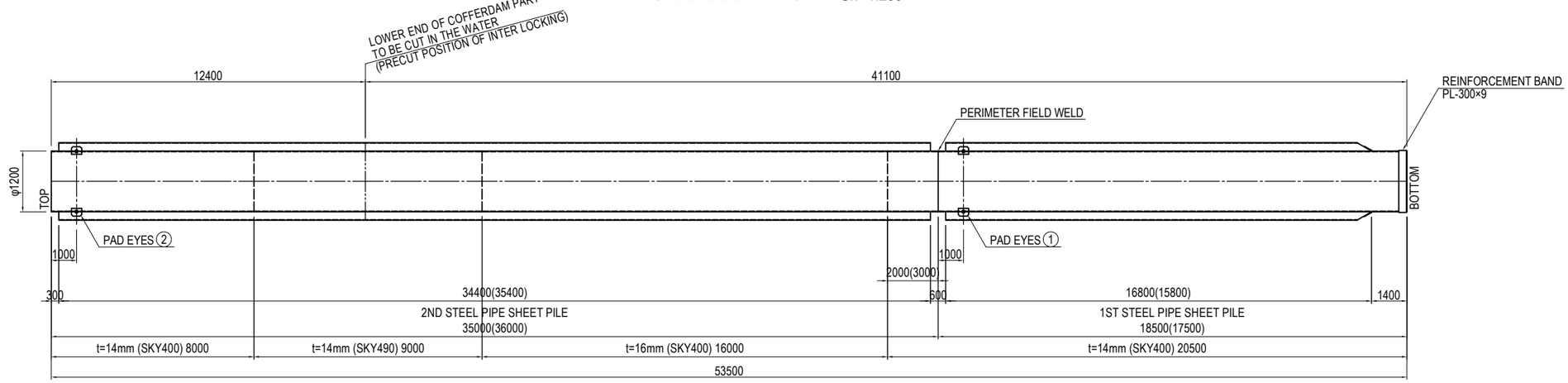
DETAIL OF STEEL PIPE SHEET PILE OF P19 PIER (2)

CROSS SECTION S=1:200

TYPE E
(TYPE F)

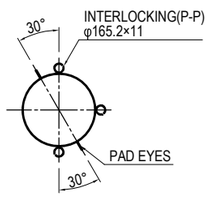


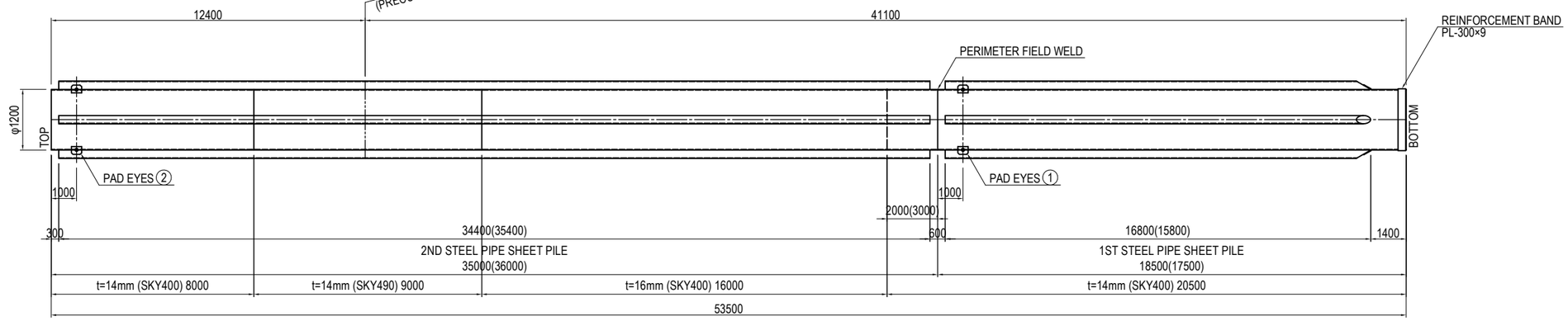
SIDE ELEVATION Sv=1:100 Sh=1:200



CROSS SECTION S=1:200

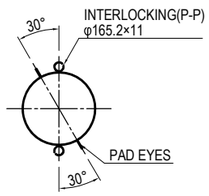
TYPE G
(TYPE H)

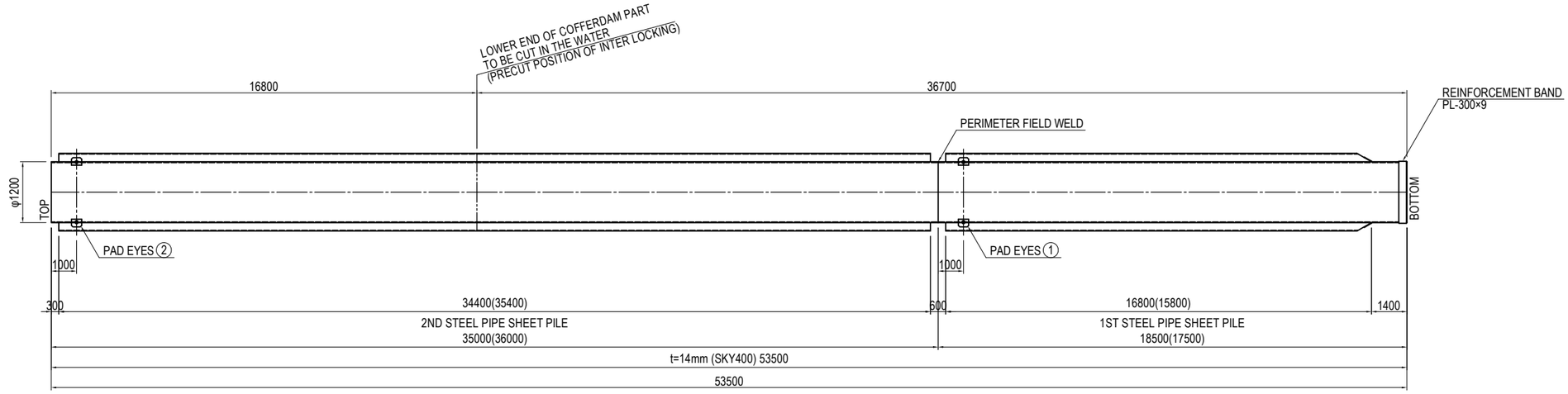




CROSS SECTION S=1:200

TYPE I
(TYPE J)





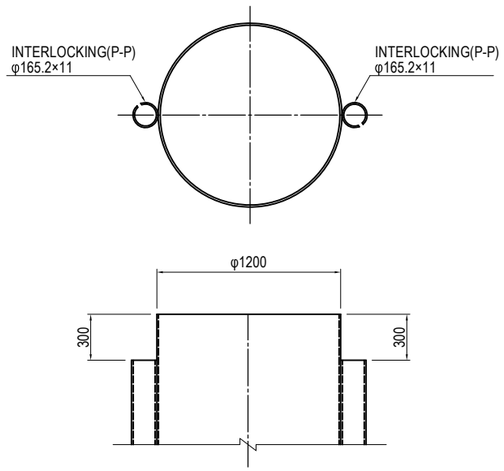
Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

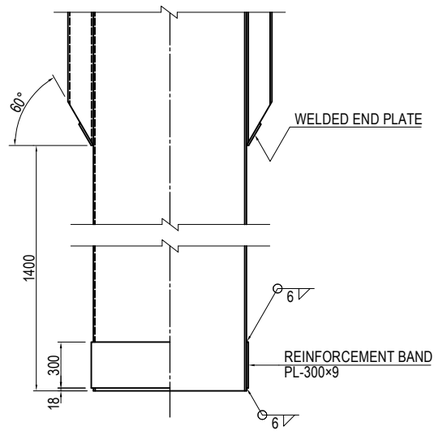
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF STEEL PIPE SHEET PILE OF P19 PIER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2526

DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P19 PIER

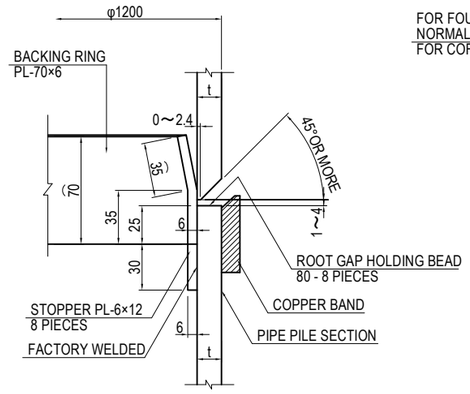
DETAIL OF STEEL PIPE SHEET PILE TOP S=1:40



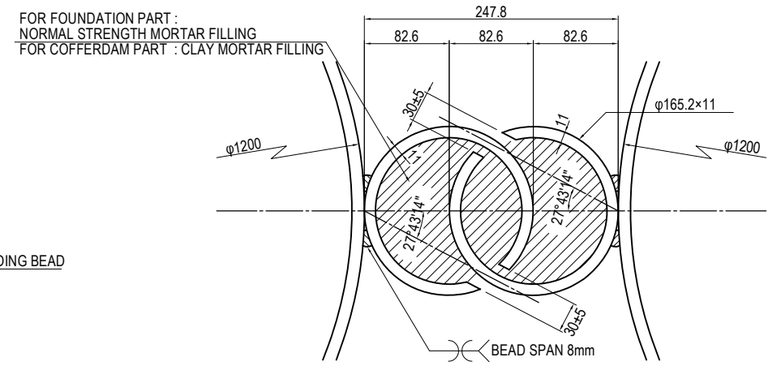
DETAIL OF STEEL PIPE SHEET PILE TOE S=1:40



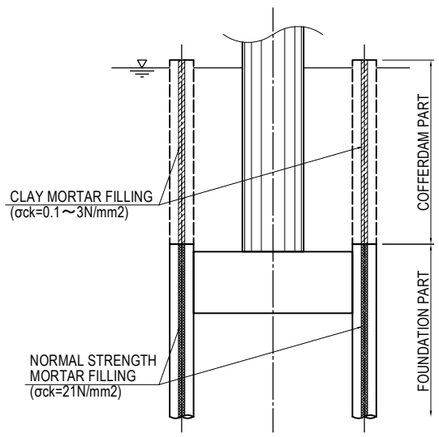
DETAIL OF PERIMETER FIELD WELDING OF STEEL PIPE SHEET PILE S=1:4



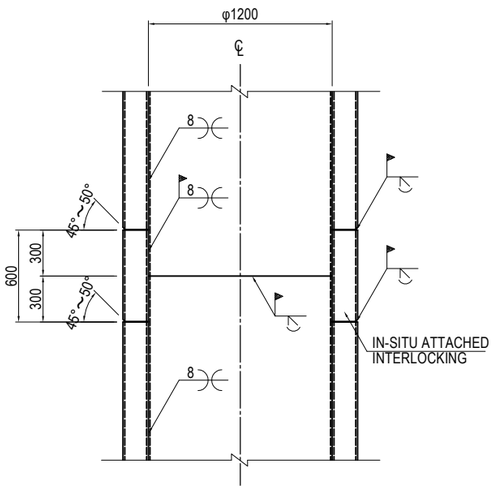
DETAIL OF CONNECTED INTERLOCKING(P-P) S=1:6



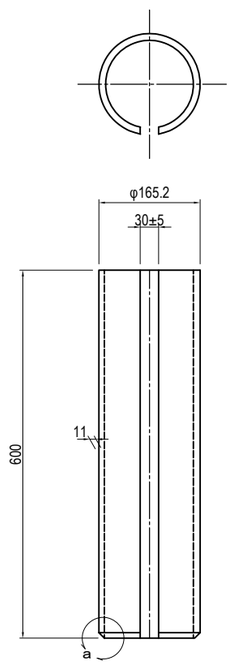
TREATMENT OF STEEL PIPE SHEET PILE INTERLOCKING



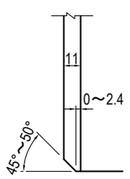
DETAIL OF IN-SITU LONGITUDINAL WELDING PART S=1:40



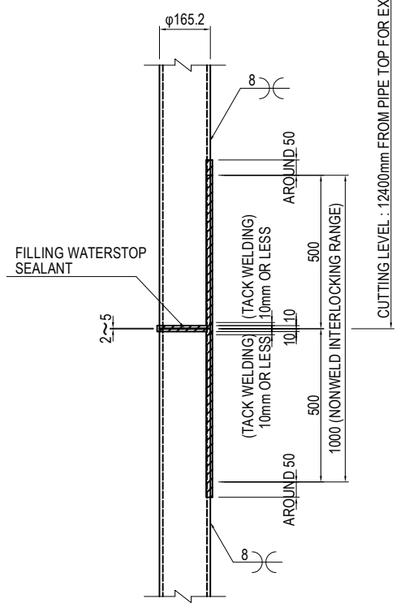
DETAIL OF IN-SITU ATTACHED INTERLOCKING S=1:10



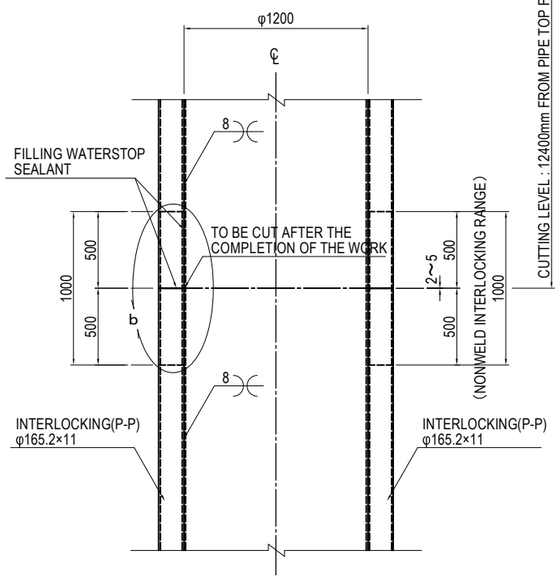
DETAIL a



DETAIL b



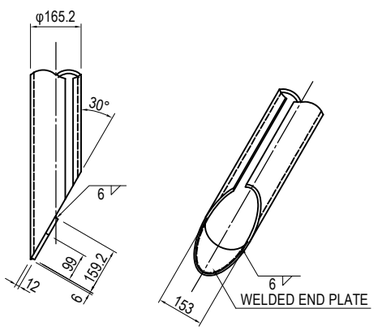
DETAIL OF PRECUT INTERRLOCKING S=1:40



CUTTING LEVEL : 12400mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING

CUTTING LEVEL : 12400mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING

DETAIL OF INTERRLOCKING TOE S=1:20

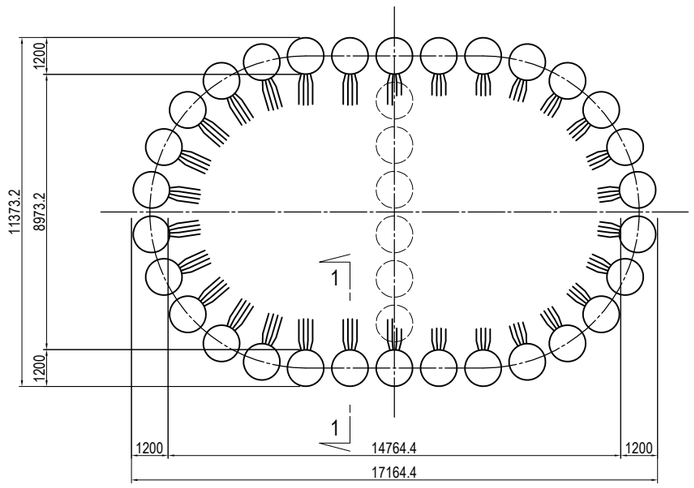


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

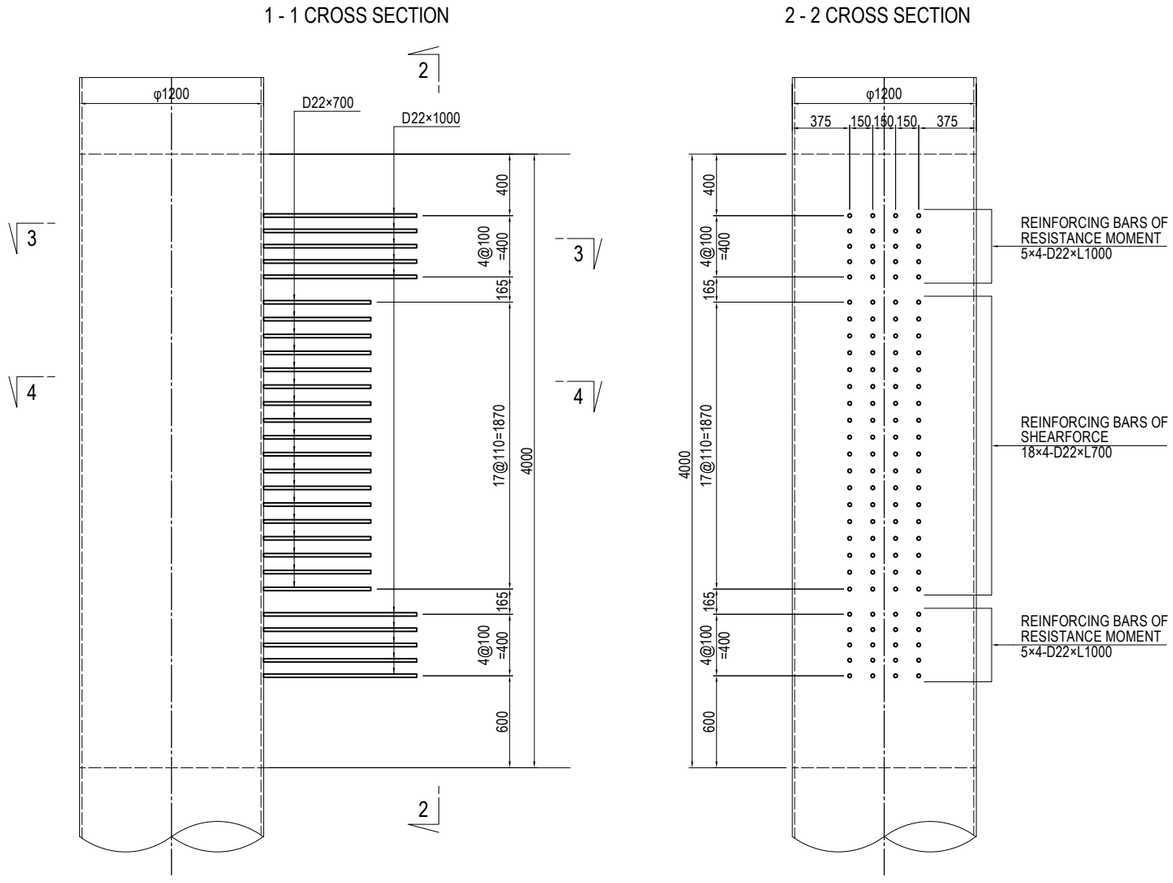
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P19 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2527

DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P19 PIER

PLAN S=1:200

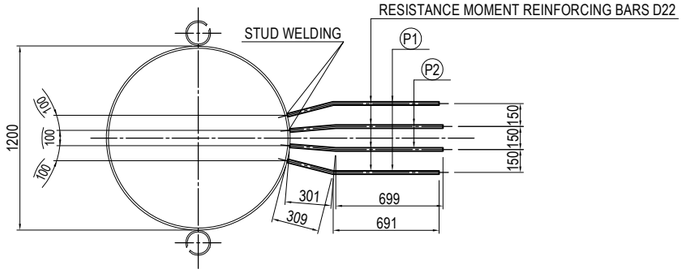


DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:40

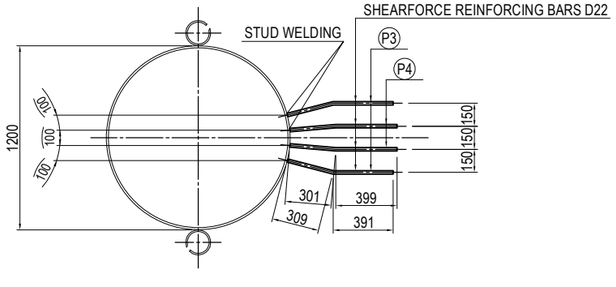


CROSS SECTION OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND REINFORCING BARS S=1:40

3 - 3 CROSS SECTION
(RESISTANCE MOMENT REINFORCING BARS CONNECTION PART)



4 - 4 CROSS SECTION
(SHEARFORCE REINFORCING BARS CONNECTION PART)



FABRICATION OF REINFORCING BARS S=1:40

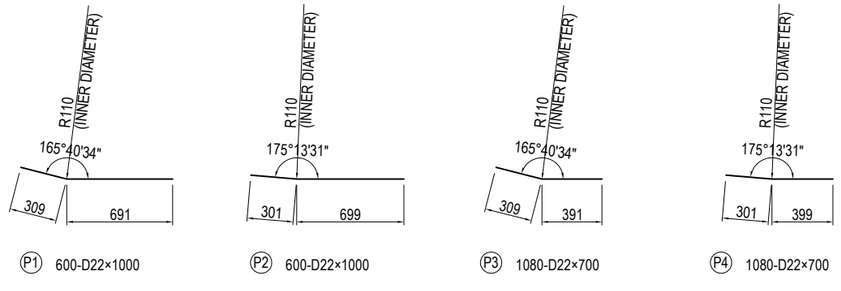


TABLE OF REINFORCING BARS

MARK	TYPE	LENGTH (mm)	PIECES (piece)	UNIT WEIGHT (kg/m)	UNIT WEIGHT (kg/piece)	WEIGHT (kg)	GRADE	MEMO
P1	D22	1000	600	3.04	3.04	1824.0	SD345 for STUD WELDING	
P2	D22	1000	600	3.04	3.04	1824.0	SD345 for STUD WELDING	
P3	D22	700	1080	3.04	2.13	2300.4	SD345 for STUD WELDING	
P4	D22	700	1080	3.04	2.13	2300.4	SD345 for STUD WELDING	
				D22		8248.8	kg	
				TOTAL WEIGHT		8248.8	kg	

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

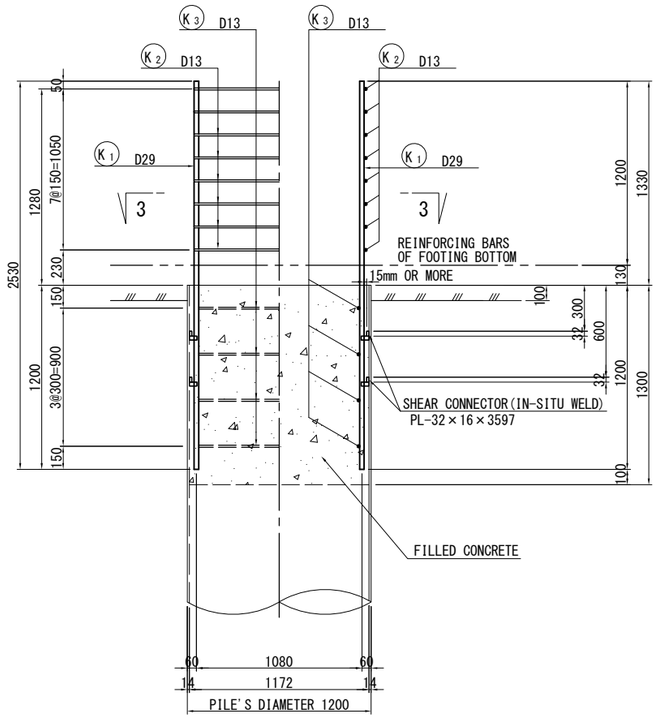
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

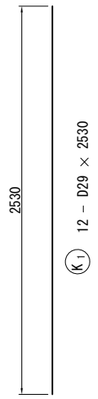
DRAWING TITLE	PACKAGE
DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P19 PIER	2
	DWG No.
	P2-SB-2528

DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P19 PIER S=1:40

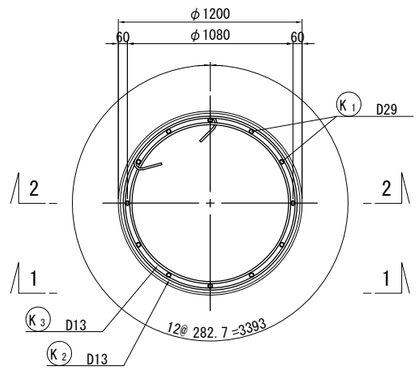
DETAIL OF PILE TOP

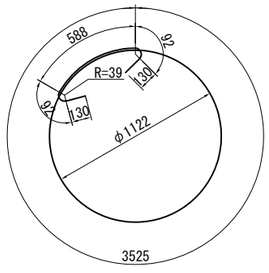
1 - 1　　2 - 2



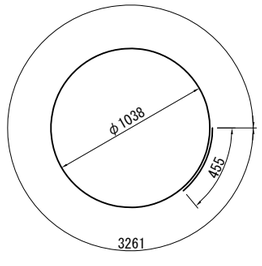


3 - 3





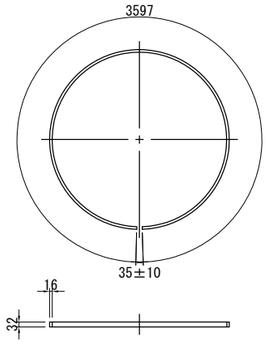
K2　8 - D13 × 4560



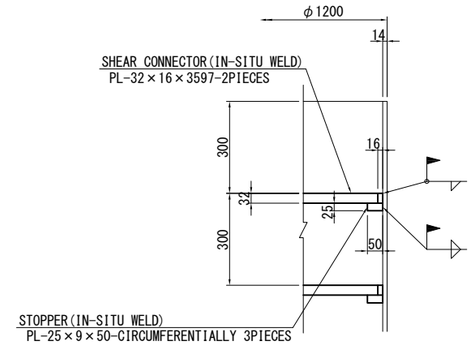
K3　4 - D13 × 3720

DETAIL OF ATTACHMENT OF SHEAR CONNECTOR

CENTER OF LENGTH



SETTING IN THE FIELD S=1:20



MATERIAL LIST

WEIGHT/EA.

MARKS	SECTION SIZE	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/EA. (kg)	WEIGHT (kg)	MATERIAL	REMARKS
PILE TOP ACCOMPANYING ITEMS								
PL	PL-32*16	3597	2	4.019	14.456	28.9	SS400	SHEAR CONNECTOR
PL	PL-25*9	50	6	1.766	0.088	0.5	SS400	STOPPER
REINFORCEMENT								
K1	D29	2530	12	5.04	12.75	153	SD345	I
K2	D13	4560	8	0.995	4.54	36.3	SD345	○
K3	D13	3720	4	0.995	3.70	14.8	SD345	○
TOTAL						204		
FILLED CONCRETE　(σck = 24 N/mm^2)								
V = 1/4 × π × 1.172^2 × 1.300　=　1.402 m^3								

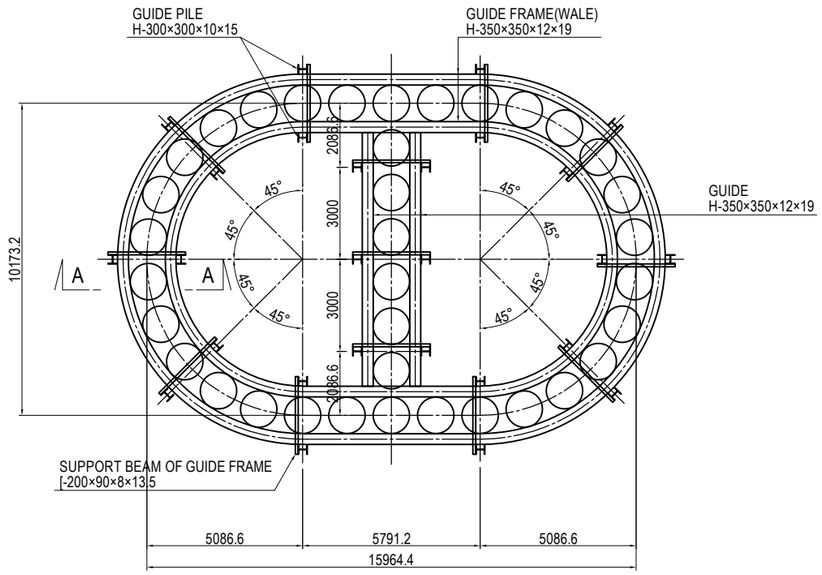
ITEM	DIVISION		UNIT CONTENT	WEIGHT/EA.	QUANTITY
NUMBER OF PILE			Number		6
PILE TOP	SS400	TOTAL	kg	29.4	176.4
REINFORCEMENT	SD345	D29	kg	153	918
		D13	kg	51	307
		TOTAL	kg	204	1225
FILLED CONCRETE	σck = 24 N/mm^2		m^3	1.402	8.4

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

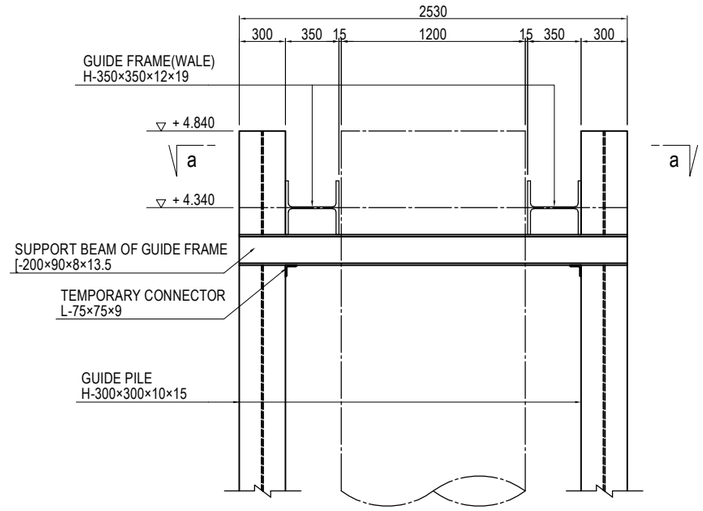
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P19 PIER	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2529

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P19 PIER (1)

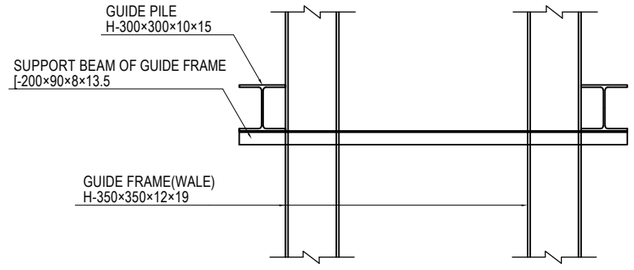
LAYOUT PLAN OF GUIDE FRAMES AND GUIDE PILES S=1:200



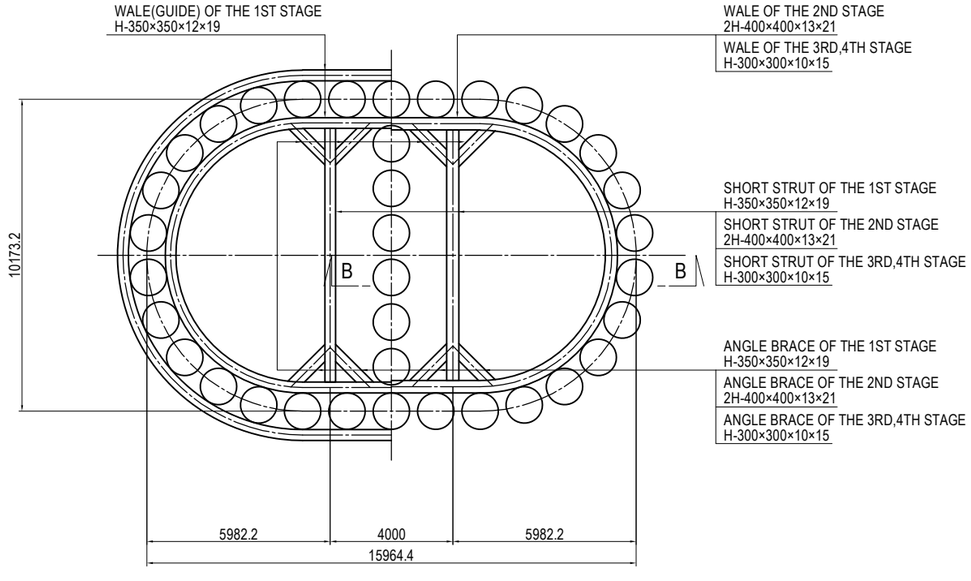
DETAIL OF ATTACHMENT OF GUIDE PILES AND GUIDE FRAMES S=1:40



a - a



LAYOUT PLAN OF STRUTS AND WALES S=1:200

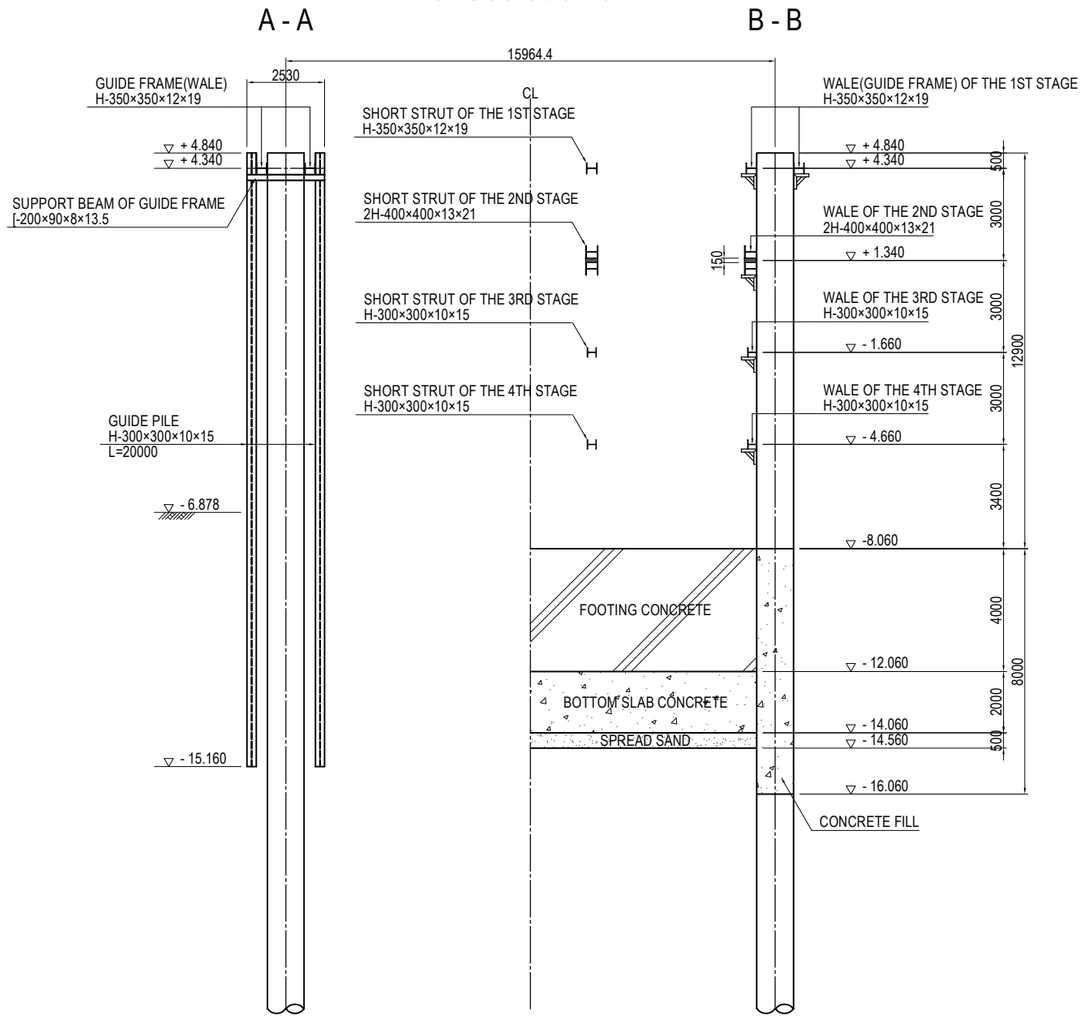


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

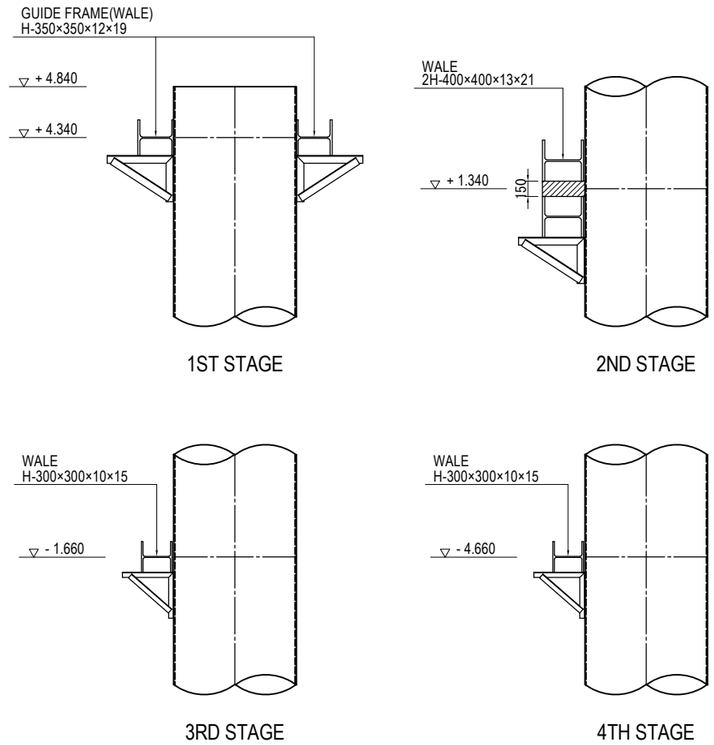
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P19 PIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2530

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P19 PIER (2)

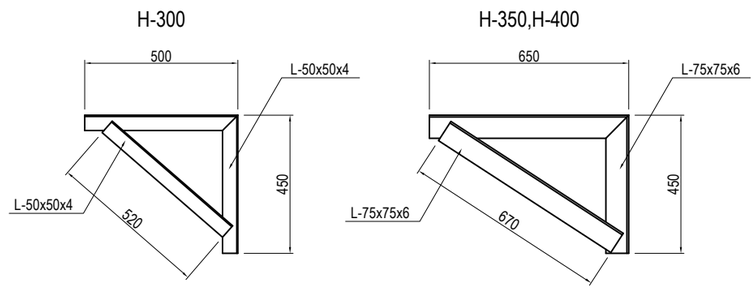
CROSS SECTION S=1:200



DETAIL OF ATTACHMENT OF WALE S=1:60



DETAIL OF BRACKET S=1:20

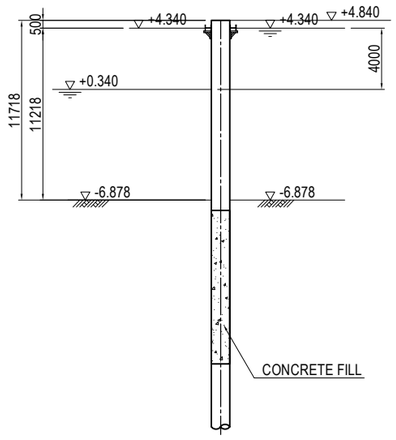


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P19 PIER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-2531

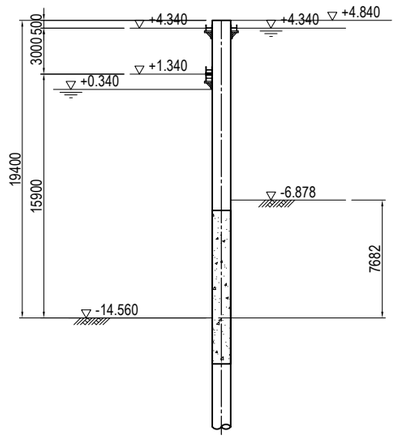
(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P19 PIER S=1:400

STEP 1



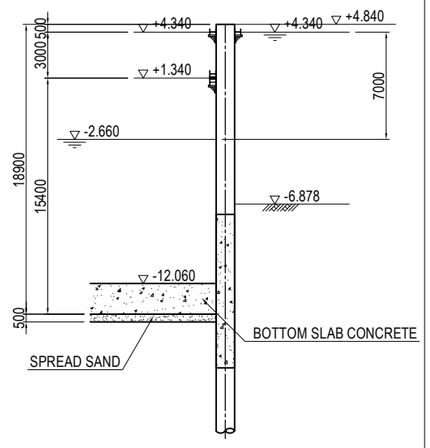
Excavate inside of exterior sheet pilles and filled with concrete as shown.
Draining the inside of cofferdam up to +0.340m level.
The 1st support Installation.

STEP 2



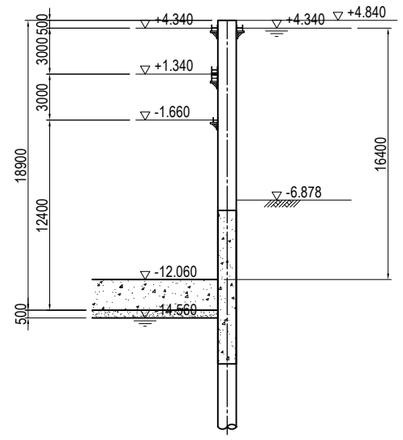
The 2nd support Installation.
Underwater excavation up to -14.560m level.

STEP 3



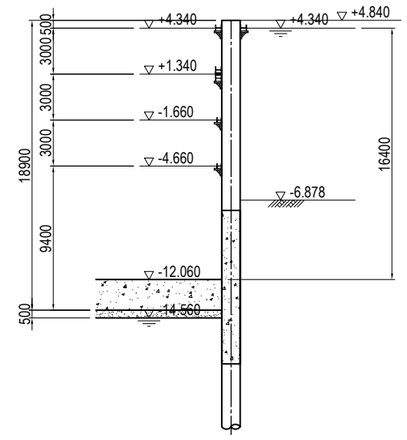
Draining the inside of cofferdam up to -2.660m level.
Placement of spread sand followed by
Casting undeawater bottom slab concrete.

STEP 4



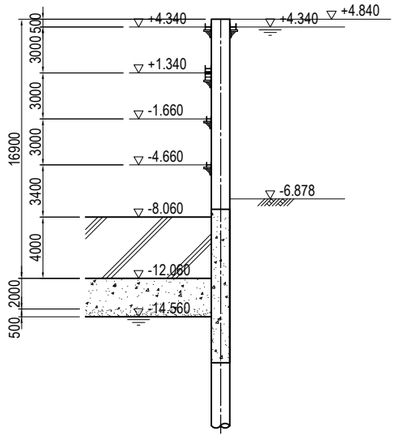
The 3rd support Installation.
Dry up inside the cofferdam.

STEP 5



The 4th support Installation.

STEP 6

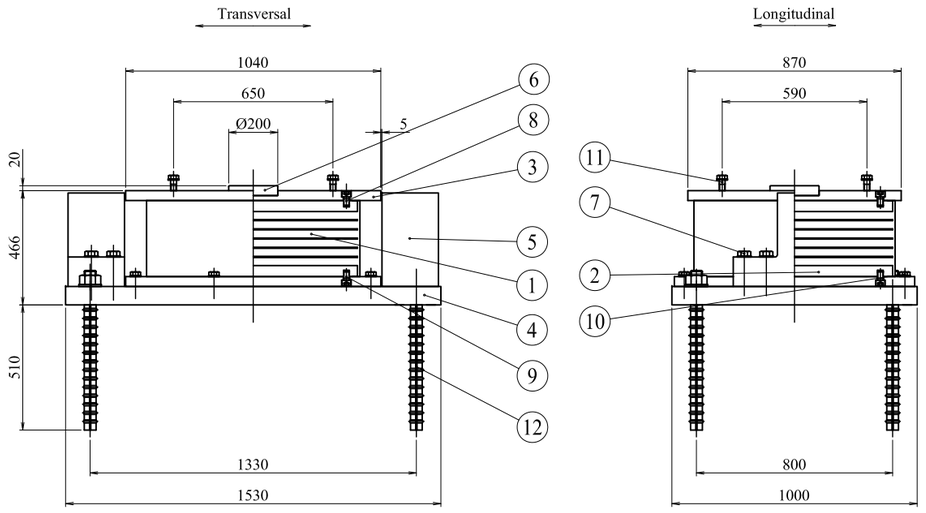


Casting of footing concrete.

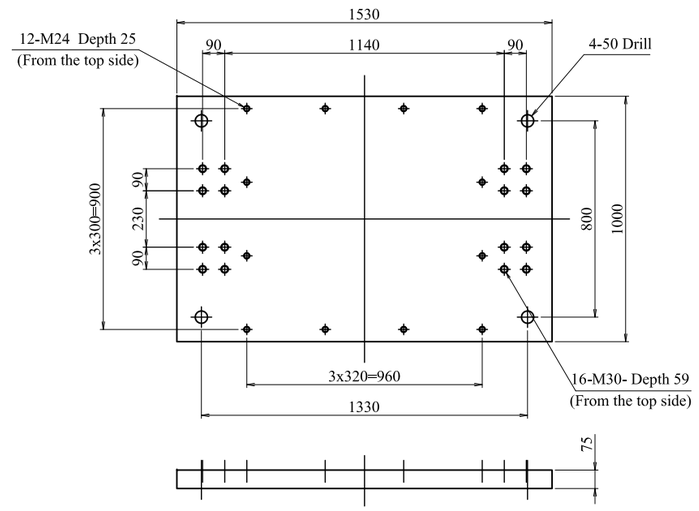
Note : This drawing can be used for reference only.

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.			
				NAME	SIGNATURE / DATE
				PREPARED BY	S. IMADA — 15 Jun.2017
				CHECKED BY	T. HAYAKAWA — 20 Jun.2017
				APPROVED BY	Y. SANO — 21 Jun.2017
				DRAWING TITLE	(REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P19 PIER
				PACKAGE	2
				DWG No.	P2-SB-2532

DETAIL OF RUBBER BEARING (MOVABLE TYPE, P13) (1) S=1:25



④ ▽ SM490A



Design conditions

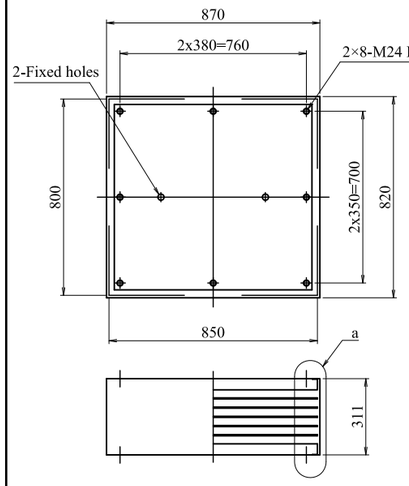
Maximum Reaction Load	R	3178	kN
Dead Load	Rd	2188	kN
Transversal Horizontal Force (EQ Level 1)	Rh2	668	kN
Uplift Load (Earthquake)	V	219	kN
Displacement			
Longitudinal Displacement (Temperature)	ΔL	± 118.9	mm
Rubber			
Static Elastic Shear Modulus	G0	1.0	N/mm²
Elongation at Break	γu	550	%
Testing Load for Rotation	R1	3123	kN
Vertical Deflection (at Rotation Checking)	δr	2.67	mm
Testing Load	R1L	515.5	kN
Vertical Deflection with Testing Load	δcL	0.69	mm
Support Condition of Bearing			
Longitudinal Direction: Move	Transversal Direction: Fix		

Material

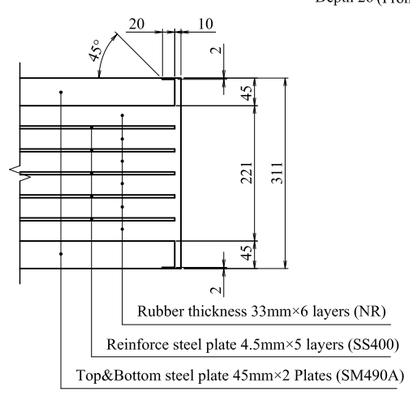
Num	Part	Material	Qty.	Weight (kg)	Note
1	Rubber	NR+SS400+SM490A	1	766.1	
2	Middle Plate	SM490A	1	315.6	
3	Upper Plate	SM490A	1	276.2	
4	Base Plate	SM490A	1	889.9	
5	Side Block	SM490A or SCW480N	2	336.5	
6	Shear Key	SM490A	1	9.9	
7	Hexagon Bolt +Washer	———	16	20.3	
8	Hexagon Socket Head Cap Screws Bolt	———	8	2.1	
9	Hexagon Socket Head Cap Screws Bolt	———	8	2.1	
10	Hexagon Bolt +Washer	———	12	4.3	
11	Hexagon Bolt +Washer	———	4	1.7	
12	Anchor Bolt +Washer	SD345	4	44.2	
Total weight				2668.9 (kg)	

Notes;
1) Surface treatment shall be Hot Dipped Galvanized for steel block and plate with more than 550kg/sq.m and bolt, nut, washer with more than 350kg/sq.m.
2) Weight of bolt ⑪ is reference value.
3) Detail of Fix holes shall be decided by bearing manufacture in necessary.
4) Details of the slab and girder are designed based on the product shown in this Drawing.
5) The Contractor has option to propose an alternative equivalent to the specified product, which shall be subjected to the Engineer's approval.

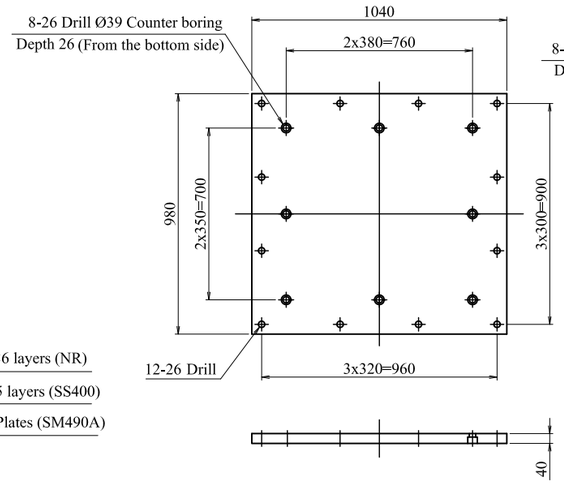
① ▽ NR+SS400+SM490A



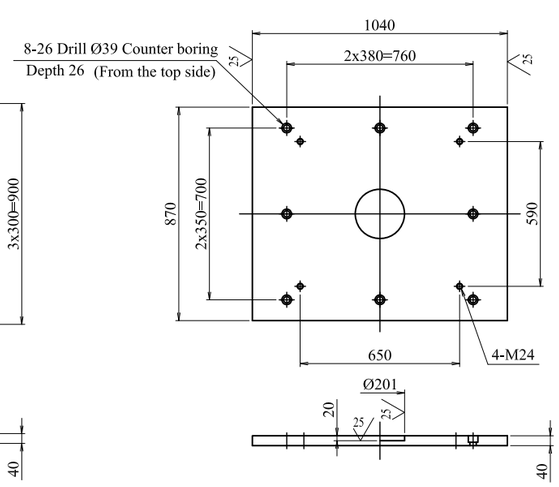
Detail "a" S=1:5



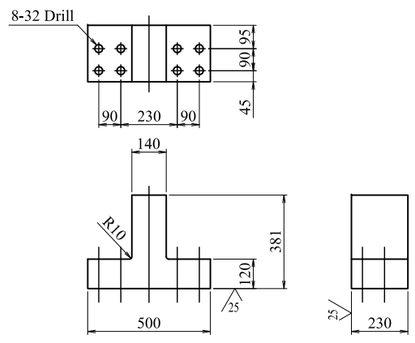
② ▽ SM490A



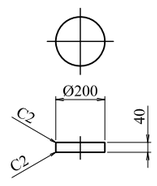
③ ▽ (25▽) SM490A



⑤ ▽ (25▽) SM490A or SCW480N

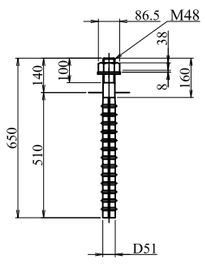


⑥ 25▽ SM490A



⑫ ▽ SD345

D51 (Attached washer)



⑦ Hexagon bolt M30×180 8.8 or Equivalent (Washer attached)

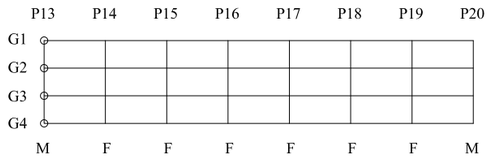
⑧ Hexagon socket head cap screws bolt M24×40 10.9 or Equivalent

⑨ Hexagon socket head cap screws bolt M24×40 10.9 or Equivalent

⑩ Hexagon bolt M24×65 8.8 or Equivalent (Washer attached)

⑪ Hexagon bolt M24× 8.8 or Equivalent (Washer attached)

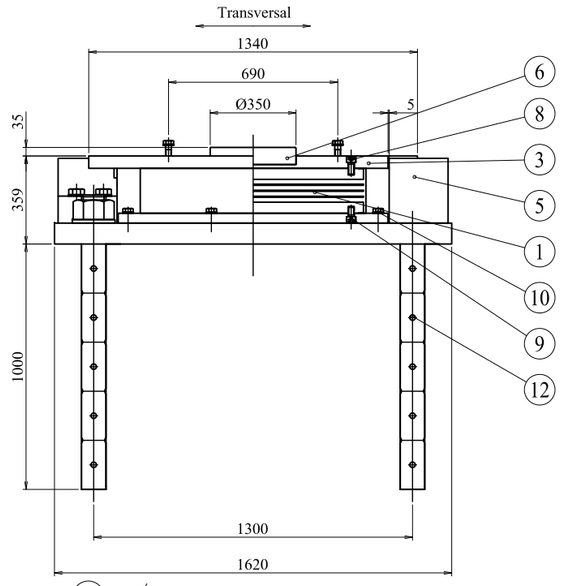
LAYOUT

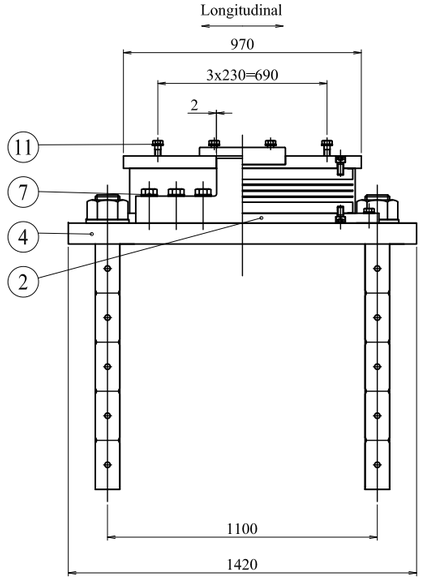


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

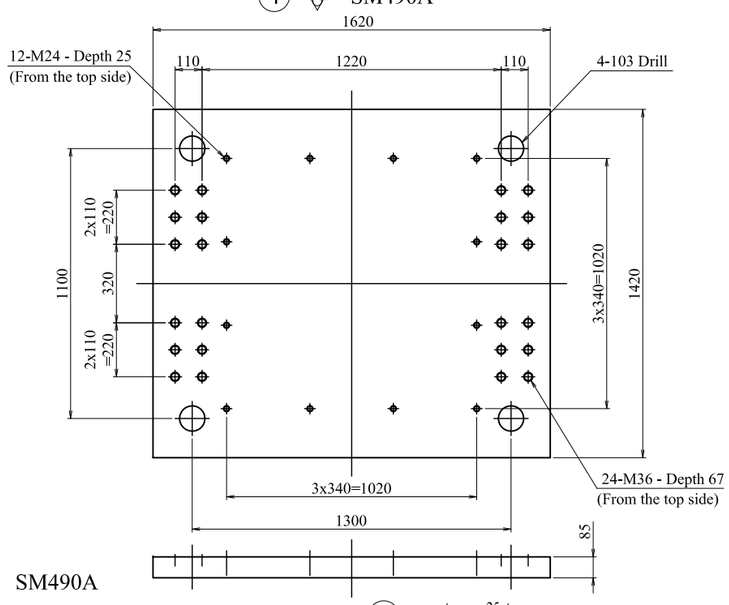
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF RUBBER BEARING (MOVABLE TYPE,P13) (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-3001

DETAIL OF RUBBER BEARING (FIXED TYPE, P14 & P19) (2) S=1:25





① ▽ NR+SS400+SM490A



② ▽ SM490A

③ ▽ (▽25) SM490A

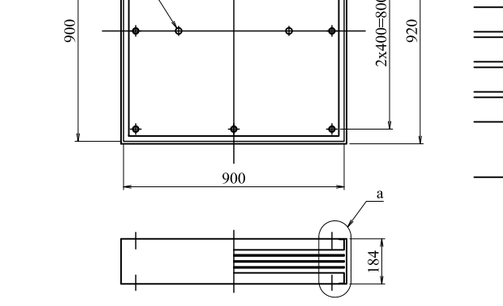
Design conditions

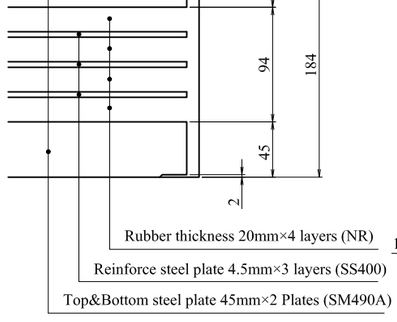
Maximum Reaction Load	R	8070	kN
Dead Load	Rd	6101	kN
Longitudinal Horizontal Force (EQ Level 1)	Rh1	2060	kN
Transversal Horizontal Force (EQ Level 1)	Rh2	1892	kN
Uplift Load (Earthquake)	V	610	kN
Rubber			
Static Elastic Shear Modulus	G0	0.8	N/mm²
Elongation at Break	γu	550	%
Testing Load for Rotation	R1	7653	kN
Vertical Deflection (at Rotation Checking)	δr	1.50	mm
Support Condition of Bearing			
Longitudinal Direction: Fix	Transversal Direction: Fix		

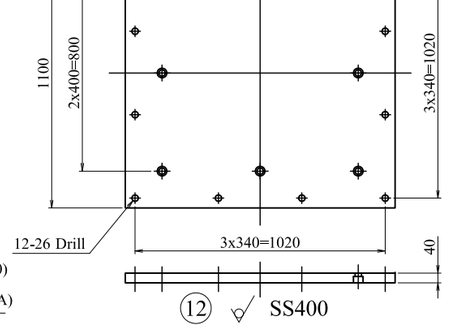
Material

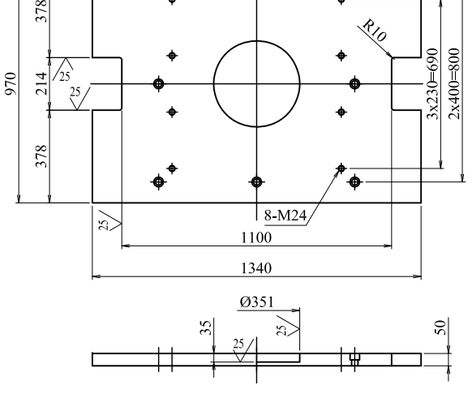
Num	Part	Material	Qty.	Weight (kg)	Note
1	Rubber	NR+SS400+SM490A	1	739.2	
2	Middle Plate	SM490A	1	375.5	
3	Upper Plate	SM490A	1	459.4	
4	Base Plate	SM490A	1	1498.8	
5	Side Block	SM490A or SCW480N	2	459.0	
6	Shear Key	SM490A	1	52.9	
7	Hexagon Bolt + Washer	———	24	46.1	
8	Hexagon Socket Head Cap Screws Bolt	———	8	2.4	
9	Hexagon Socket Head Cap Screws Bolt	———	8	2.1	
10	Hexagon Bolt + Washer	———	12	4.3	
11	Hexagon Bolt + Washer	———	8	3.4	
12	Anchor Bolt + Washer	SS400	4	324.8	
	Total weight			3967.9 (kg)	

Notes;
1) Surface treatment shall be Hot Dipped Galvanized for steel block and plate with more than 550kg/sq.m and bolt, nut, washer with more than 350kg/sq.m.
2) Weight of bolt ⑪ is reference value.
3) Detail of Fix holes shall be decided by bearing manufacture in necessary.
4) Details of the slab and girder are designed based on the product shown in this Drawing.
5) The Contractor has option to propose an alternative equivalent to the specified product, which shall be subjected to the Engineer's approval.

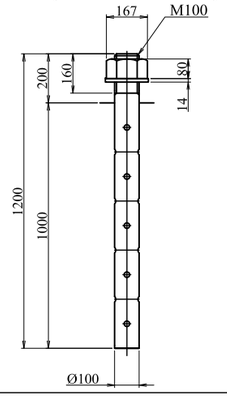




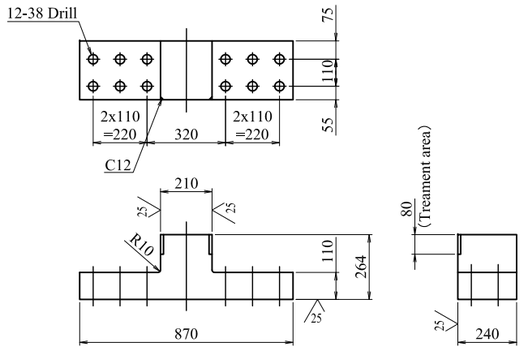




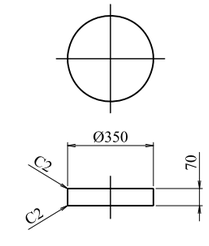
⑫ ▽ SS400
(Attached Washer)



⑤ ▽ (▽25) SM490A or SCW480N



⑥ ▽25 SM490A



⑦ Hexagon bolt M36×180 8.8 or Equivalent
(Washer attached)

⑧ Hexagon socket head cap screw M24×50 10.9 or Equivalent

⑨ Hexagon socket head cap screw M24×40 10.9 or Equivalent

⑩ Hexagon Bolt M24×65 8.8 or Equivalent
(Washer attached)

⑪ Hexagon bolt M24× 8.8 or Equivalent
(Washer attached)

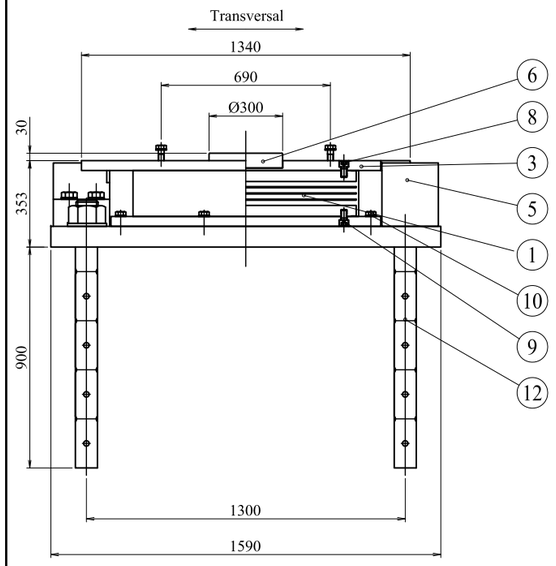
Layouts

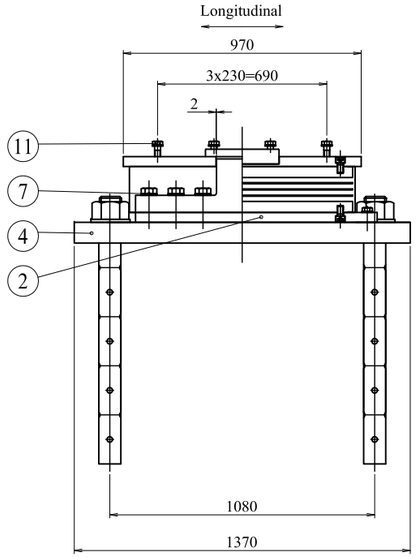
	P13	P14	P15	P16	P17	P18	P19	P20
G1		●					●	
G2		●					●	
G3		●					●	
G4		●					●	
	M	F	F	F	F	F	F	M

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

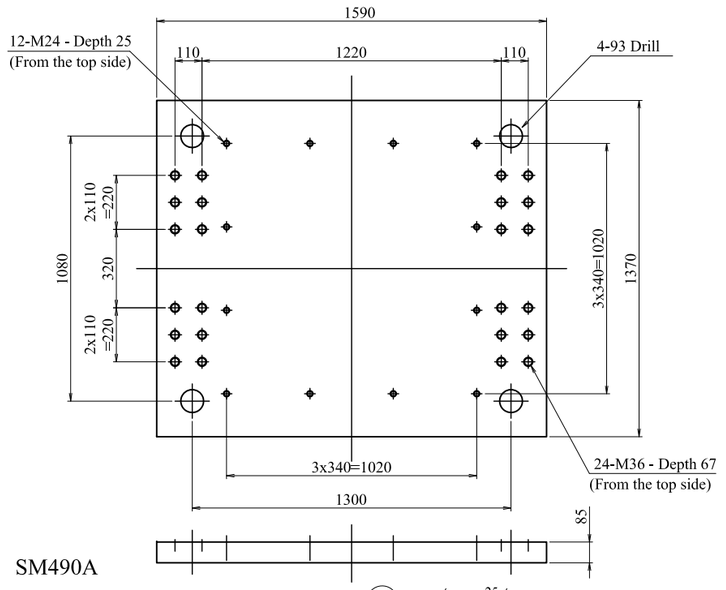
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF RUBBER BEARING (FIXED TYPE,P14 & P19) (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-3002

DETAIL OF RUBBER BEARING (FIXED TYPE, P15 - P18) (3) S=1:25





④ ▽ SM490A



Design conditions

Maximum Reaction Load	R	7442	kN
Dead Load	Rd	5332	kN
Longitudinal Horizontal Force (EQ Level 1)	Rh1	1867	kN
Transversal Horizontal Force (EQ Level 1)	Rh2	1678	kN
Uplift Load (Earthquake)	V	533	kN
Rubber			
Static Elastic Shear Modulus	G0	0.8	N/mm²
Elongation at Break	γu	550	%
Testing Load for Rotation	R1	6941	kN
Vertical Deflection (at Rotation Checking)	δr	1.50	mm
Support Condition of Bearing			
Longitudinal Direction: Fix	Transversal Direction: Fix		

Material

Num	Part	Material	Qty.	Weight (kg)	Note
1	Rubber	NR+SS400+SM490A	1	743.1	
2	Middle Plate	SM490A	1	375.5	
3	Upper Plate	SM490A	1	371.8	
4	Base Plate	SM490A	1	1421.4	
5	Side Block	SM490A or SCW480N	2	434.3	
6	Shear Key	SM490A	1	33.3	
7	Hexagon Bolt + Washer	———	24	46.1	
8	Hexagon Socket Head Cap Screws Bolt	———	8	2.1	
9	Hexagon Socket Head Cap Screws Bolt	———	8	2.1	
10	Hexagon Bolt + Washer	———	12	4.3	
11	Hexagon Bolt + Washer	———	8	3.4	
12	Anchor Bolt + Washer	SS400	4	238.9	
	Total weight			3676.3 (kg)	

① ▽ NR+SS400+SM490A

Detail "a" S=1:5

② ▽ SM490A

③ ▽ (25 ▽) SM490A

⑤ ▽ (25 ▽) SM490A or SCW480N

⑥ 25▽ SM490A

⑫ ▽ SS400
(Attached Washer)

⑦ Hexagon bolt M36×180 8.8 or Equivalent
(Washer attached)

⑧ Hexagon socket head cap screw M24×40 10.9 or Equivalent

⑨ Hexagon socket head cap screw M24×40 10.9 or Equivalent

⑩ Hexagon bolt M24×65 8.8 or Equivalent
(Washer attached)

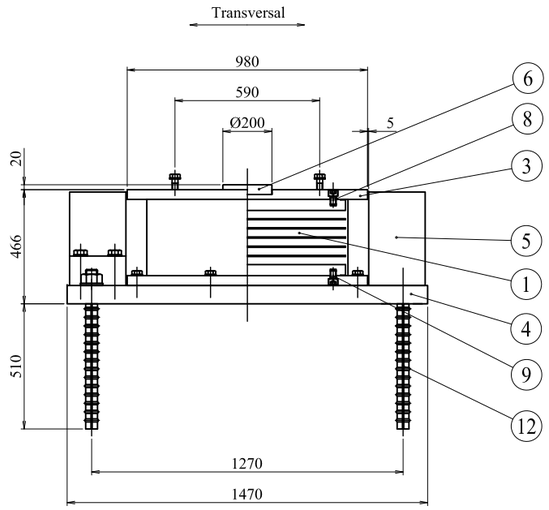
⑪ Hexagon bolt M24× 8.8 or Equivalent
(Washer attached)

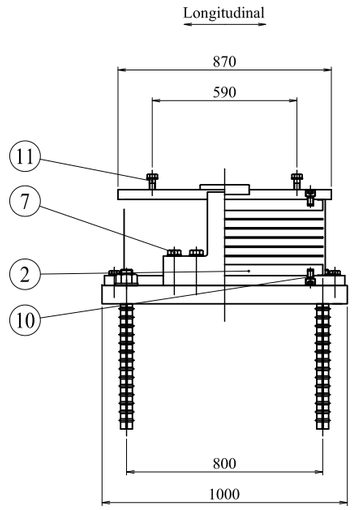
Notes;
1) Surface treatment shall be Hot Dipped Galvanized for steel block and plate with more than 550kg/sq.m and bolt, nut, washer with more than 350kg/sq.m.
2) Weight of bolt ⑪ is reference value.
3) Detail of Fix holes shall be decided by bearing manufacture in necessary.
4) Details of the slab and girder are designed based on the product shown in this Drawing.
5) The Contractor has option to propose an alternative equivalent to the specified product, which shall be subjected to the Engineer's approval.

Layouts

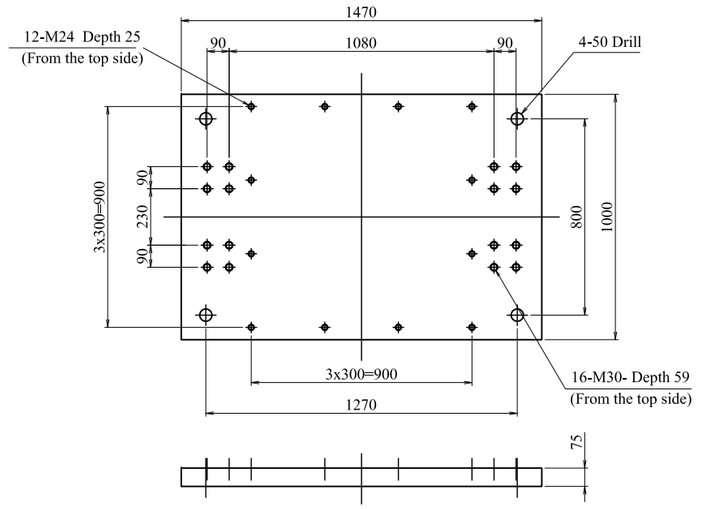
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT				
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY				
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE				
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.				
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF RUBBER BEARING (FIXED TYPE,P15 - P18) (3)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-3003

DETAIL OF RUBBER BEARING (MOVABLE TYPE, P20) (4) S=1:25





④ ▽ SM490A



Design conditions

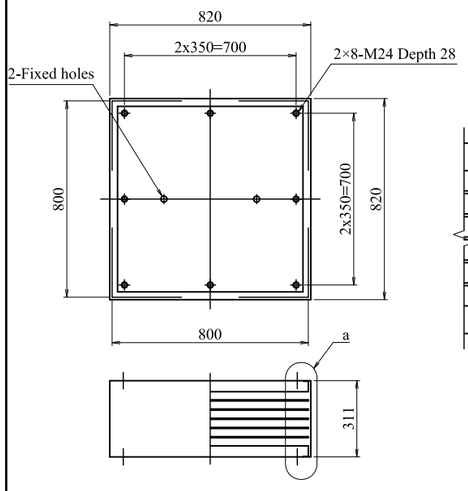
Maximum Reaction Load	R	2913	kN
Dead Load	Rd	1825	kN
Transversal Horizontal Force (EQ Level 1)	Rh2	582	kN
Uplift Load (Earthquake)	V	183	kN
Displacement			
Longitudinal Displacement (Temperature)	ΔL	± 111.6	mm
Rubber			
Static Elastic Shear Modulus	G0	1.0	N/mm²
Elongation at Break	γu	550	%
Testing Load for Rotation	R1	2735	kN
Vertical Deflection (at Rotation Checking)	δr	2.67	mm
Testing Load	R1L	505	kN
Vertical Deflection with Testing Load	δcL	0.74	mm
Support Condition of Bearing			
Longitudinal Direction: Move	Transversal Direction: Fix		

Material

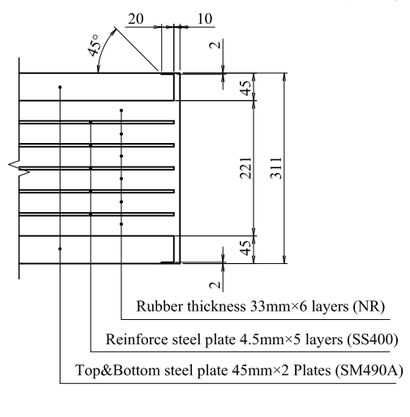
Num	Part	Material	Qty.	Weight (kg)	Note
1	Rubber	NR+SS400+SM490A	1	721.3	
2	Middle Plate	SM490A	1	297.1	
3	Upper Plate	SM490A	1	259.8	
4	Base Plate	SM490A	1	854.5	
5	Side Block	SM490A or SCW480N	2	336.5	
6	Shear Key	SM490A	1	9.9	
7	Hexagon Bolt + Washer	———	16	20.3	
8	Hexagon Socket Head Cap Screws Bolt	———	8	2.1	
9	Hexagon Socket Head Cap Screws Bolt	———	8	2.1	
10	Hexagon Bolt + Washer	———	12	4.3	
11	Hexagon Bolt + Washer	———	4	1.5	
12	Anchor Bolt + Washer	SD345	4	44.2	
	Total weight			2553.6 (kg)	

Notes;
1) Surface treatment shall be Hot Dipped Galvanized for steel block and plate with more than 550kg/sq.m and bolt, nut, washer with more than 350kg/sq.m.
2) Weight of bolt ⑪ is reference value.
3) Detail of Fix holes shall be decided by bearing manufacture in necessary.
4) Details of the slab and girder are designed based on the product shown in this Drawing.
5) The Contractor has option to propose an alternative equivalent to the specified product, which shall be subjected to the Engineer's approval.

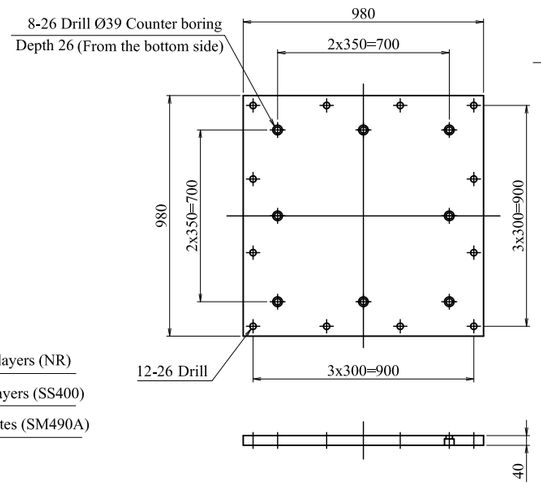
① ▽ NR+SS400+SM490A



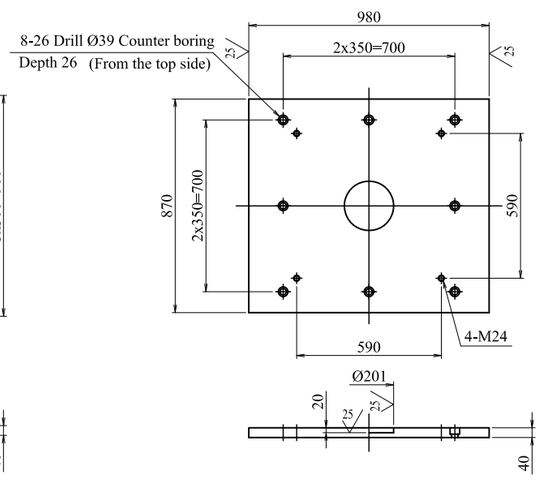
Detail "a" S=1:5



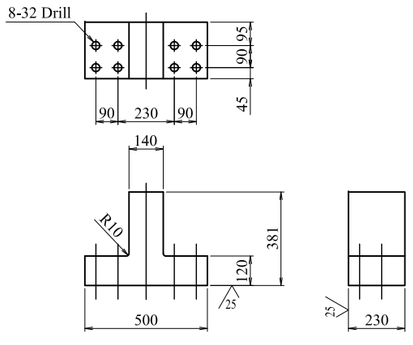
② ▽ SM490A



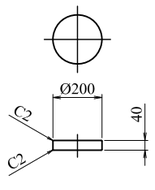
③ ▽ (25 ▽) SM490A



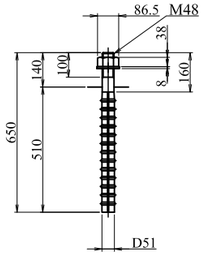
⑤ ▽ (25 ▽) SM490A or SCW480N



⑥ 25 ▽ SM490A



⑫ ▽ SD345
D51 (Attached washer)



⑦ Hexagon bolt M30×180 8.8 or Equivalent (Washer attached)

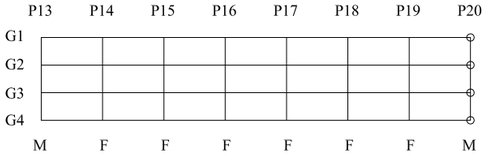
⑧ Hexagon socket head cap screws bolt M24×40 10.9 or Equivalent

⑨ Hexagon socket head cap screws bolt M24×40 10.9 or Equivalent

⑩ Hexagon bolt M24×65 8.8 or Equivalent (Washer attached)

⑪ Hexagon bolt M24× 8.8 or Equivalent (Washer attached)

LAYOUT



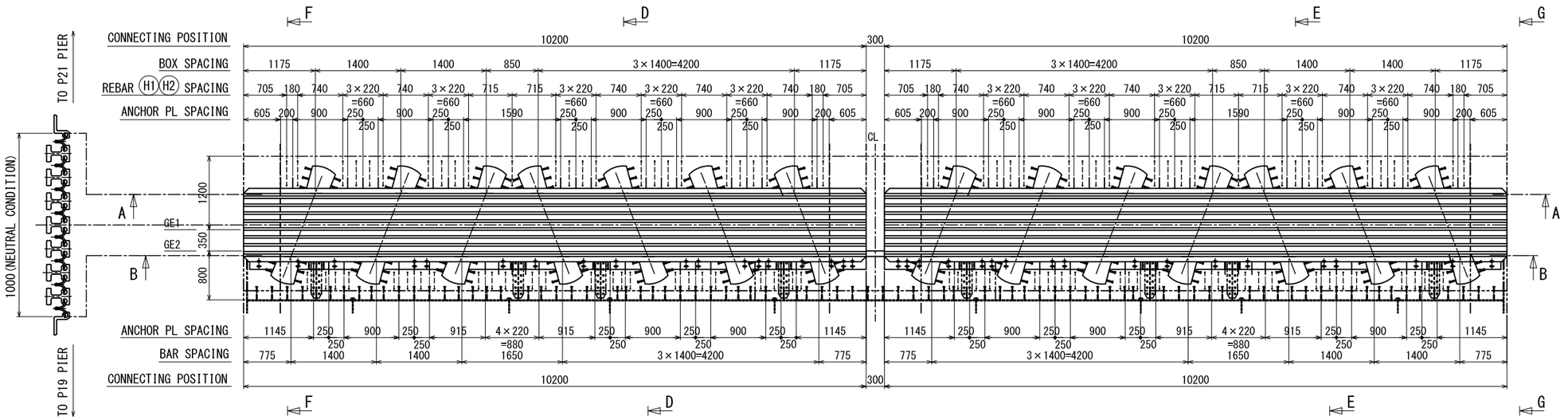
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF RUBBER BEARING (MOVABLE TYPE,P20) (4)	2
	DWG No.
	P2-SB-3004

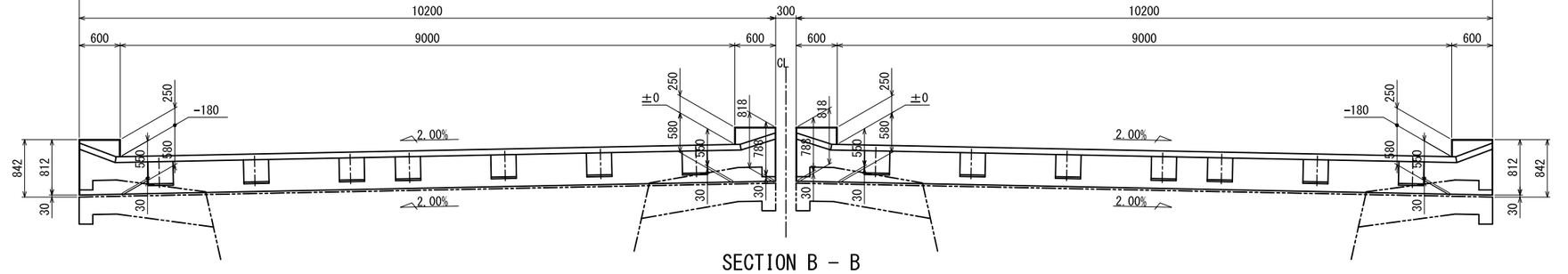
DETAIL OF EXPANSION JOINT (P20) (1) S=1:80

EJ - 3 ASSEMBLY DRAWING (1/2)



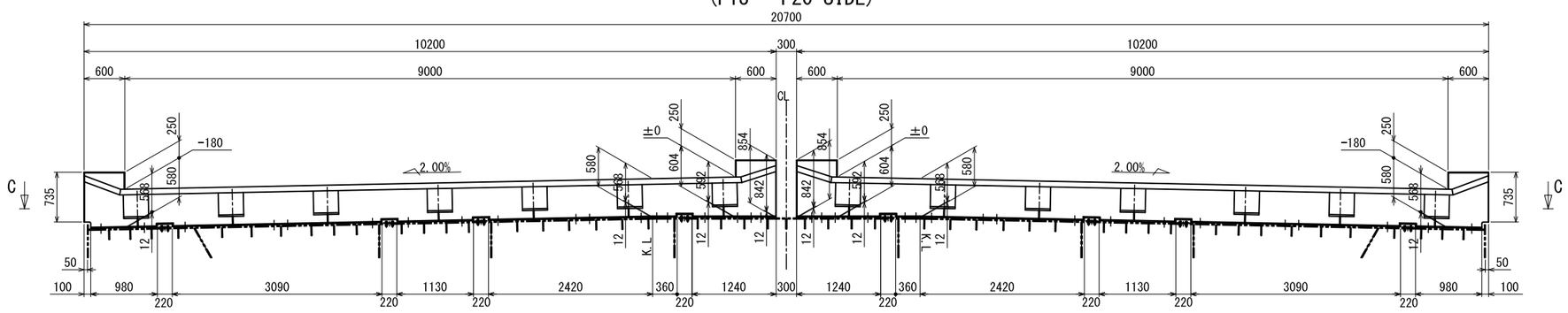
SECTION A - A

(P20 - A2 SIDE)



SECTION B - B

(P13 - P20 SIDE)



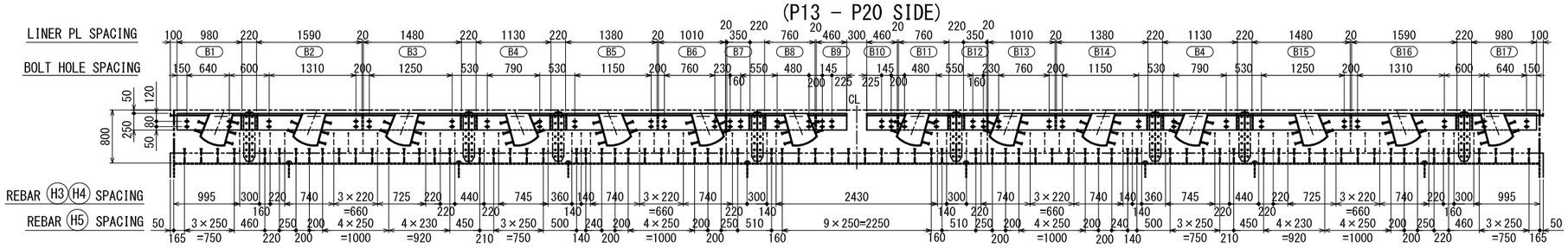
PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF EXPANSION JOINT (P20) (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-3011

DETAIL OF EXPANSION JOINT (P20) (2) S=1:80

EJ - 3 ASSEMBLY DRAWING (2/2)

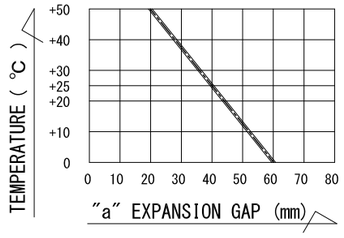
SECTION C - C
(P13 - P20 SIDE)



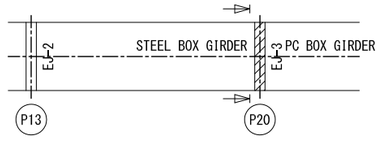
DESIGN CRITERIA

LOAD (WHEEL LOAD)	72.5 kN
TE MPERATVRE RANGE	0℃～+50℃
DISPLACEMENT IN ORDINARY CONDITION	322 mm
AMOUNT OF RESERVE IN ORDINARY CONDITION	65 mm
TOTAL DISPLACEMENT IN ORDINARY CONDITION	387 mm
SEISMIC DISPLACEMENT	630 mm

FIXING RANGE



KEY PLAN



NOTES (for P2-SB-3011, P2-SB-3012):

1 - This Drawing shows the condition of expansion gap "A"=40mm (at 25℃) per cell.
2 - Painting: Concrete bonding sections painted with ZINC-RICH PRIMER (15 μm), and for sections remaining modified expoxy resin is painted twice (top coating: black).
3 - Unless otherwise instructed, welding points shall be implemented fillet welding of 6mm.
4 - Details of the slab and girder are designed based on the product shown in this Drawing.
5 - The Contractor has option to propose an alternative equivalent to the specified product, which shall be subjected to the Engineer's approval.
6 - The expansion joint shall be set in consideration of thermal expansion.

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

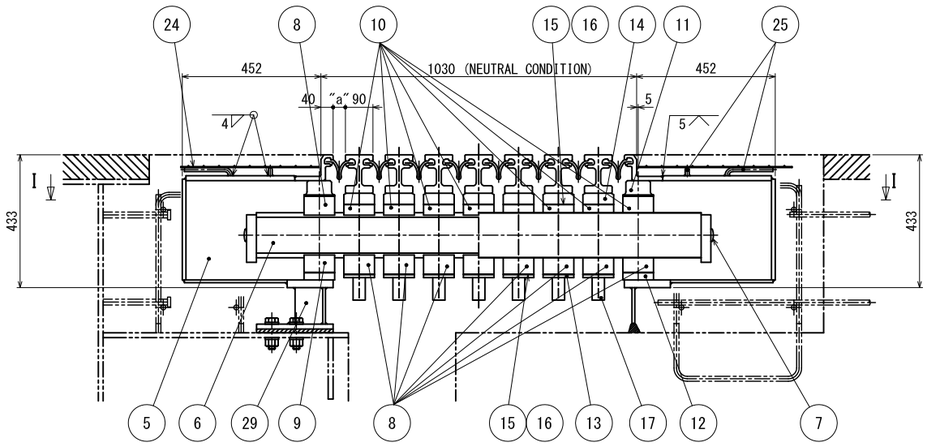
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF EXPANSION JOINT (P20) (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-3012

DETAIL OF EXPANSION JOINT (P20) (3) S=1:20

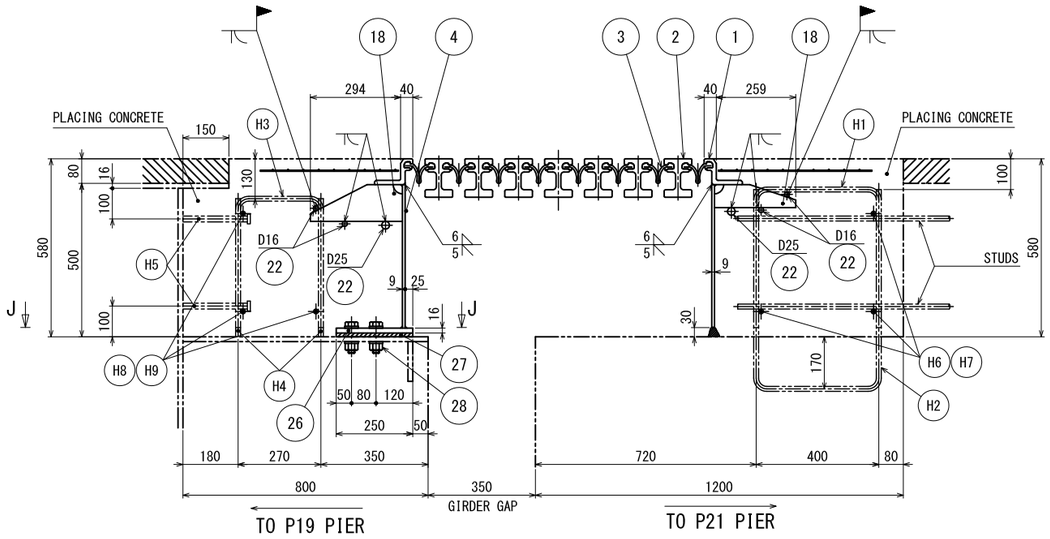
EJ - 3 DETAIL DRAWING (1/2)

D - D

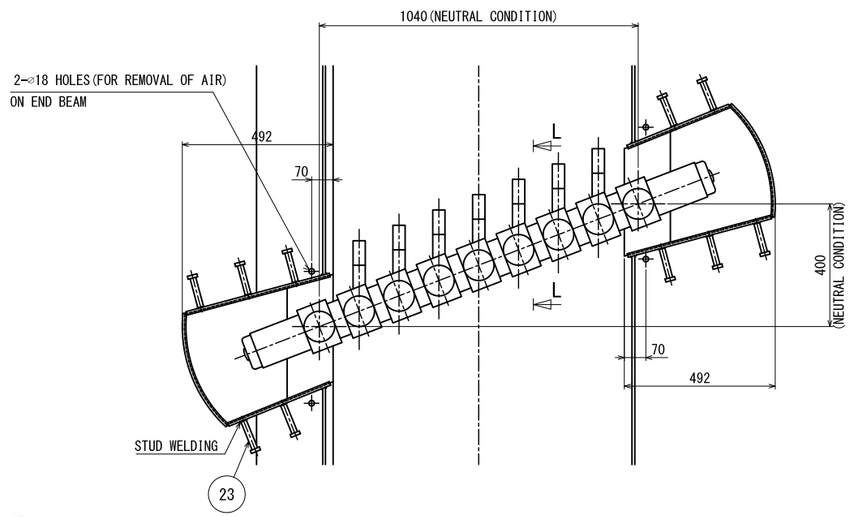
1) "a"=0~80mm (NEUTRAL CONDITION 40 mm)



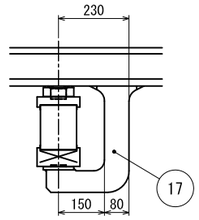
E - E



I - I

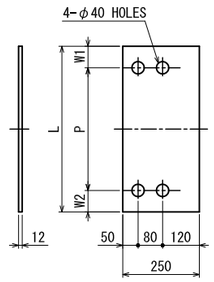


SECTION L - L

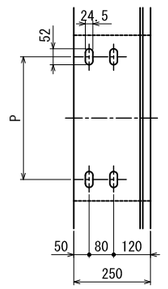


	L	P	W1	W2	NOS.
B1	980	640	150	190	1
B2	1590	1310	190	90	1
B3	1480	1250	90	140	1
B4	1130	790	170	170	2
B5	1380	1150	140	90	1
B6	1010	760	90	160	1
B7	350	160	50	140	1
B8	760	480	190	90	1
B9	460	145	90	225	1
B10	460	145	225	90	1
B11	760	480	90	190	1
B12	350	160	140	50	1
B13	1010	760	160	90	1
B14	1380	1150	90	140	1
B15	1480	1250	140	90	1
B16	1590	1310	90	190	1
B17	980	640	190	150	1

(27) LINER PL



SECTION J - J

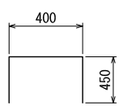


NOTES: Make sure that the bolt hole of the girder is a long hole to the bridge axil direction.

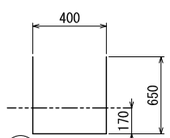
NO.	COMPONENT	MATERIAL
1	END BEAM	S355J2+AR
2	MIDDLE BEAM	S355J2+N
3	SEAL RUBBER	CR
4	WEB	SM490A
5	BOX	SM490A
6	SUPPORTING BEAM	SM490A
7	BUSH	POLYETHYLENE
8	SPRING	NR
9	EB BEARING	NR
10	MB BEARING	NR
11	SPRING-FACE A	SM490A
12	BEARING-FACE A	SM490A
13	SPRING-FACE B	SM490A
14	BEARING-FACE B	SM490A
15	SUS DISK	SUS316L
16	SLIPPING DISK	METALLOPLAST
17	PROTECTIVE PL	SM490A
18	ANCHOR	SM490A
19	COVER	SM490A
20	PL	SM490A
21	END PL	SM490A
22	REINFORCING BAR	SD345
23	STUD	JIS B1198
24	WELDED WIRE FABRIC	SUS304
25	WIRE RACK	SR235
26	BOTTOM FLANGE	SM490A
27	LINER	SS400
28	HTB	F10T
29	SUPPORT	SM490A
30	CONNECTION	SS400

(H) DETAIL OF REBAR

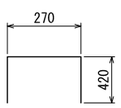
(H1) 25-D16x1300L



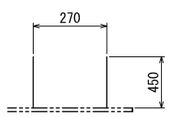
(H2) 25-D16x1700L



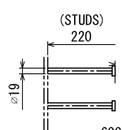
(H3) 50-D16x1110L



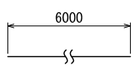
(H4) 100-D16x450L



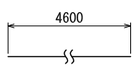
(H5) 160-⌀19x220L



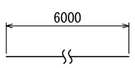
(H6) 3-D16x6000L



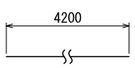
(H7) 3-D16x4600L

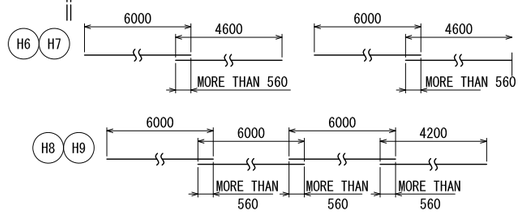


(H8) 9-D16x6000L



(H9) 3-D16x4200L





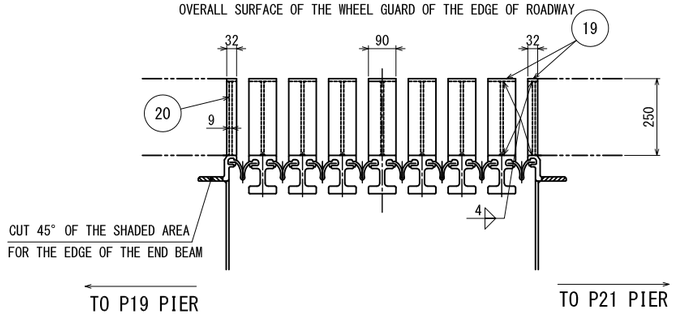
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF EXPANSION JOINT (P20) (3)	2
				CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
				APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-3013

DETAIL OF EXPANSION JOINT (P20) (4) S=1:20

EJ – 3 DETAIL DRAWING (2/2)

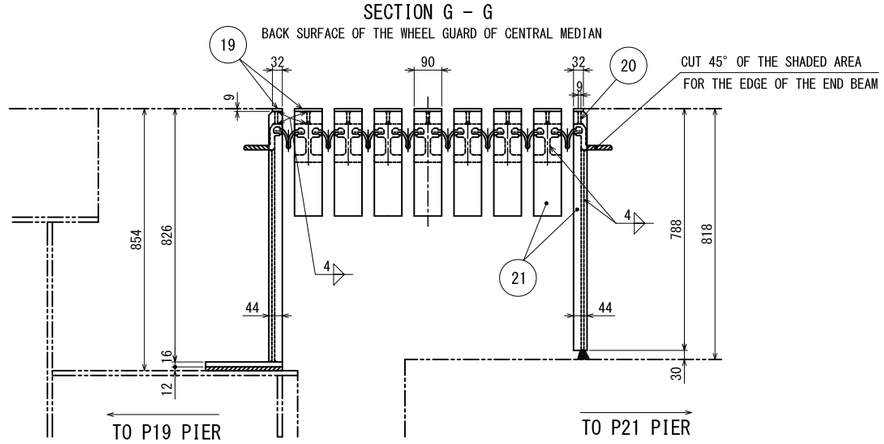
SECTION F – F

OVERALL SURFACE OF THE WHEEL GUARD OF THE EDGE OF ROADWAY



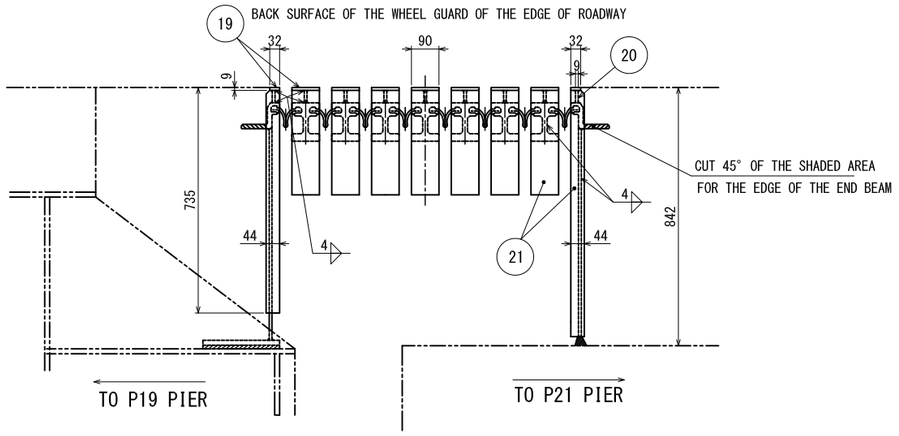
SECTION G – G

BACK SURFACE OF THE WHEEL GUARD OF CENTRAL MEDIAN

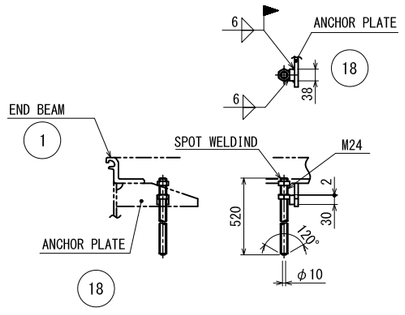


NO.	COMPONENT	MATERIAL
1	END BEAM	S355J2+AR
2	MIDDLE BEAM	S355J2+N
3	SEAL RUBBER	CR
4	WEB	SM490A
5	BOX	SM490A
6	SUPPORTING BEAM	SM490A
7	BUSH	POLYETHYLENE
8	SPRING	NR
9	EB BEARING	NR
10	MB BEARING	NR
11	SPRING-FACE A	SM490A
12	BEARING-FACE A	SM490A
13	SPRING-FACE B	SM490A
14	BEARING-FACE B	SM490A
15	SUS DISK	SUS316L
16	SLIPPING DISK	METALLOPLAST
17	PROTECTIVE PL	SM490A
18	ANCHOR	SM490A
19	COVER	SM490A
20	PL	SM490A
21	END PL	SM490A
22	REINFORCING BAR	SD345
23	STUD	JIS B1198
24	WELDED WIRE FABRIC	SUS304
25	WIRE RACK	SR235
26	BOTTOM FLANGE	SM490A
27	LINER	SS400
28	HTB	F10T
29	SUPPORT	SM490A
30	CONNECTION	SS400

SECTION H – H



30 CONNECTION



NOTES (for P2-SB-3013, P2-SB-3014);

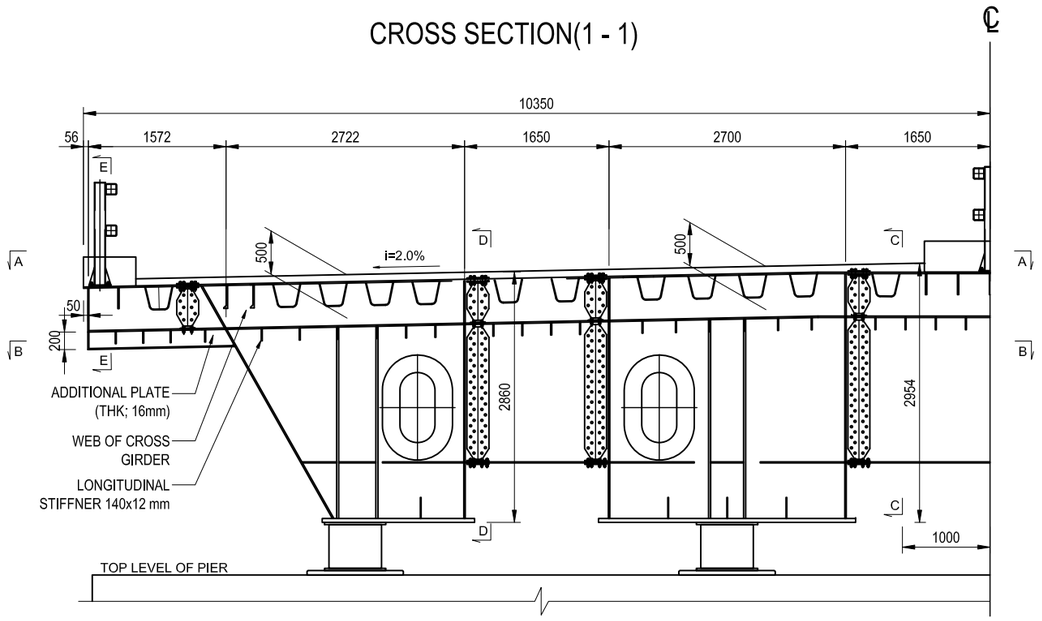
1 – This Drawing shows the condition of expansion gap "A"=40mm (at 25℃) per cell.
2 – Painting: Concrete bonding sections painted with ZINC-RICH PRIMER (15 μm), and for sections remaining modified expoxy resin is painted twice (top coating: black).
3 – Unless otherwise instructed, welding points shall be implemented fillet welding of 6mm.
4 – (22) Side Welding is implemented partially on the re-bar.
5 – *: Be sure to make preparation for re-bar and studs at time of superstructure work.
6 – Details of the slab and girder are designed based on the product shown in this Drawing.
7 – The Contractor has option to propose an alternative equivalent to the specified product, which shall be subjected to the Engineer's approval.
8 – The expansion joint shall be set in consideration of thermal expansion.

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

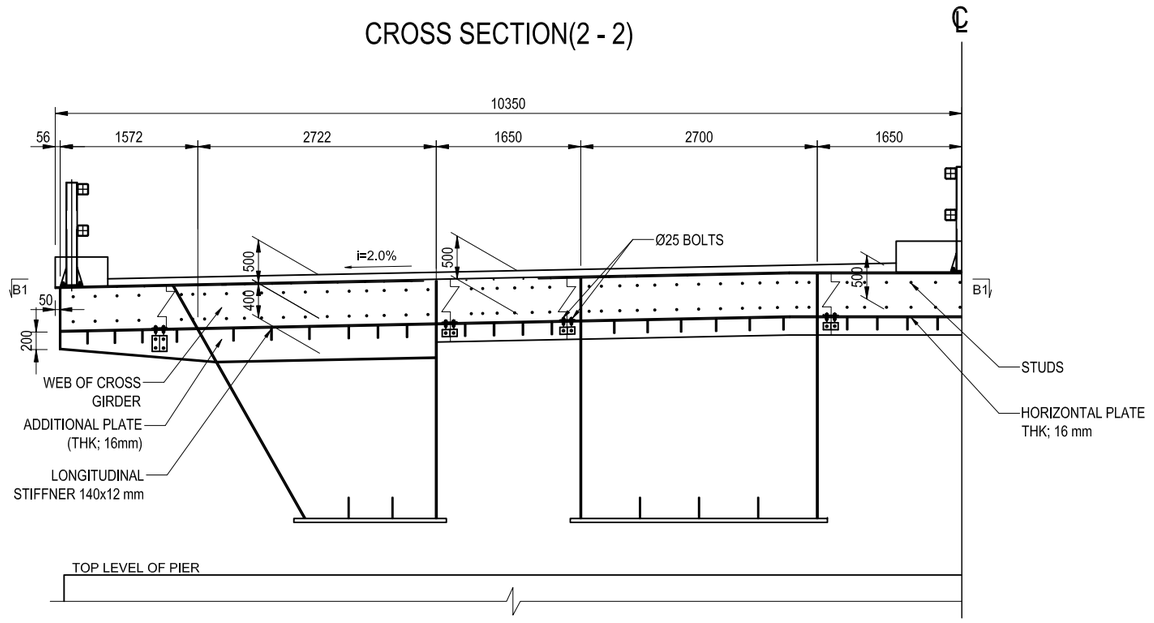
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF EXPANSION JOINT (P20) (4)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-3014

DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT (P20) (1) S= 1:70

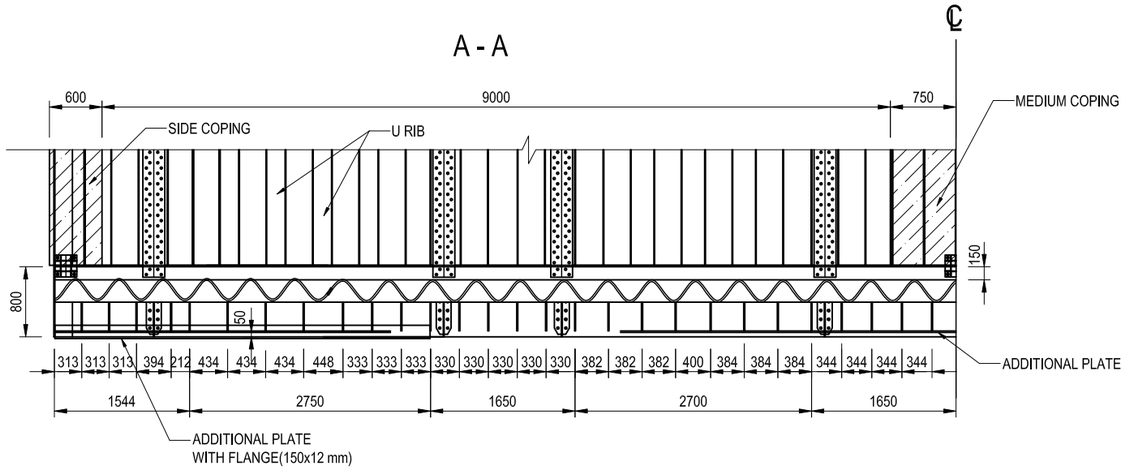
CROSS SECTION(1 - 1)



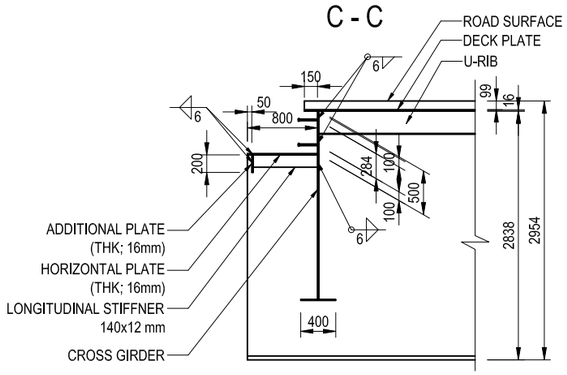
CROSS SECTION(2 - 2)



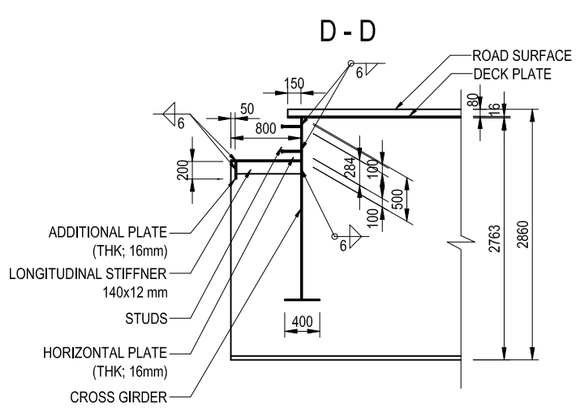
A - A



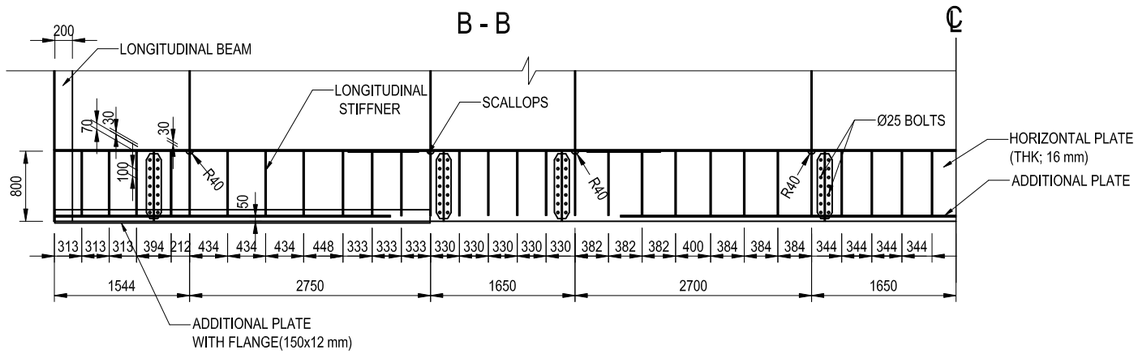
C - C



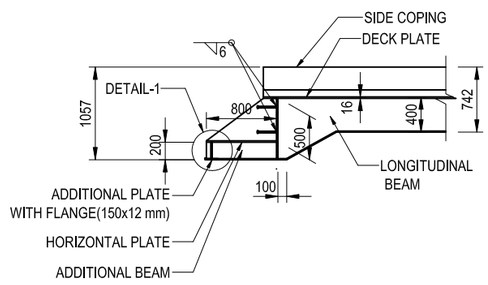
D - D



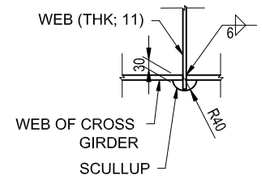
B - B



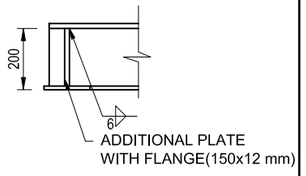
E - E



DETAIL OF SCALLOPS



DETAIL -1 S= 1:20

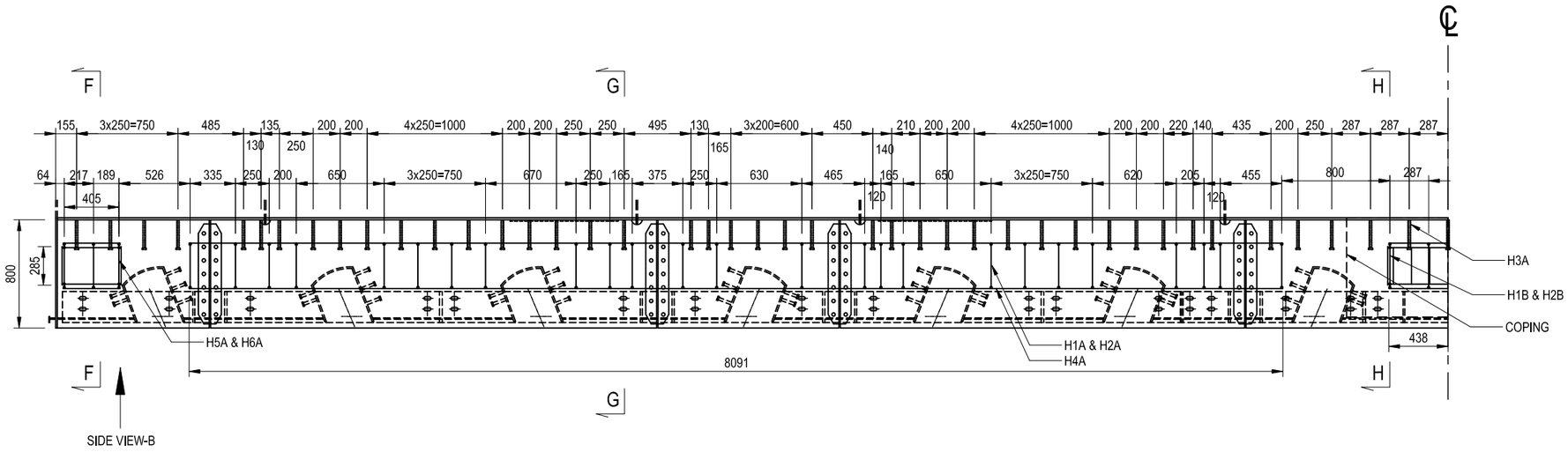


PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

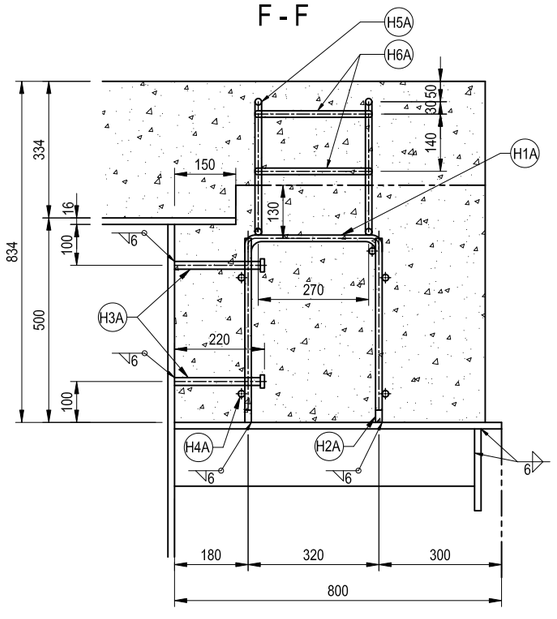
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT (P20) (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-3015

DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT (P20) (2) S= 1:15

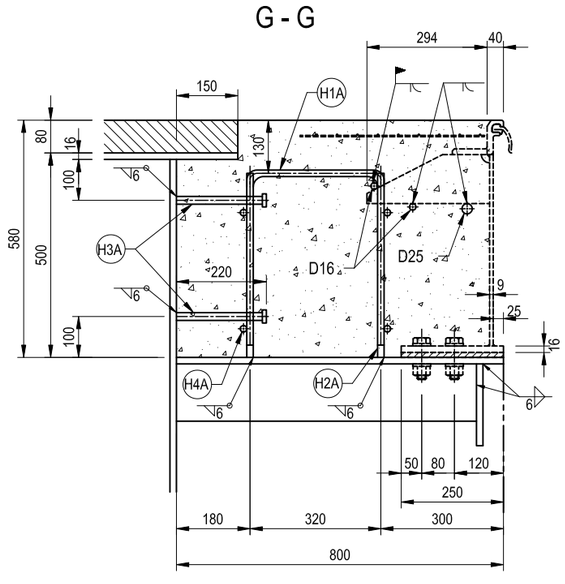
B1 - B1 S= 1:40



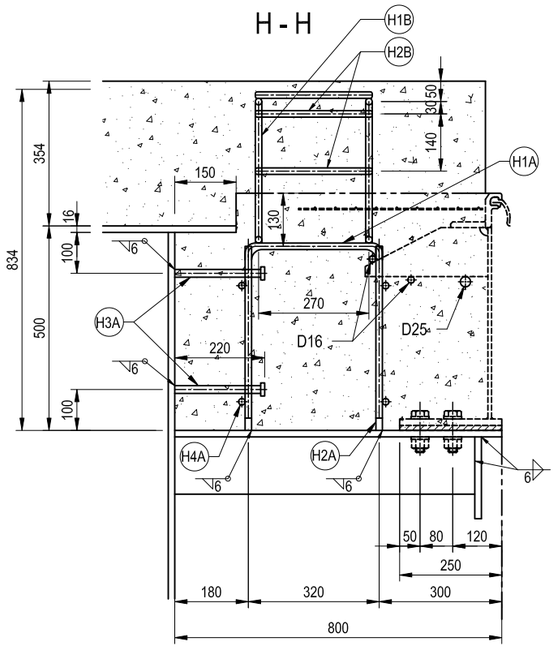
F - F



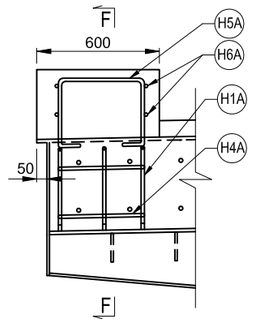
G - G



H - H



SIDE VIEW-B S= 1:30



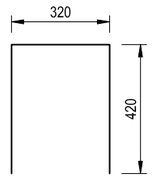
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT		
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY		
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE		
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT (P20) (2)	2
	DWG No.
	P2-SB-3016

DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT (P20) (3) S= 1:20

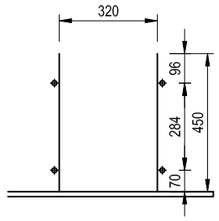
H1A 60-D16x1160L



NUMBER: 60

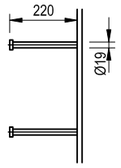
H2A 120-D16x450L

H4A 8 -D16x420L, 8090L, 875L



NUMBER: 120 (H2A)
NUMBER: 8 (H4A)

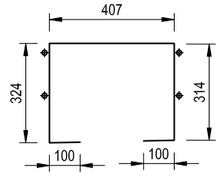
H3A 85-Ø19x220L



NUMBER: 85

H5A 4-D16x1245L

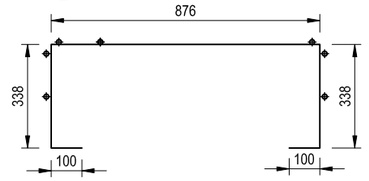
H6A 8-D16x315L



NUMBER: 4(H5A)
NUMBER: 8(H6A)

H1B 4-D16x1552L S= 1:20

H2B 22-D16x315L



NUMBER: 4(H1B)
NUMBER: 22(H2B)

	Length	Diameter	NO.
H1A	1160	D16	60
H2A	450	D16	120
H3A	220	⌀19	85
H4A	420	D16	8
	8090	D16	8
	875	D16	8
H5A	1245	D16	4
H6A	315	D16	8
H1B	1552	D16	4
H2B	315	D16	22

MATERIAL LIST

No.	Item	Size	Material	Width (mm)	Length (mm)	Thickness (mm)	Unit Weight (kg/m³)	Weight (kg/pce)	Number	Weight(kg)	Remarks
1.	Horizontal Plate	800x22779.32x16 mm	SM400	800	22779.32	16	7850	2288.87	1	2288.87	
2.	Additional Plate	200x22779.32x16 mm	SM400	200	22779.32	16	7850	572.22	1	572.22	
	Sub-Total									2861.08	
3.	Longitudinal Stiffener(140x12)mm	140x734x12 mm	SM400	140	734	12	7850	9.68	63	609.84	
4.	Flange of Additional Plate	150x4282.5x12 mm	SM400	150	4282.5	12	7850	60.51	2	121.02	
	Sub-Total									730.86	
5.	Base Plate for Bolt	170x740x8 mm	SM400	170	740	8	7850	7.90	8	63.20	
6.	25Ø Bolt	M25x80 mm	S10T	-	-	-	-	0.785	112	87.92	
7.	H1A	Ø16 mm	SD345	-	1160	-	1.58(kg/m)	1.83	60	109.79	
8.	H2A	Ø16 mm	SD345	-	450	-	1.58(kg/m)	0.71	120	85.19	
9.	H4A	Ø16 mm	SD345	-	420	-	1.58(kg/m)	0.66	8	5.30	
		Ø16 mm	SD345	-	875	-	1.58(kg/m)	1.38	8	11.04	
		Ø16 mm	SD345	-	8090	-	1.58(kg/m)	12.76	8	102.10	
10.	H5A	Ø16 mm	SD345	-	1245		1.58(kg/m)	1.96	4	7.86	
11.	H6A	Ø16 mm	SD345		315	-	1.58(kg/m)	0.50	8	3.98	
12.	H1B	Ø16 mm	SD345	-	1552	-	1.58(kg/m)	2.45	4	9.79	
13.	H2B	Ø16 mm	SD345	-	315	-	1.58(kg/m)	0.50	22	10.93	
	Sub-Total									345.97	
14.	H3A(Stud Bolt)	Ø19 mm	JIS B 1198	-	220	-	-	0.092	85	7.82	
15.	Nut for Stud Bolt	Ø19 mm - Nut	JIS B 1181	-	-	-	-	0.092	85	7.82	
16.	Concrete@(F-F)	-	24MPa	600	610	334	2400	293.39	2	586.77	
		-	24MPa	600	760	500	2400	547.20	2	1094.40	
	Concrete@(G-G)	-	24MPa	8950	775	580	2400	9655.26	2	19310.52	
	Concrete@(H-H)	-	24MPa	750	610	354	2400	388.69	2	777.38	
		-	24MPa	750	775	500	2400	697.50	2	1395	
	Sub-Total									23164.08	
	Total									27165.20	

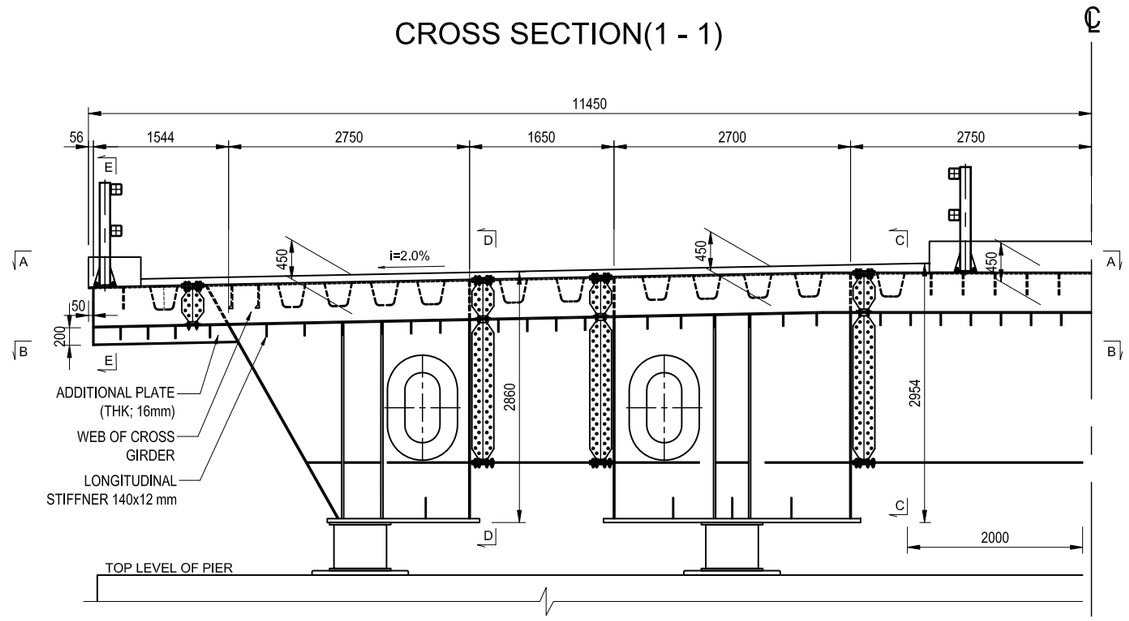
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

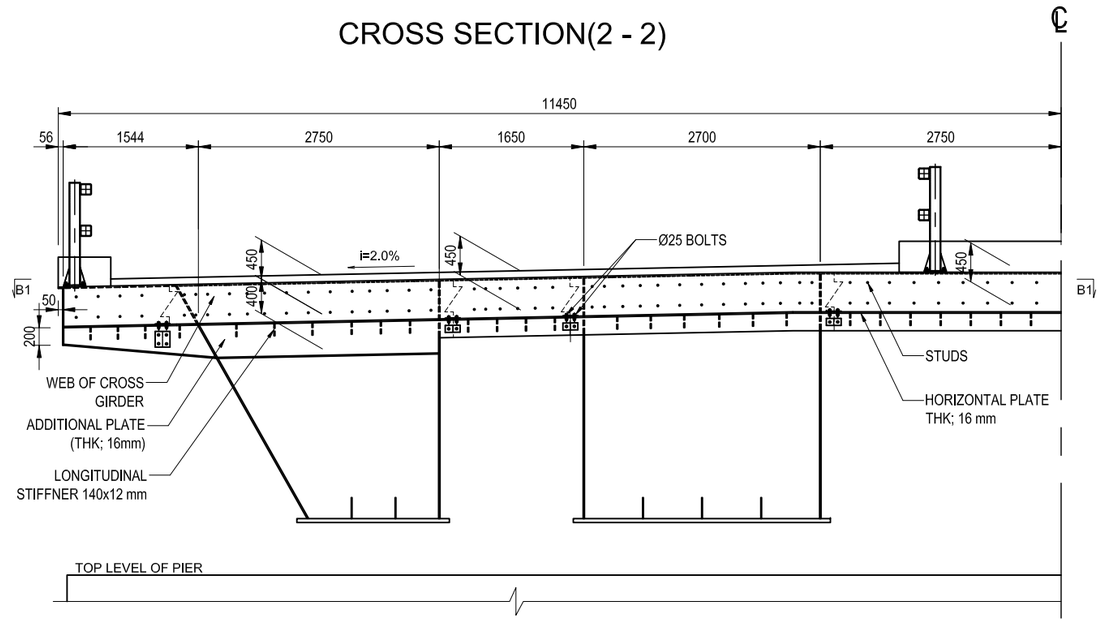
DRAWING TITLE	PACKAGE
DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT (P20) (3)	2
	DWG No.
	P2-SB-3017

DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT (P13) (1) S= 1:70

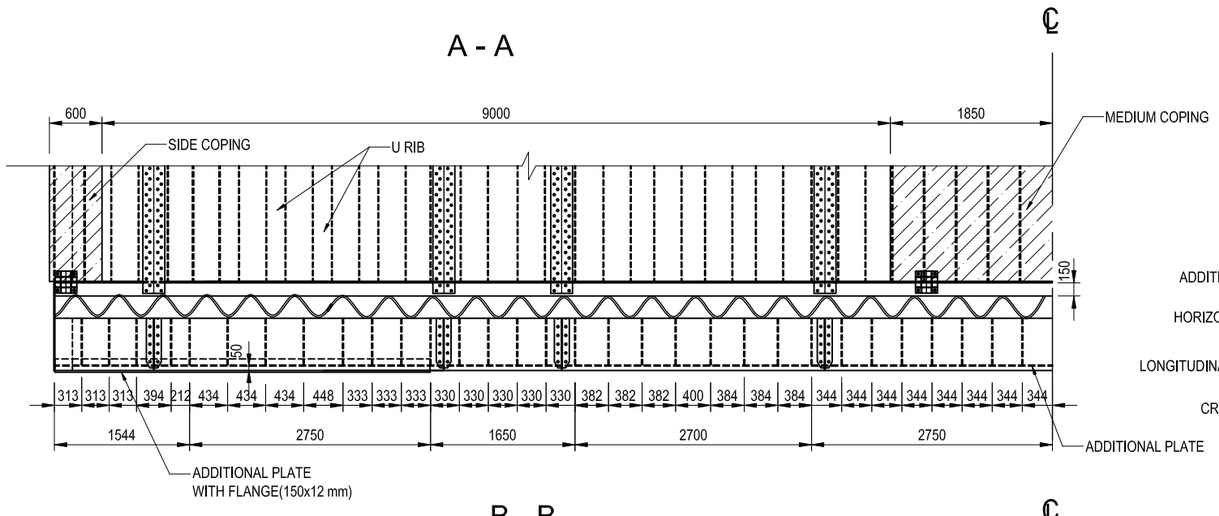
CROSS SECTION(1 - 1)



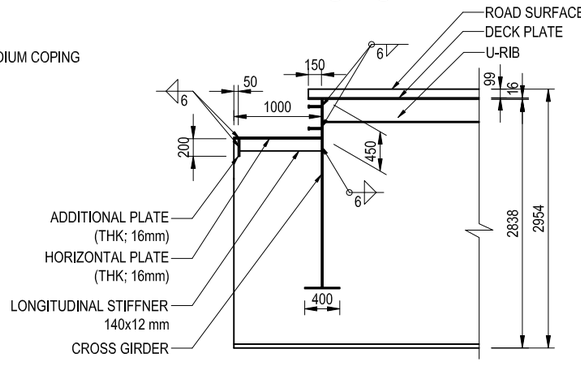
CROSS SECTION(2 - 2)



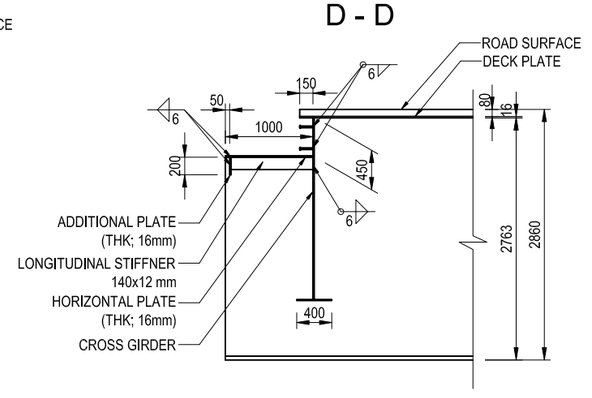
A - A



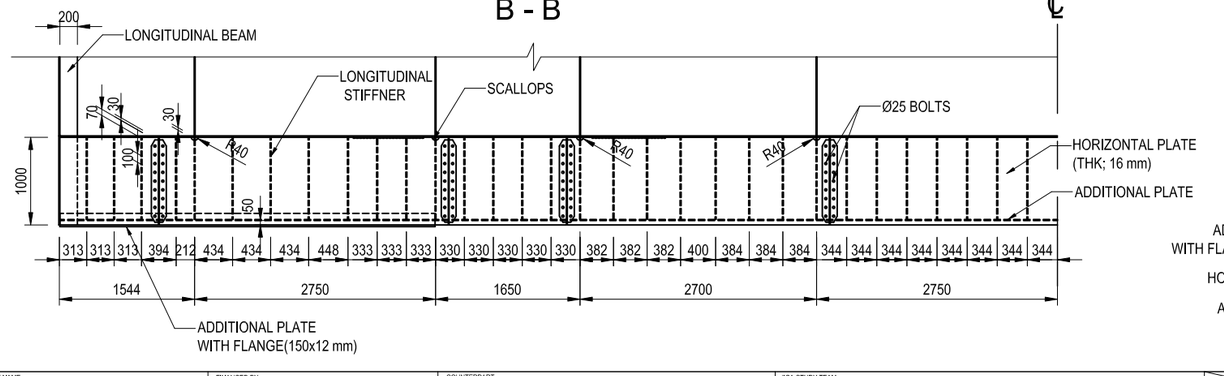
C - C



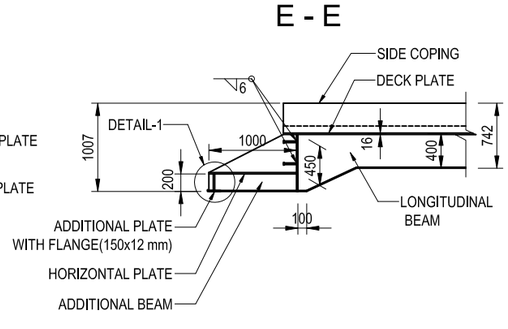
D - D



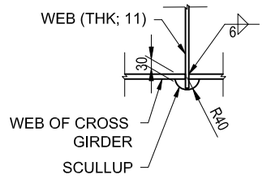
B - B



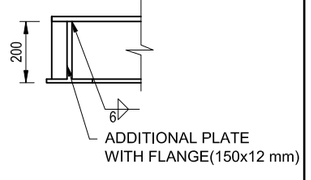
E - E



DETAIL OF SCALLOPS



DETAIL -1 S= 1:20

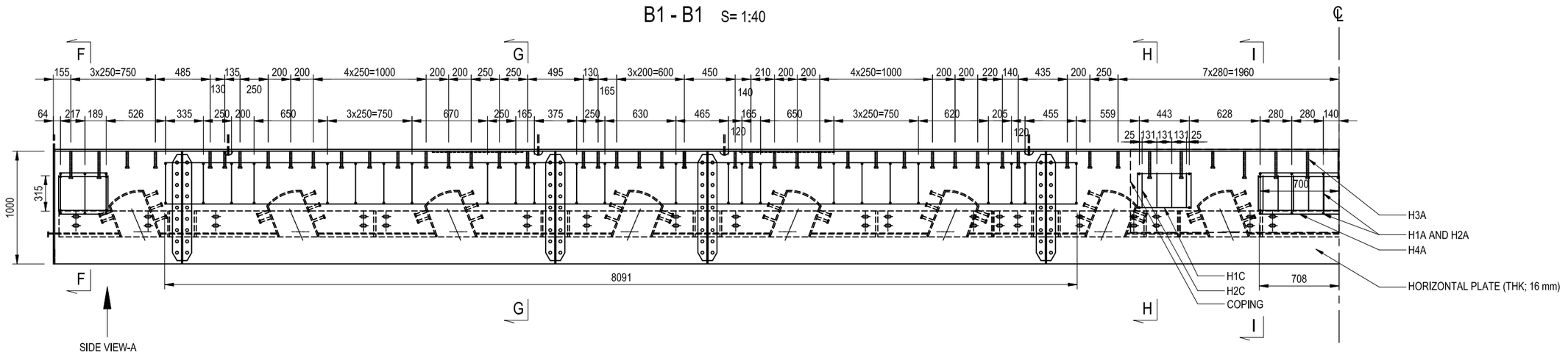


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

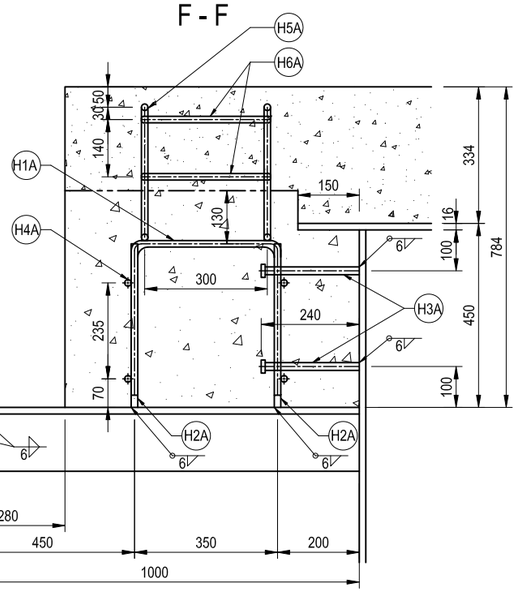
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT (P13) (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-3018

DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT (P13) (2) S= 1:15

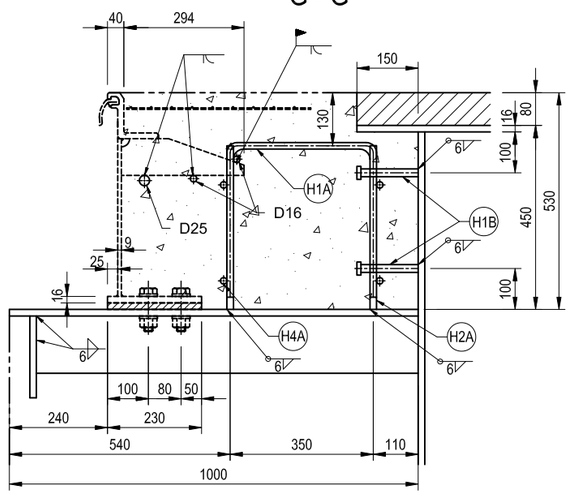
B1 - B1 S= 1:40



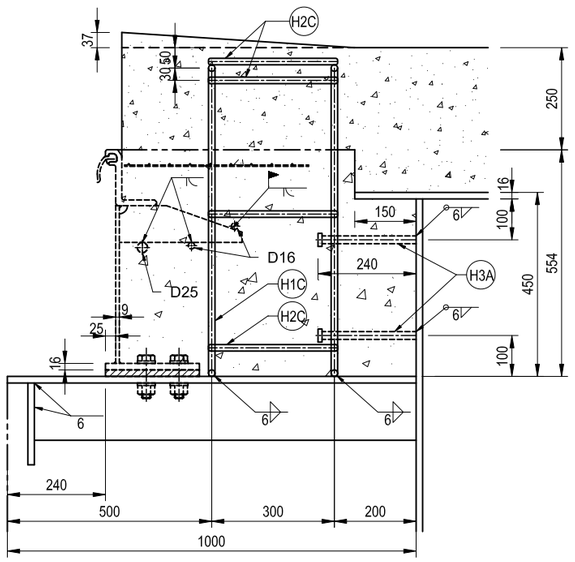
F - F



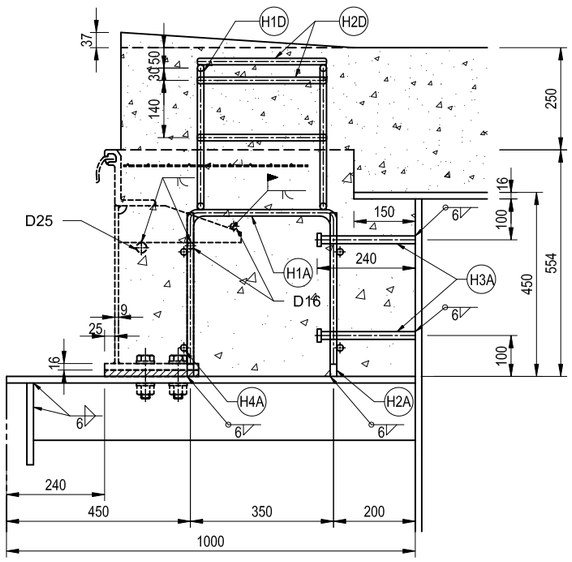
G - G



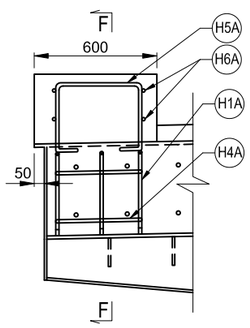
H - H



I - I



SIDE VIEW-A S= 1:30

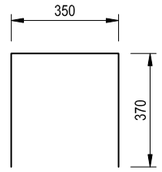


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	(REFERENCE) DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT (P13) (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-3019

DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT (P13) (3) S= 1:20

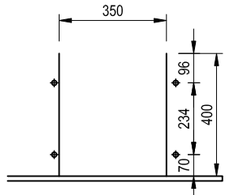
(H1A) 62-D16x1090L



NUMBER: 62

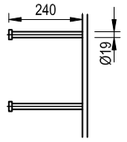
(H2A) 124-D16x400L

(H4A) 8 -D16x420L, 8090L, 1415L



NUMBER: 124 (H2A)
NUMBER: 8 (H4A)

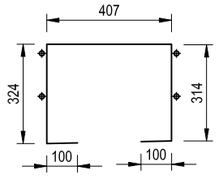
(H3A) 30-Ø19x240L



NUMBER: 30

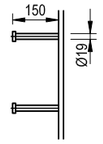
(H5A) 4-D16x1245L

(H6A) 8-D16x315L



NUMBER: 4(H5A)
NUMBER: 8(H6A)

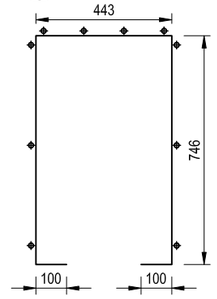
(H1B) 156-Ø19x150L



NUMBER: 156

(H1C) 4-D16x2135L

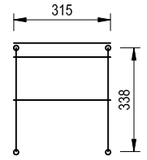
(H2C) 20-D16x315L



NUMBER: 4 (H1C)
NUMBER: 20 (H2C)

(H1D) 2-D16x2275L S= 1:20

(H2D) 11-D16x315L



NUMBER: 2 (H1D)
NUMBER: 11(H2D)

	Length	Diameter	NO.
H1A	1090	D16	62
H2A	400	D16	124
H3A	240	⌀19	30
H4A	420	D16	8
	8090	D16	8
	1415	D16	8
H5A	1245	D16	4
H6A	315	D16	8
H1B	150	⌀19	156
H1C	2135	D16	4
H2C	315	D16	20
H1D	2275	D16	2
H2D	315	D16	11

MATERIAL LIST

No.	Item	Size	Material	Width (mm)	Length (mm)	Thickness (mm)	Unit Weight (kg/m³)	Weight (kg/pce)	Number	Weight(kg)	Remarks
1.	Horizontal Plate	1000x22779.32x16 mm	SM400	1000	22779.32	16	7850	2861.08	1	2861.08	
2.	Additional Plate	200x22779.32x16 mm	SM400	200	22779.32	16	7850	572.22	1	572.22	
	Sub-Total									3433.30	
3.	Longitudinal Stiffener(140x12)mm	140x934x12 mm	SM400	140	934	12	7850	12.32	63	776.01	
4.	Flange of Additional Plate	150x4282.5x12 mm	SM400	150	4282.5	12	7850	60.51	2	121.02	
	Sub-Total									897.03	
5.	Base Plate for Bolt	170x940x8 mm	SM400	170	940	8	7850	10.04	8	80.28	
6.	25Ø Bolt	M25x80 mm	S10T	-	-	-	-	0.785	144	113.04	
7.	H1A	Ø16 mm	SD345	-	1090	-	1.58(kg/m)	1.72	62	106.61	
8.	H2A	Ø16 mm	SD345	-	400	-	1.58(kg/m)	0.63	124	78.24	
9.	H4A	Ø16 mm	SD345	-	420	-	1.58(kg/m)	0.66	8	5.30	
		Ø16 mm	SD345	-	1415	-	1.58(kg/m)	2.23	8	17.86	
		Ø16 mm	SD345	-	8090	-	1.58(kg/m)	12.76	8	102.10	
10.	H5A	Ø16 mm	SD345	-	1245	-	1.58(kg/m)	1.96	4	7.86	
11.	H6A	Ø16 mm	SD345	-	315	-	1.58(kg/m)	0.50	8	3.98	
12.	H1C	Ø16 mm	SD345	-	2135	-	1.58(kg/m)	3.37	4	13.47	
13.	H2C	Ø16 mm	SD345	-	315	-	1.58(kg/m)	0.50	20	9.94	
14.	H1D	Ø16 mm	SD345	-	2275	-	1.58(kg/m)	3.59	2	7.18	
15.	H2D	Ø16 mm	SD345	-	315	-	1.58(kg/m)	0.50	11	5.47	
	Sub-Total									357.99	
16.	H3A(Stud Bolt)	Ø19 mm	JIS B 1198	-	240	-	-	0.092	30	2.76	
17.	H1B(Stud Bolt)	Ø19 mm	JIS B 1198	-	150	-	-	0.092	156	14.35	
18.	Nut for Stud Bolt	Ø19 mm - Nut	JIS B 1181	-	-	-	-	0.092	186	17.11	
19.	Concrete@(F-F)	-	24MPa	600	570	334	2400	274.15	2	548.29	
		-	24MPa	600	720	500	2400	518.40	2	1036.80	
	Concrete@(G-G)	-	24MPa	8950	735	530	2400	8367.53	2	16735.07	
	Concrete@(H-H)	-	24MPa	1850	570	250, 287	2400	679.52	2	1359.04	
		-	24MPa	1850	735	555	2400	1811.19	2	3622.37	
	Sub-Total									23301.58	
	Total									28070.18	

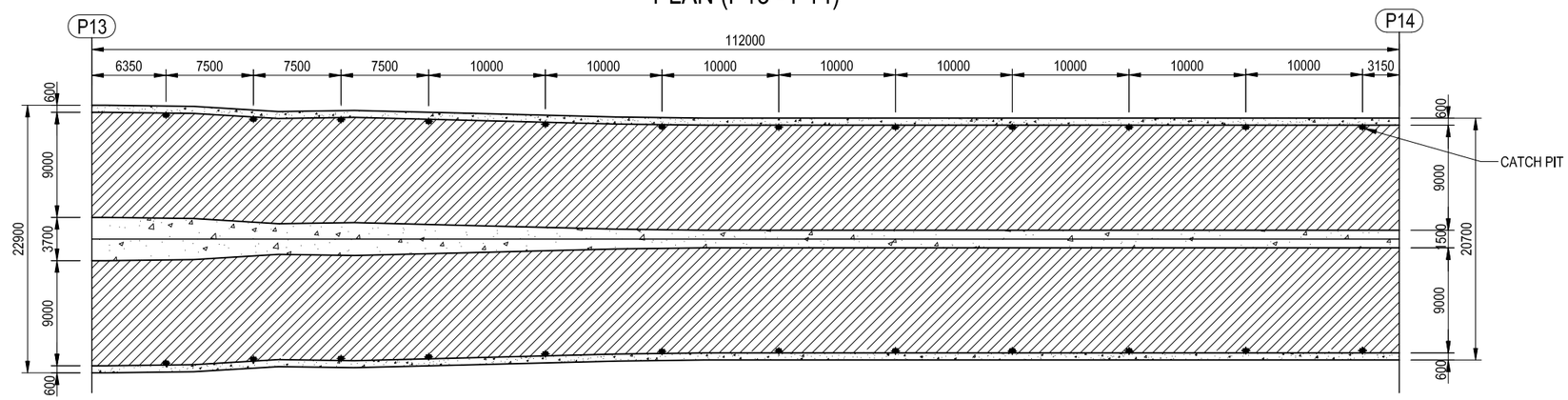
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

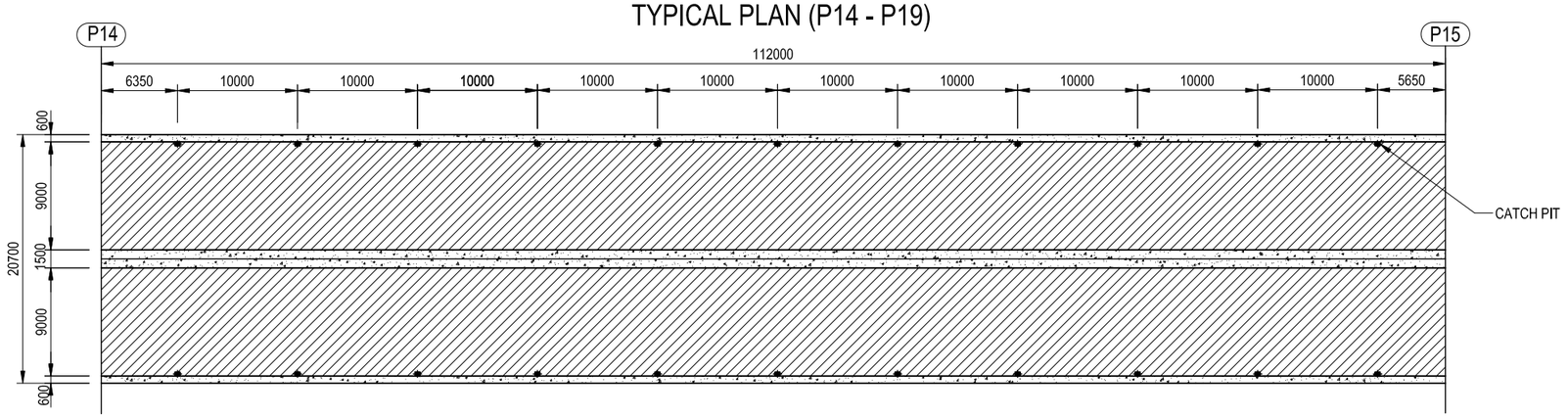
DRAWING TITLE	PACKAGE
(REFERENCE) DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT (P13) (3)	2
	DWG No.
	P2-SB-3020

DRAINAGE DETAIL OF STEEL BOX GIRDER(1) S=1:500

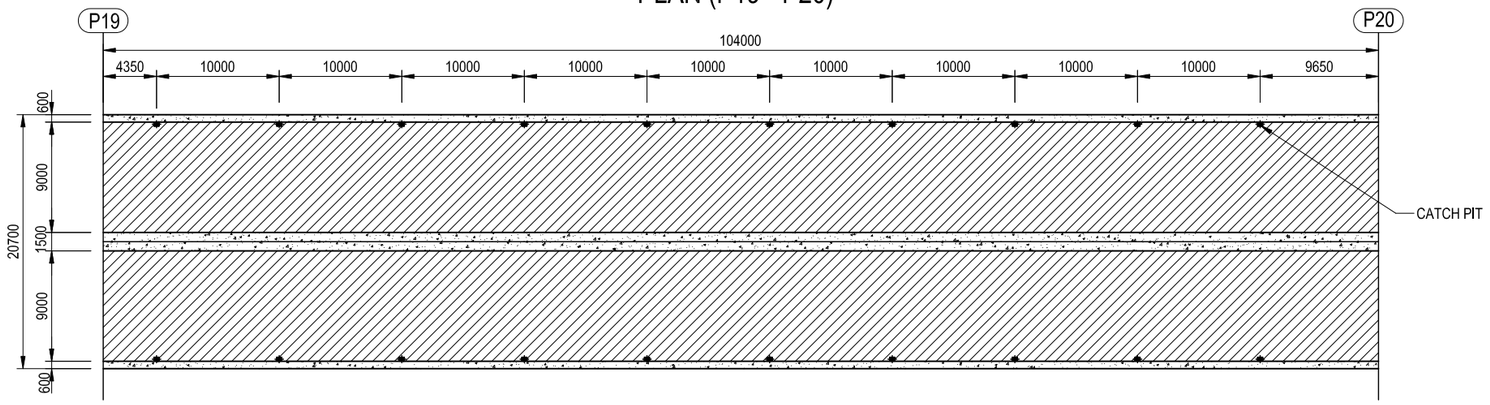
PLAN (P13 - P14)



TYPICAL PLAN (P14 - P19)



PLAN (P19 - P20)

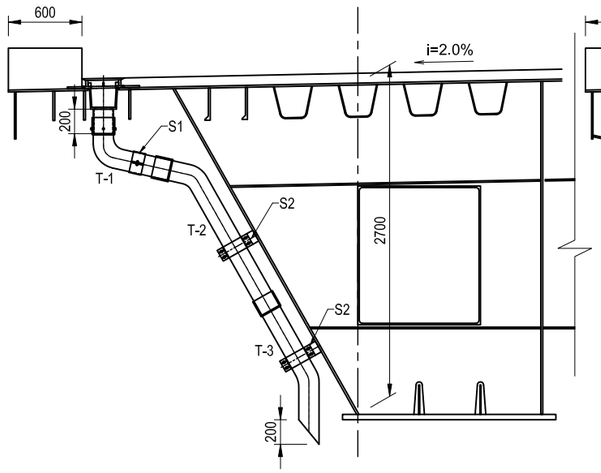


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM		
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

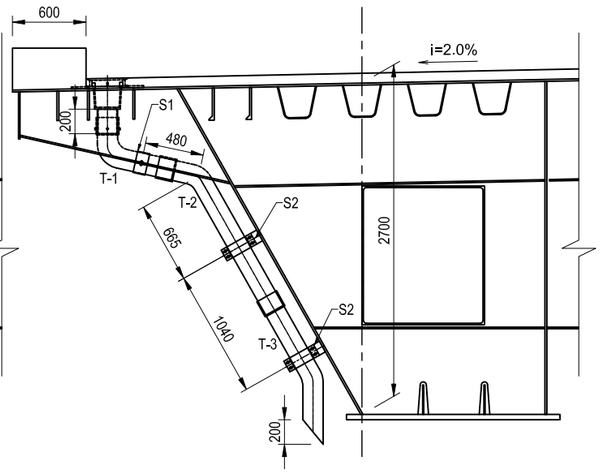
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DRAINAGE DETAIL OF STEEL BOX GIRDER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-3031

DRAINAGE DETAIL OF STEEL BOX GIRDER(2) S=1:50

CROSS SECTION(1)



CROSS SECTION(2)



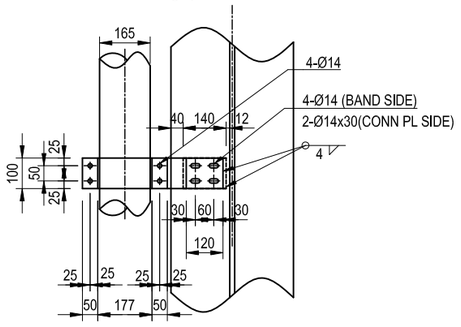
MATERIAL LIST

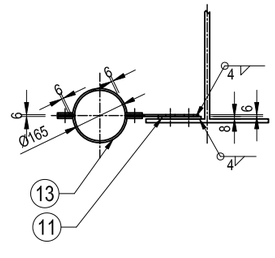
No.	Item	Size	Material	Width (mm)	Length (mm)	Thickness (mm)	Area (mm²)	Used Area (mm²)	Unit Weight (kg/m³)	Weight (kg/pce)	Number	Weight(kg)	Total Length (m)	Remarks
1.	Cover Plate (Thk; 19 mm)	250x362x19 mm	SS400	250	362	19	90500	68170.29	7850	10.17	154	1565.81	-	
2.	Plate (Thk; 19 mm)	50x362x19 mm	SM400	50	362	19	18100	18100	7850	2.70	308	831.48	-	*
3.	Plate (Thk; 19 mm)	50x288x19 mm	SM400	50	288	19	14400	14400	7850	2.15	308	661.51	-	*
	Sub-Total											3058.80		
4.	Plate (Thk; 16 mm)	308x420x16 mm	SM400	308	420	16	129360	66960	7850	8.41	154	1295.17	-	*
5.	Reinforcing Plate (Thk; 16 mm)	588x700x16 mm	SM400	588	700	16	411600	259500	7850	32.59	154	5019.35	-	*
6.	Plate (Thk; 16 mm)	210x250x16 mm	SM400	210	250	16	52500	37106.65	7850	4.66	154	717.73	-	
	Sub-Total											7032.25		
7.	Plate (Thk; 10 mm)	165x229x10 mm	SM400	165	229	10	37785	36217.50	7850	2.84	308	875.67	-	*
8.	Plate (Thk; 10 mm)	157x322x10 mm	SM400	157	322	10	50554	44902	7850	3.52	308	1085.64	-	*
9.	Plate (Thk; 10 mm)	25x30x10 mm	SM400	25	30	10	750	750	7850	0.06	924	54.40	-	*
	Sub-Total											2015.71		
10.	Chain 5 mmØ x 250	-	SUS304	-	-	-	-	-	-	-	154	-	-	*
11.	Plate (Thk; 8 mm)	100x140x8 mm	SM400A	100	140	8	14000	14000	7850	0.88	154	135.40	-	
12.	Plate (Thk; 8 mm)	100x106x8 mm	SM400A	100	106	8	10600	10600	7850	0.67	308	205.03	-	
	Sub-Total											340.43		
13.	FB (Thk; 6 mm)	100x491x6 mm	SS400	100	491	6	49100	49100	7850	2.31	308	712.28	-	*
14.	FB (Thk; 6 mm)	100x365x6 mm	SS400	100	365	6	36500	36500	7850	1.72	616	1059.00	-	*
	Sub-Total											1771.28		
15.	BN (M12x40(2-W))	-	JIS B 3507	-	-	-	-	-	-	-	616	-	-	*
16.	BN (M12x40(2-W))	-	JIS B 3507	-	-	-	-	-	-	-	1232	-	-	*
	Sub-Total										1848			
17.	BN (M12x45(2-W))	-	JIS B 3507	-	-	-	-	-	-	-	616	-	-	*
18.	T1	-	VP150A	-	718	-	-	-	-	-	154	-	110.57	
19.	T2	-	VP150A	-	1456	-	-	-	-	-	154	-	224.22	
20.	T3	-	VP150A	-	1063	-	-	-	-	-	154	-	163.70	
	Sub-Total												498.50	
21.	Sleeve	-	VP150A	-	142	-	-	-	-	-	462	-	65.60	
	Total											14218.47		

Note: The Notation (*) in the table shows galvanized material in accordance with the Specifications.

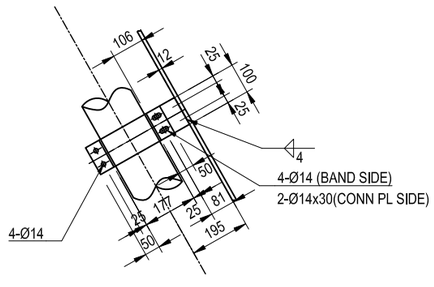
SUPPORT DEVICES S= 1:20

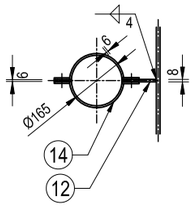
S-1 Nos. = 154





S-2 Nos. = 304



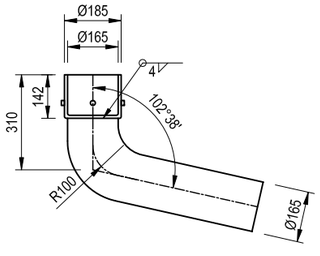


(11) 1 - PL 100 x 8 x 140(SM400A)
(12) 1 - PL 100 x 8 x 106(SM400A)
(13) 2 - FB 100 x 6 x 491
(14) 2 - FB 100 x 6 x 365

(15) 4 - BN M12 x 40 (2-W)
(16) 4 - BN M12 x 40 (2-W)
(17) 4 - BN M12 x 45 (2-W)

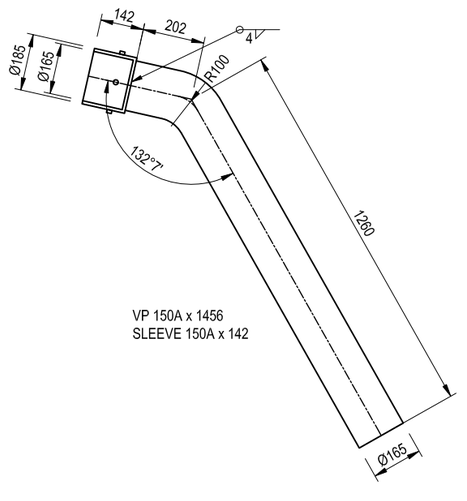
BENDING PIPE S= 1:20

T-1 Nos. = 152



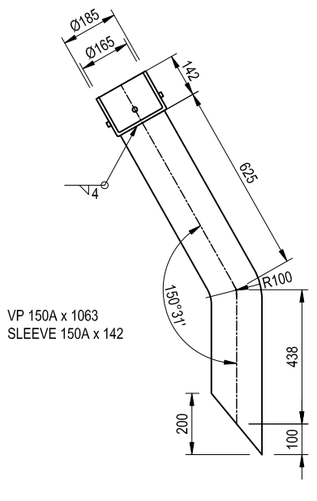
VP 150A x 718
SLEEVE 150A x 142

T-2 Nos. = 152



VP 150A x 1456
SLEEVE 150A x 142

T-3 Nos. = 152

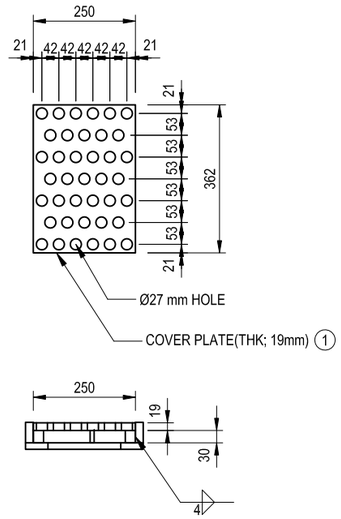


VP 150A x 1063
SLEEVE 150A x 142

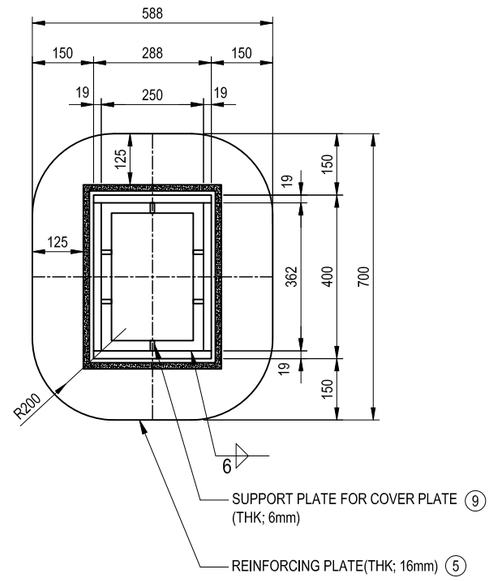
PROJECT NAME	DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT				
FINANCED BY	JAPAN INTERNATIONAL COOPERATION AGENCY				
COUNTERPART	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE				
JICA STUDY TEAM	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.				
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DRAINAGE DETAIL OF STEEL BOX GIRDER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-3032

DRAINAGE DETAIL OF STEEL BOX GIRDER(3) S=1:15

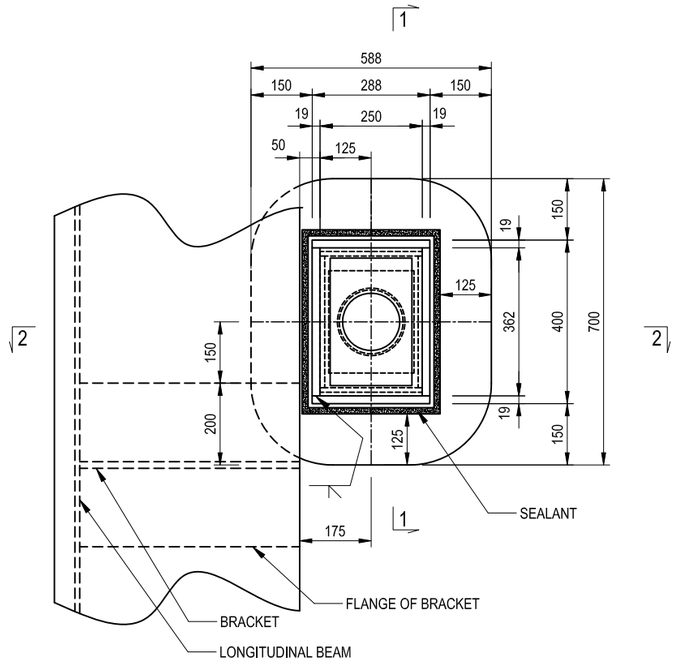
CATCH PIT (NUMBER : 154)



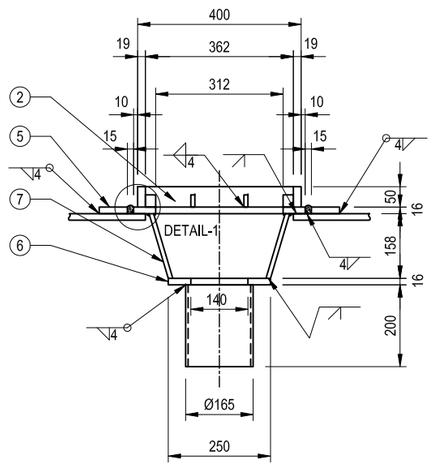
A - A



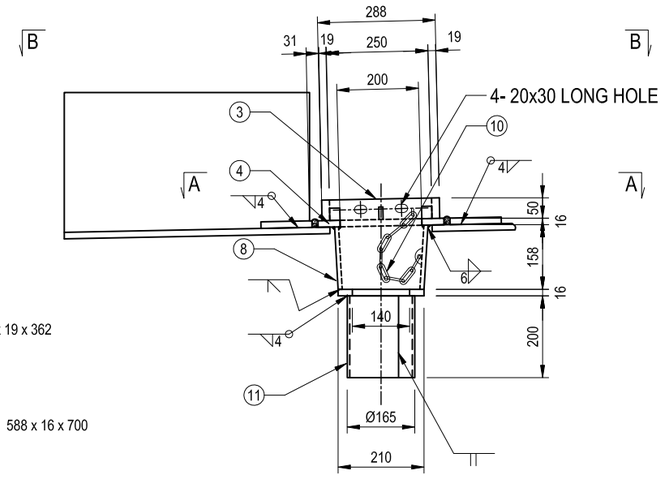
B - B



1 - 1



2 - 2



(1) 1 - COVER PL 250 x 19 x 362
(2) 2 - PL 50 x 19 x 362
(3) 2 - PL 50 x 19 x 288
(4) 1 - PL 308 x 16 x 420
(5) 1 - REINFORCING PL 588 x 16 x 700
(6) 1 - PL 210 x 16 x 250
(7) 2 - PL 165 x 10 x 229
(8) 2 - PL 157 x 10 x 322
(9) 6 - PL 25 x 10 x 30
(10) 1 - Chain 5Φ x 250(SUS304)
(11) 1 - Pipe165.2 x 4.5 x 200(STK400)

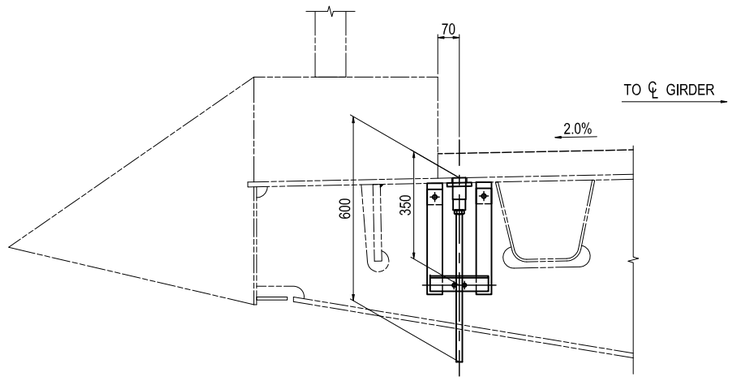
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

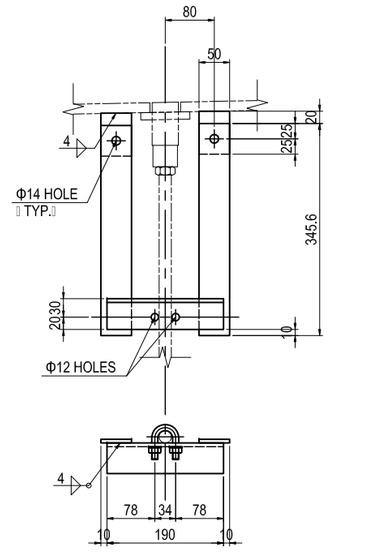
DRAWING TITLE	PACKAGE
DRAINAGE DETAIL OF STEEL BOX GIRDER (3)	2
	DWG No.
	P2-SB-3033

DRAINAGE DETAIL OF STEEL BOX GIRDER(4) S=1:20

DETAIL OF FLOOR DRAINAGE

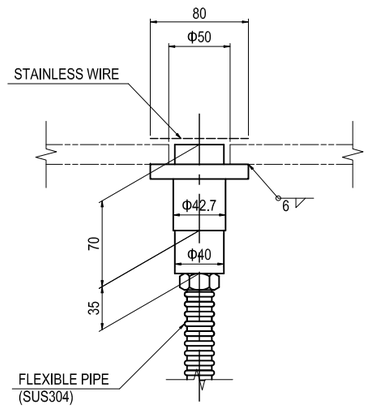


STEADY PIECE DETAIL S=1:10

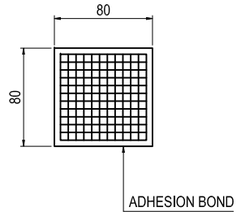


2-PL 50x6x70(SM400A)
2-PL 50x6x346(SS400)
1-L 50x50x6x190(SS400)
2-BN M12x35(1-W,1-UNut)(SS400)
1-U.BOLT M10(15C)(2-W)(SS400)
2-WASHER M10(SS400)

FLEXIBLE PIPE DETAIL S=1:5



STAINLESS WIRE DETAIL S=1:5



NOTES:

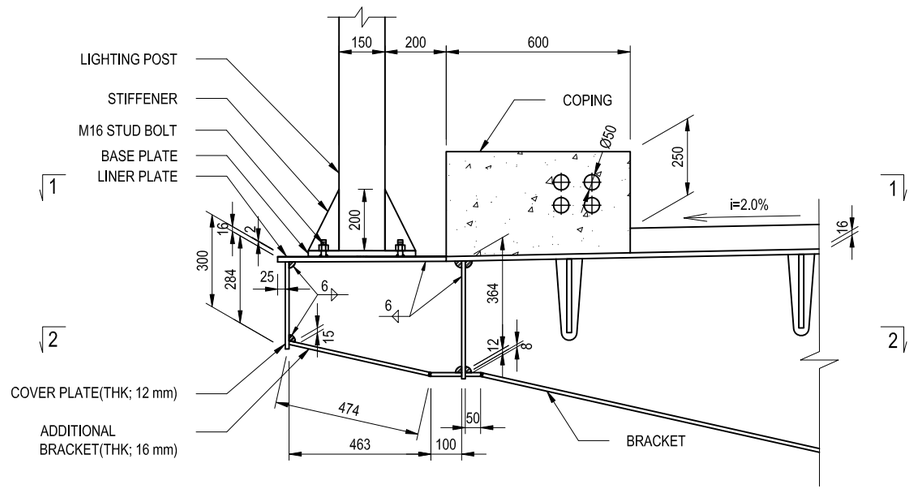
1 - HOT-DIP GALVANIZED COATING OVER 550g/m², 350g/m² (FOR BOLT, WASHER & NUT AND MEMBER WITH A THICKNESS OF LESS THAN 3.2mm)
2 - Floor Drainage shall be installed at maximum 5m interval and Quantity is estimated at nos.346.

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	DRAWING TITLE: DRAINAGE DETAIL OF STEEL BOX GIRDER (4)	PACKAGE: 2 / DWG No.: P2-SB-3034

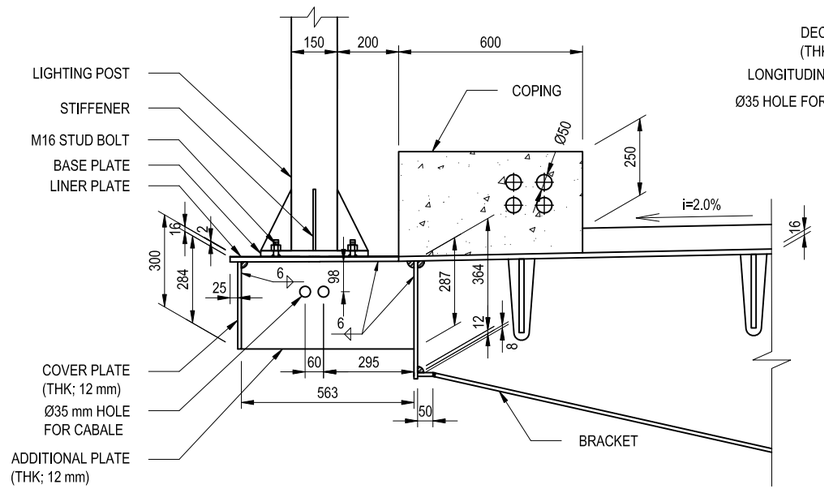
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DETAIL OF BRACKET FOR LIGHTING POST S=1:20

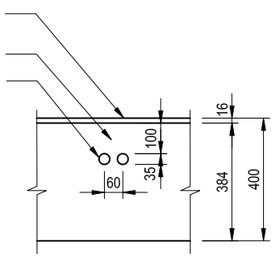
A - A



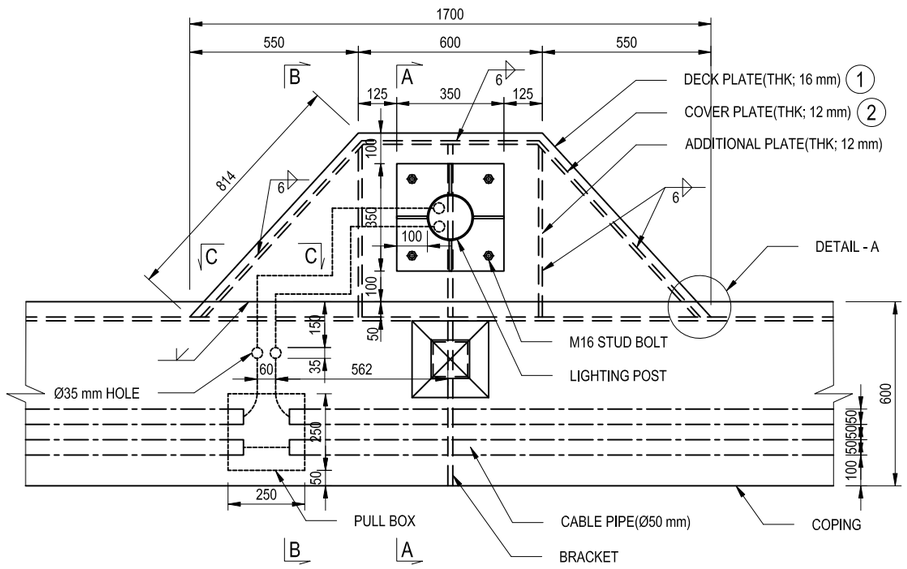
B - B



C - C

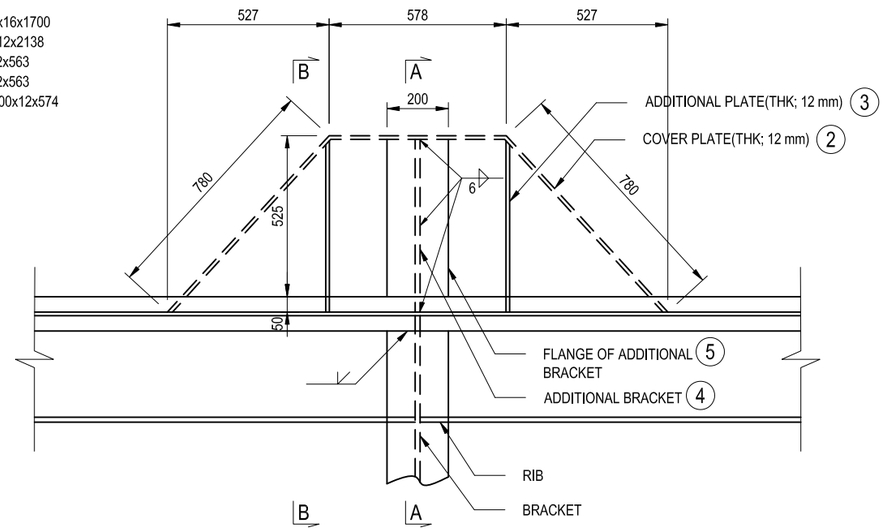


1 - 1

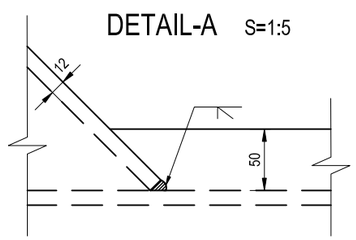


(1) 1-DECK PL 550x16x1700
(2) 1-WEB PL 284x12x2138
(3) 2-RIB PL 287x12x563
(4) 1-RIB PL 364x12x563
(5) 1-FLANGE PL 200x12x574

2 - 2



DETAIL-A S=1:5



MATERIAL LIST

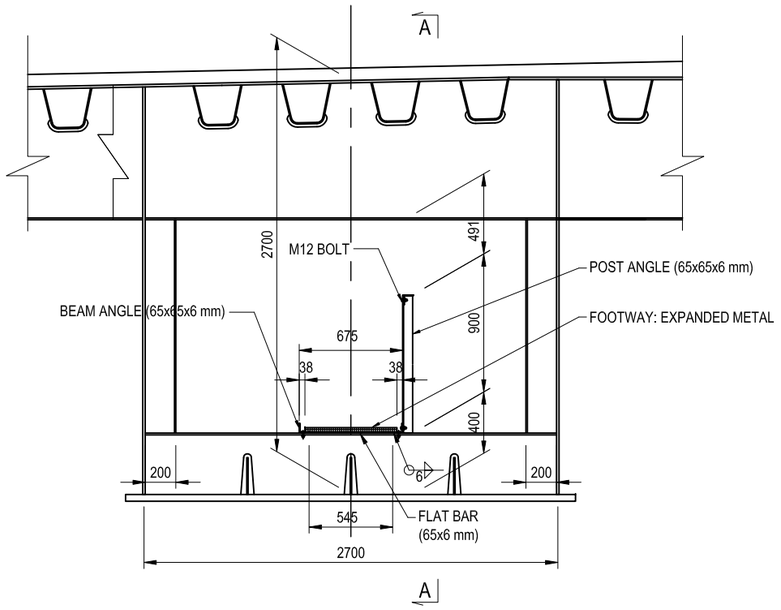
No.	Item	Material	Width (mm)	Length (mm)	Thickness (mm)	Area(mm²)	Used Area (mm²)	Net(%)	Unit Weight (kg/m³)	Weight (kg/pce)	Number	Weight(kg)	Remarks
1.	Deck Plate (Thk; 16 mm)	SM490Y	550	1700	16	935000	632500	67.65%	7850	79.44	40	3177.68	
2.	Cover Plate (Thk; 12 mm)	SM490Y	284	2138	12	607192	607192	-	7850	57.20	40	2287.90	
3.	Additional Plate (Thk; 12 mm)	SM490Y	287	563	12	161581	160736.50	99.48%	7850	15.14	80	1211.31	
4.	Additional Bracket (Thk; 12 mm)	SM490Y	364	563	12	204932	179742.24	87.71%	7850	16.93	40	677.27	
5.	Flange of Additional Bracket (Thk; 12 mm)	SM490Y	200	574	12	114800	114800	-	7850	10.81	40	432.57	
	Sub-Total											4609.04	
6.	Stud Bolt (M16x35 mm)	JIS B 3507	-	-	-	-	-	-	-	0.057	160	9.12	
7.	Nut for Stud Bolt M16	JIS B 1181	-	-	-	-	-	-	-	0.057	160	9.12	
	Total											7804.96	

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

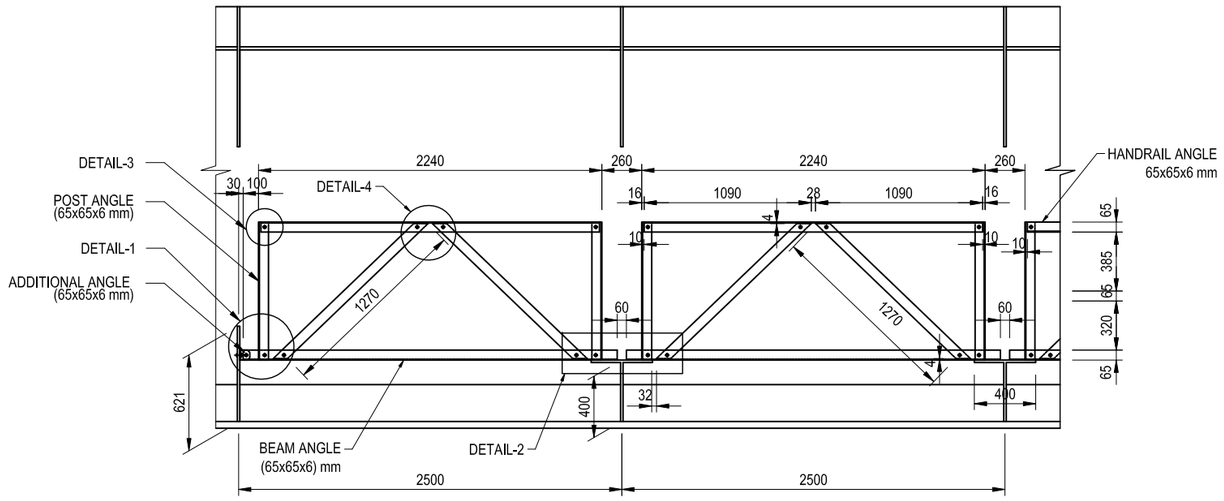
	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF BRACKET FOR LIGHTING POST	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-3035

INSPECTION WALKWAY S=1:40

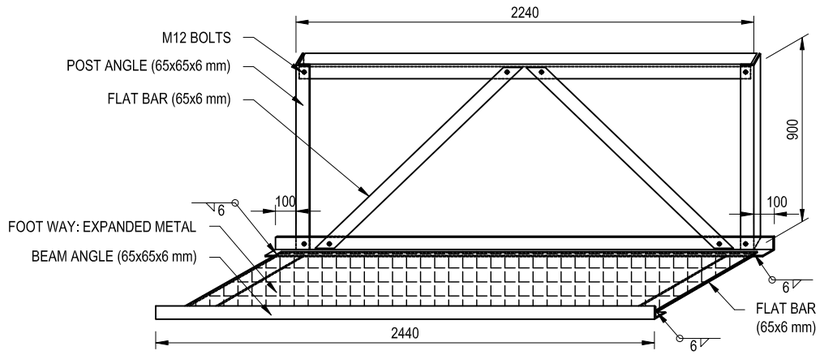
CROSS SECTION



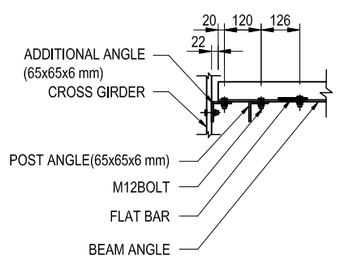
SECTION A - A



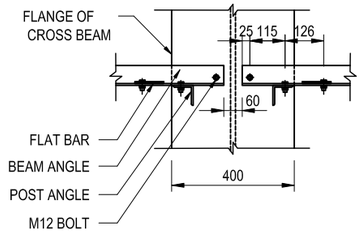
INSEPECTION WALKWAY UNIT S=1:30



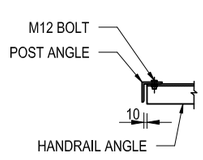
DETAIL - 1



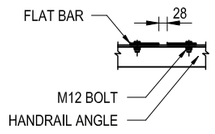
DETAIL - 2



DETAIL - 3



DETAIL - 4 S=1:20



MATERIAL LIST

No.	Item	Size	Material	Width (mm)	Length (mm)	Unit Weight (kg/m)	Unit Weight (kg/m²)	Weight (kg/pce)	Number	Weight(kg)	Remarks
1.	Beam Angle	65x65x6mm	SM400	-	2440	5.91	-	14.42	464	6691.07	*
		65x65x6mm	SM400	-	1940	5.91	-	11.47	196	2247.22	*
	Additional Angle	65x65x6mm	SM400	-	65	5.91	-	0.38	166	63.77	
	Sub-Total									9002.05	
2.	Post Angle	65x65x6mm	SS400	-	900	5.91	-	5.32	660	3510.54	*
	Handrail Angle	65x65x6mm	SS400	-	2208	5.91	-	13.05	232	3027.43	*
		65x65x6mm	SS400	-	1708	5.91	-	10.09	98	989.24	*
	Sub-Total									7527.21	
3.	Flat Bar(Diagonal)	65x6mm	SS400	-	1270	3.06	-	3.89	464	1803.20	*
		65x6mm	SS400	-	1104	3.06	-	3.38	196	662.14	*
	Flat Bar(Horizontal)	65x6mm	SS400	-	545	3.06	-	1.67	660	1100.68	*
	Sub-Total									3566.01	
4.	Foot Way(Expanded Metal)	-	SM400	600	2400	-	2.28	3.28	232	761.70	*
	Foot Way(Expanded Metal)	-	SM400	600	1900	-	2.28	2.60	98	254.72	*
	Sub-Total									1016.42	
5.	Set Bolt	M12x35 mm	SS400	-	-	-	-	0.057	4292	244.64	
	Total									21356.35	

Note: The Notation (*) in the table shows galvanized material in accordance with the Specifications.

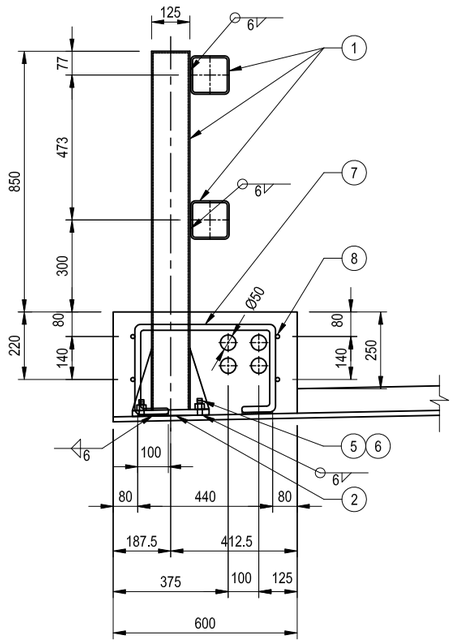
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	INSPECTION WALKWAY	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-3041

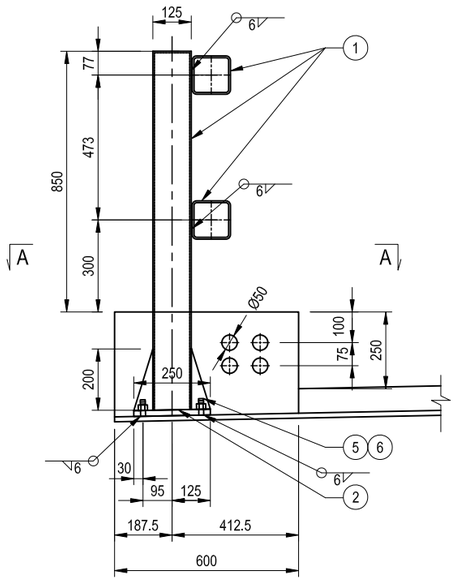
DETAIL OF COPING AND BARRIER FOR STEEL BOX GIRDER (1)

S= 1:20

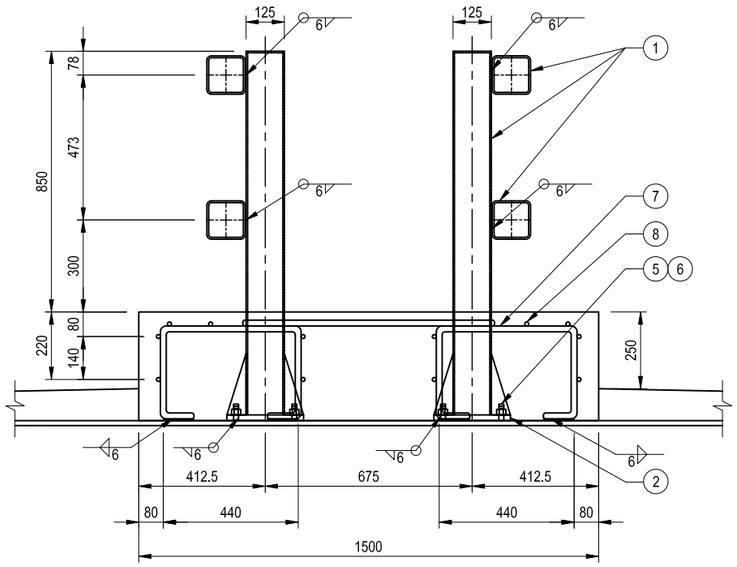
CROSS SECTION(1)



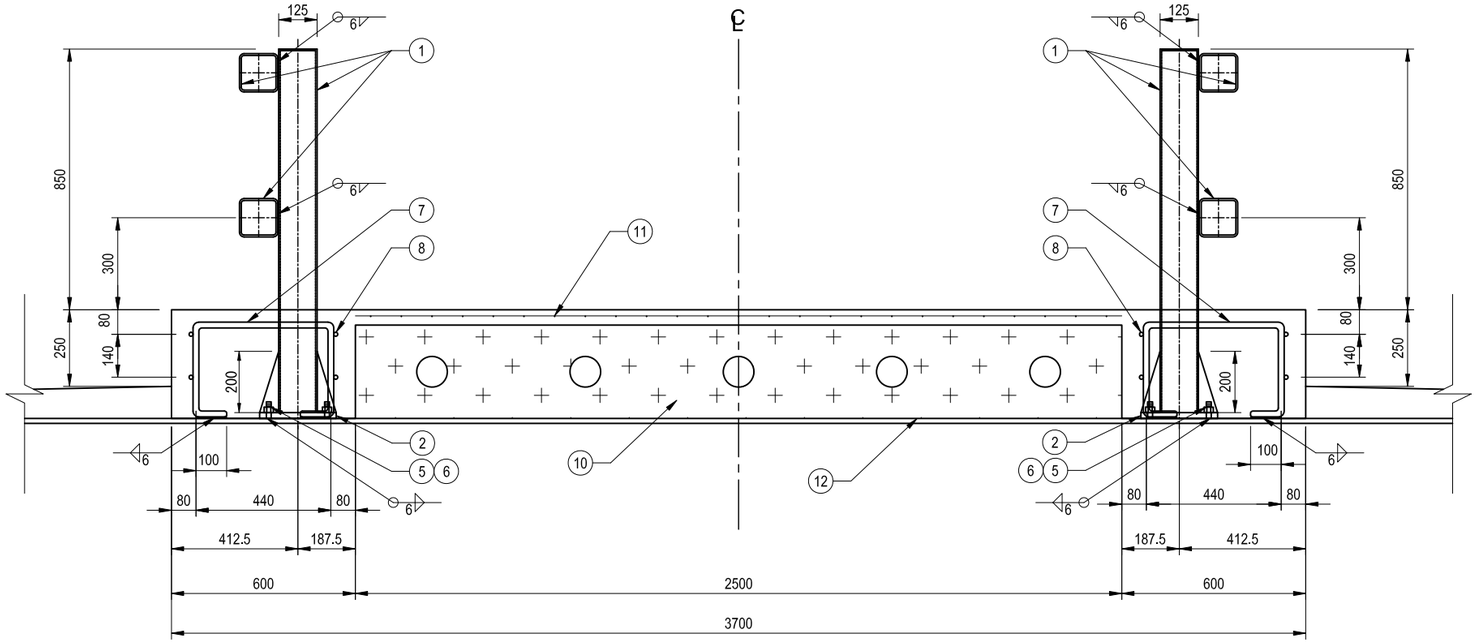
CROSS SECTION(2)



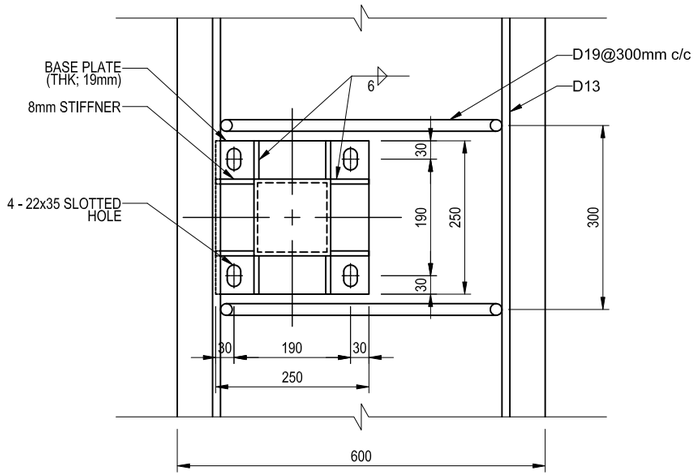
CROSS SECTION(3)



CROSS SECTION(4)



A - A S=1:10

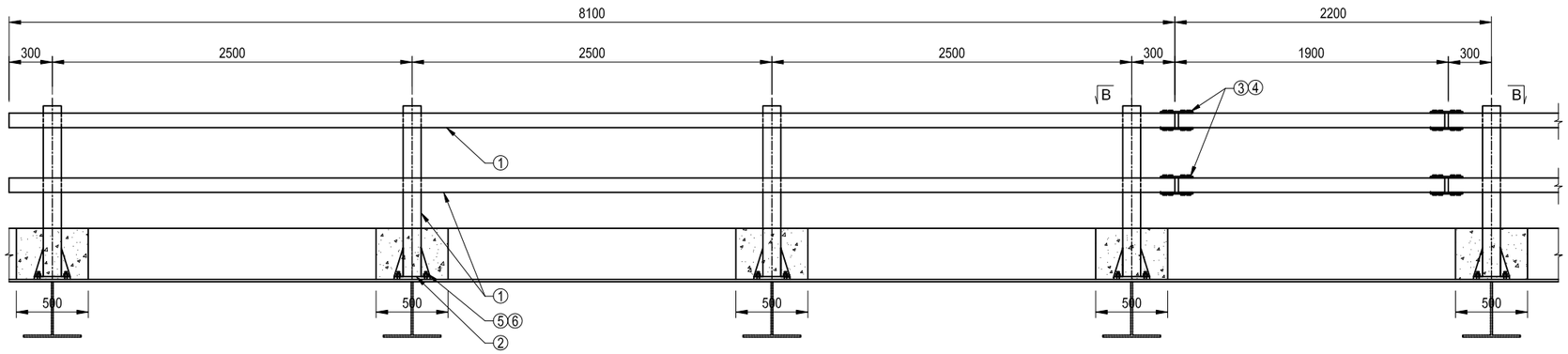


PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF COPING AND BARRIER (1)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-3051

DETAIL OF COPING AND BARRIER FOR STEEL BOX GIRDER (2) S= 1:40

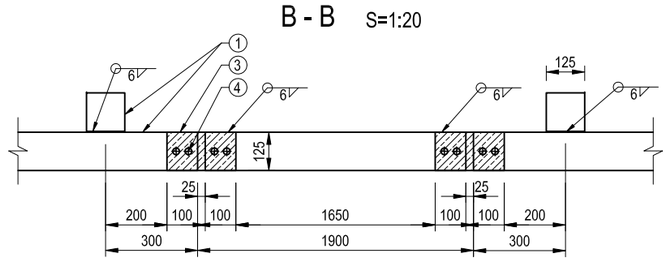
TYPICAL SIDE VIEW OF GUARD RAIL PIPES



MATERIAL LIST

No.	Item	Size	Material	Width (mm)	Length (mm)	Thickness (mm)	Unit Weight (kg/m)	Weight (kg/pce)	Number	Weight(Kg)	Remarks
1.	Side Post	125x125x6 mm	STKR	-	1169	-	21.7	25.37	662	16793.15	*
	Middle Post	125x125x6 mm	STKR	-	1185	-	21.7	25.71	662	17023	*
	Top Rail	125x125x6 mm	STKR	-	8100	-	21.7	175.77	232	40778.64	*
		125x125x6 mm	STKR	-	1900	-	21.7	41.23	220	9070.60	*
		125x125x6 mm	STKR	-	6600	-	21.7	143.22	96	13749.12	*
		125x125x6 mm	STKR	-	1400	-	21.7	30.38	96	2916.48	*
		125x125x6 mm	STKR	-	5900	-	21.7	128.03	4	512.12	*
		125x125x6 mm	STKR	-	4400	-	21.7	95.48	4	381.92	*
	Bottom Rail	125x125x6 mm	STKR	-	8100	-	21.7	175.77	232	40778.64	*
		125x125x6 mm	STKR	-	1900	-	21.7	41.23	220	9070.60	*
		125x125x6 mm	STKR	-	6600	-	21.7	143.22	96	13749.12	*
		125x125x6 mm	STKR	-	1400	-	21.7	30.38	96	2916.48	*
		125x125x6 mm	STKR	-	5900	-	21.7	128.03	4	512.12	*
		125x125x6 mm	STKR	-	4400	-	21.7	95.48	4	381.92	*
	Sub-Total									168633.91	
2.	Base Plate	250x250x19 mm	SM400	-	-	-	7850 (kg/m^3)	9.32	1324	12342.16	*
3.	Connection Plate@Top Rail	125x225x19 mm	SM400	-	-	-	7850 (kg/m^3)	4.19	1296	5436.52	*
	Connection Plate@Bottom Rail	125x225x19 mm	SM400	-	-	-	7850 (kg/m^3)	4.19	1296	5436.52	*
	Sub-Total									23215.20	
4.	D22 Bolt for Connection Plate	M22x80 mm	F8T	-	-	-	-	0.585	5184	3032.64	*
5.	Stud Bolt	M16x45 mm	JIS B 3507	-	-	-	-	0.057	5296	301.87	
6.	Nut for Stud Bolt M16	M16 Nut	JIS B 1181	-	-	-	-	0.057	5296	301.87	
	Sub-Total (Bolt & Nut)									3636.38	
7.	Coping Bar(Side)	19 mm Ø	SD345	-	1200	-	2.25	2.70	5174	13961.21	
	Coping Bar(Middle) 3700@P13 to G.B(P13)-7	19 mm Ø	SD345	-	1200	-	2.25	2.70	352	949.82	
	Coping Bar(Middle) 1500@G.B(P13)-7 to P20	19 mm Ø	SD345	-	1200	-	2.25	2.70	4824	13016.79	
	Coping Bar(Middle) 1500@G.B(P13)-7 to P20	19 mm Ø	SD345	-	820	-	2.25	1.84	2412	4447.40	
	Sub-Total									32375.21	
8.	Coping Bar(Side)	13 mm Ø	SD345	-	776000	-	0.99	771.42	8	6171.34	
	Coping Bar(Middle) 3700@P13 to G.B(P13)-7	13 mm Ø	SD345	-	52500	-	0.99	52.19	8	417.52	
	Coping Bar(Middle) 1500@G.B(P13)-7 to P20	13 mm Ø	SD345	-	723500	-	0.99	719.23	12	8630.72	
	Sub-Total									15219.58	

B - B S=1:20



No.	Item	Size	Material	Width (mm)	Length (mm)	Depth (mm)		Volume (m^3)	Number	Total Volume (m^3)	Remarks
9.	Coping Concrete(Side)	-	24MPa	600	776022.3	342, 330		156.45	2	312.89	
	Coping Concrete(Middle) 3700@P13 to G.B(P13)-7	-	24MPa	600	52522.28	330		10.40	2	20.80	
	Covering Concrete	-	24MPa	2500, 300	52514.73	50		3.68	1	3.68	**
	Coping Concrete(Middle) 1500@G.B(P13)-7 to P20	-	24MPa	1500	723500	330		358.13	1	358.13	
	Total									695.50	
10.	EPS	-								14.09	

No.	Item	Size	Material	Width (mm)	Length (mm)			Area (m^2)	Number	Total Area (m^2)	Remarks
11.	Welded Wire Mesh	3.2 mm Ø						50.34	1	50.34	**
12.	Water Proofing	-						50.34	1	50.34	**
	Total									100.68	

Note: The Notation (*) in the Table shows galvanized material in accordance with the Specifications.
Items with the Notation (**) in the Table shall include the payment of BOQ No.07210-04 Median at Steel Box Girder Bridge.

PROJECT NAME: DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY: JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART: REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM: NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.		

	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
PREPARED BY	S. IMADA		15 Jun.2017	DETAIL OF COPING AND BARRIER (2)	2
CHECKED BY	T. HAYAKAWA		20 Jun.2017		DWG No.
APPROVED BY	Y. SANO		21 Jun.2017		P2-SB-3052

(REFERENCE) QUANTITY TABLE OF SUB STRUCTURE

Not to Scale

QUANTITY TABLE OF RC PIER COLUMN AND BEAM STRUCTURE

Structure Component	Work Item	Specification	Division	Unit	Quantity Total of P14-P19
Pier Column and Beam (Reinforced Concrete Structure)	Concrete	σck=30N/mm^2		m^3	5,627.2
	Re-bar	SD345	D 13	kg	—
			D16 ～ D25	〃	375,821
			D29 ～ D32	〃	50,856
			D 35	〃	—
			D 38	〃	—
			D 51	〃	—
			Total		426,677
		SD390	D 38	〃	372,795
	Mechanical splice	SD345	D 35	Point	—
			D 38	〃	—
			D 51	〃	—
			Total	〃	—
		SD390	D 38	〃	3,352

QUANTITY TABLE OF STEEL PIPE SHEET PILE FOUNDATION

Structure Component	Work Item	Specification / Division				Unit	Quantity Total of P14-P19	Remark
Steel Pipe Sheet Pile Foundation	Steel Sheet Pipe Well and Bulkhead Steel Sheet Pipe Wall	Pile number				Number	180	Outside Steel Pipe Well
						〃	36	Bulkhead Steel Sheet Pipe Wall
		Total				〃	216	
		Pile length				m	11,862.0	
		All number	Steel pipe weight	φ1200	t=14mm	t	3,474.540	SKY400
					t=14mm	〃	662.580	SKY490
					t=16mm	〃	1,344.960	SKY400
				φ165.2	t=11mm	〃	987.900	STK400
			Accessories weight	Reinforcement Band	PL t= 9mm	t	17.280	SS400
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	〃	2.592	SS400
					PL t=16mm	〃	—	SS400
				Sling	PL t=22mm	〃	7.776	SM490A
				Interlocking Toe	PL t=12mm	Piece	444	SS400
				In-situ Attached Interlocking		Point	444	STK400
				Precut		〃	444	
Steel Pipe Sheet Pile Foundation	Excavation inside	Pile inside				m^3	2,007.7	
		Pile head				〃	287.6	
	Concrete filling	Fill concrete		σck=21N/mm^2		m^3	1,693.8	
		Pile head		σck=24N/mm^2		〃	48.6	
	Cleaning inside joint pipe					m	9,178.9	
	Mortar filling inside joint pipe	σck=21N/mm2		Mortar length		m	11,563.2	
				Mortar quantity		m^3	303.4	
	Sealing inside joint pipe	σck= 0.2N/mm2		Sealing length		m	2,268.0	
				Sealing quantity		m^3	64.8	
				Sealing bag		m	4,536.0	
	Excavation inside the well					m^3	6,078.8	
	Backfill inside the well					m^3	1,416.3	
	Footing concrete	σck=24N/mm^2				m^3	2,956.8	
	Bottom slab concrete	σck=21N/mm^2				m^3	1,522.8	
	Spread sand					m^3	349.2	
	Pile head	Shear Connector		PL-32×16×3597		kg	1,044	
		Stopper		PL-25×9×50		〃	18	
	Pile head Re-bar	Re-bar	SD345		D 13	kg	1,842	
					D16 ～ D25	〃	—	
					D29 ～ D32	〃	5,508	
					Total	〃	7,350	
	Footing Re-bar	Re-bar	SD345		D 13	kg	—	
					D16 ～ D25	〃	45,684	
					D29 ～ D32	〃	72,804	
					D 35	〃	—	
					D 38	〃	—	
					D 51	〃	190,242	
					Total	〃	308,730	
		Mechanical splice	SD345		D 38	Point	—	
					D 51	〃	534	
					Total	〃	534	
	Welding of the dowel	Welding of the dowel stage				Stage	5,040	
		Welding of the dowel Weight (SD345, D22)				kg	49,488	

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		15 Jun.2017
CHECKED BY	T. HAYAKAWA		20 Jun.2017
APPROVED BY	Y. SANO		21 Jun.2017

DRAWING TITLE	PACKAGE
(REFERENCE) QUANTITY TABLE OF SUBSTRUCTURE PIER No.14-19	2
	DWG No.
	P2-SB-4101