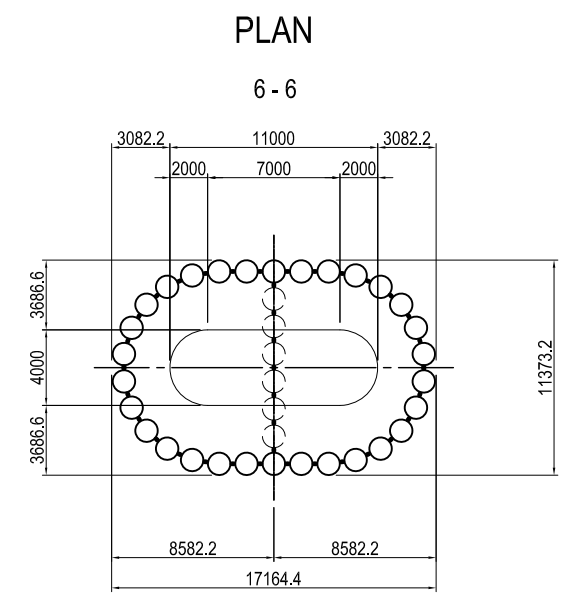
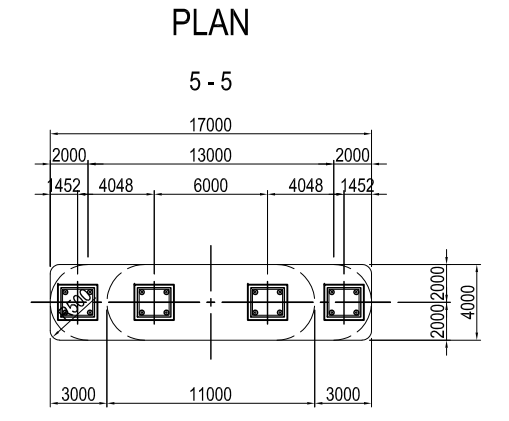
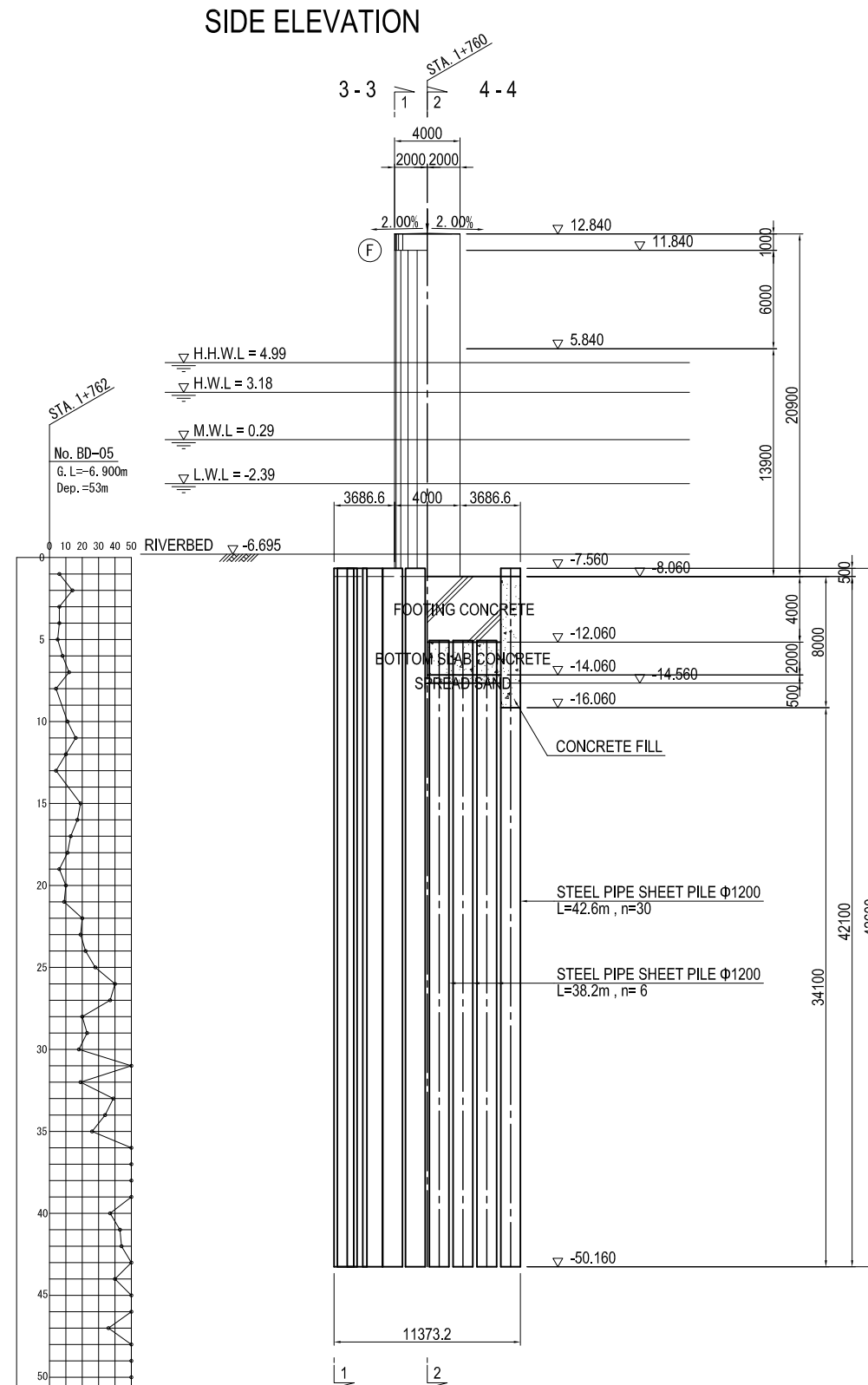
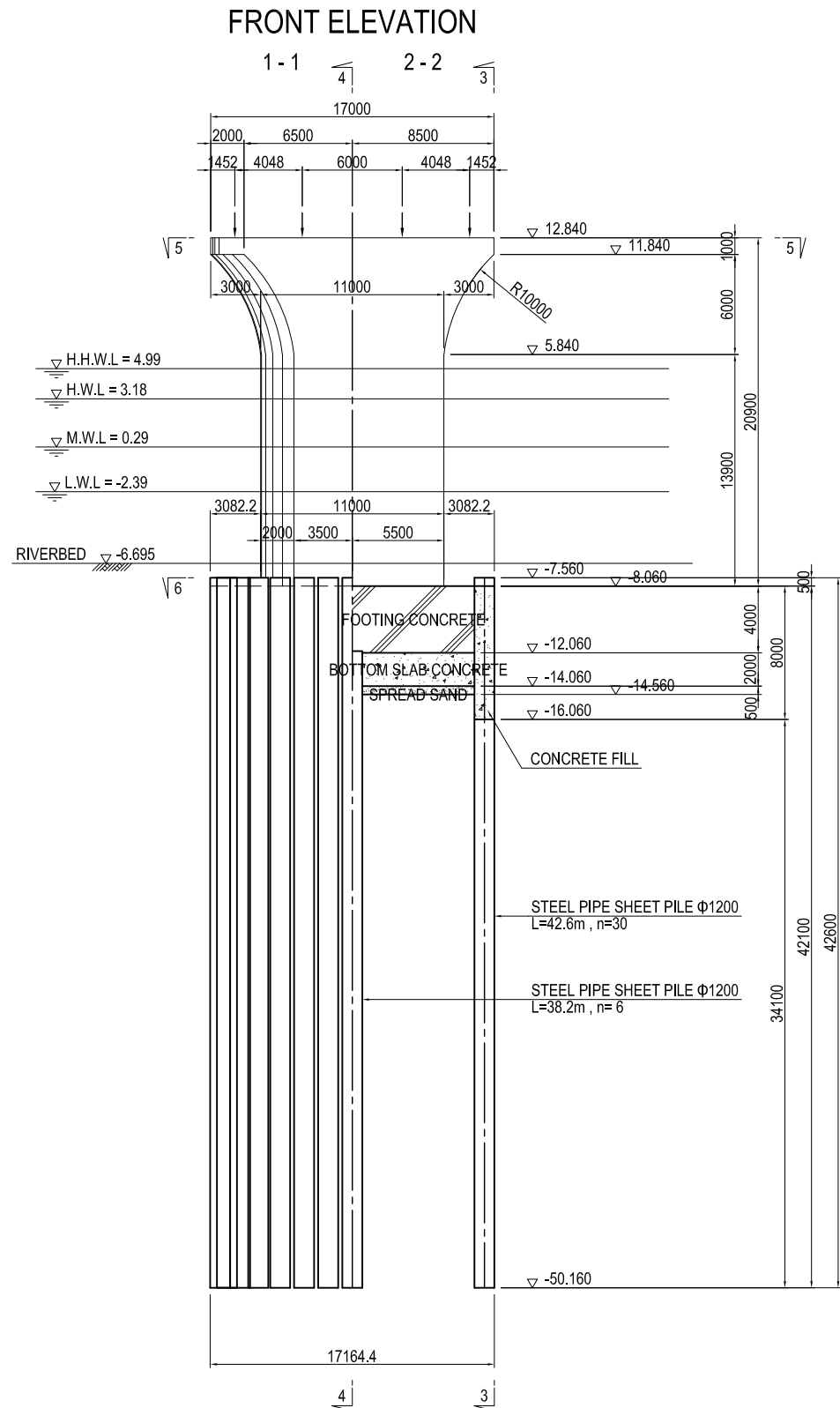


GENERAL VIEW OF P17 PIER (1)

S=1:400



USE MATERIALS

	CONCRETE	BAR
BEAM	$\sigma_{ck} = 30 \text{ N/mm}^2$	SD345
COLUMN	$\sigma_{ck} = 30 \text{ N/mm}^2$	SD390 • SD345
FOOTING	$\sigma_{ck} = 24 \text{ N/mm}^2$	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		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

DRAWING TITLE	PACKAGE
GENERAL VIEW OF P17 PIER (1)	2
	DWG No.
	P2-SB-2301

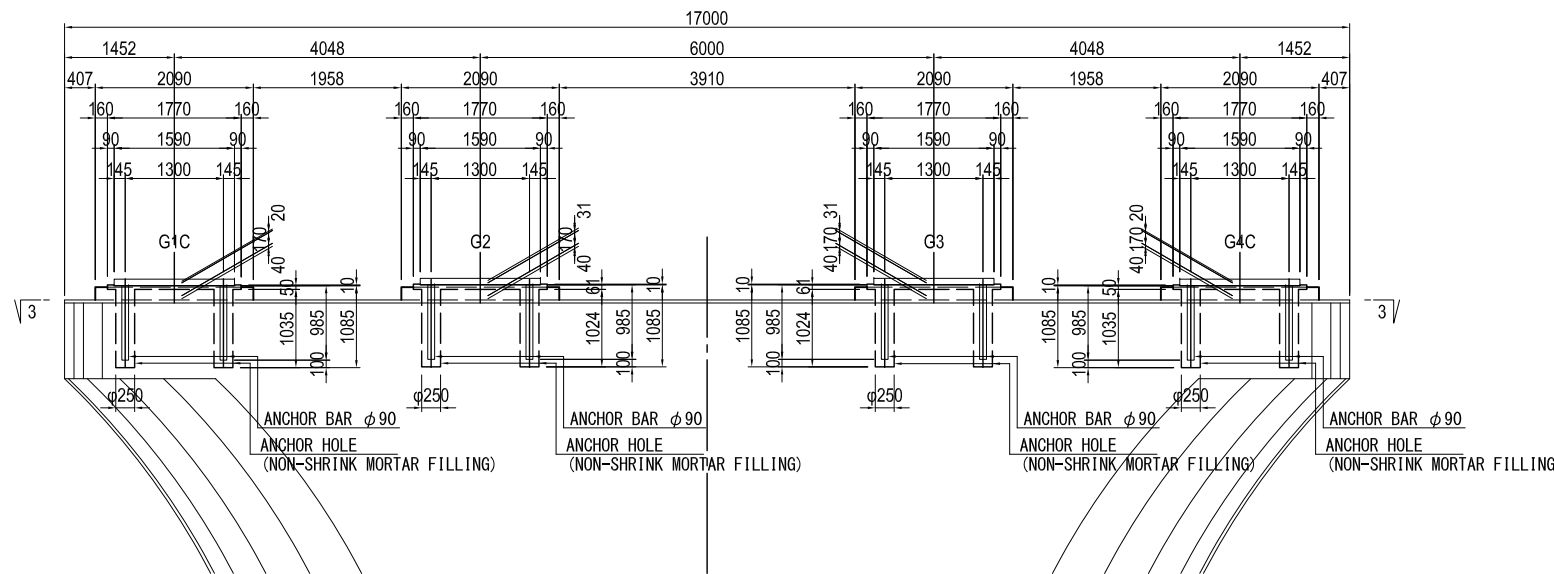
GENERAL VIEW OF P17 PIER (2)

S=1:100

DETAIL OF BEARING AND ANCHOR

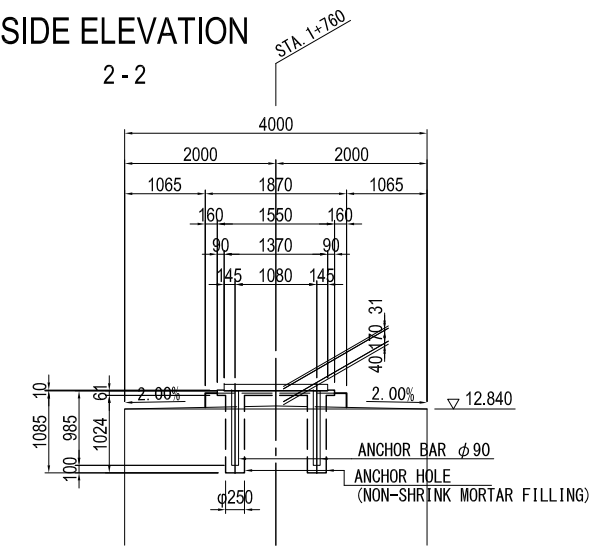
FRONT ELEVATION

1-1



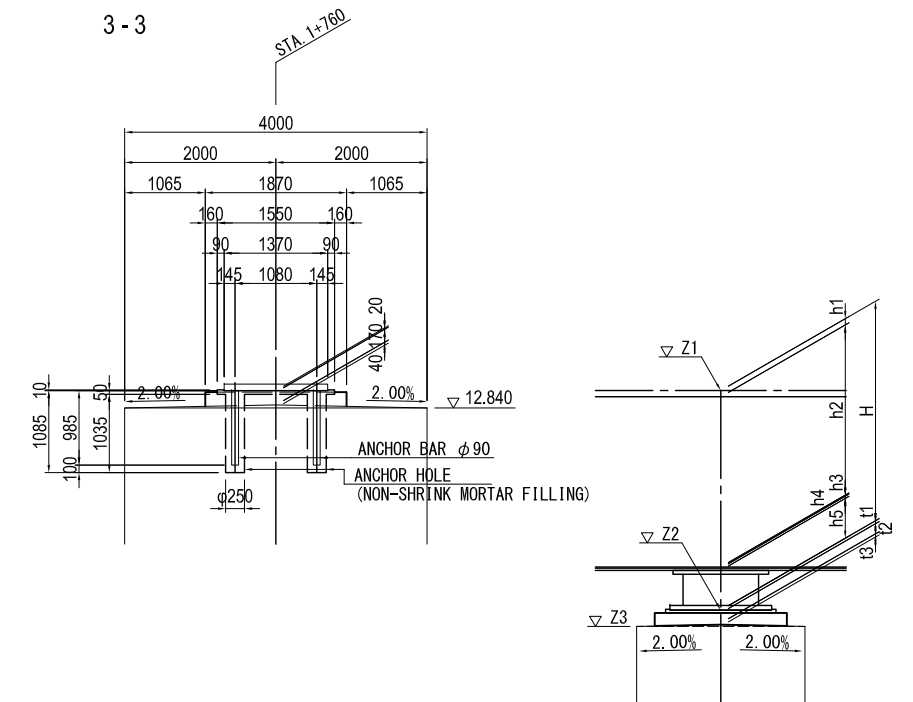
SIDE ELEVATION

2-2



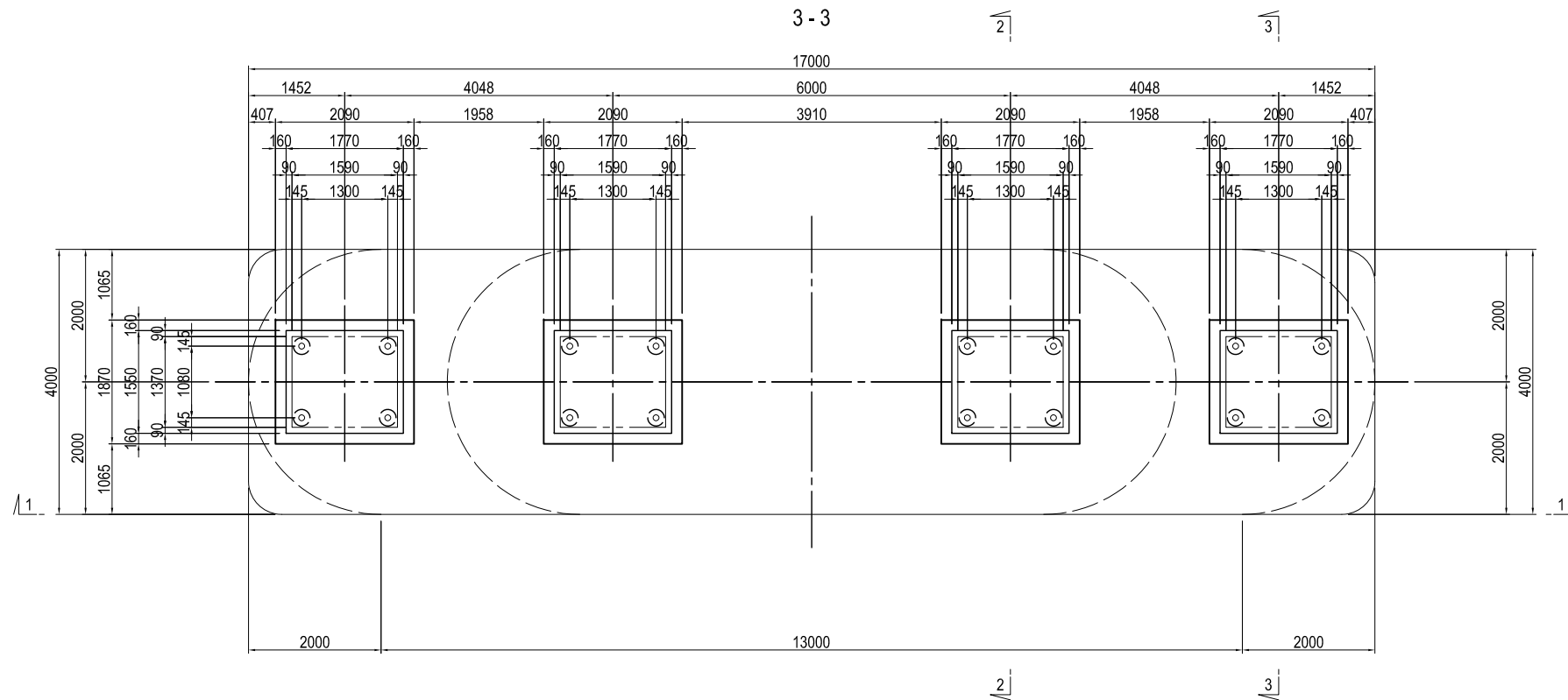
SIDE ELEVATION

3-3



PLAN

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

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

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

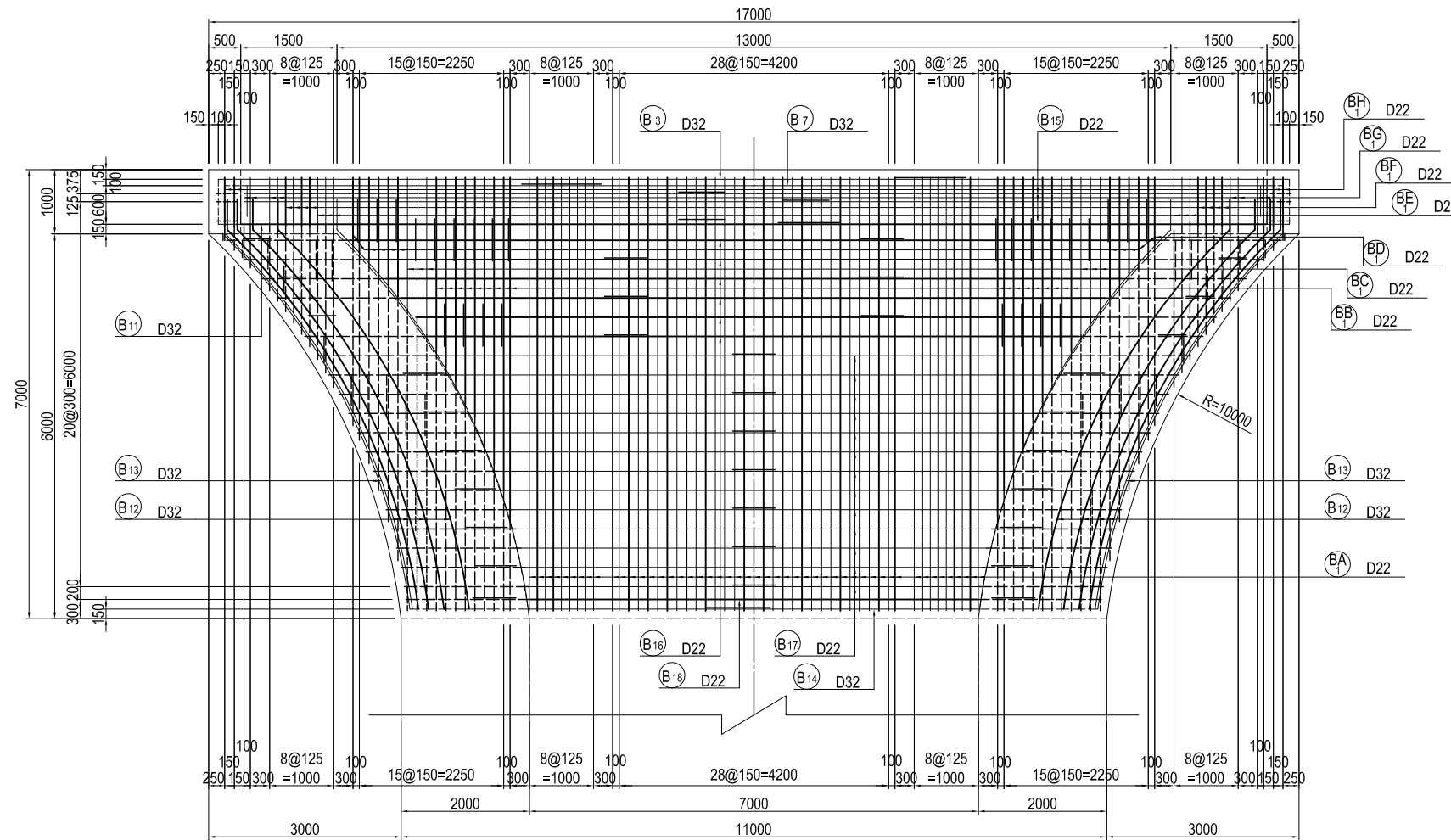
DRAWING TITLE
GENERAL VIEW OF P17 PIER (2)

PACKAGE
2
DWG No.
P2-SB-2302

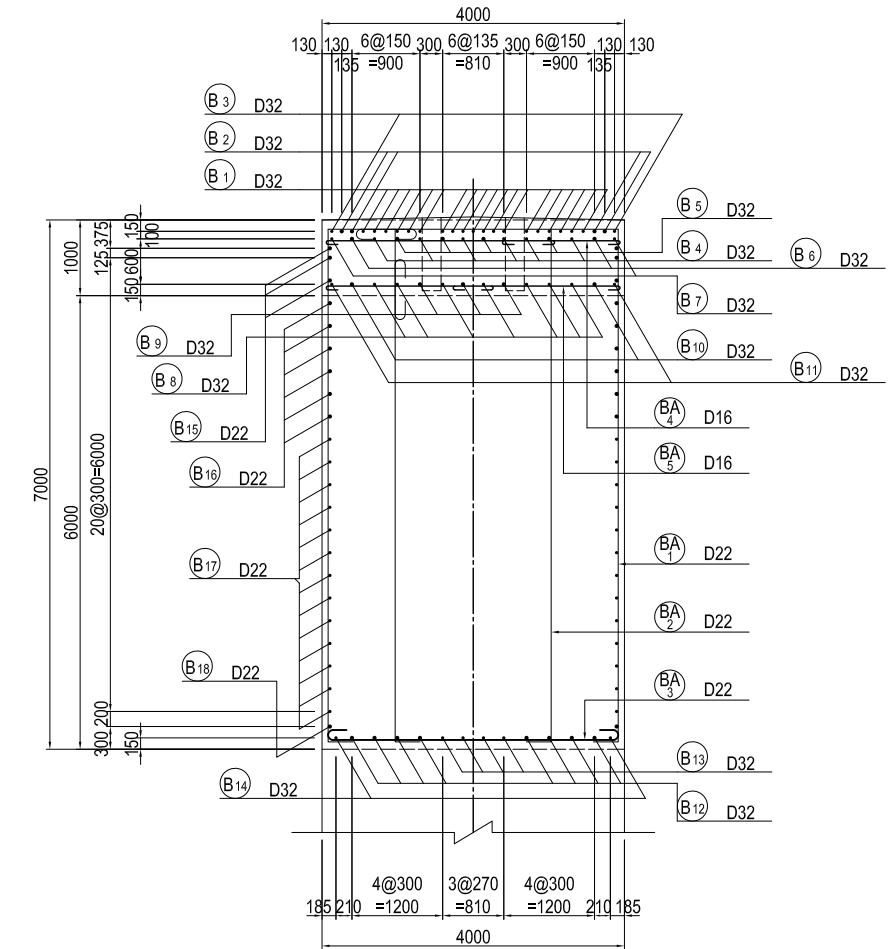
BAR ARRANGEMENT OF P17 PIER (1) S=1:100

BEAM

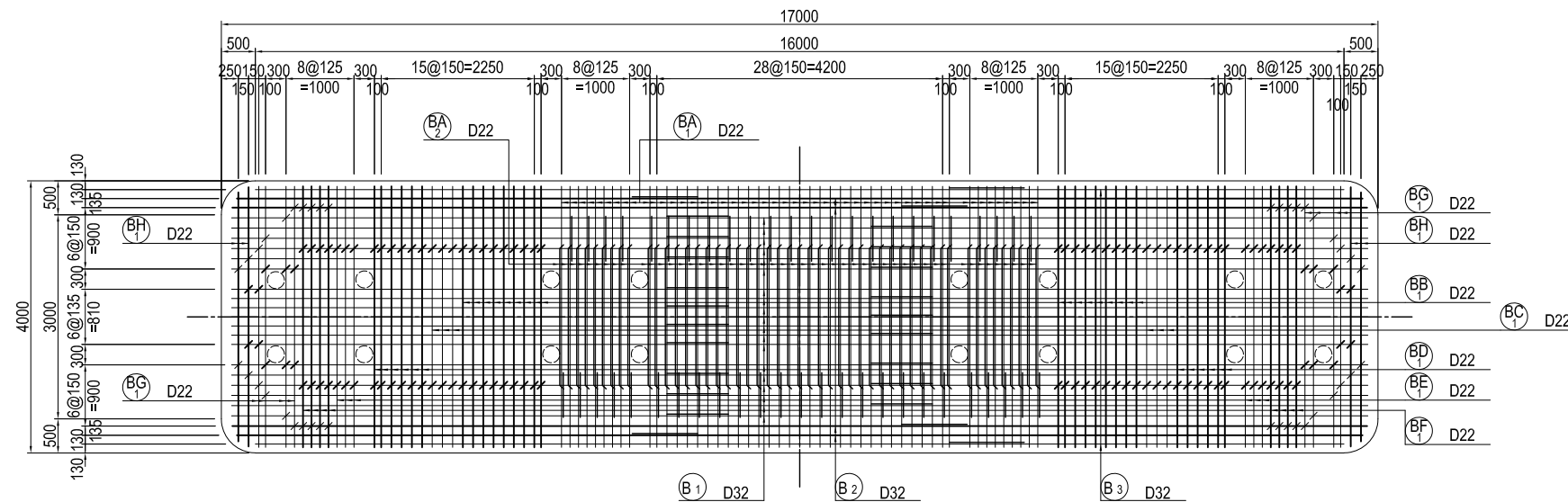
FRONT ELEVATION 1-1



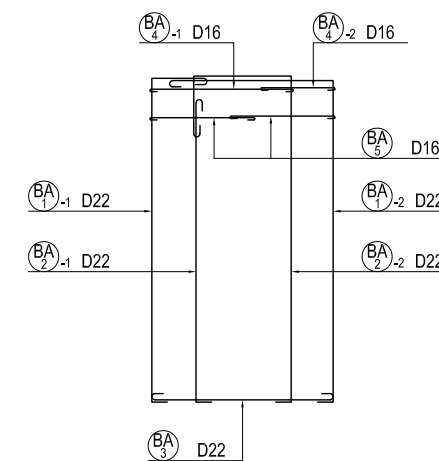
SECTION 3-3



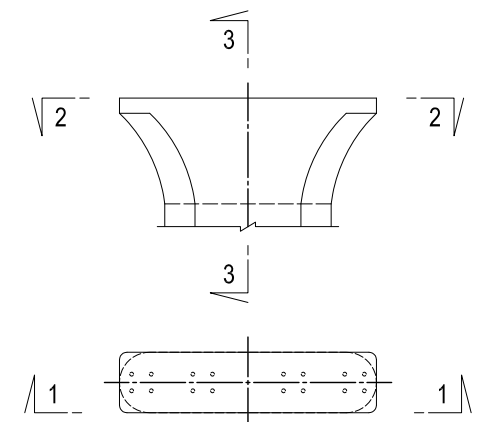
PLAN 2-2



ASSEMBLY DRAWING OF STIRRUP



MARKING DIAGRAM



USE MATERIALS

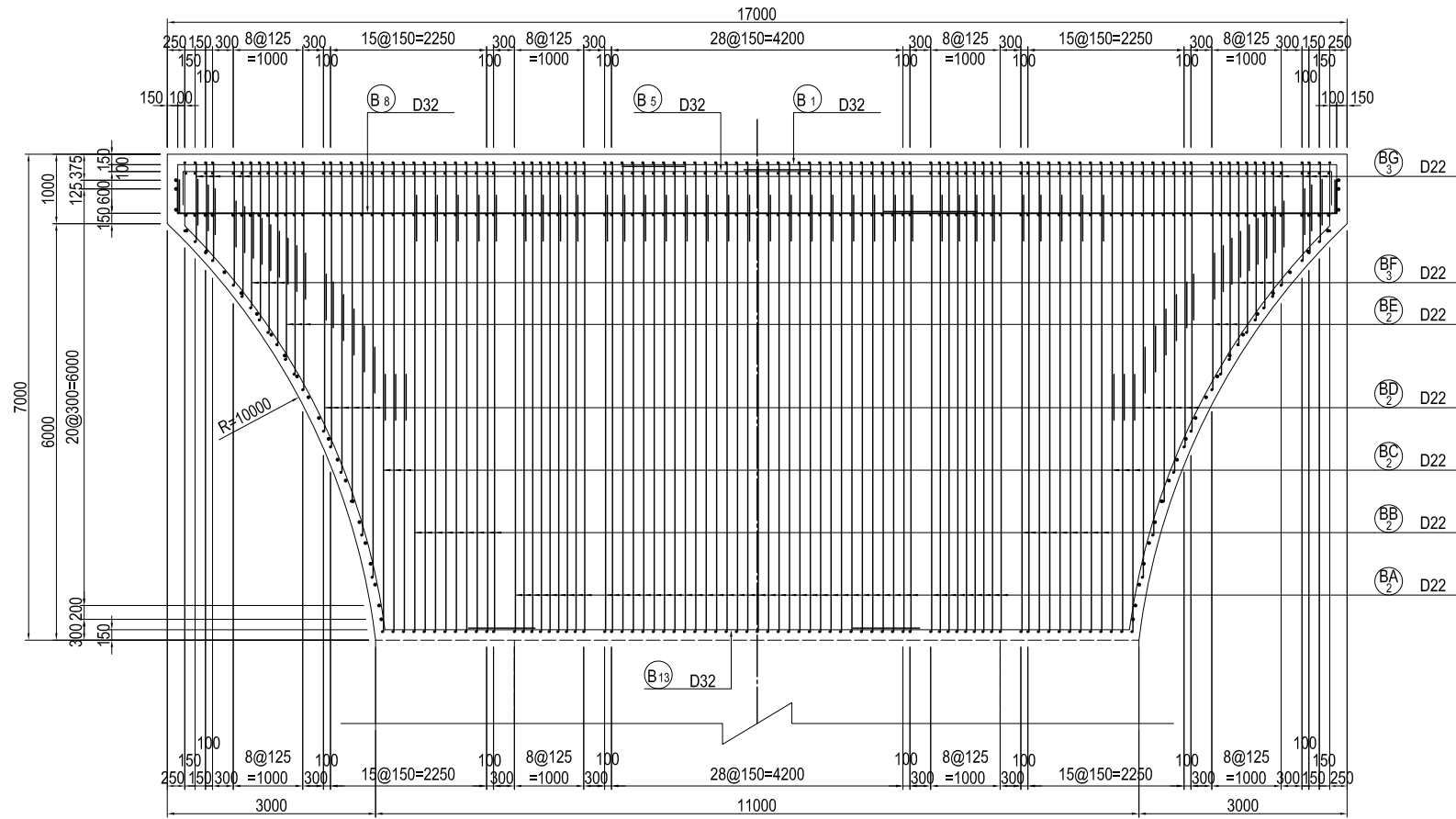
	CONCRETE	BAR
BEAM	σck = 30 N/mm ²	SD345

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 BAR ARRANGEMENT OF P17 PIER (1)	PACKAGE	
				PREPARED BY	S. IMADA			27 Nov.2017	2
				CHECKED BY	T. HAYAKAWA			28 Nov.2017	DWG No.
				APPROVED BY	Y. SANO			29 Nov.2017	P2-SB-2303

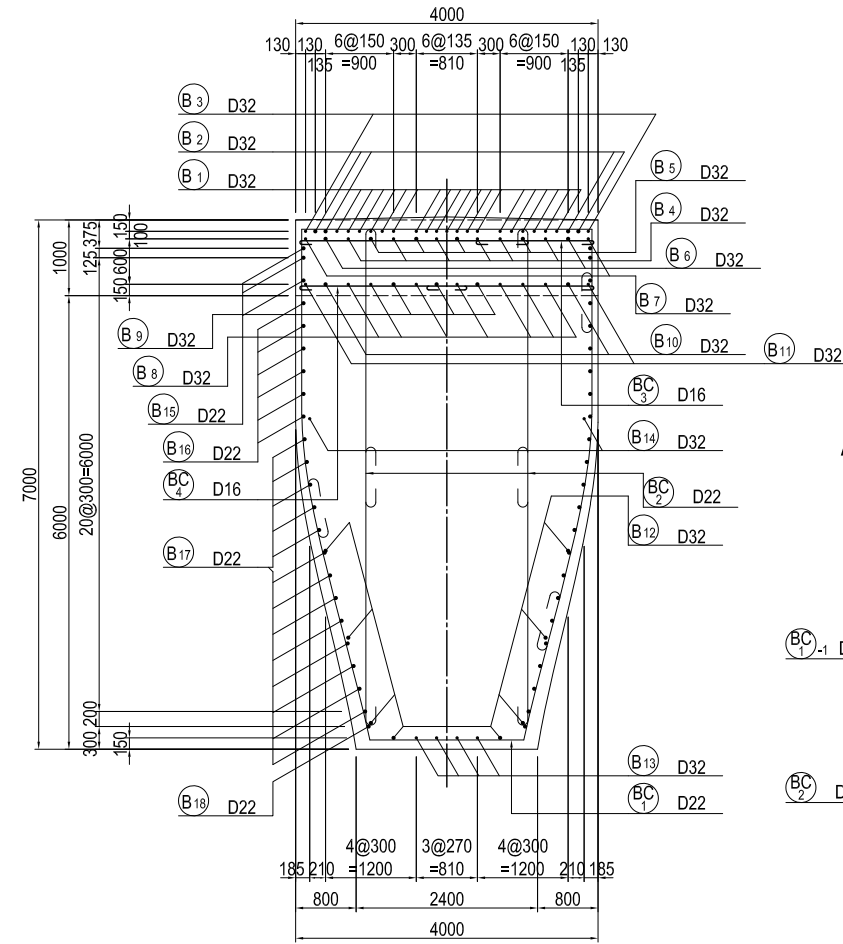
BAR ARRANGEMENT OF P17 PIER (2) S=1:100

BEAM

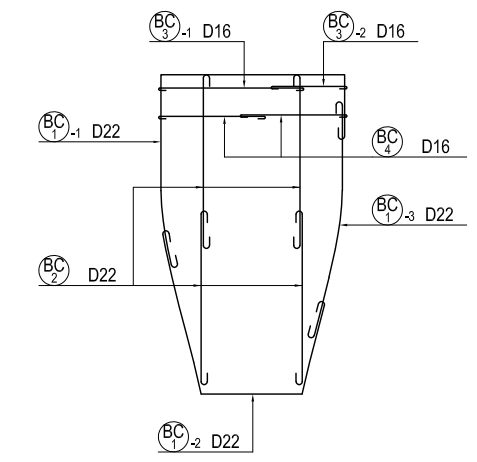
SECTION 4-4



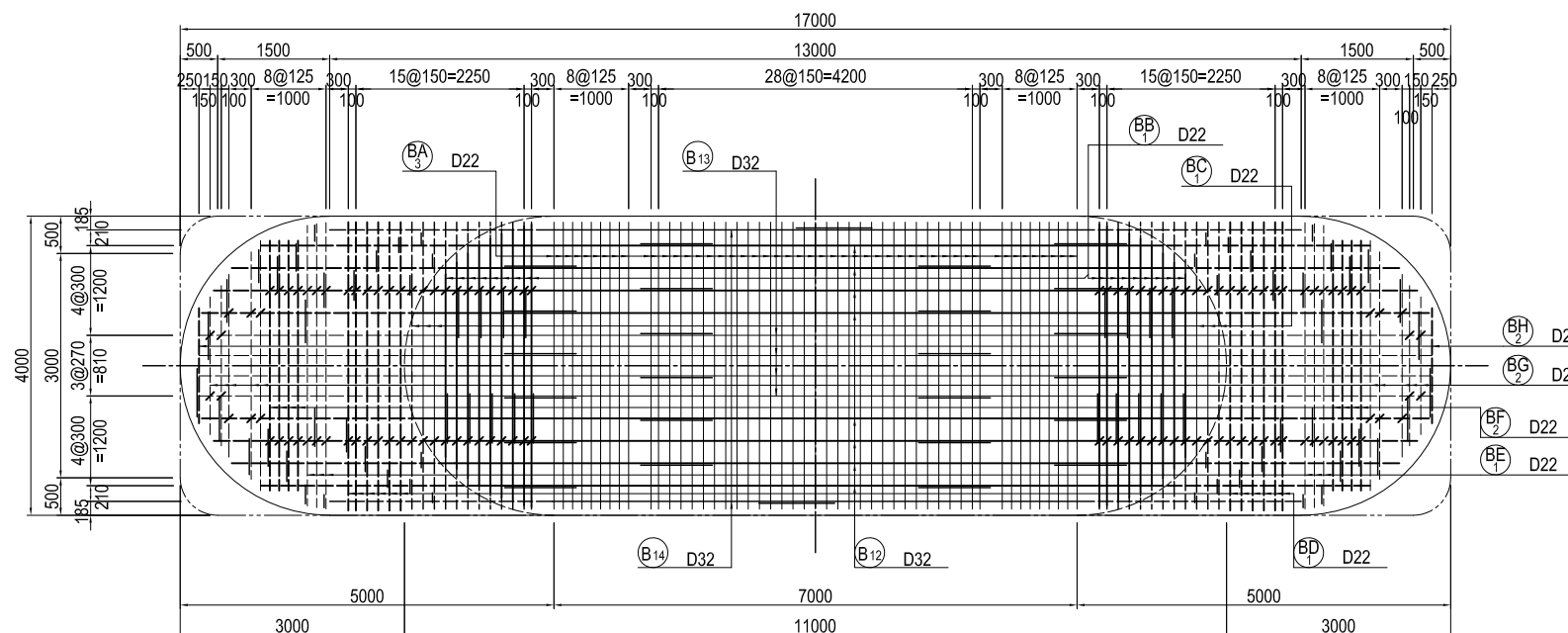
SECTION 7-7



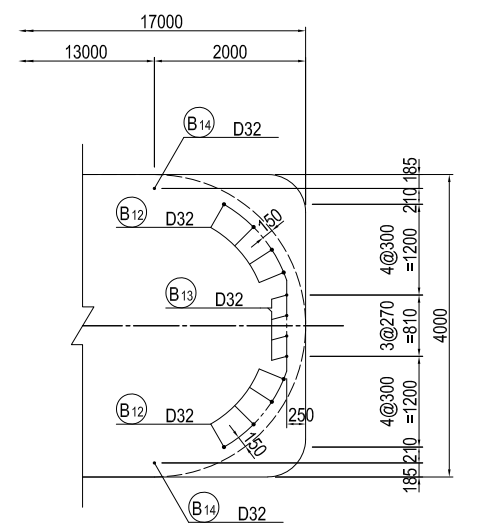
ASSEMBLY DRAWING OF STIRRUP



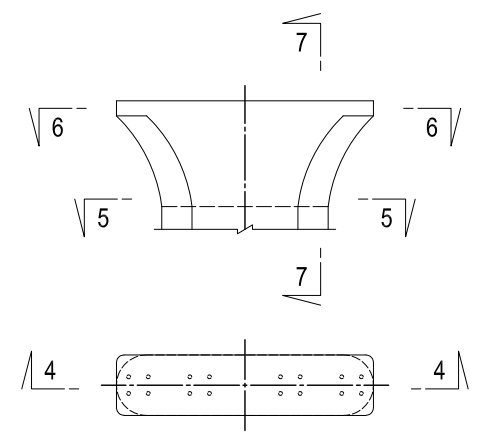
PLAN 5-5



PLAN 6-6



MARKING DIAGRAM



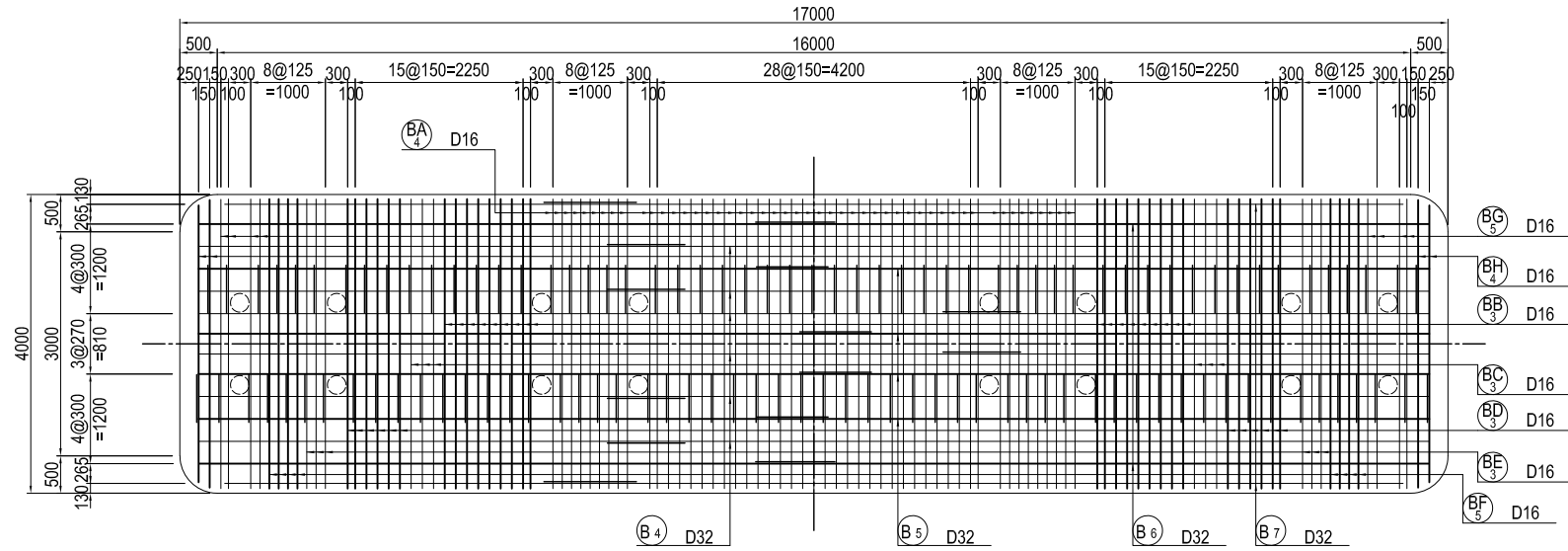
USE MATERIALS

	CONCRETE	BAR
BEAM	σck = 30 N/mm ²	SD345

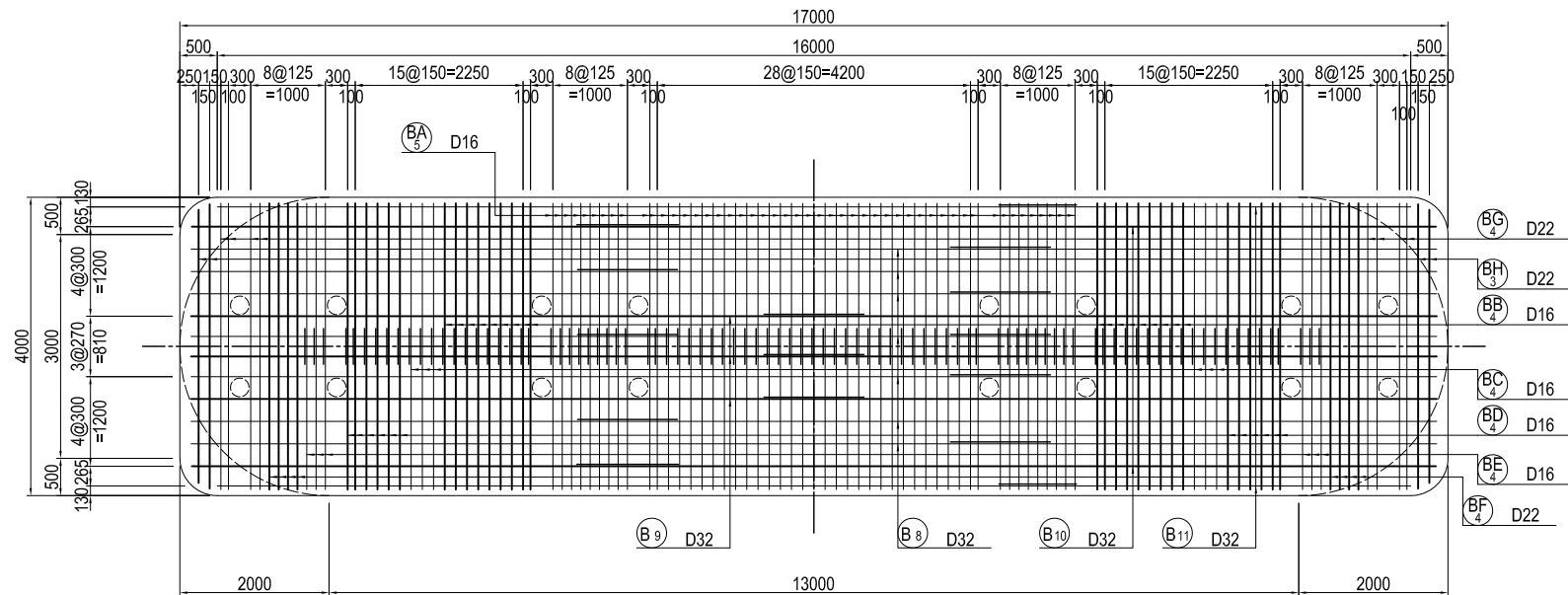
BAR ARRANGEMENT OF P17 PIER (3) S=1:100

BEAM

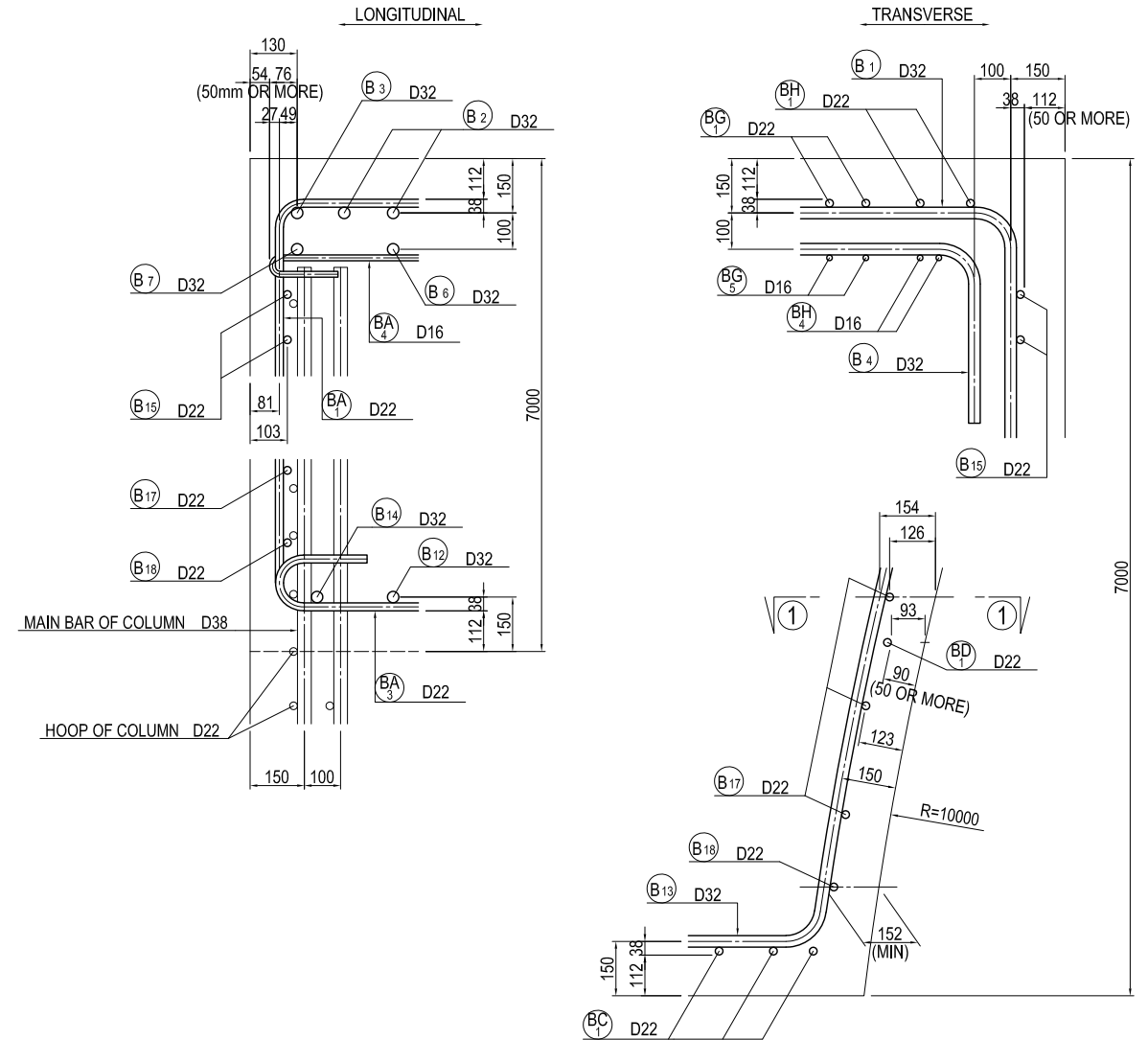
**PLAN
8-8**



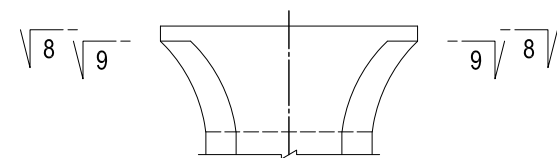
**PLAN
9-9**



DETAIL OF BEAM S=1:20



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM	σ _{ck} = 30 N/mm ²	SD345

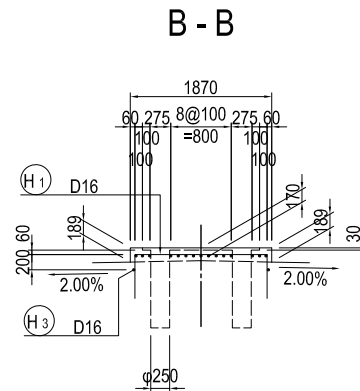
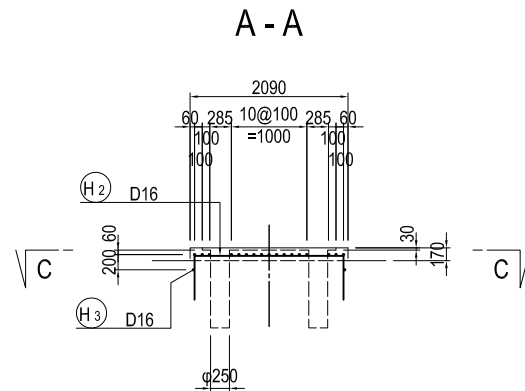
BAR ARRANGEMENT OF P17 PIER (4) S=1:100

BEAM

BAR ARRANGEMENT OF BEARING BASE

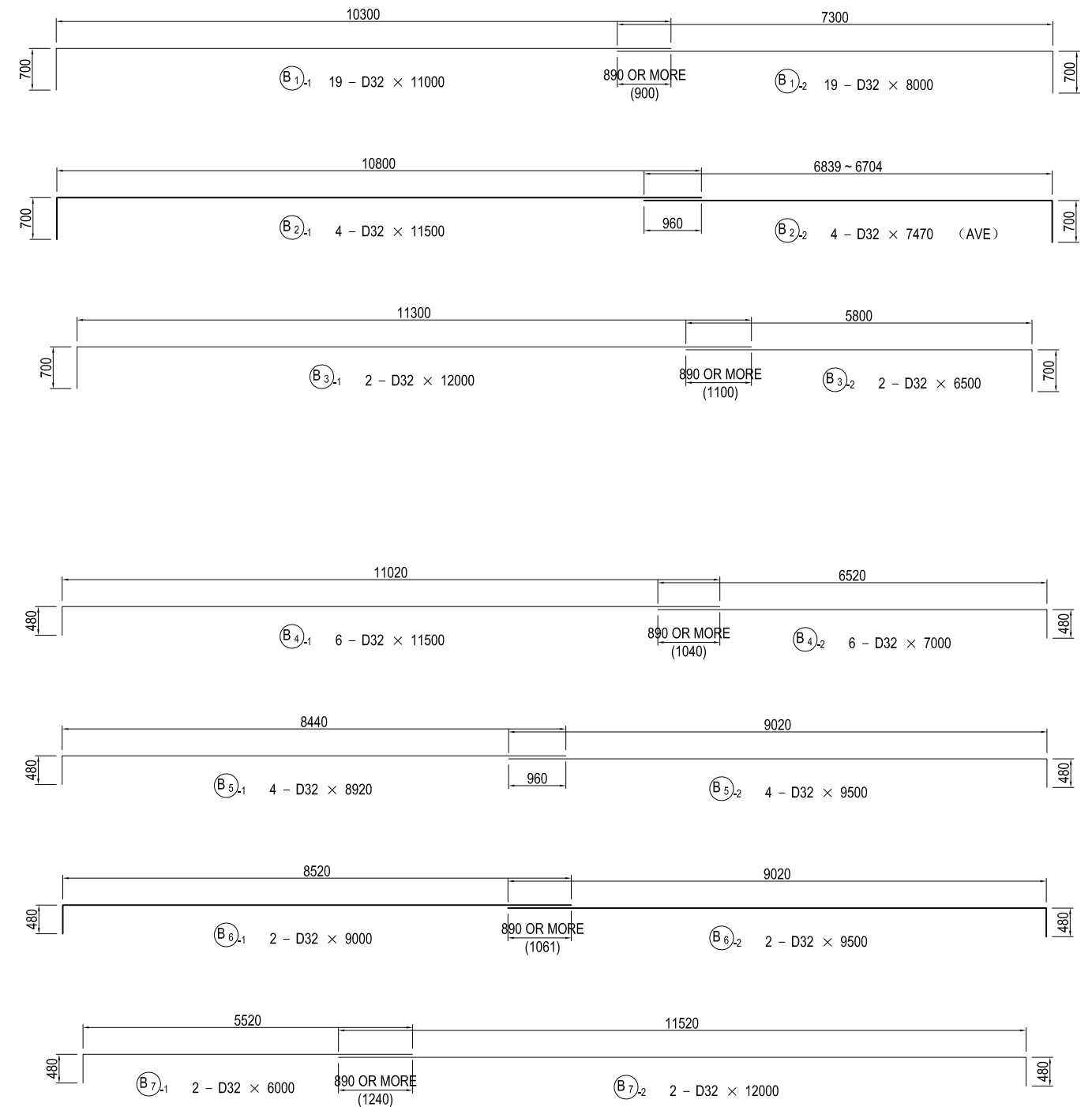
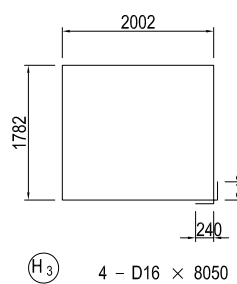
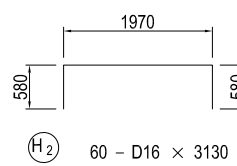
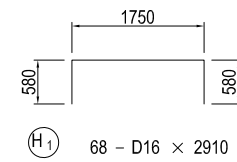
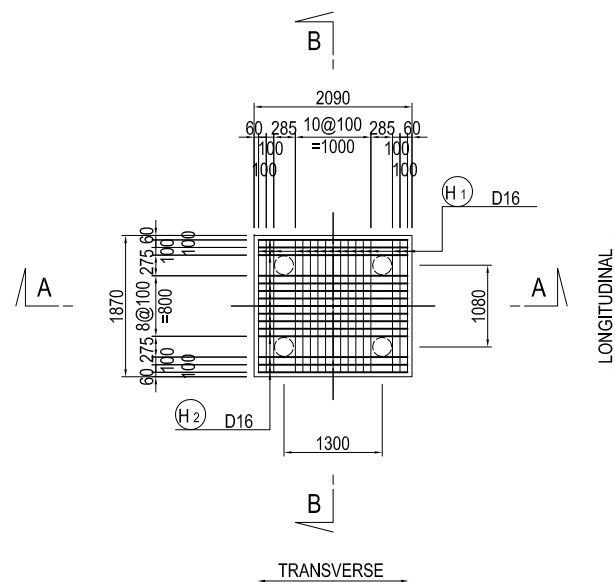
(N = 4)

SECTION



PLAN

C - C



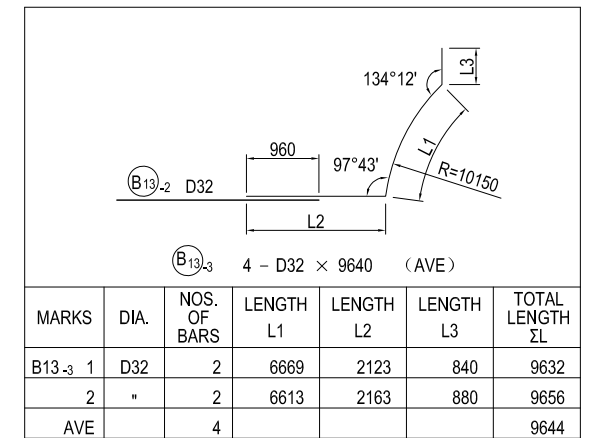
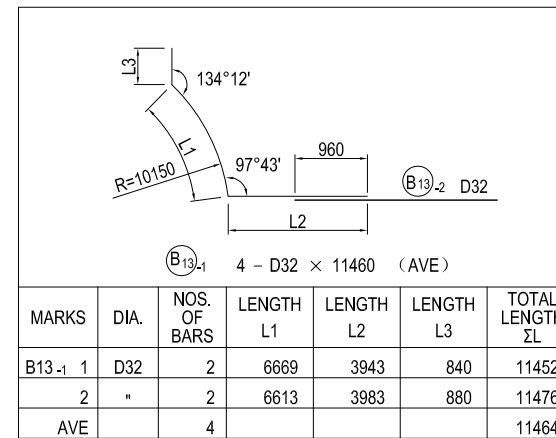
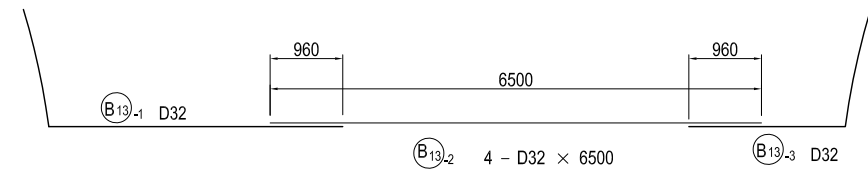
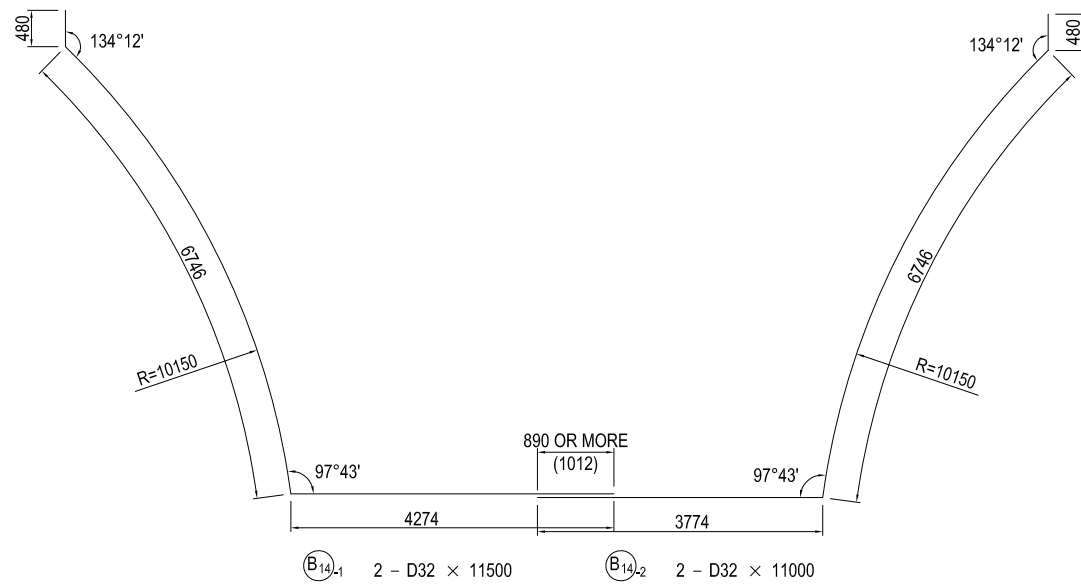
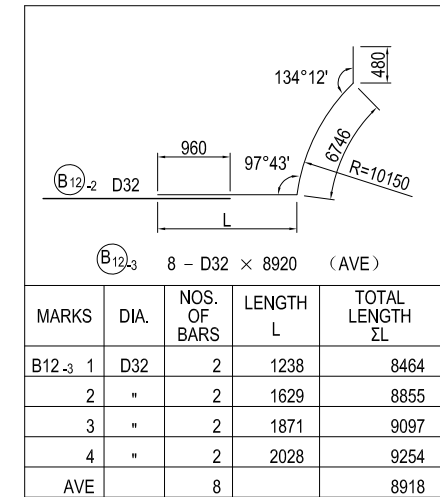
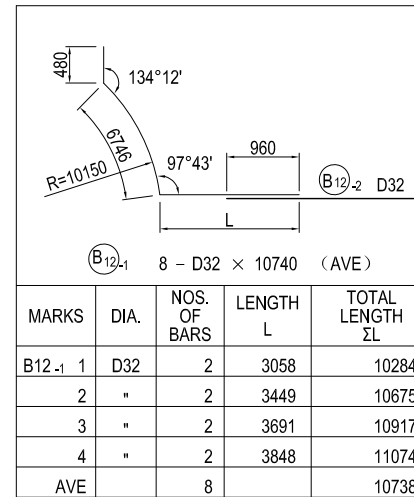
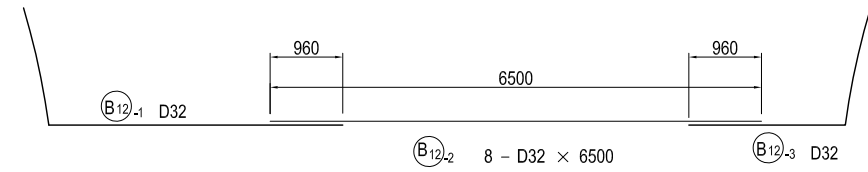
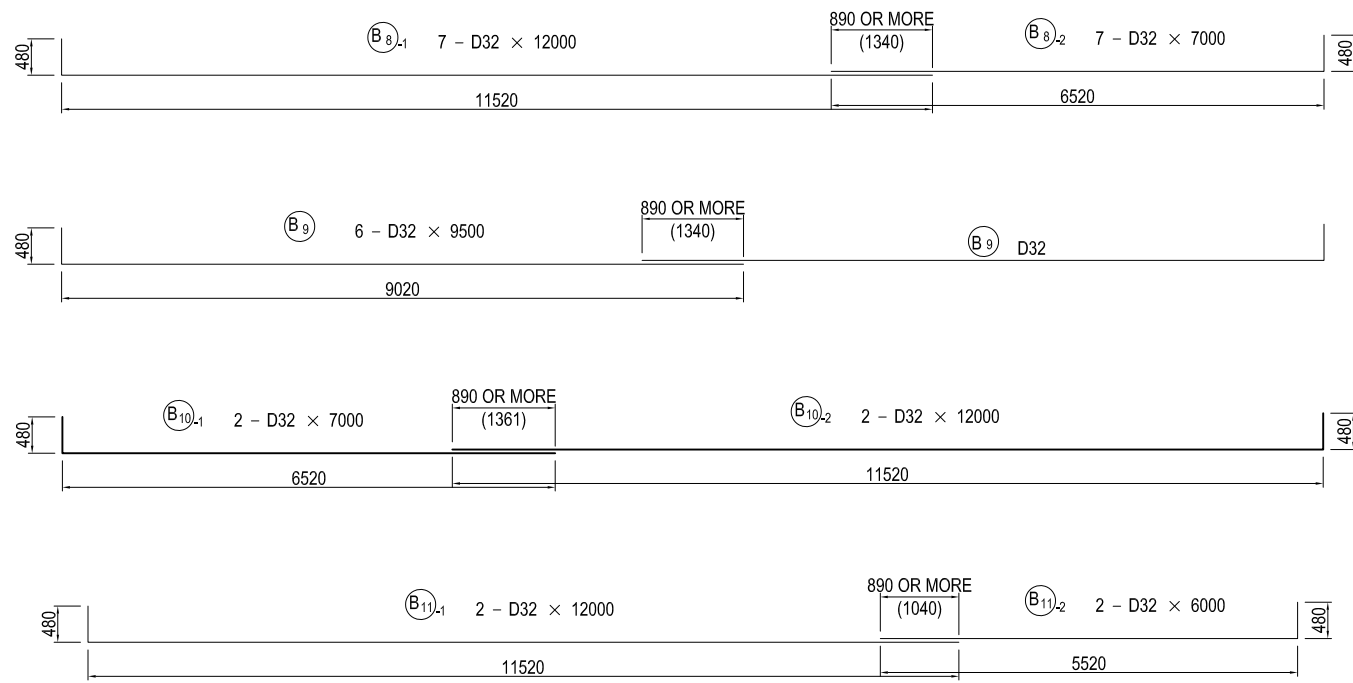
USE MATERIALS

	CONCRETE	BAR
BEAM	σ _{ck} = 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 S. IMADA T. HAYAKAWA Y. SANO	SIGNATURE 	DATE 27 Nov.2017 28 Nov.2017 29 Nov.2017	DRAWING TITLE BAR ARRANGEMENT OF P17 PIER (4)	PACKAGE 2 DWG No. P2-SB-2306
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BAR ARRANGEMENT OF P17 PIER (5) S=1:100

BEAM

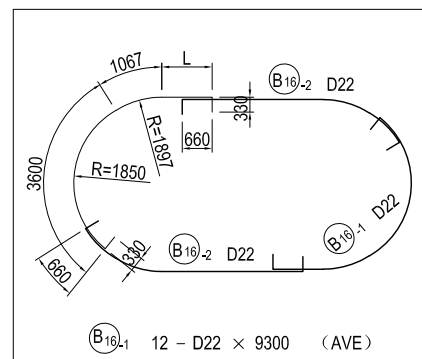
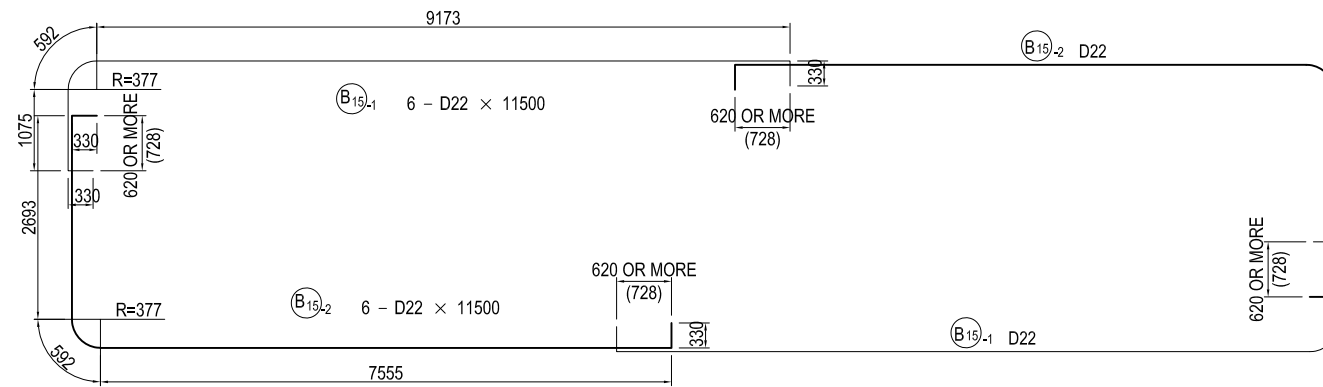


USE MATERIALS

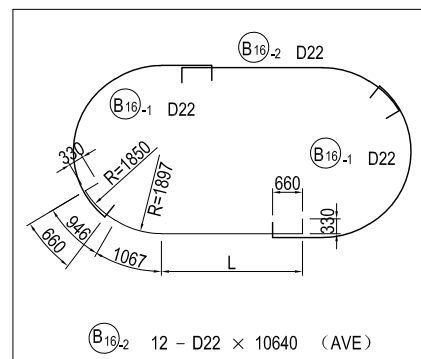
	CONCRETE	BAR
BEAM	σ _{ck} = 30 N/mm ²	SD345

BAR ARRANGEMENT OF P17 PIER (6) S=1:100

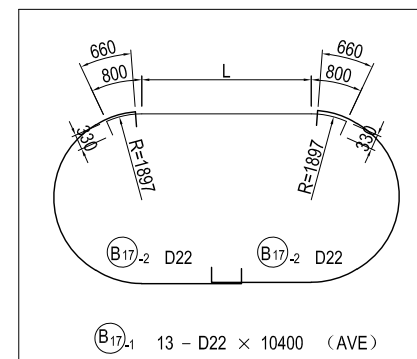
BEAM



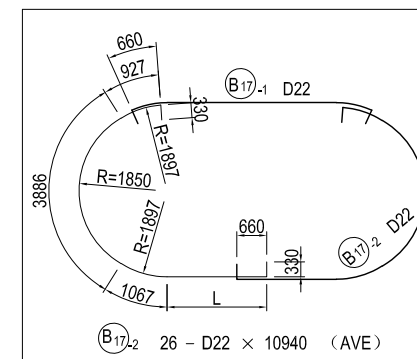
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-1 1	D22	2	4612	9939
2	"	2	4328	9655
3	"	2	4065	9392
4	"	2	3823	9150
5	"	2	3598	8925
6	"	2	3391	8718
AVE		12		9297



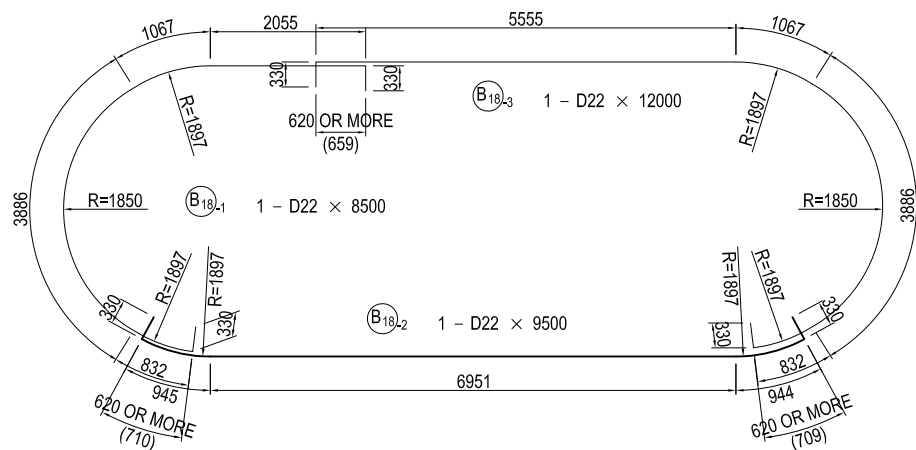
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-2 1	D22	2	8612	11285
2	"	2	8328	11001
3	"	2	8065	10738
4	"	2	7823	10496
5	"	2	7598	10271
6	"	2	7391	10064
AVE		12		10643



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



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	σ _{ck} = 30 N/mm ²	SD345

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
 JAPAN INTERNATIONAL
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MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

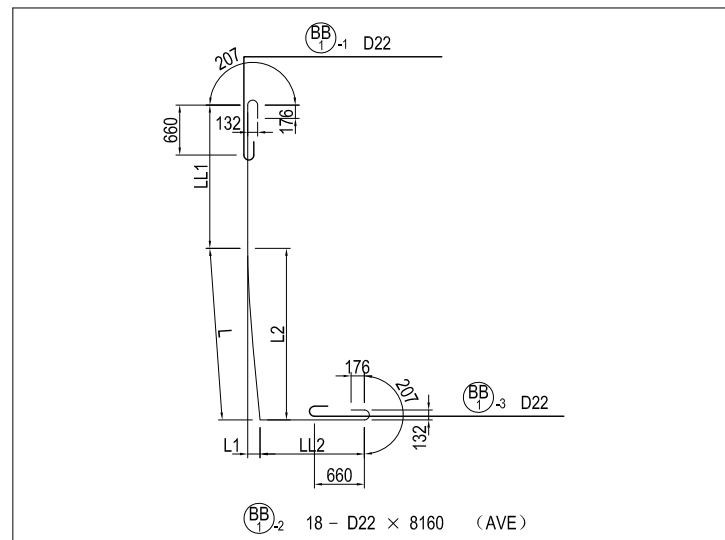
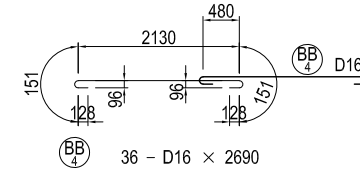
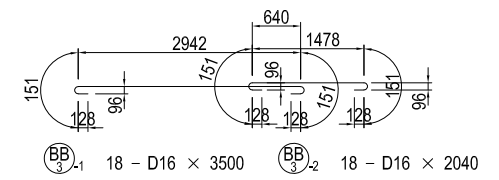
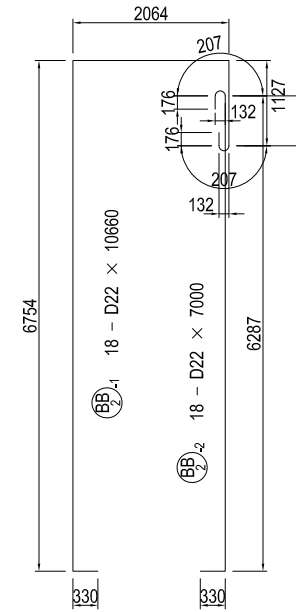
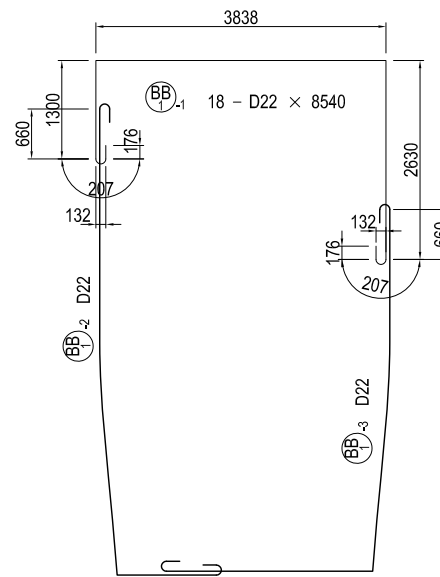
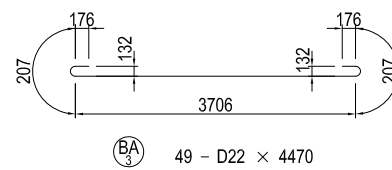
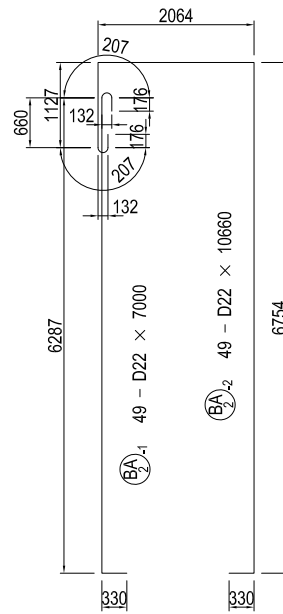
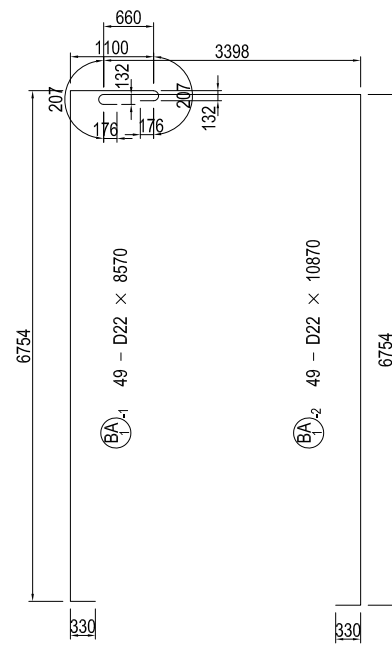
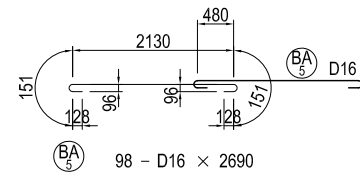
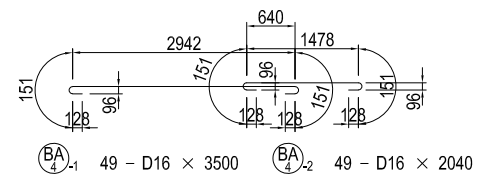
JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

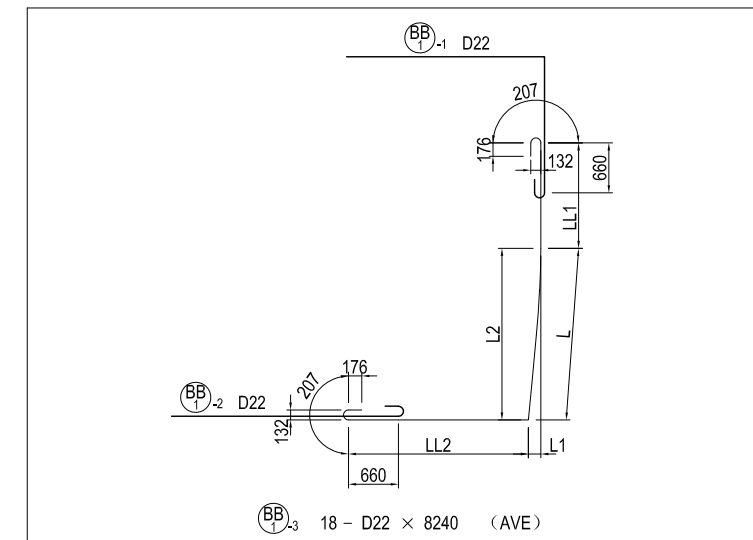
DRAWING TITLE
BAR ARRANGEMENT OF P17 PIER (6)

PACKAGE
2
DWG No.
P2-SB-2308

BAR ARRANGEMENT OF P17 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

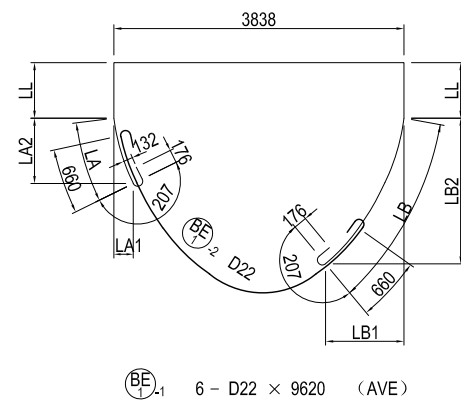
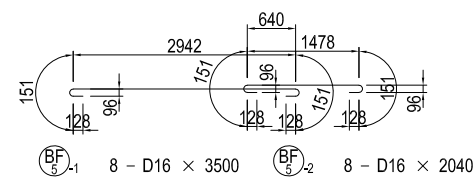
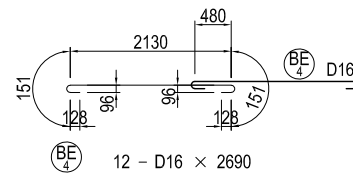
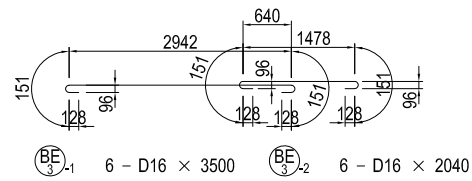
JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
 ORIENTAL CONSULTANTS GLOBAL CO., LTD.
 METROPOLITAN EXPRESSWAY COMPANY LIMITED
 CHODAI CO., LTD.
 NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

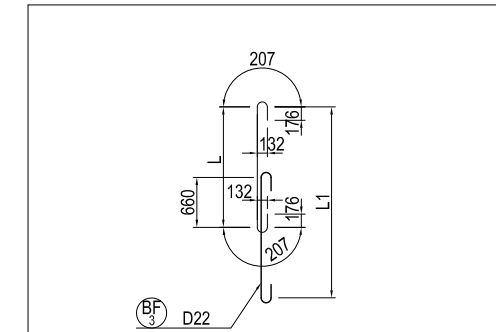
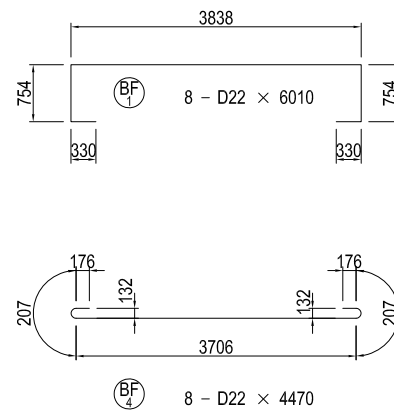
DRAWING TITLE
BAR ARRANGEMENT OF P17 PIER (7)

PACKAGE
2
DWG No.
P2-SB-2309

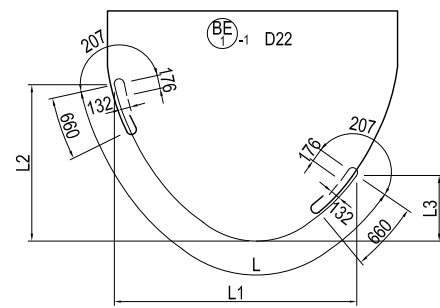
BAR ARRANGEMENT OF P17 PIER (9) S=1:100 BEAM



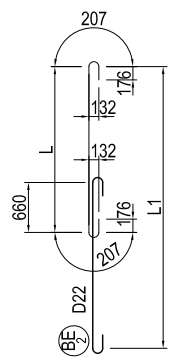
MARKS	DIA.	NOS. OF BARS	LENGTH LA	LENGTH LA1	LENGTH LA2	LENGTH LB	LENGTH LB1	LENGTH LB2	LENGTH LL	TOTAL LENGTH ΣL
BE1-1	D22	2	820	196	793	2475	1141	2129	818	9535
2	"	2	905	257	863	2624	1351	2154	736	9605
3	"	2	970	325	906	2780	1612	2117	679	9712
AVE		6								9617



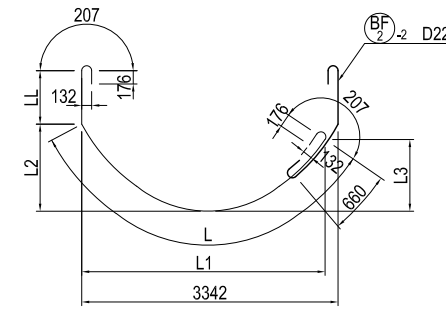
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BF3	D22	4	1335	2009	2101
2	"	4	1251	1841	2017
3	"	4	1170	1680	1936
4	"	4	1093	1526	1859
AVE		16			1978



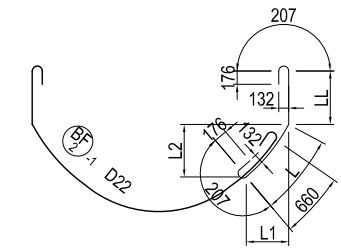
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	TOTAL LENGTH ΣL
BE1-2	D22	2	4693	3139	2292	792	5459
2	"	2	4230	2959	2069	569	4996
3	"	2	3755	2725	1858	358	4521
AVE		6					4992



MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BE2	D22	8	1611	2561	2377
2	"	8	1514	2368	2280
3	"	8	1423	2185	2189
AVE		24			2282



MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH L3	LENGTH LL	TOTAL LENGTH ΣL
BF1-1	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



MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL	TOTAL LENGTH ΣL
BF1-2	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	σ _{ck} = 30 N/mm ²	SD345

PROJECT NAME
DETAILED DESIGN ON
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CONSTRUCTION PROJECT

FINANCED BY
JICA
JAPAN INTERNATIONAL
COOPERATION AGENCY

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

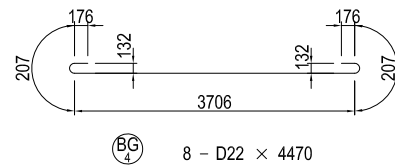
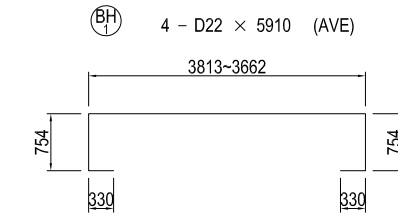
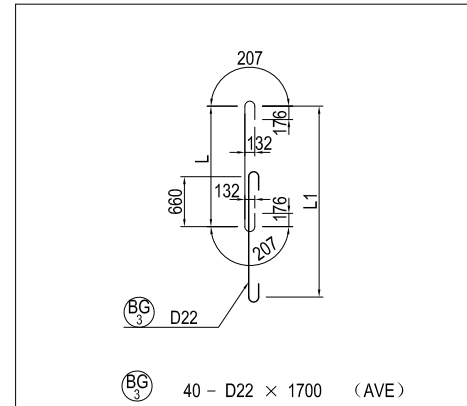
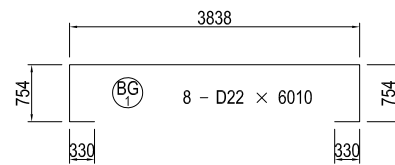
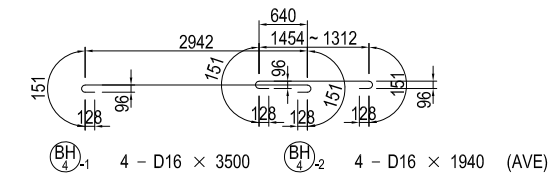
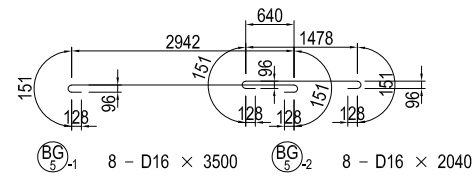
JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA	<i>S. Imada</i>	27 Nov.2017
CHECKED BY	T. HAYAKAWA	<i>T. Hayakawa</i>	28 Nov.2017
APPROVED BY	Y. SANO	<i>Y. Sano</i>	29 Nov.2017

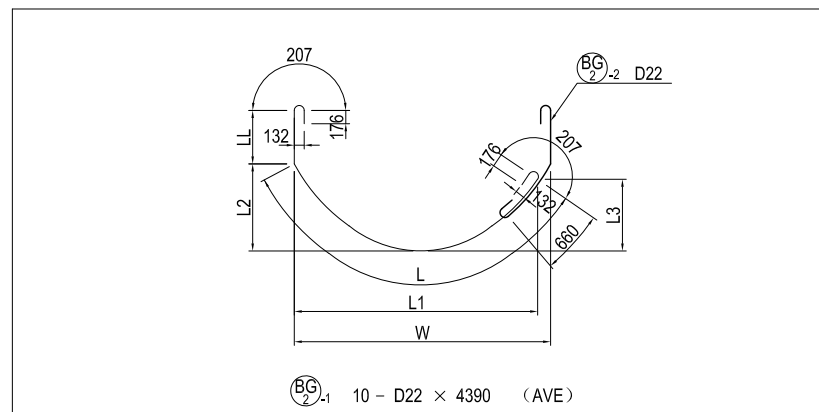
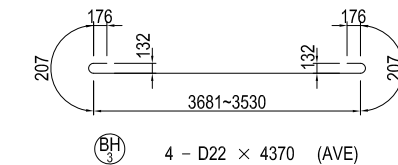
DRAWING TITLE
BAR ARRANGEMENT OF P17 PIER (9)

PACKAGE
2
DWG No.
P2-SB-2311

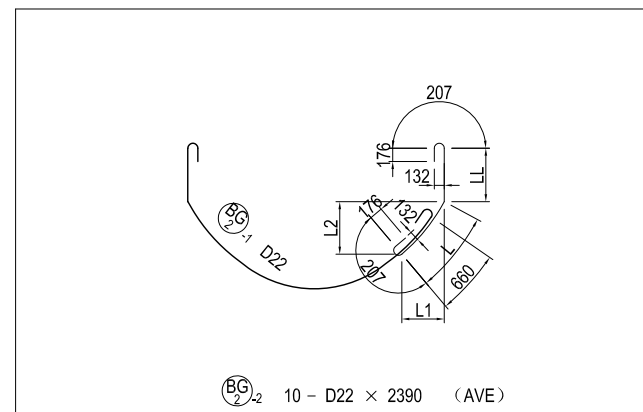
BAR ARRANGEMENT OF P17 PIER (10) S=1:100 BEAM



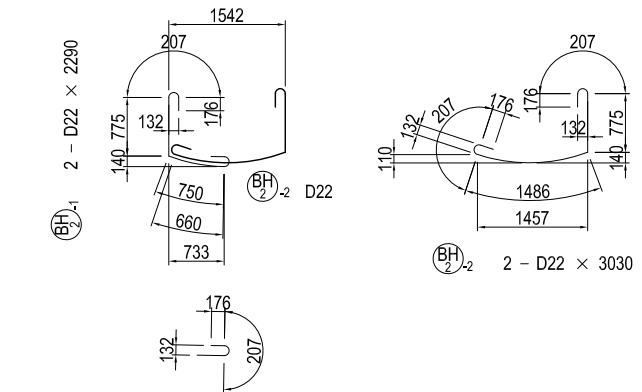
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BG3 1	D22	8	1113	1565	1879
2	"	8	1038	1415	1804
3	"	8	869	1077	1635
4	"	8	866	1071	1632
5	"	8	787	914	1553
AVE		40			1701



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



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



USE MATERIALS

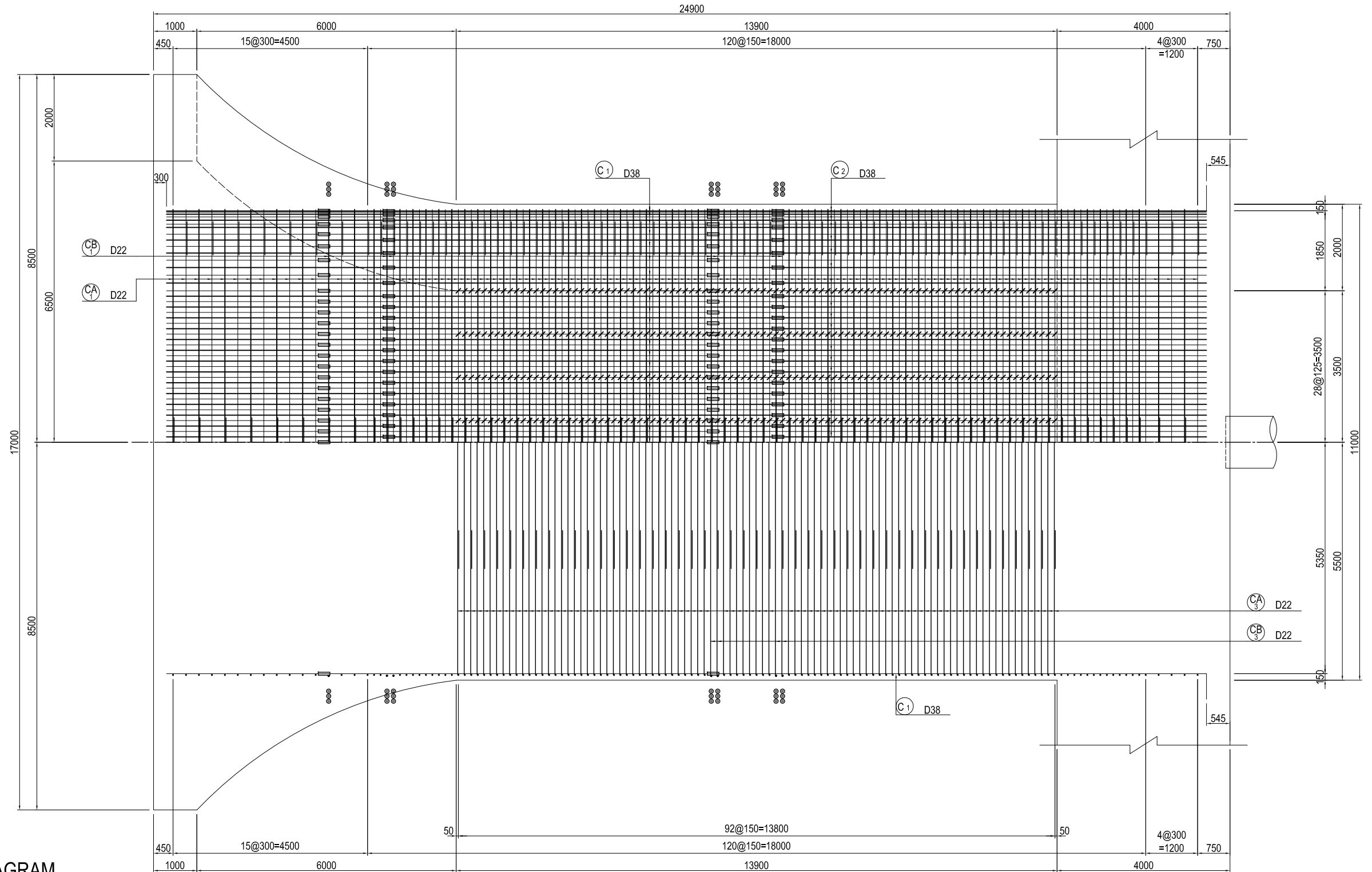
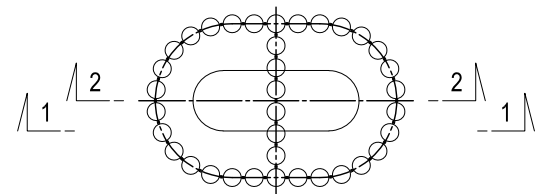
	CONCRETE	BAR
BEAM	σ _{ck} = 30 N/mm ²	SD345

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

COLUMN	CONCRETE $\sigma_{ck} = 30 \text{ N/mm}^2$	BAR	
		MAIN BAR	OTHERS
		SD390	SD345

PROJECT NAME
DETAILED DESIGN ON
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CONSTRUCTION PROJECT

FINANCED BY
 JAPAN INTERNATIONAL
COOPERATION AGENCY

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

JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
 ORIENTAL CONSULTANTS GLOBAL CO., LTD.
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 CHODAI CO., LTD.
 NIPPON ENGINEERING CONSULTANTS CO., LTD.

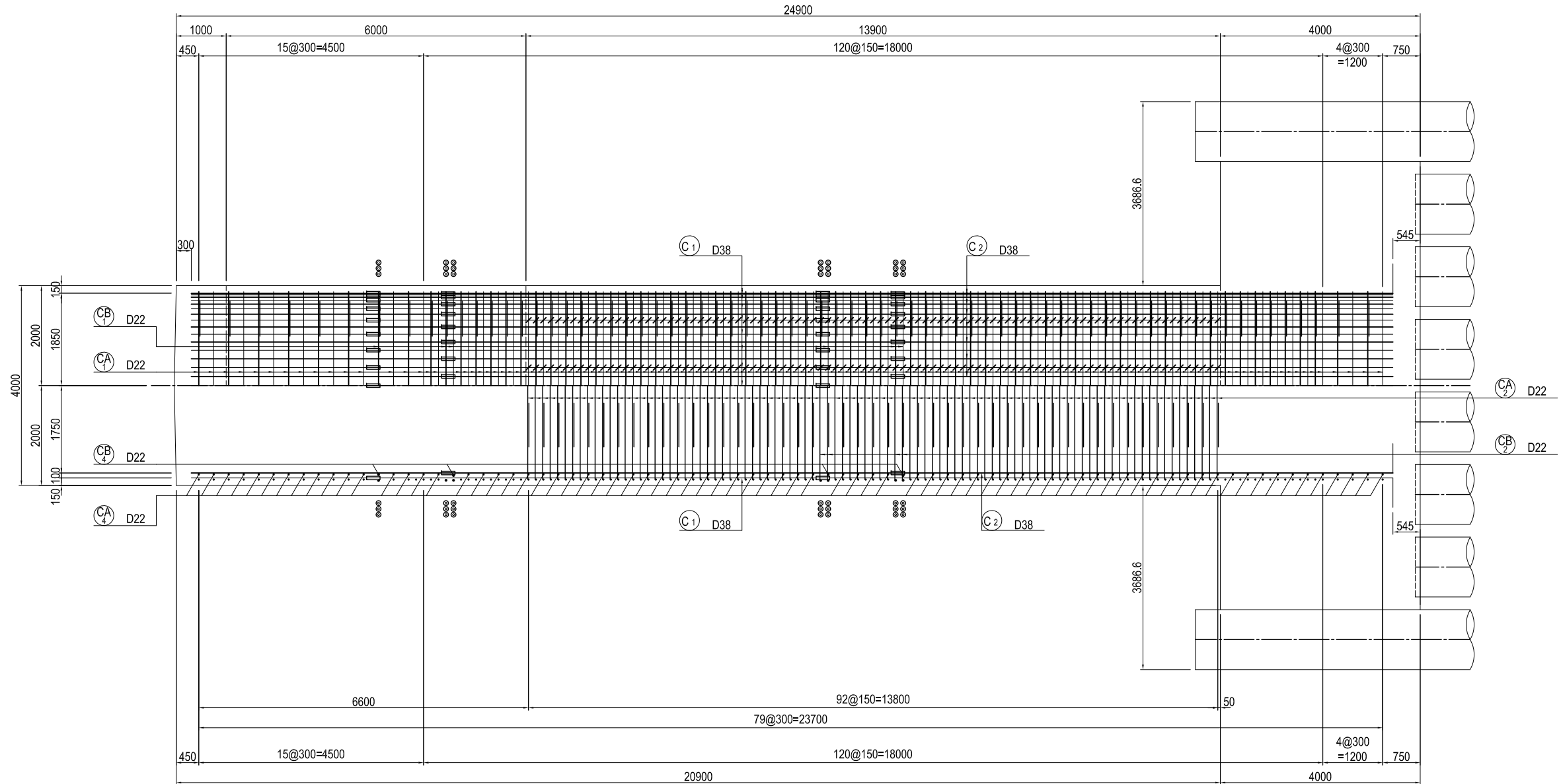
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

DRAWING TITLE
BAR ARRANGEMENT OF P17 PIER (11)

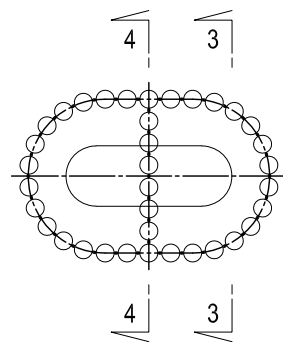
PACKAGE
2
DWG No.
P2-SB-2313

BAR ARRANGEMENT OF P17 PIER (12) S=1:100 COLUMN

SECTION SIDE ELEVATION
3-3
4-4



MARKING DIAGRAM



Notes) 1. : This mark indicates hoop arranged in the location of mechanical joint.
2. : This mark indicates a mechanical joint.

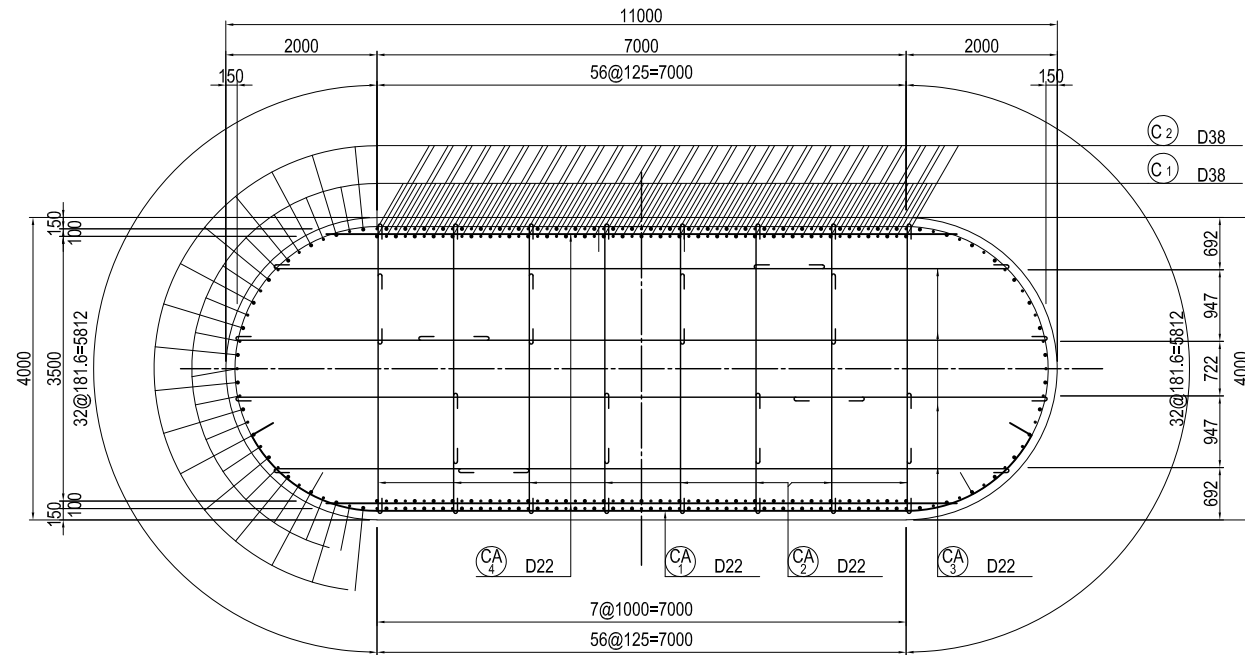
USE MATERIALS

COLUMN	CONCRETE $\sigma_{ck} = 30 \text{ N/mm}^2$	BAR	
		MAIN BAR	OTHERS
		SD390	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 BAR ARRANGEMENT OF P17 PIER (12)	PACKAGE	
				PREPARED BY	S. IMADA			27 Nov.2017	2
				CHECKED BY	T. HAYAKAWA			28 Nov.2017	DWG No.
				APPROVED BY	Y. SANO			29 Nov.2017	P2-SB-2314

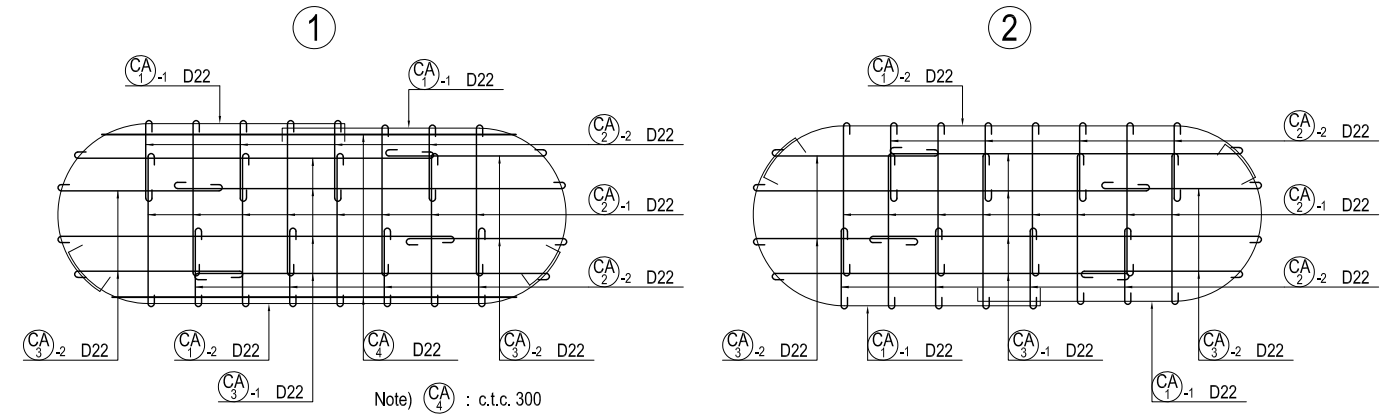
BAR ARRANGEMENT OF P17 PIER (13) S=1:100 COLUMN

**PLAN
5-5**

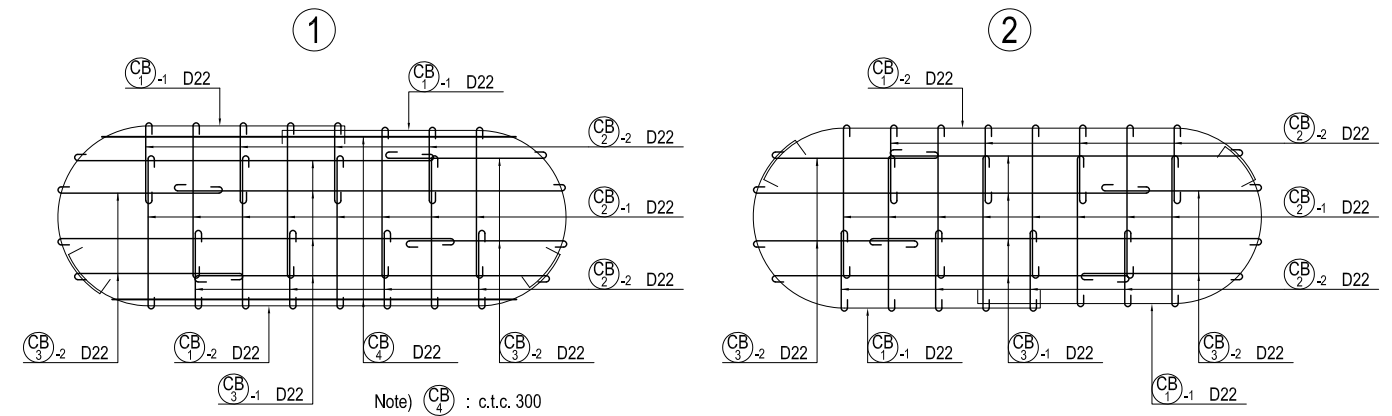


**ASSEMBLY DRAWING OF HOOP
(c.t.c. 150)**

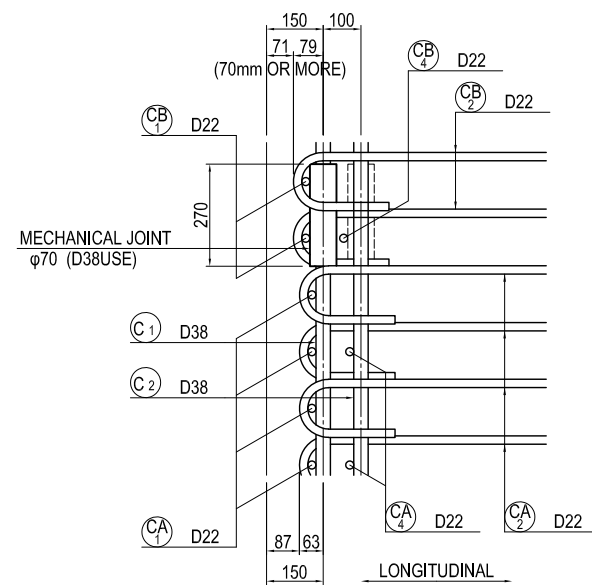
【STANDARD PART】



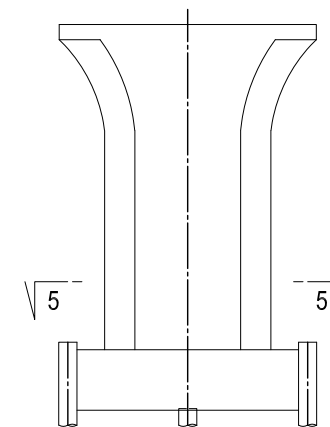
【MECHANICAL JOINT PART】



DETAIL OF COLUMN S=1:20



MARKING DIAGRAM

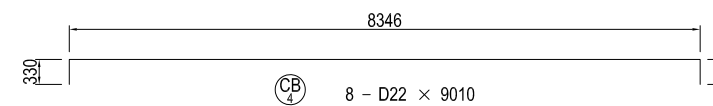
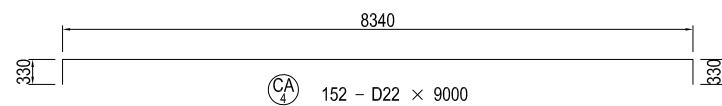
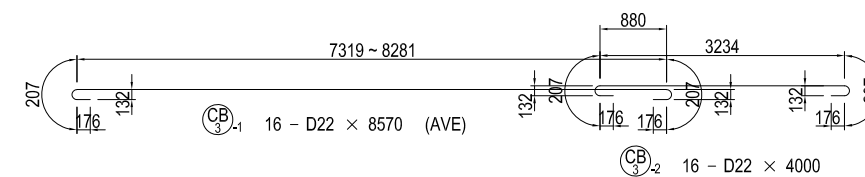
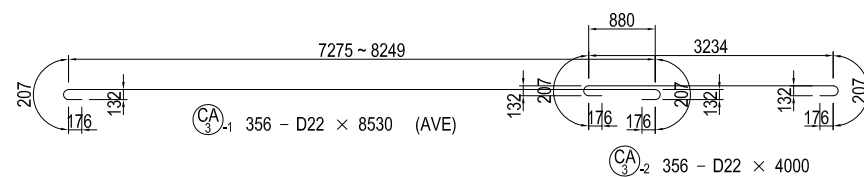
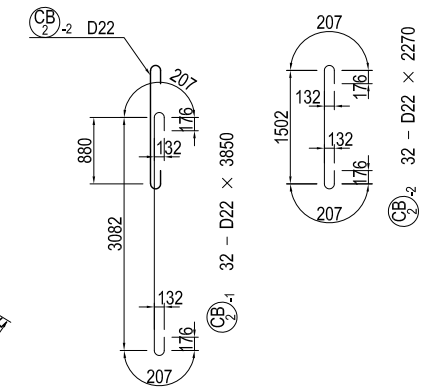
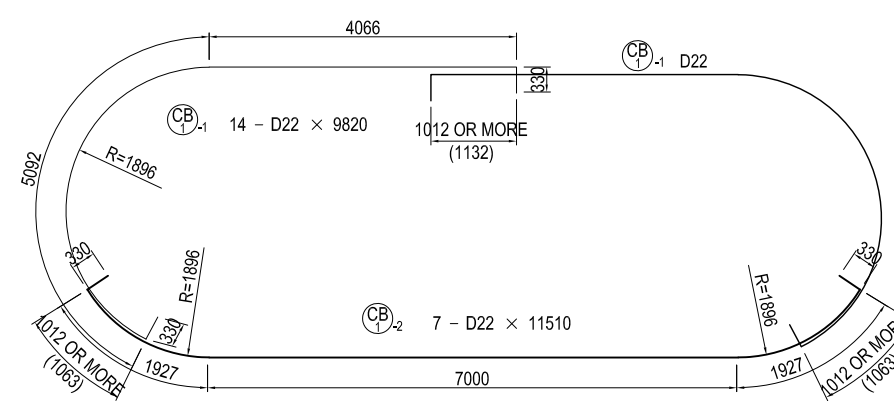
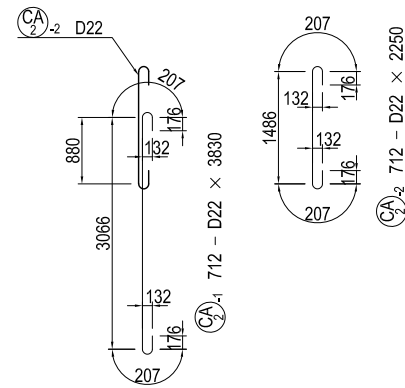
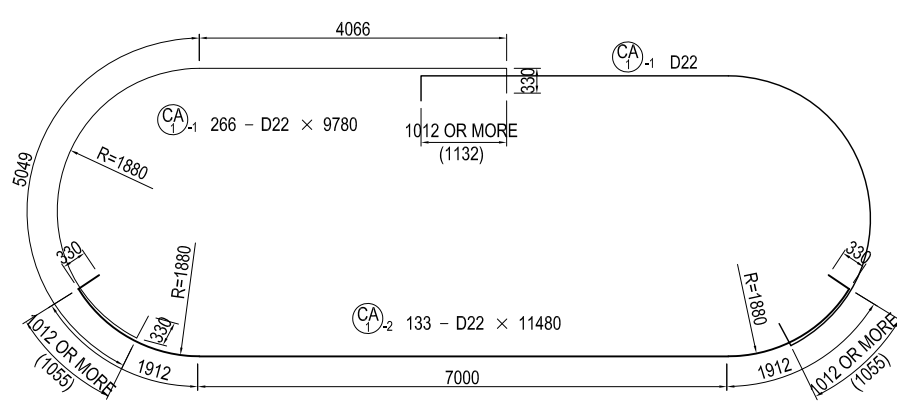
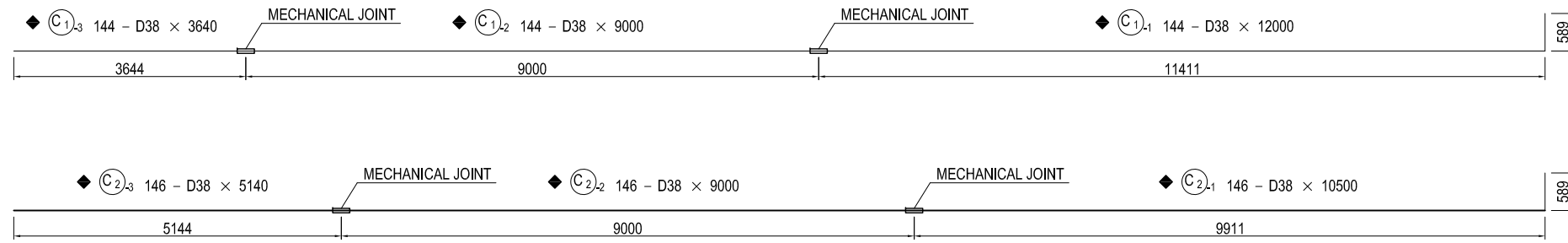


USE MATERIALS

COLUMN	CONCRETE σ _{ck} = 30 N/mm ²	BAR	
		MAIN BAR	OTHERS
		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 BAR ARRANGEMENT OF P17 PIER (13)	PACKAGE 2 DWG No. P2-SB-2315	
				PREPARED BY	S. IMADA				27 Nov.2017
				CHECKED BY	T. HAYAKAWA				28 Nov.2017
				APPROVED BY	Y. SANO				29 Nov.2017

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

COLUMN	CONCRETE σ _{ck} = 30 N/mm ²	BAR	
		MAIN BAR	OTHERS
		SD390	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 BAR ARRANGEMENT OF P17 PIER (14)	PACKAGE 2 DWG No. P2-SB-2316	
				PREPARED BY	S. IMADA				27 Nov.2017
				CHECKED BY	T. HAYAKAWA				28 Nov.2017
				APPROVED BY	Y. SANO				29 Nov.2017

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	144	8.95	107.40	15466	┌ (144)
1-2	"	9000	144	"	80.55	11599	└ (144)
1-3	"	3640	144	"	32.58	4692	—
2-1	"	10500	146	"	93.98	13721	┌ (146)
2-2	"	9000	146	"	80.55	11760	└ (146)
2-3	"	5140	146	"	46.00	6716	—
SUBTOTAL						63954 kg	
(MECHANICAL JOINT)							
SD390				D38	63954 kg	(580)	
TOTAL						63954 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	24	"	12.04	289	└ (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						817 kg	
BD 1-1	D22	9420	12	3.04	28.64	344	┌ (AVE)
1-2	"	8250	12	"	25.08	301	└ (AVE)
2	"	2980	48	"	9.06	435	└ (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						1285 kg	
BE 1-1	D22	9620	6	3.04	29.24	175	┌ (AVE)
1-2	"	4990	6	"	15.17	91	└ (AVE)
2	"	2280	24	"	6.93	166	└ (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						534 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	40	"	5.17	207	└ (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						738 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	9780	266	3.04	29.73	7908	┌
1-2	"	11480	133	"	34.90	4642	└
2-1	"	3830	712	"	11.64	8288	└
2-2	"	2250	712	"	6.84	4870	└
3-1	"	8530	356	"	25.93	9231	└ (AVE)
3-2	"	4000	356	"	12.16	4329	└
4	"	9000	152	"	27.36	4159	└
SUBTOTAL						43427 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	60167		
				D16	2375		
TOTAL						71018 kg	

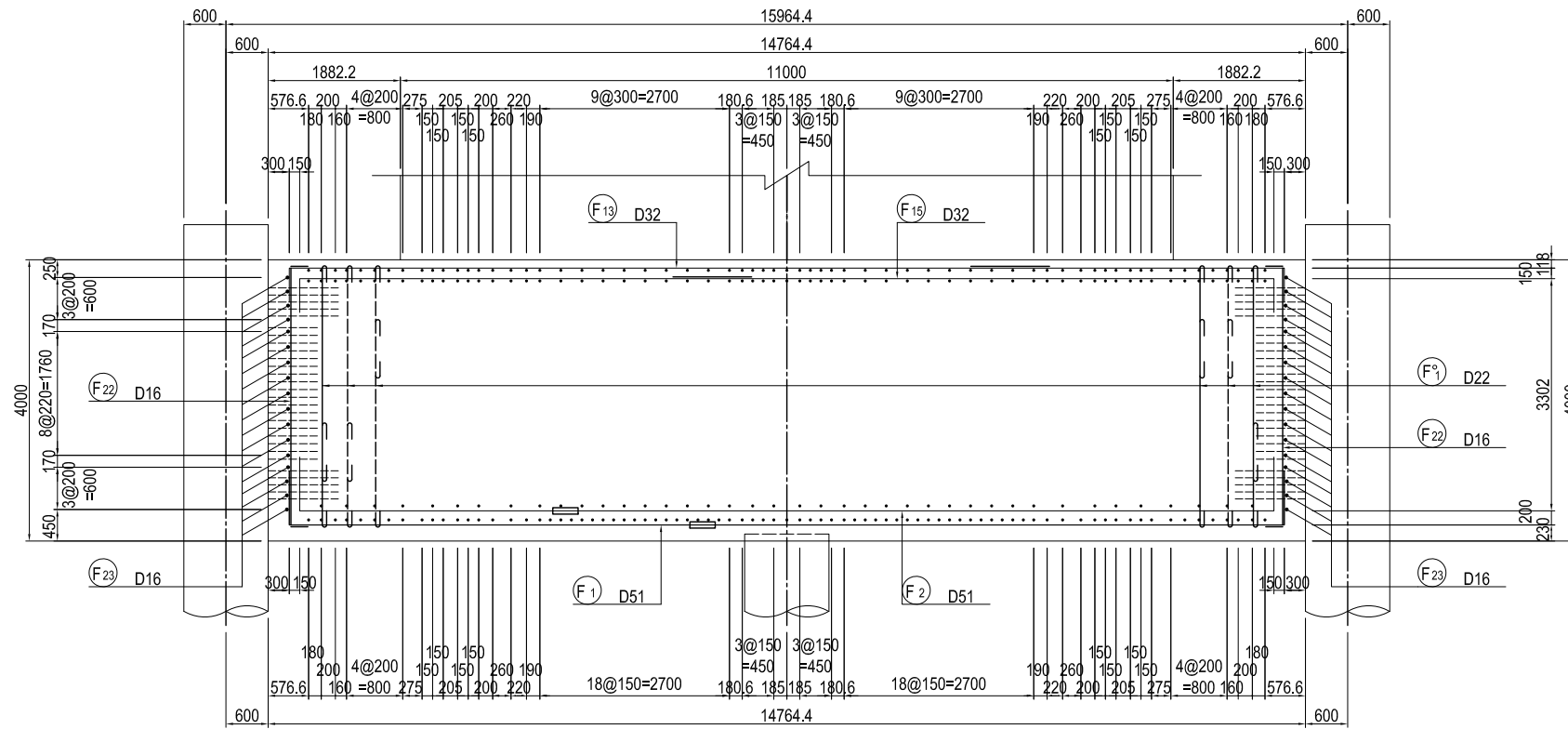
USE MATERIALS

COLUMN	CONCRETE σck = 30 N/mm ²	BAR	
		MAIN BAR	OTHERS
		SD390	SD345

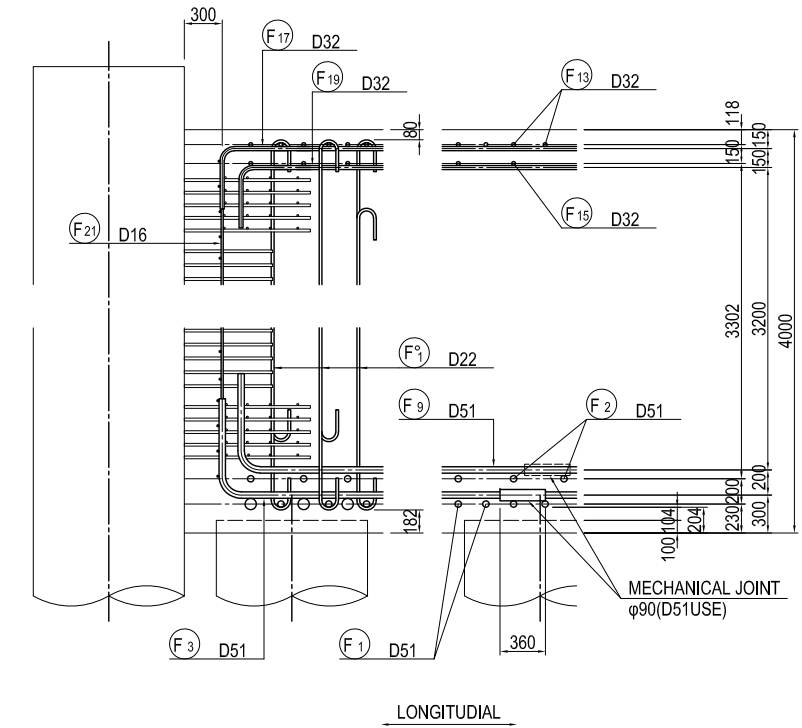
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE BAR ARRANGEMENT OF P17 PIER (15)	PACKAGE 2 DWG No. P2-SB-2317
				PREPARED BY	S. IMADA	27 Nov.2017		
				CHECKED BY	T. HAYAKAWA	28 Nov.2017		
				APPROVED BY	Y. SANO	29 Nov.2017		

BAR ARRANGEMENT OF P17 FOOTING (1) S=1:100

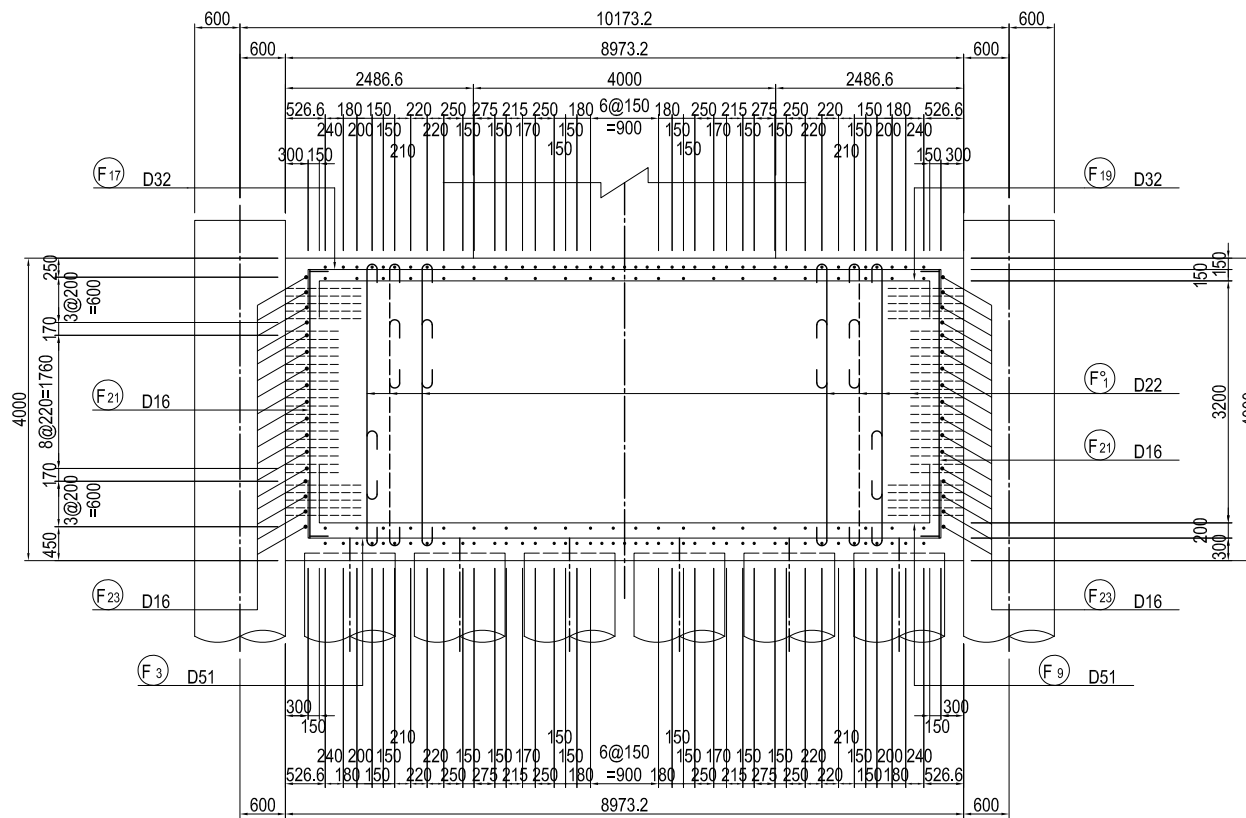
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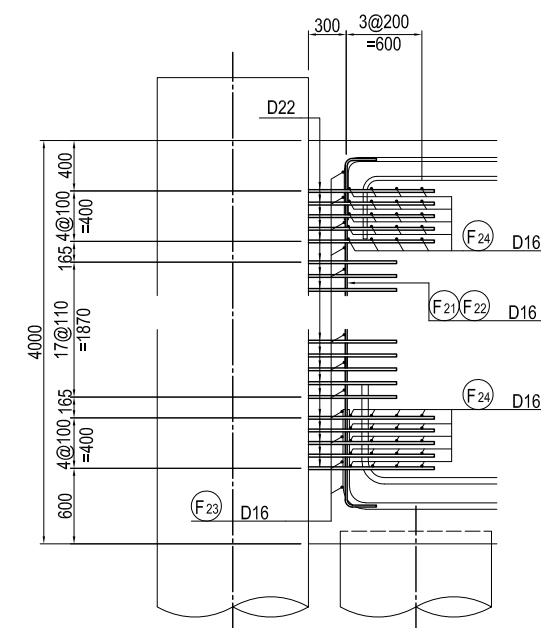
DETAIL OF PILE CAP S=1:60



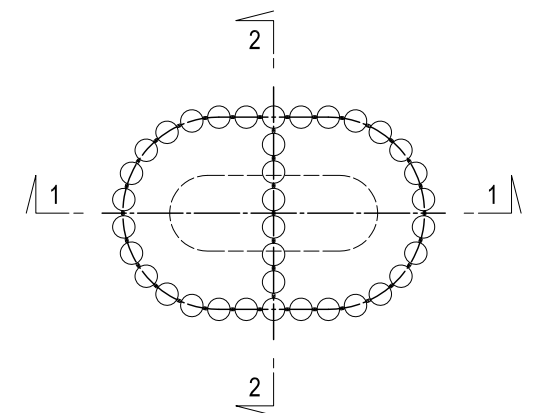
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


DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:60



MARKING DIAGRAM



Note)  : MECHANICAL JOINT

USE MATERIALS

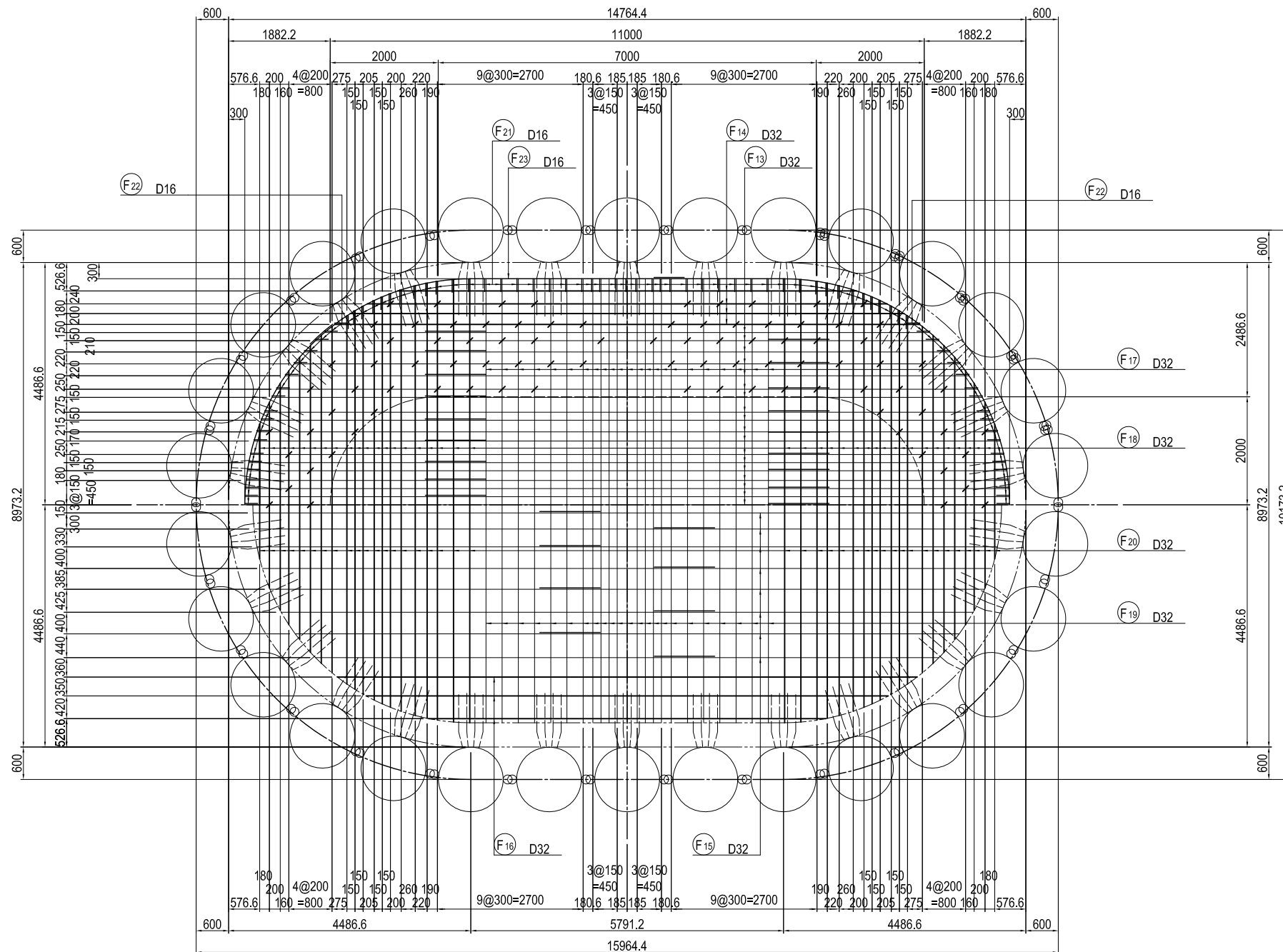
	CONCRETE	BAR
FOOTING	σ _{ck} = 24 N/mm ²	SD345

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 PREPARED BY S. IMADA CHECKED BY T. HAYAKAWA APPROVED BY Y. SANO	SIGNATURE   	DATE 27 Nov.2017 28 Nov.2017 29 Nov.2017	DRAWING TITLE BAR ARRANGEMENT OF P17 FOOTING (1)	PACKAGE 2 DWG No. P2-SB-2318
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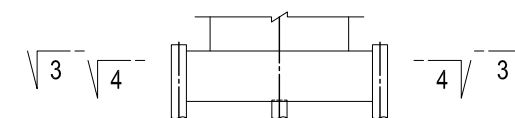
BAR ARRANGEMENT OF P17 FOOTING (2) S=1:100

PLAN
3-3

PLAN
4-4



MARKING DIAGRAM



USE MATERIALS

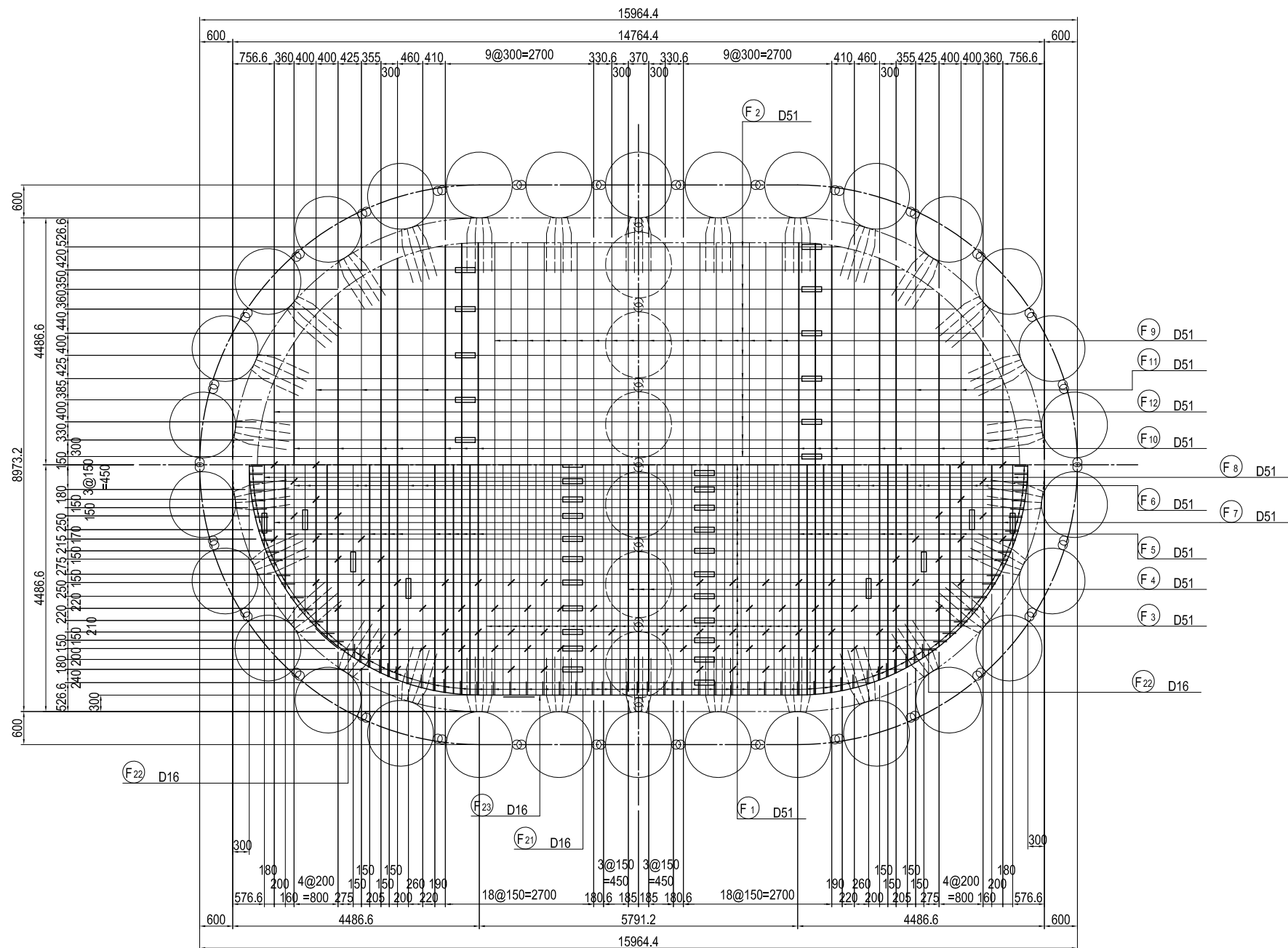
	CONCRETE	BAR
FOOTING	$\sigma_{ck} = 24 \text{ N/mm}^2$	SD345

<small>PROJECT NAME</small> DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	<small>FINANCED BY</small> JAPAN INTERNATIONAL COOPERATION AGENCY	<small>COUNTERPART</small> REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	<small>JICA STUDY TEAM</small> NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY</td> <td>S. IMADA</td> <td></td> <td>27 Nov.2017</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td></td> <td>28 Nov.2017</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td></td> <td>29 Nov.2017</td> </tr> </tbody> </table>		NAME	SIGNATURE	DATE	PREPARED BY	S. IMADA		27 Nov.2017	CHECKED BY	T. HAYAKAWA		28 Nov.2017	APPROVED BY	Y. SANO		29 Nov.2017	<small>DRAWING TITLE</small> BAR ARRANGEMENT OF P17 FOOTING (2)	<small>PACKAGE</small> 2 DWG No. P2-SB-2319
	NAME	SIGNATURE	DATE																			
PREPARED BY	S. IMADA		27 Nov.2017																			
CHECKED BY	T. HAYAKAWA		28 Nov.2017																			
APPROVED BY	Y. SANO		29 Nov.2017																			

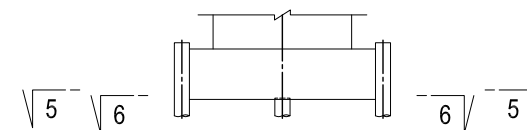
BAR ARRANGEMENT OF P17 FOOTING (3) S=1:100

PLAN
5-5

PLAN
6-6



MARKING DIAGRAM



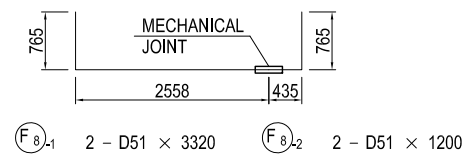
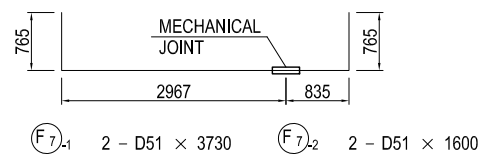
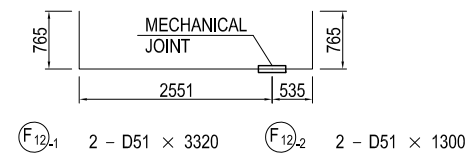
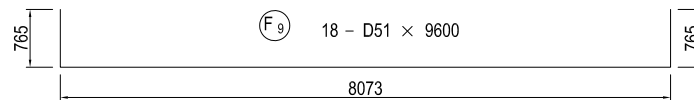
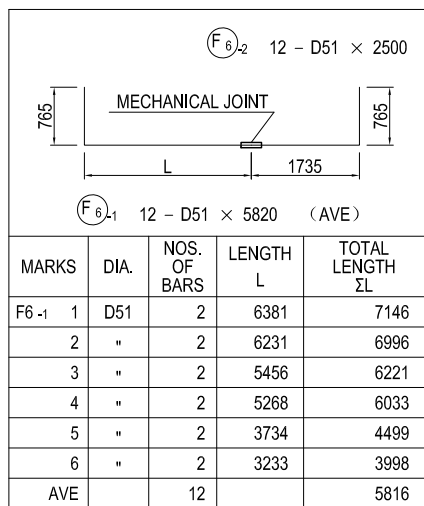
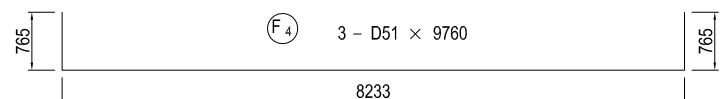
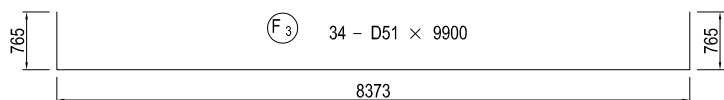
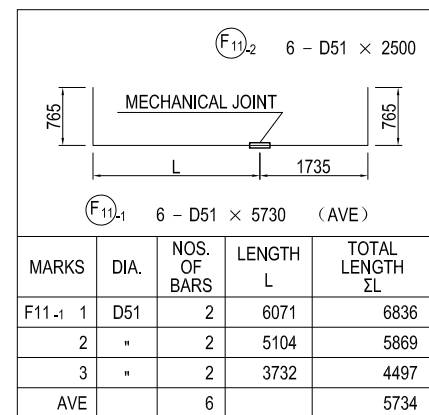
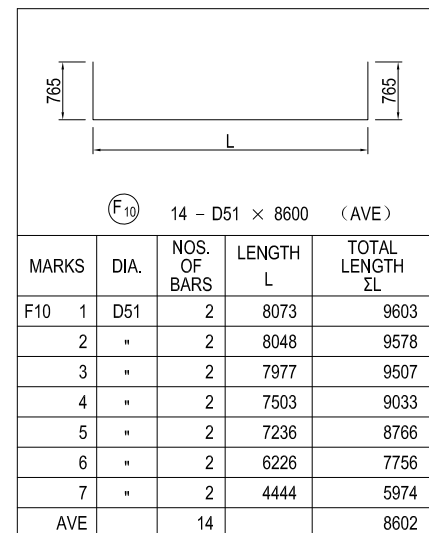
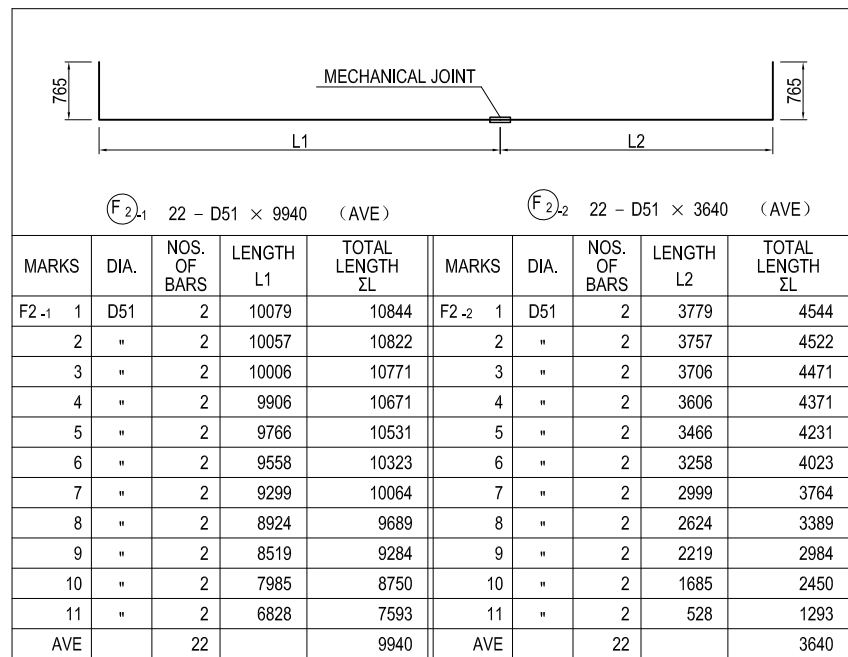
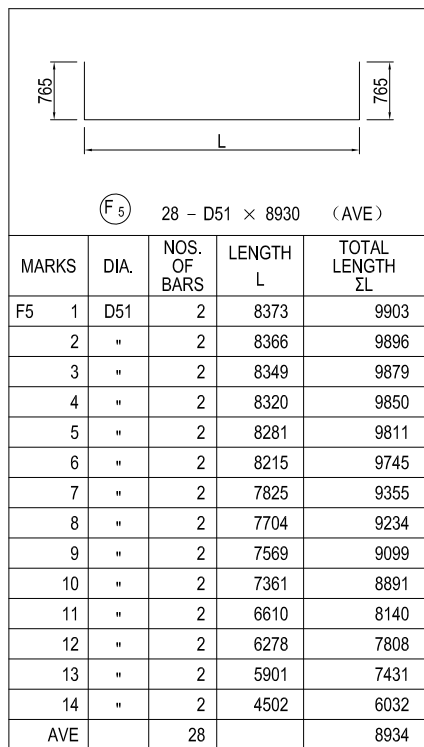
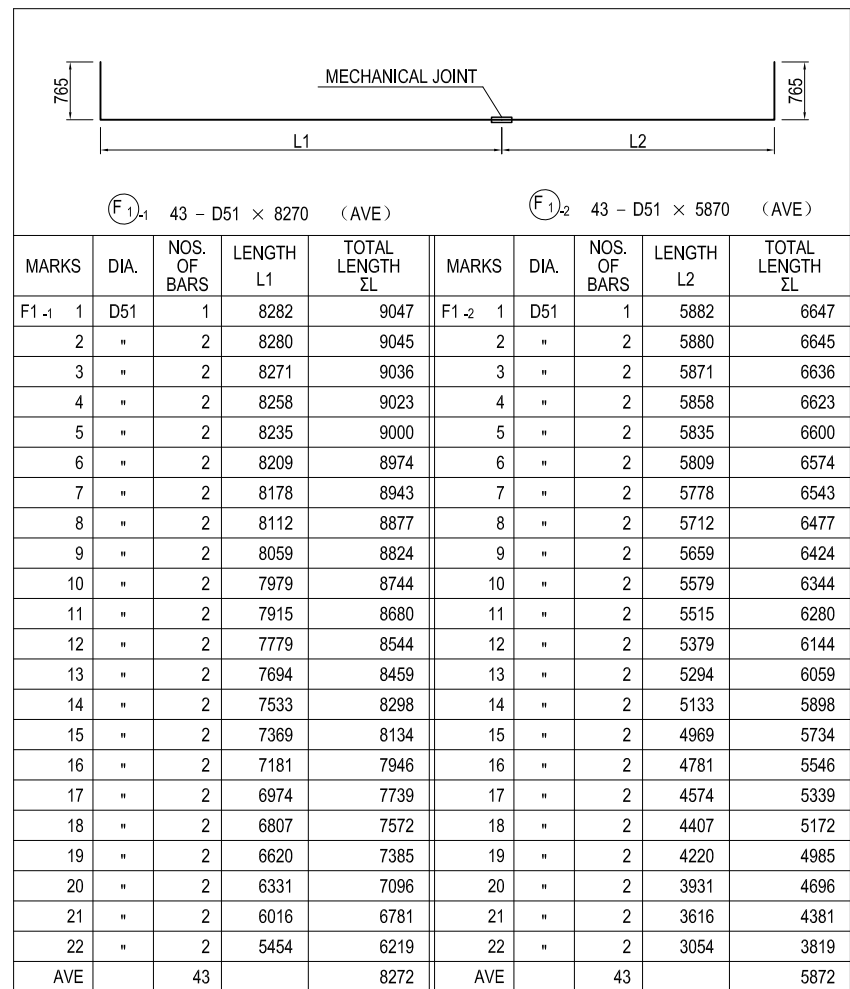
USE MATERIALS

	CONCRETE	BAR
FOOTING	$\sigma_{ck} = 24 \text{ N/mm}^2$	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 BAR ARRANGEMENT OF P17 FOOTING (3)	PACKAGE	
				PREPARED BY	S. IMADA			27 Nov.2017	2
				CHECKED BY	T. HAYAKAWA			28 Nov.2017	DWG No.
				APPROVED BY	Y. SANO			29 Nov.2017	P2-SB-2320

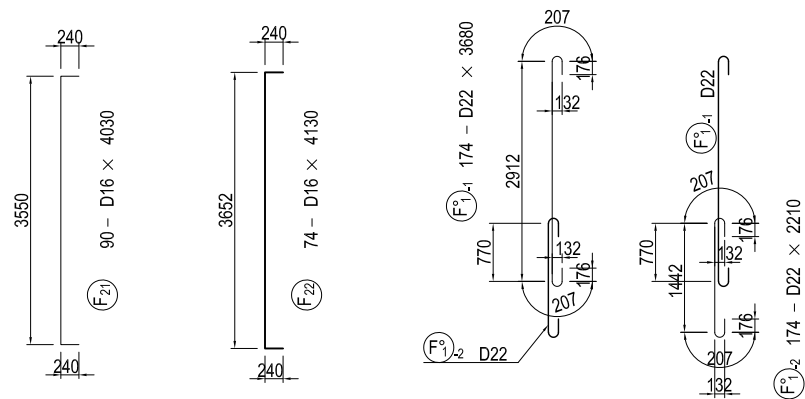
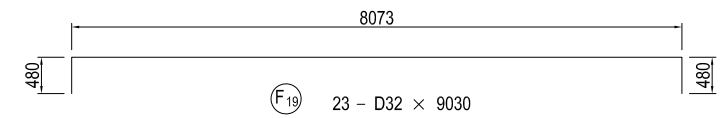
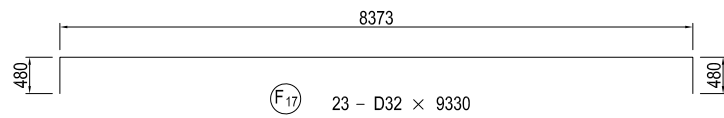
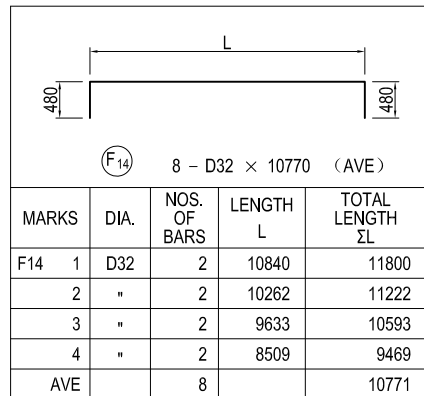
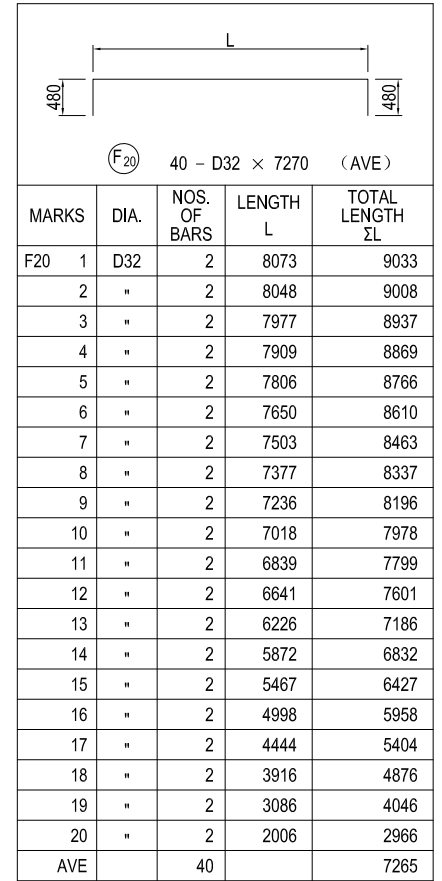
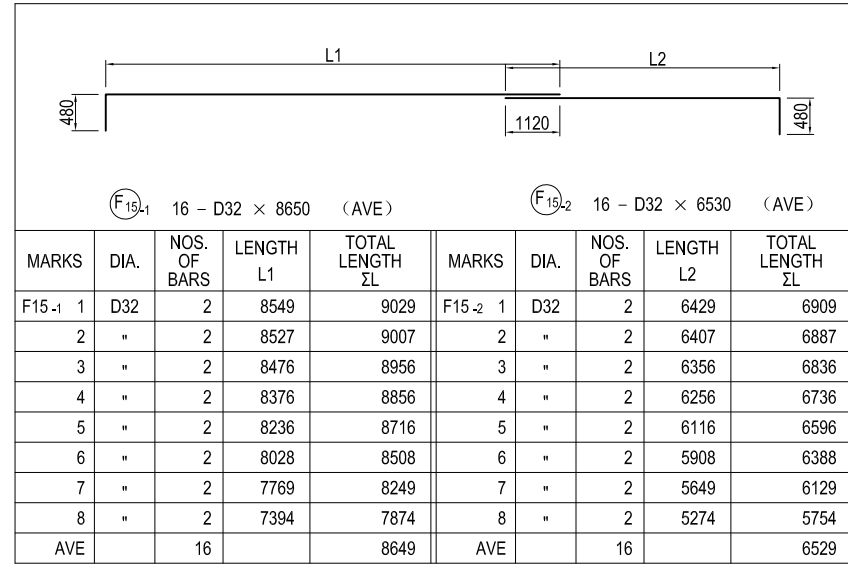
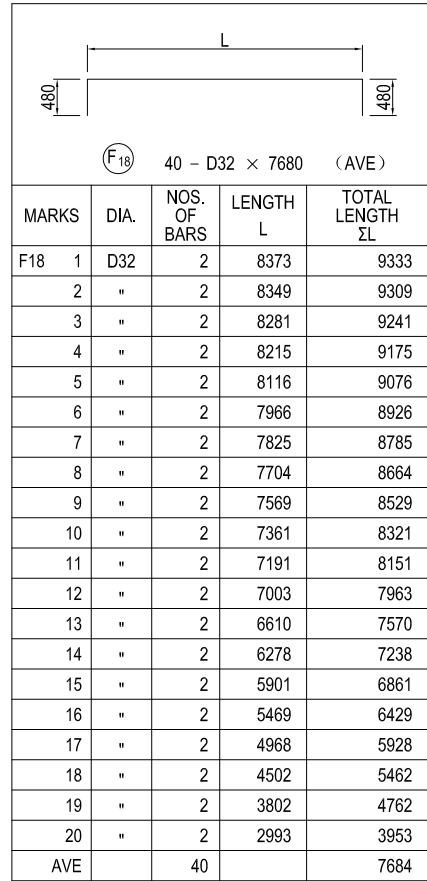
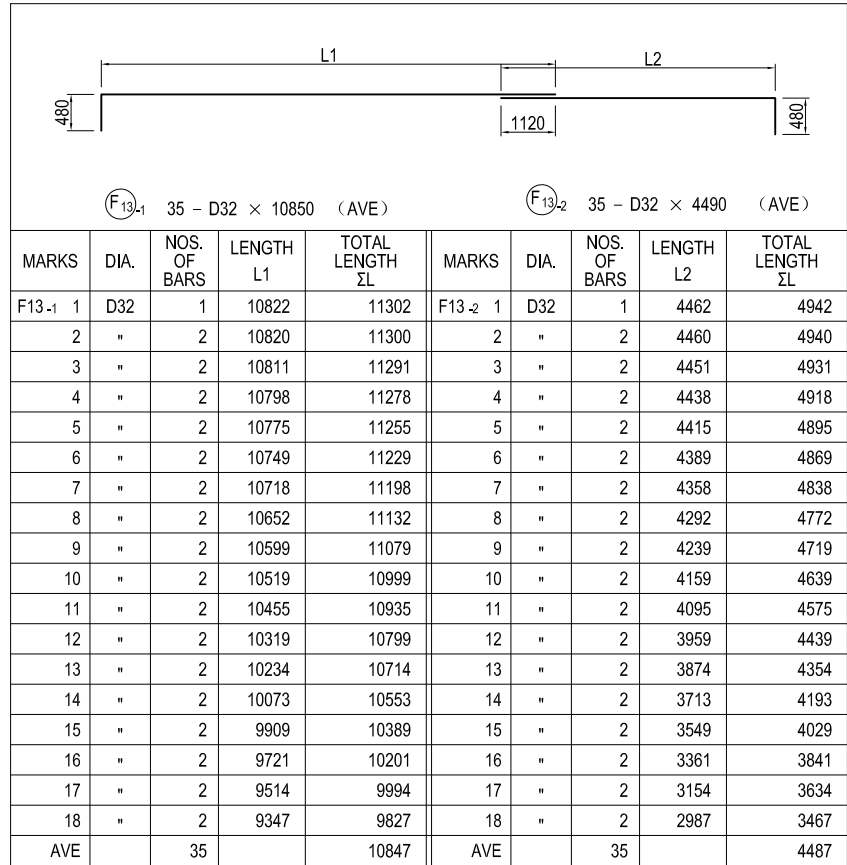
BAR ARRANGEMENT OF P17 FOOTING (4) S=1:100



USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm ²	SD345

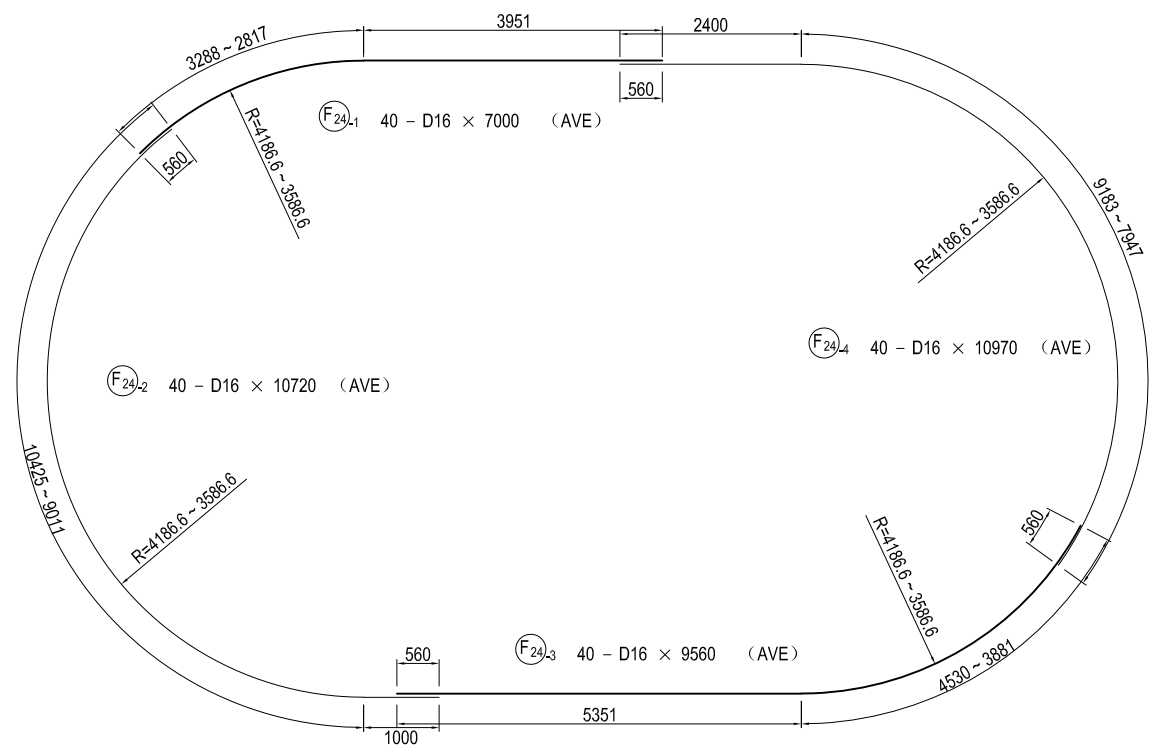
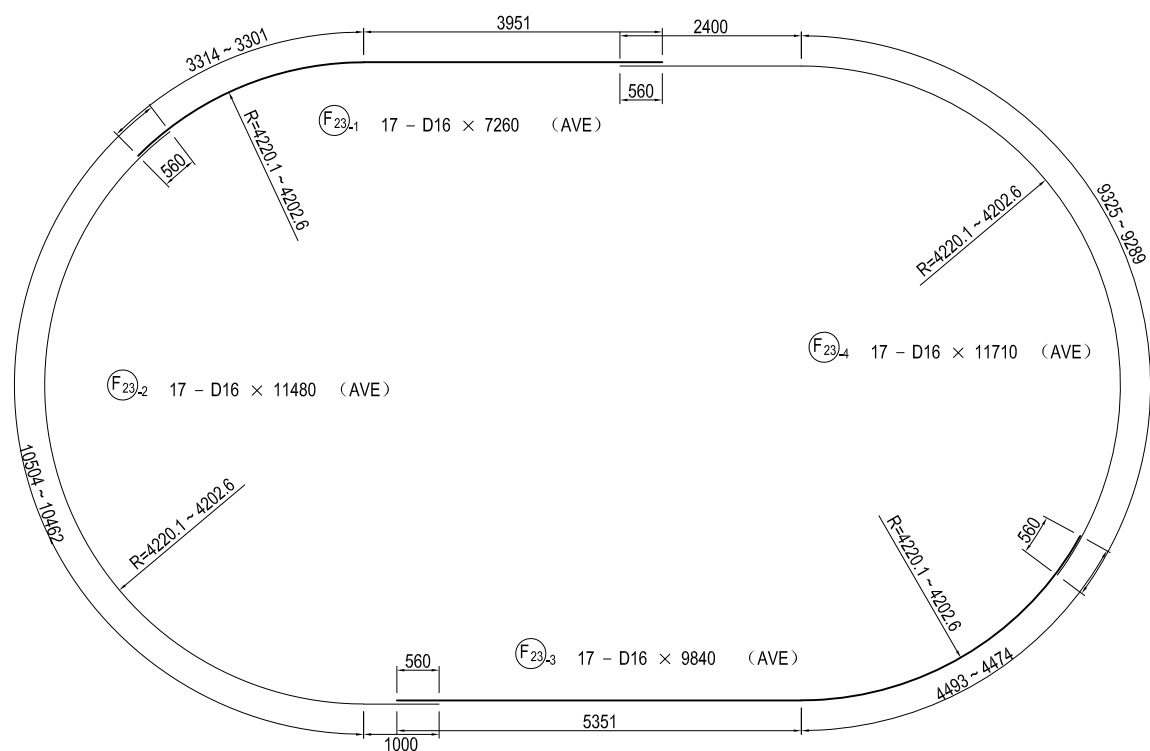
BAR ARRANGEMENT OF P17 FOOTING (5) S=1:100



USE MATERIALS

	CONCRETE	BAR
FOOTING	σ _{ck} = 24 N/mm ²	SD345

BAR ARRANGEMENT OF P17 FOOTING (6) S=1:100



Note) The joint position of the reinforcing 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

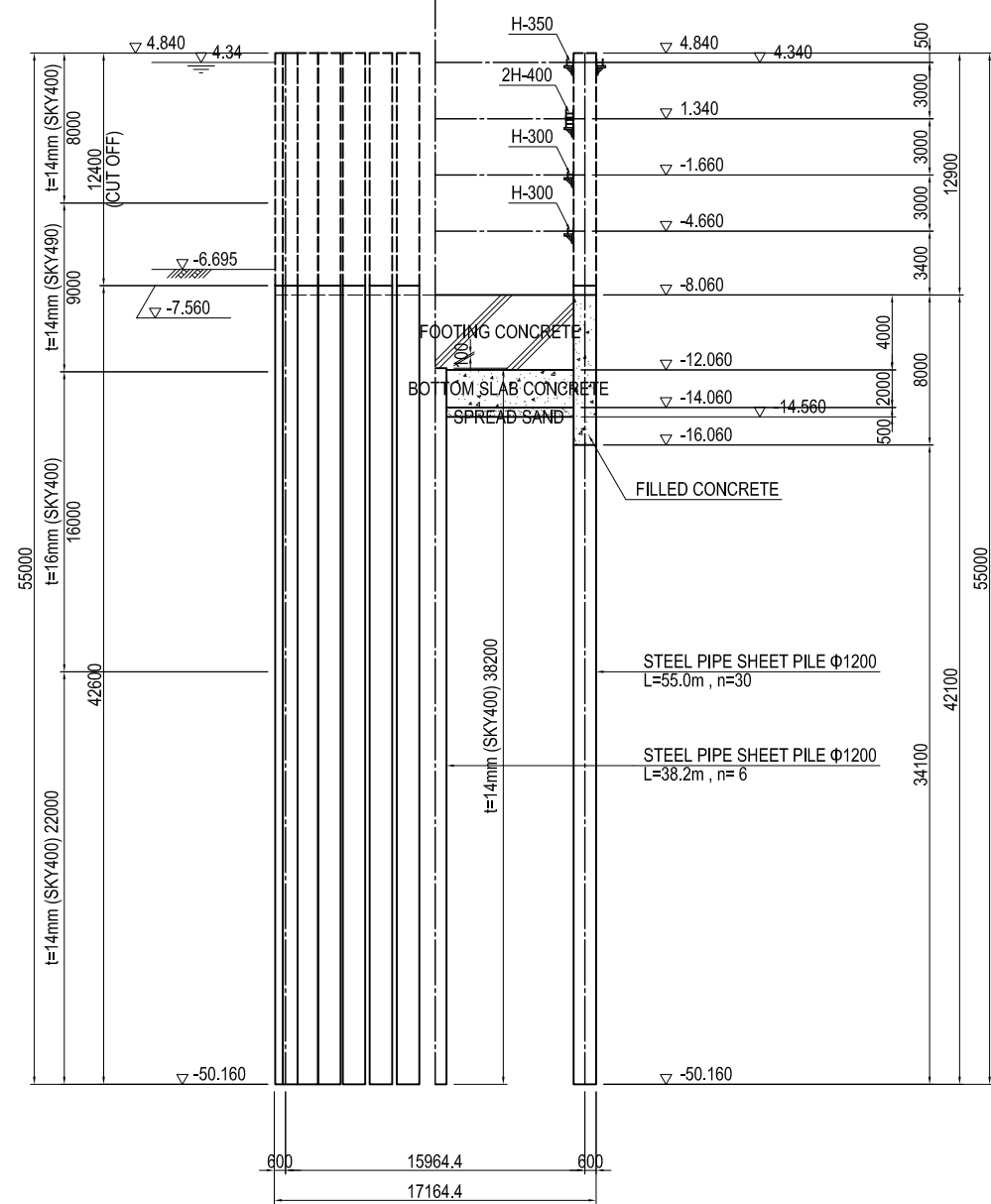
	CONCRETE	BAR
FOOTING	σ _{ck} = 24 N/mm ²	SD345

GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P17 PIER

S=1:400

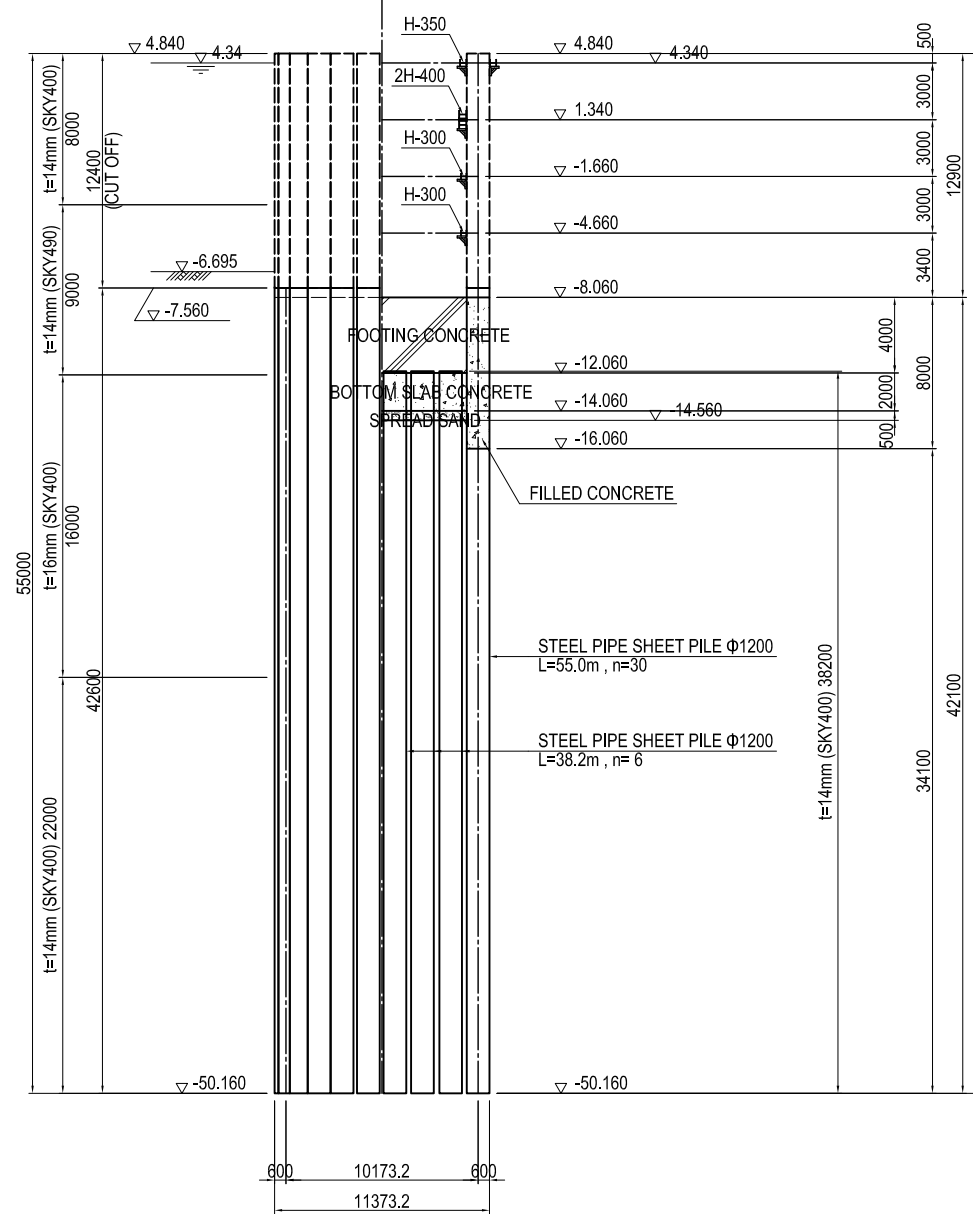
FRONT ELEVATION

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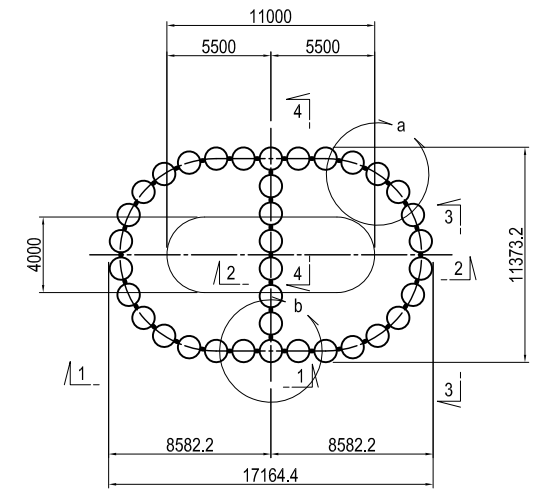


SIDE ELEVATION

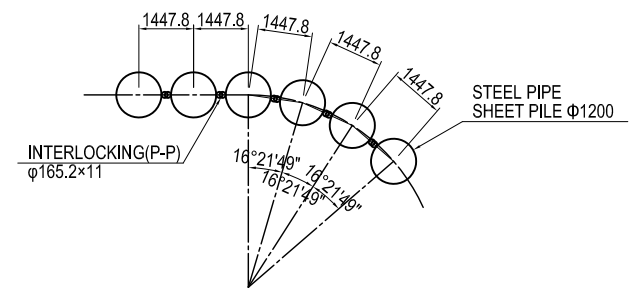
3-3 4-4



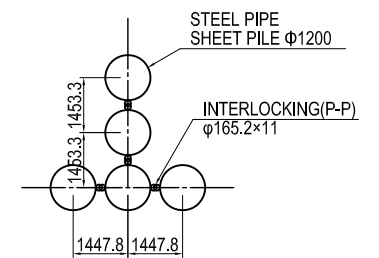
PLAN



DETAIL a S=1:200



DETAIL b S=1:200



USE MATERIALS

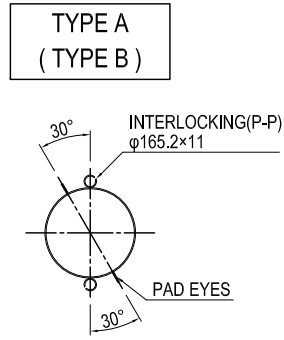
	CONCRETE	BAR
FOOTING	$\sigma_{ck} = 24 \text{ N/mm}^2$	SD345

Note: Temporary support can be used for reference only.

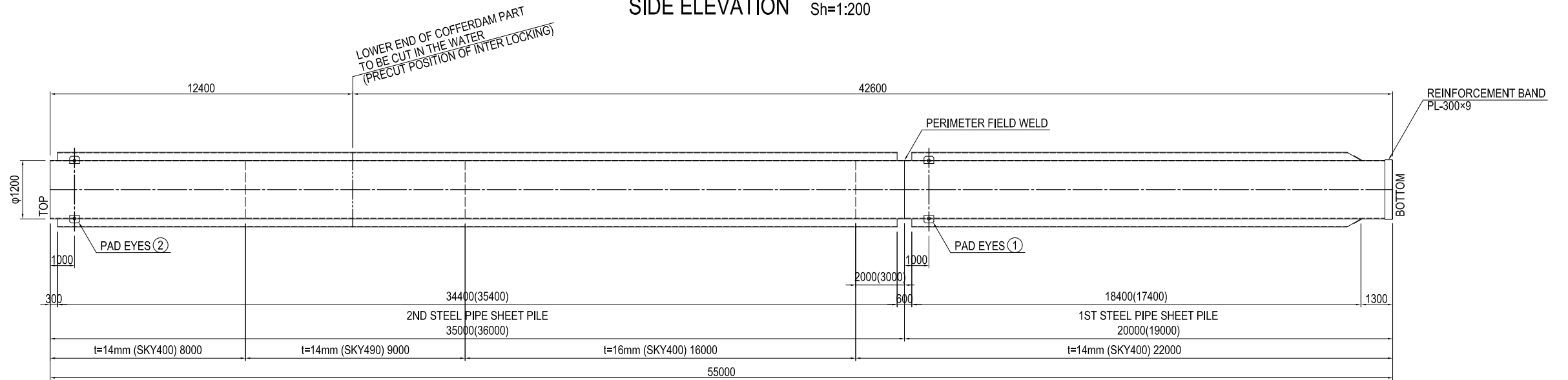
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P17 PIER	PACKAGE	
				PREPARED BY	S. IMADA			27 Nov.2017	2
				CHECKED BY	T. HAYAKAWA			28 Nov.2017	DWG No.
				APPROVED BY	Y. SANO			29 Nov.2017	P2-SB-2324

DETAIL OF STEEL PIPE SHEET PILE OF P17 PIER (1)

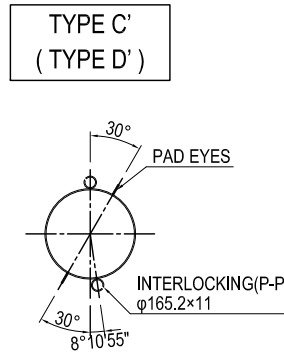
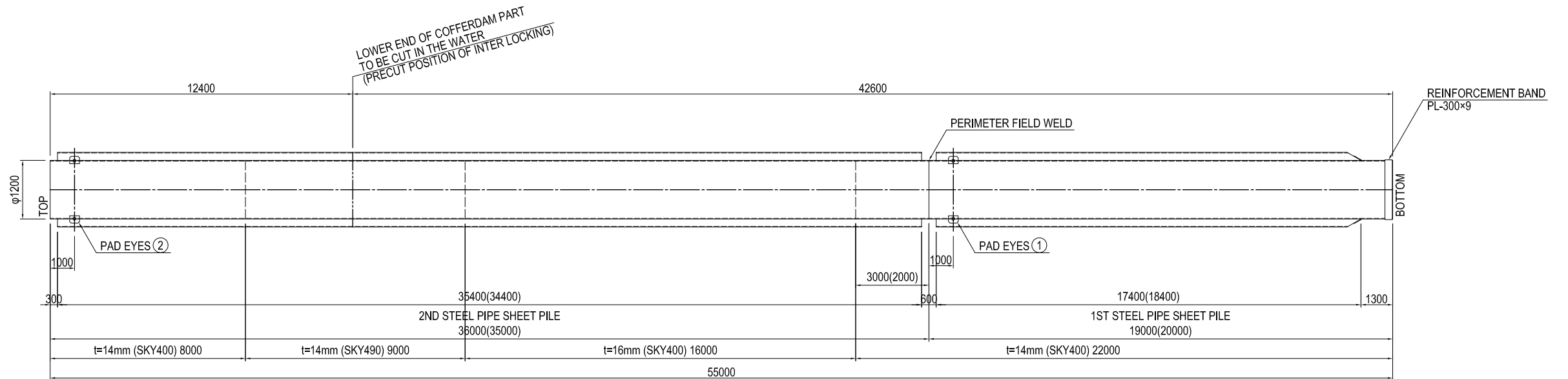
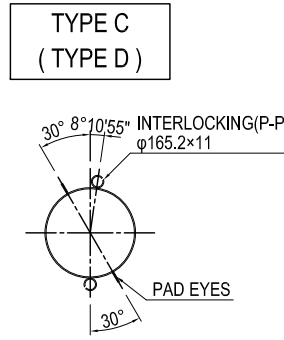
CROSS SECTION S=1:200



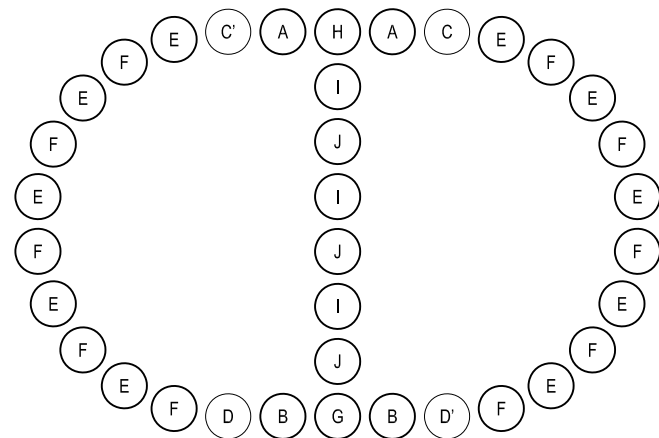
SIDE ELEVATION Sv=1:100 Sh=1:200



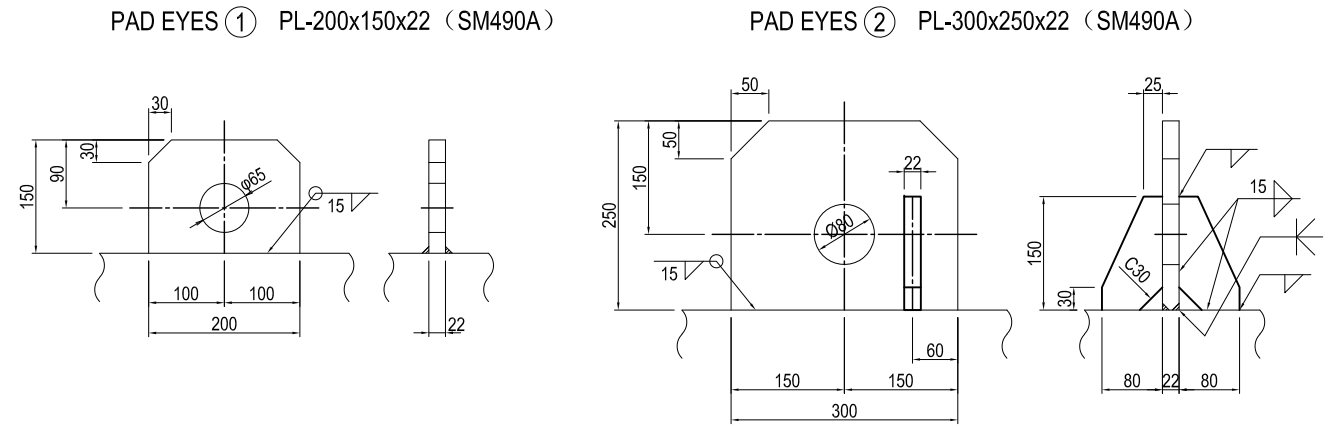
CROSS SECTION S=1:200



STEEL PIPE SHEET PILE TYPE AND POSITION



DETAIL OF EYES S=1:10

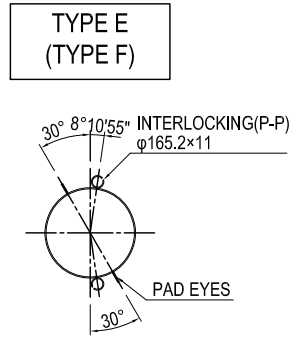


Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

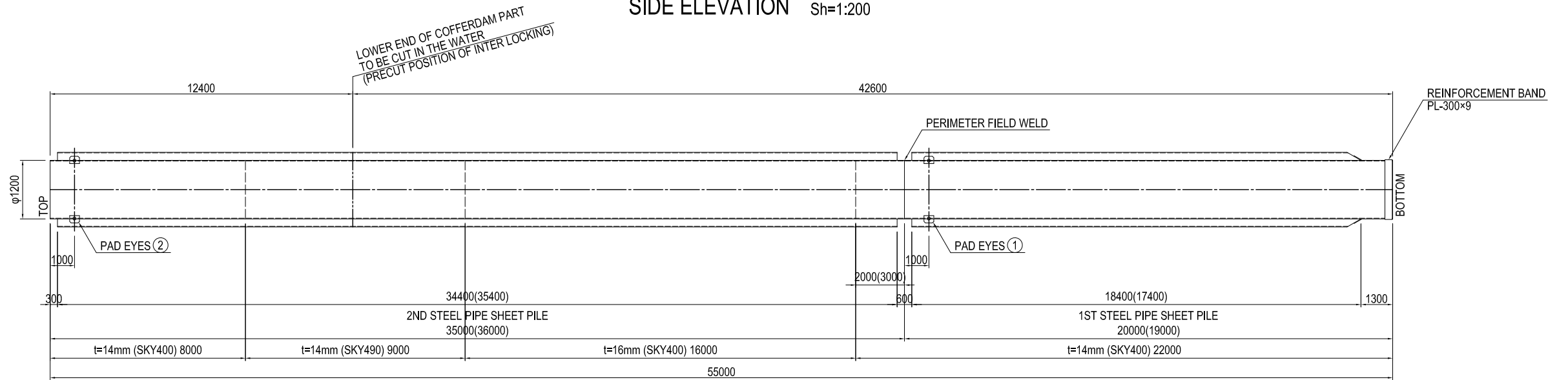
<p>PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT</p>	<p>FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE</p>	<p>JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY</td> <td>S. IMADA</td> <td>27 Nov.2017</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>28 Nov.2017</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>29 Nov.2017</td> </tr> </tbody> </table>	NAME	SIGNATURE	DATE	PREPARED BY	S. IMADA	27 Nov.2017	CHECKED BY	T. HAYAKAWA	28 Nov.2017	APPROVED BY	Y. SANO	29 Nov.2017	<p>DRAWING TITLE DETAIL OF STEEL PIPE SHEET PILE OF P17 PIER (1)</p>	<p>PACKAGE 2 DWG No. P2-SB-2325</p>
NAME	SIGNATURE	DATE																
PREPARED BY	S. IMADA	27 Nov.2017																
CHECKED BY	T. HAYAKAWA	28 Nov.2017																
APPROVED BY	Y. SANO	29 Nov.2017																

DETAIL OF STEEL PIPE SHEET PILE OF P17 PIER (2)

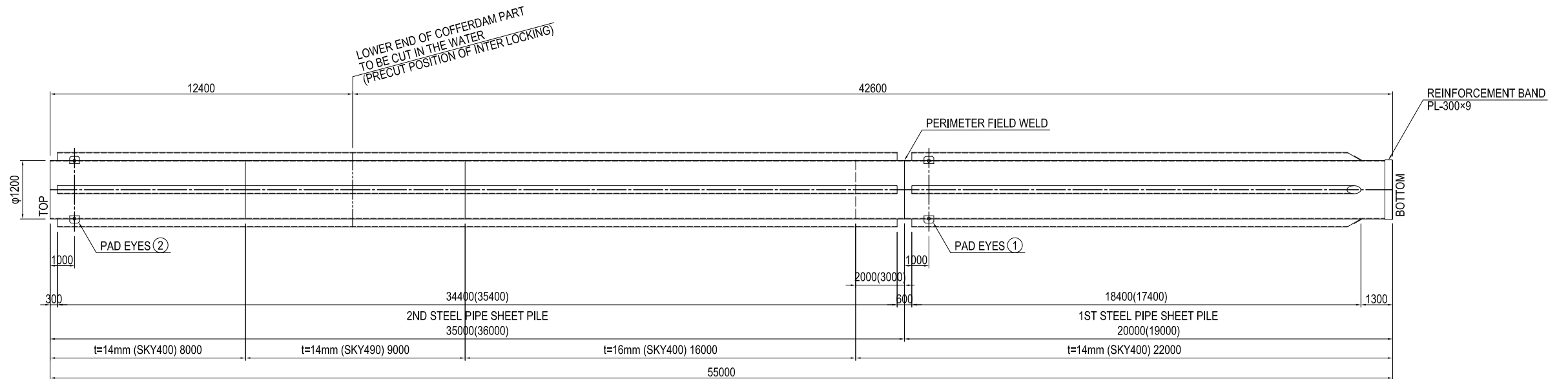
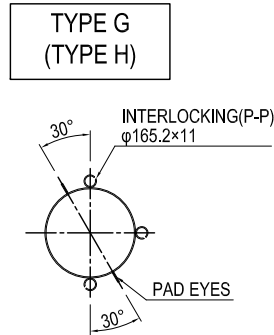
CROSS SECTION S=1:200



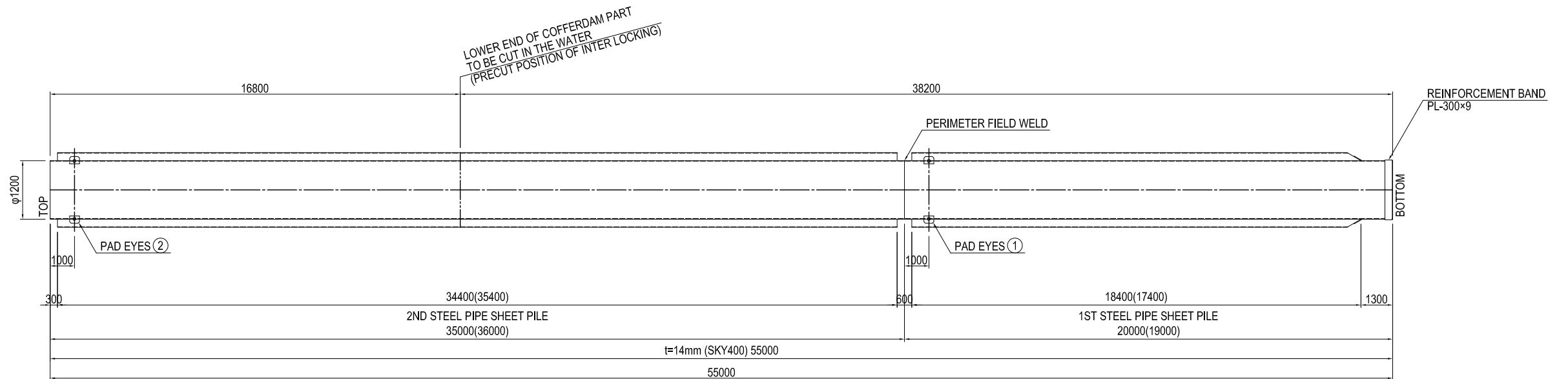
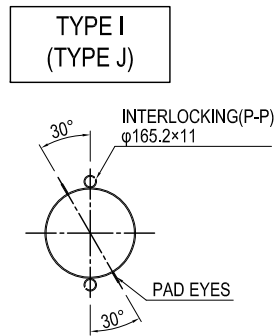
SIDE ELEVATION Sv=1:100 Sh=1:200



CROSS SECTION S=1:200



CROSS SECTION S=1:200

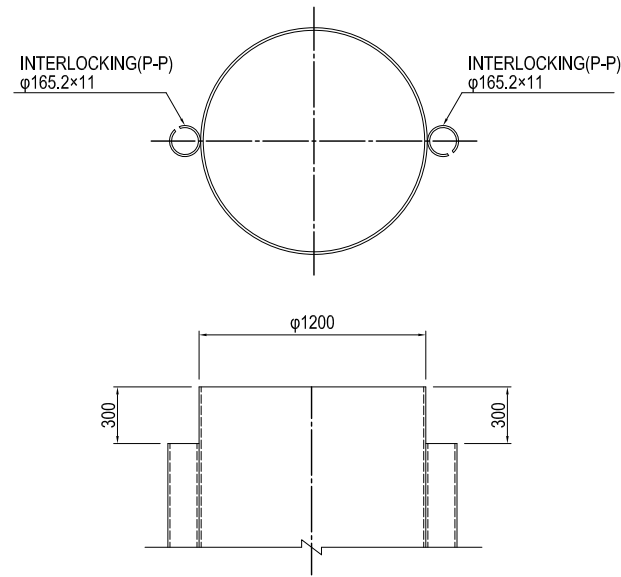


Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

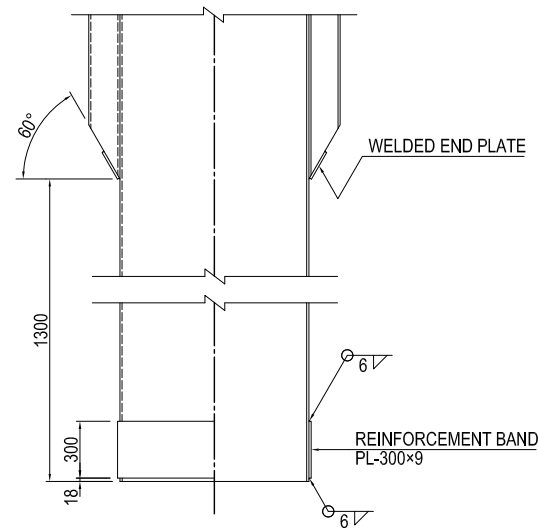
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 20%;">NAME</th> <th style="width: 20%;">SIGNATURE</th> <th style="width: 10%;">DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY</td> <td>S. IMADA</td> <td></td> <td>27 Nov.2017</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td></td> <td>28 Nov.2017</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td></td> <td>29 Nov.2017</td> </tr> </tbody> </table>		NAME	SIGNATURE	DATE	PREPARED BY	S. IMADA		27 Nov.2017	CHECKED BY	T. HAYAKAWA		28 Nov.2017	APPROVED BY	Y. SANO		29 Nov.2017	DRAWING TITLE DETAIL OF STEEL PIPE SHEET PILE OF P17 PIER (2)	PACKAGE 2 DWG No. P2-SB-2326
	NAME	SIGNATURE	DATE																			
PREPARED BY	S. IMADA		27 Nov.2017																			
CHECKED BY	T. HAYAKAWA		28 Nov.2017																			
APPROVED BY	Y. SANO		29 Nov.2017																			

DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P17 PIER

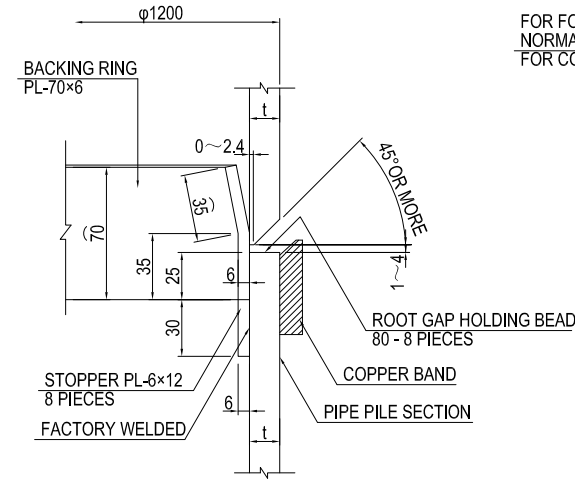
DETAIL OF STEEL PIPE SHEET PILE TOP S=1:40



DETAIL OF STEEL PIPE SHEET PILE TOE S=1:40

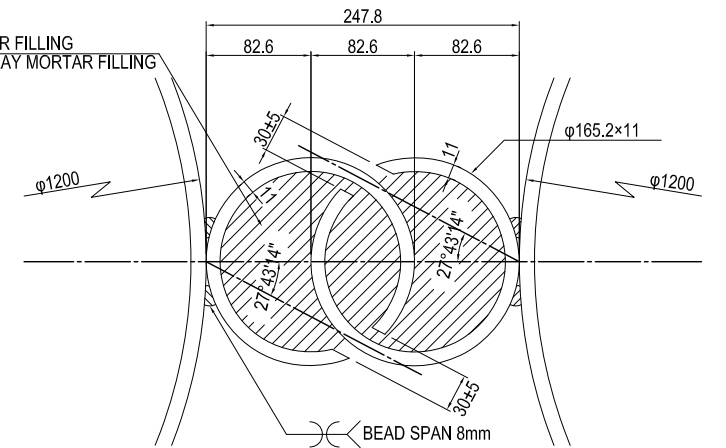


DETAIL OF PERIMETER FIELD WELDING OF STEEL PIPE SHEET PILE S=1:4



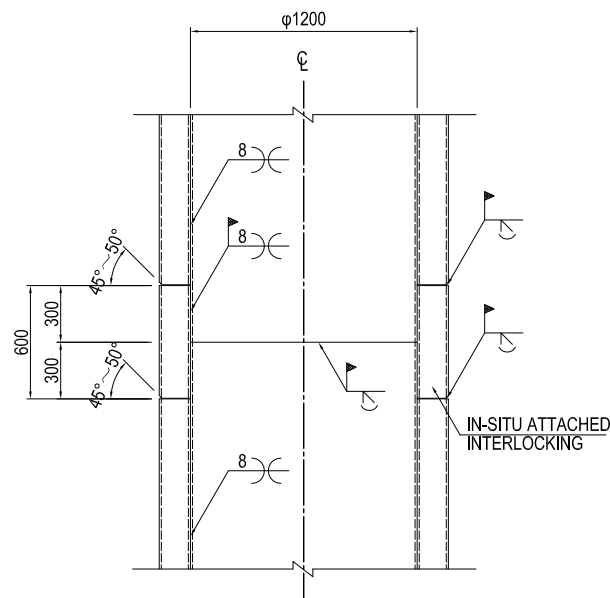
FOR FOUNDATION PART :
NORMAL STRENGTH MORTAR FILLING
FOR COFFERDAM PART : CLAY MORTAR FILLING

DETAIL OF CONNECTED INTERLOCKING(P-P) S=1:6

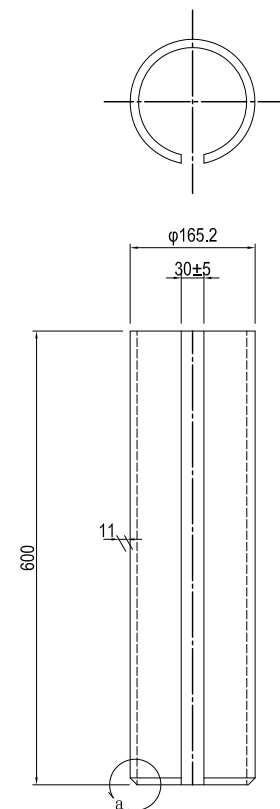


TREATMENT OF STEEL PIPE SHEET PILE INTERLOCKING

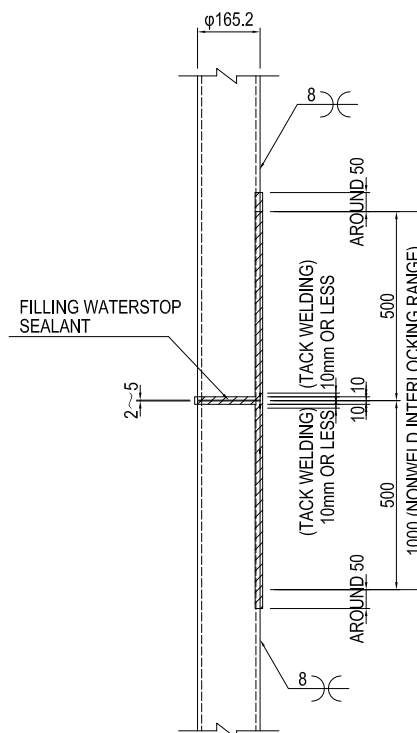
DETAIL OF IN-SITU LONGITUDINAL WELDING PART S=1:40



DETAIL OF IN-SITU ATTACHED INTERLOCKING S=1:10

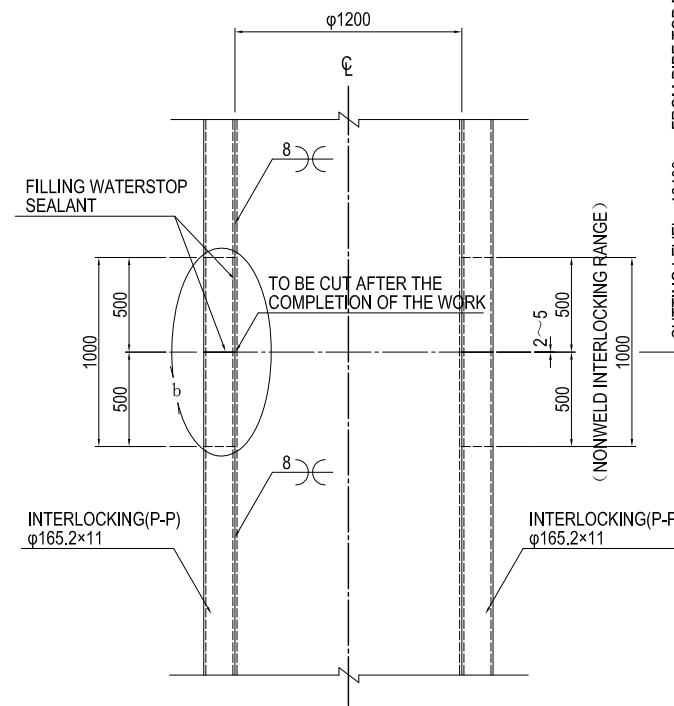


DETAIL b

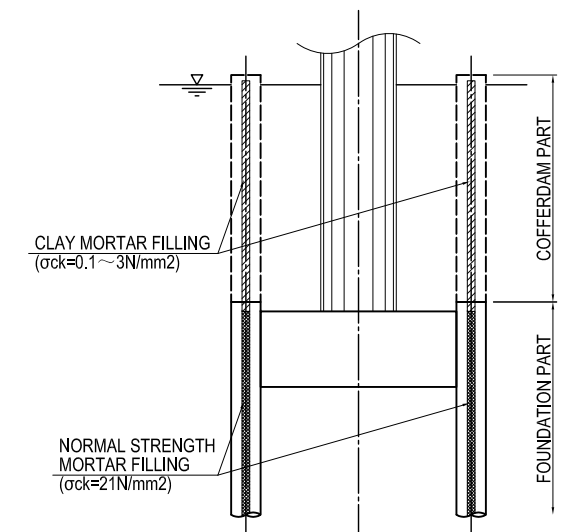


CUTTING LEVEL : 12400mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING.

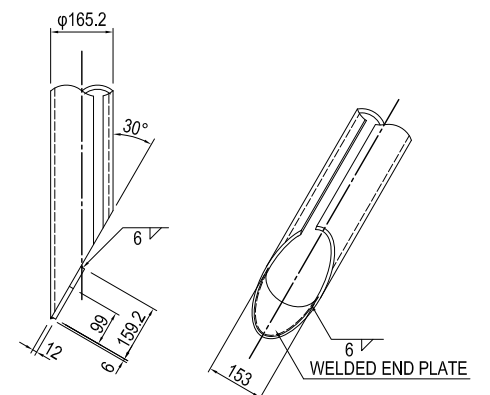
DETAIL OF PRECUT INTERLOCKING S=1:40



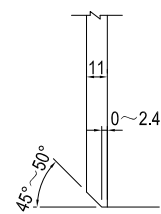
CUTTING LEVEL : 12400mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING.



DETAIL OF INTERLOCKING TOE S=1:20

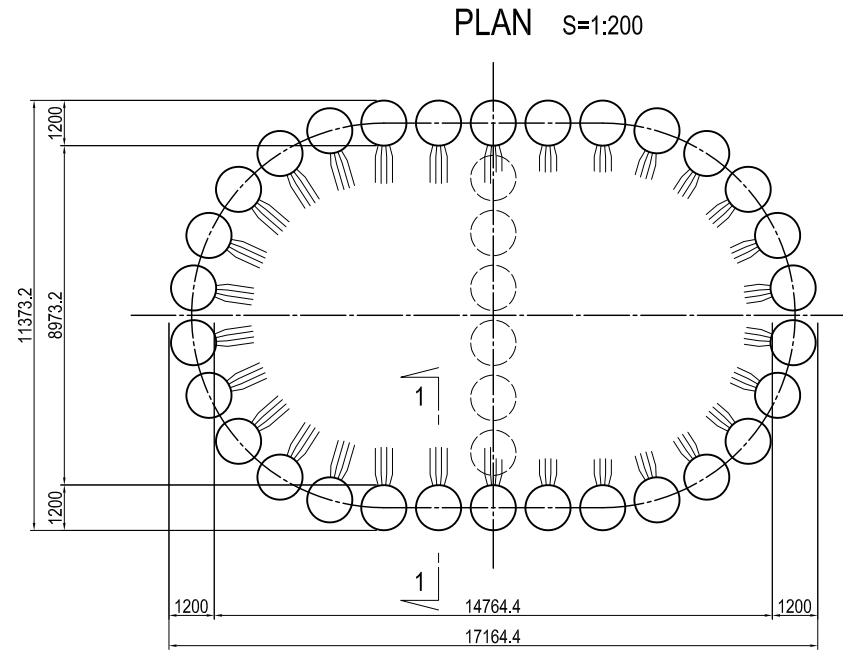


DETAIL a

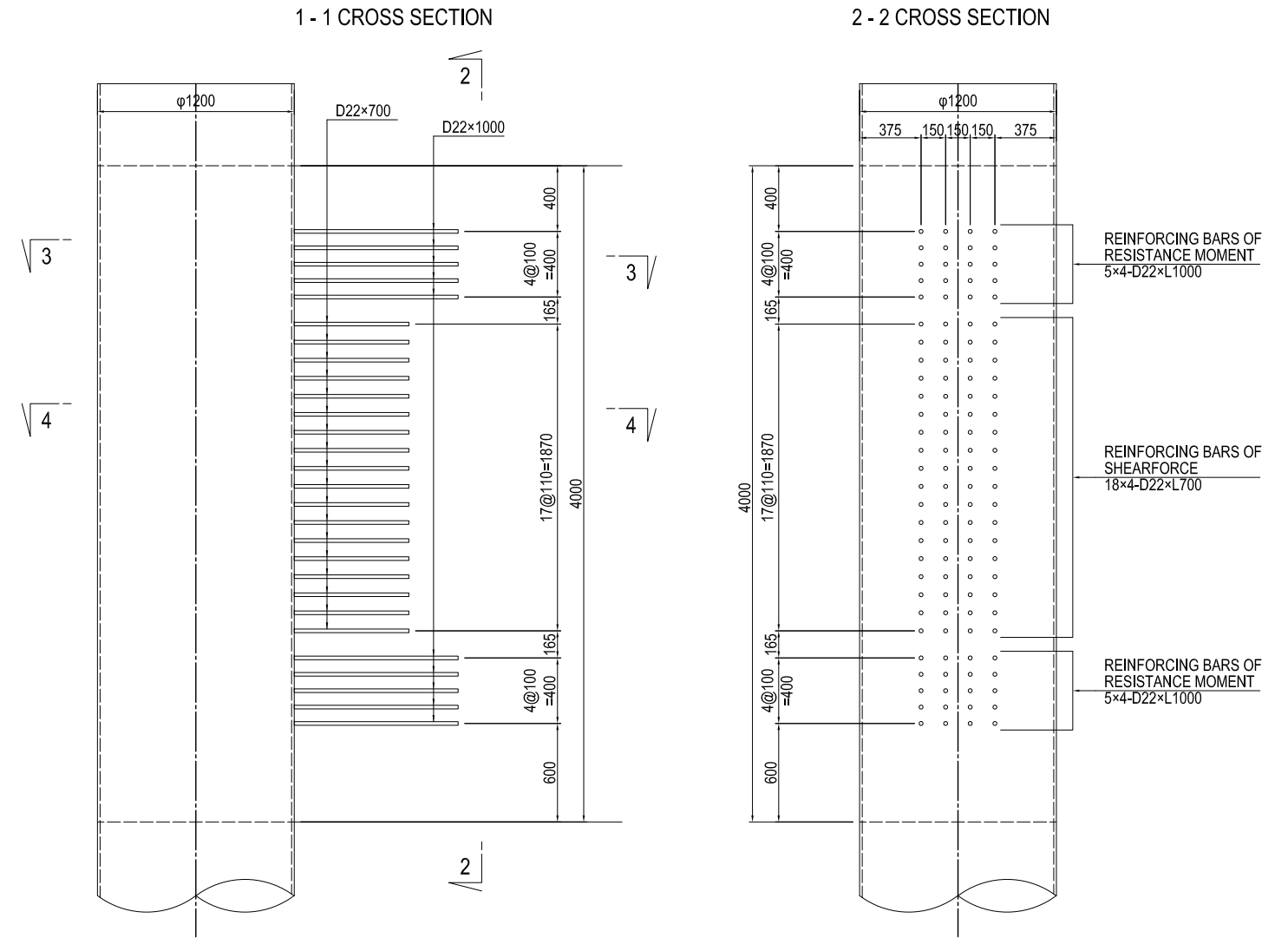


PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY jica JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P17 PIER	PACKAGE 2 DWG No. P2-SB-2327
				PREPARED BY	S. IMADA	27 Nov.2017		
				CHECKED BY	T. HAYAKAWA	28 Nov.2017		
				APPROVED BY	Y. SANO	29 Nov.2017		

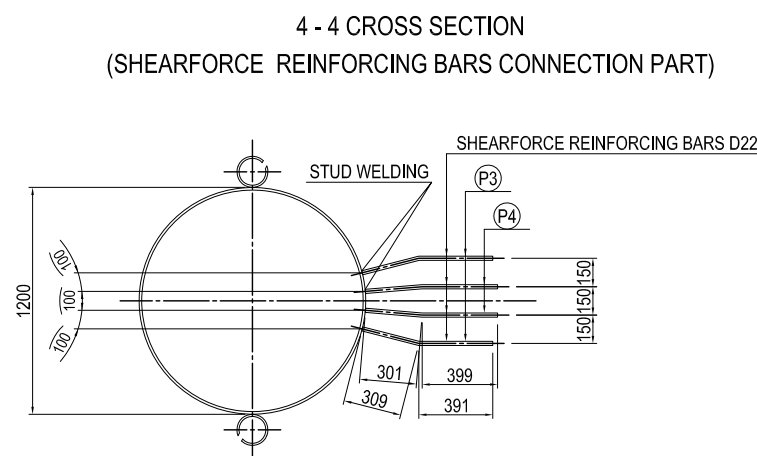
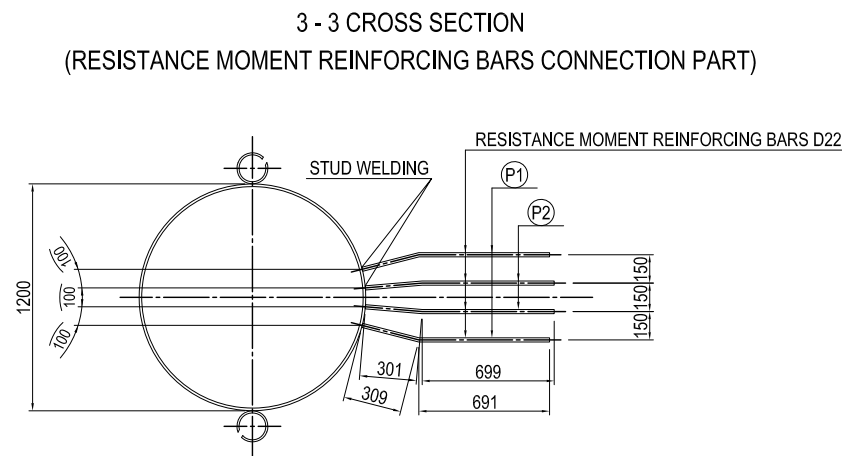
DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P17 PIER



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



FABRICATION OF REINFORCING BARS S=1:40

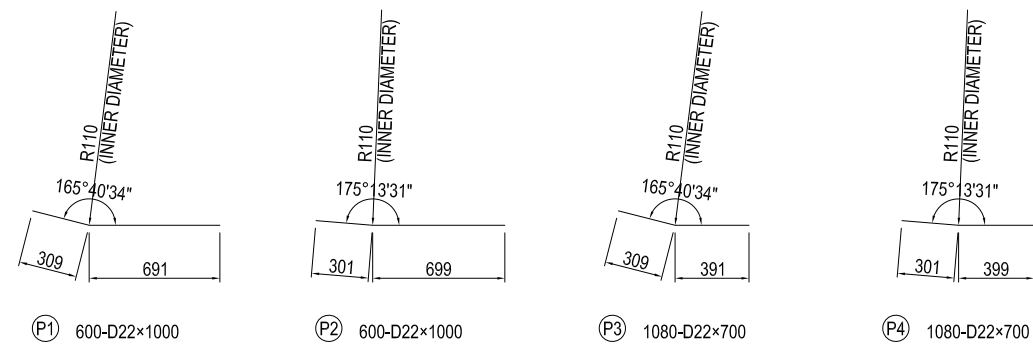
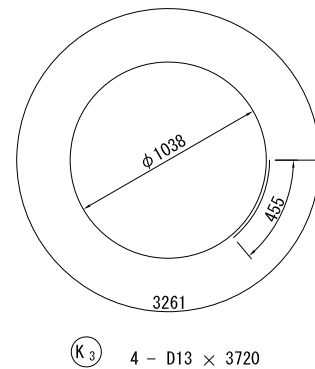
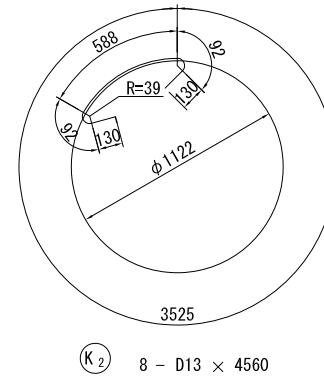
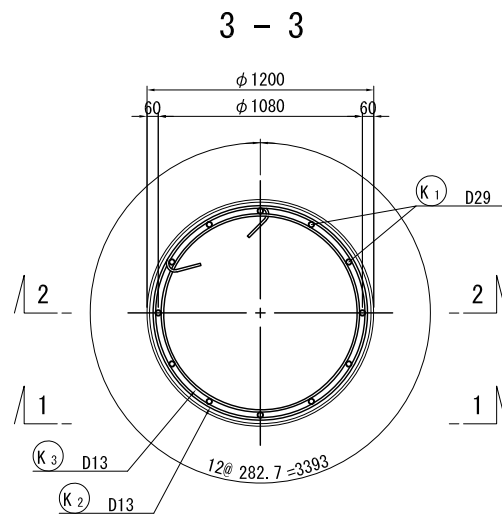
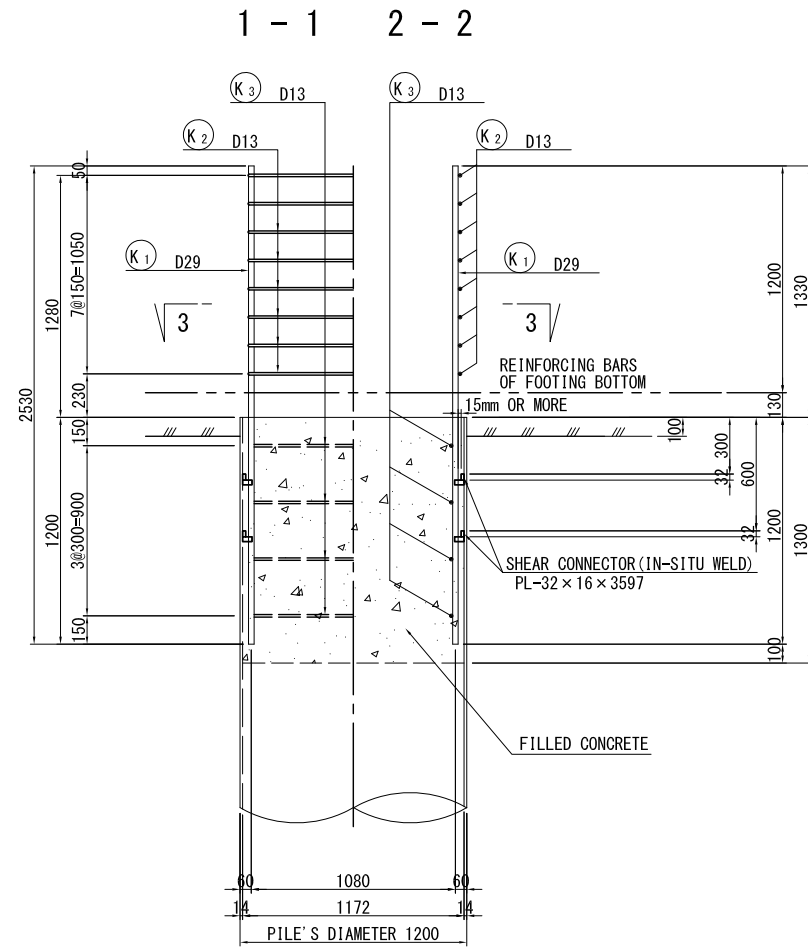


TABLE OF REINFORCING BARS

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		

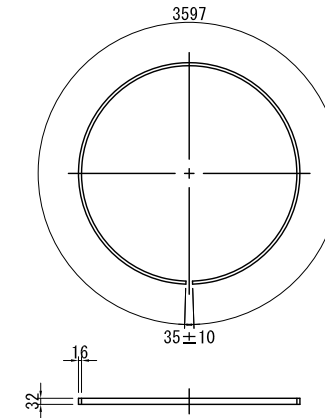
DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P17 PIER S=1:40

DETAIL OF PILE TOP

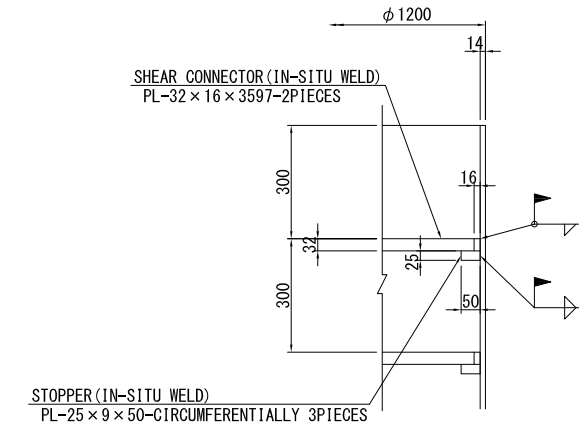


DETAIL OF ATTACHMENT OF SHEAR CONNECTOR

CENTER OF LENGTH



SETTING IN THE FIELD S=1:20



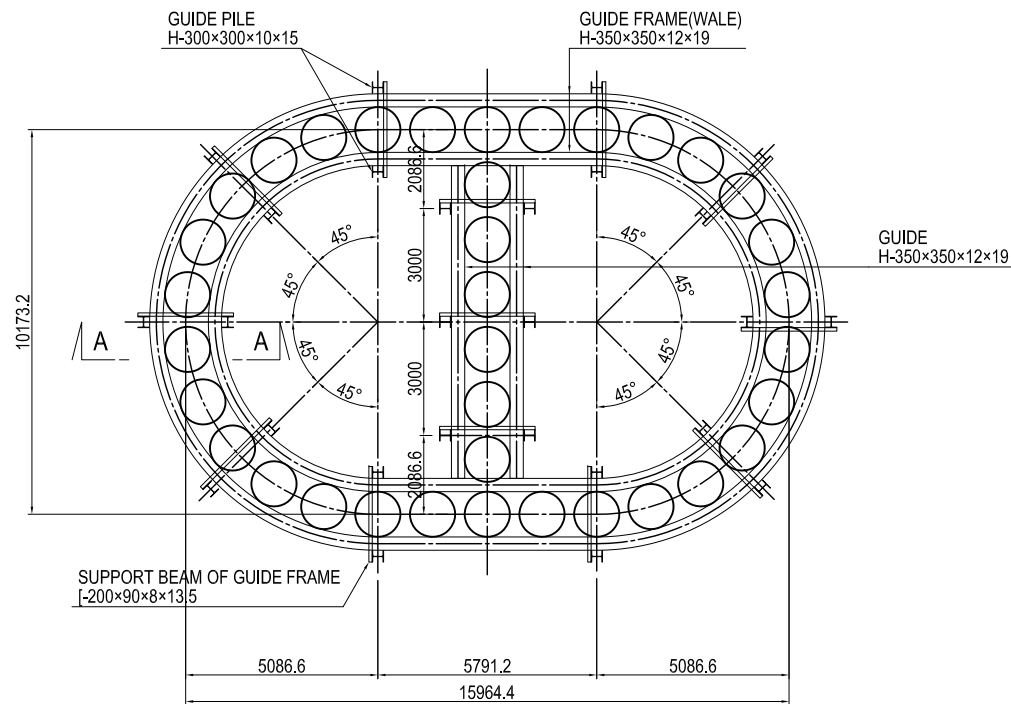
MATERIAL LIST

MARKS	SECTION SIZE	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/E.A. (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 (σ _{ck} = 24 N/mm ²)								
V = 1/4 × π × 1.172 ² × 1.300 = 1.402 m ³								

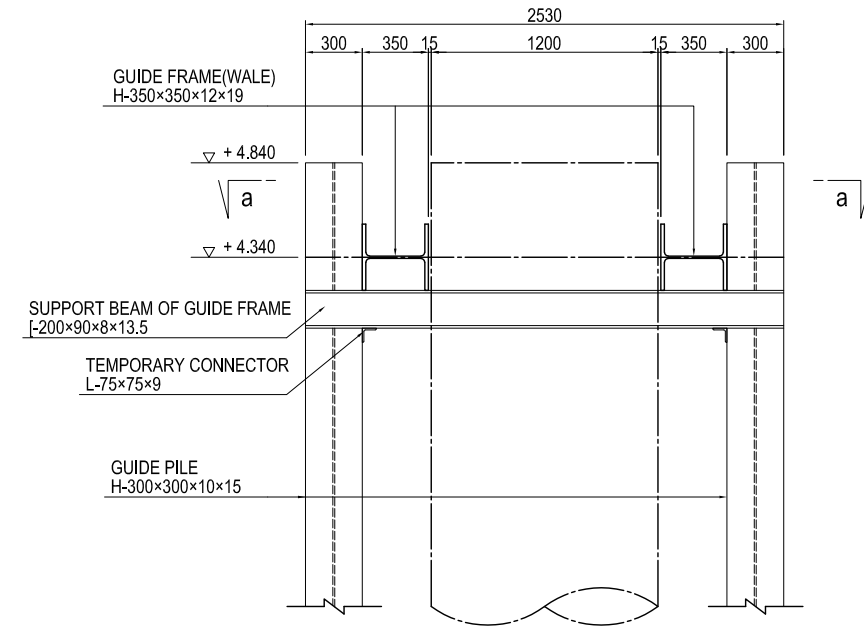
ITEM	DIVISION	UNIT CONTENT	WEIGHT/E.A.	QUANTITY
NUMBER OF PILE		Number		6
PILE TOP	SS400	TOTAL	kg	29.4
REINFORCEMENT	SD345	D29	kg	153
		D13	kg	51
		TOTAL	kg	204
FILLED CONCRETE	σ _{ck} = 24 N/mm ²	m ³	1.402	8.4

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P17 PIER (1)

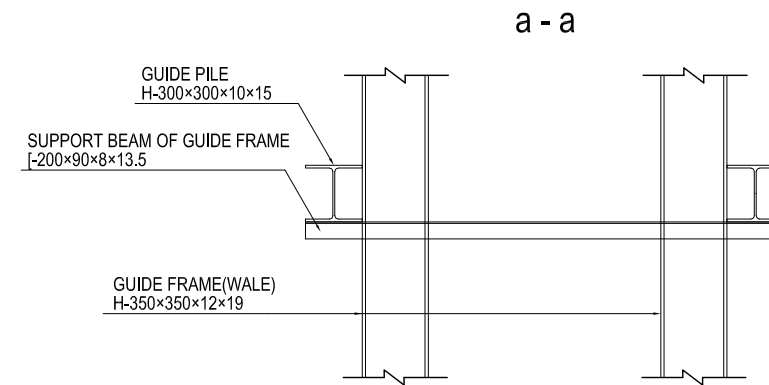
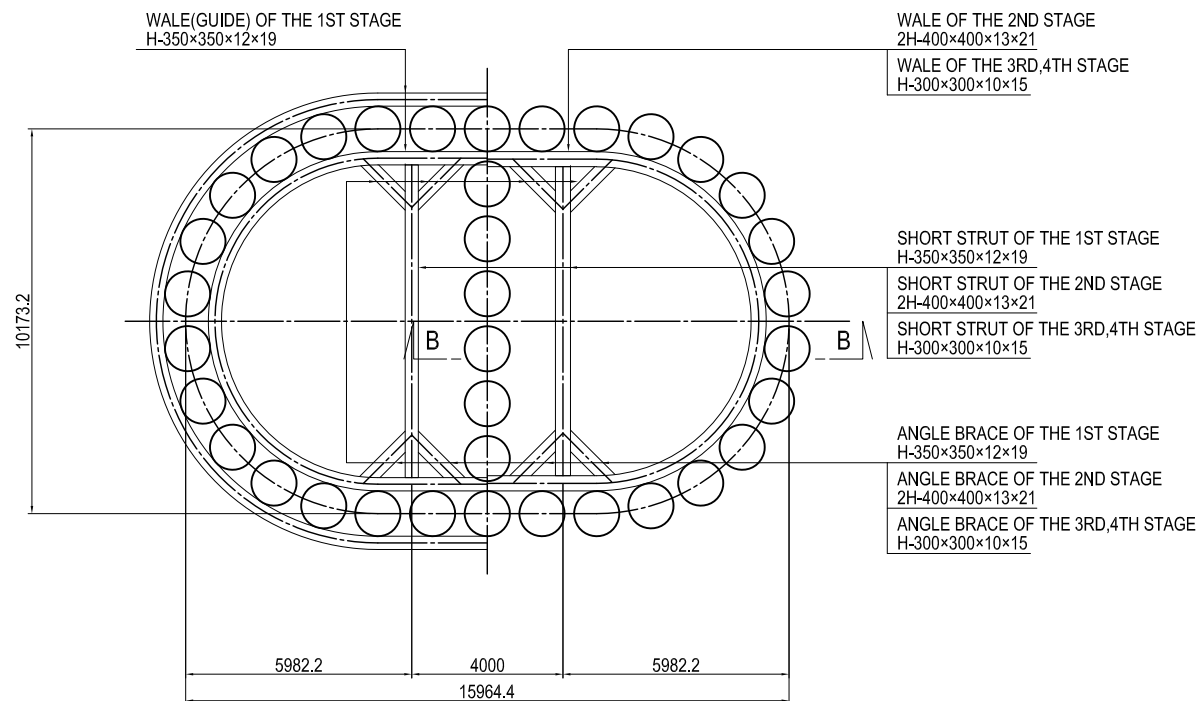
LAYOUT PLAN OF GUIDE FRAMES AND GUIDE PILES S=1:200



DETAIL OF ATTACHMENT OF GUIDE PILES AND GUIDE FRAMES S=1:40



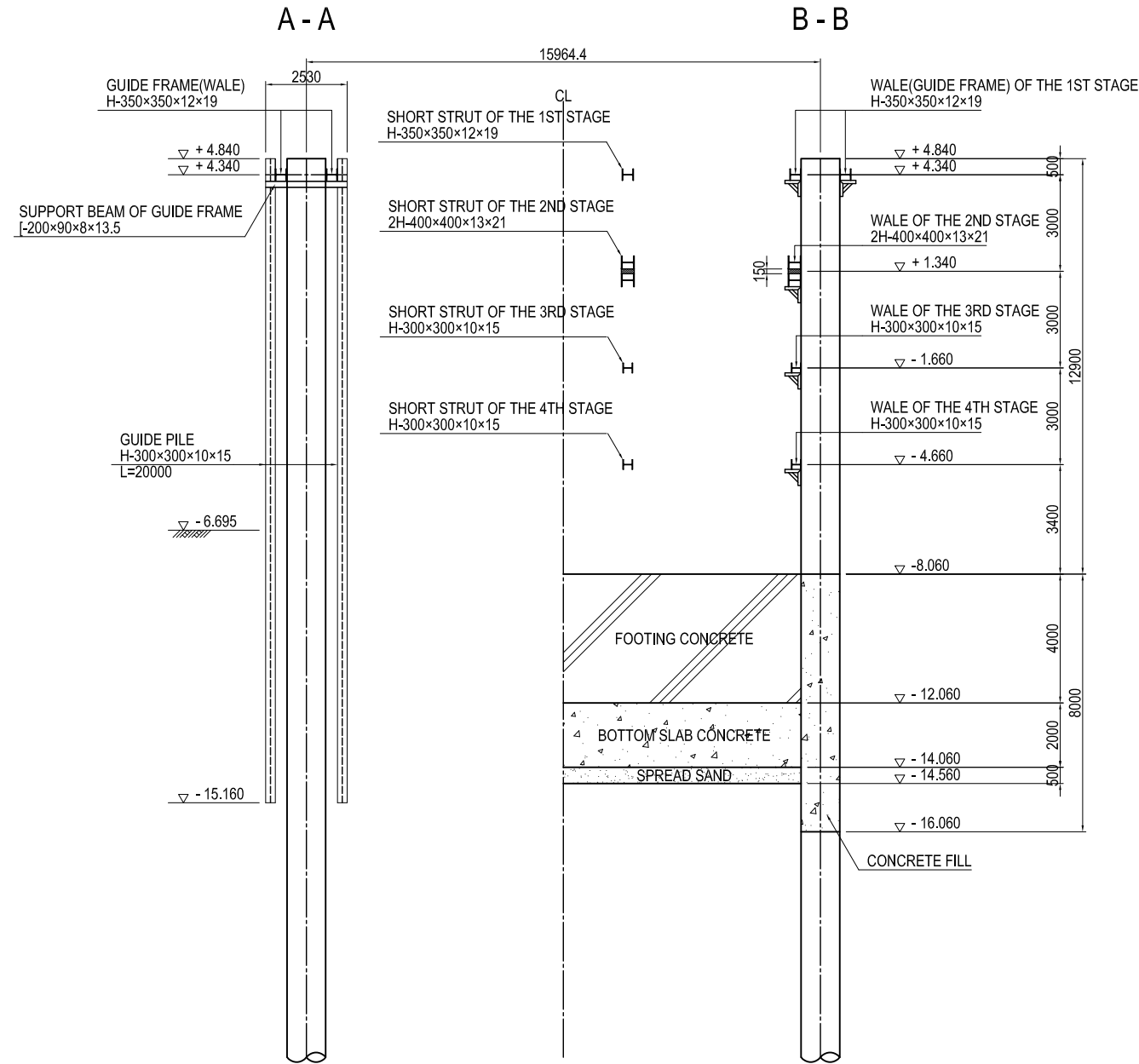
LAYOUT PLAN OF STRUTS AND WALES S=1:200



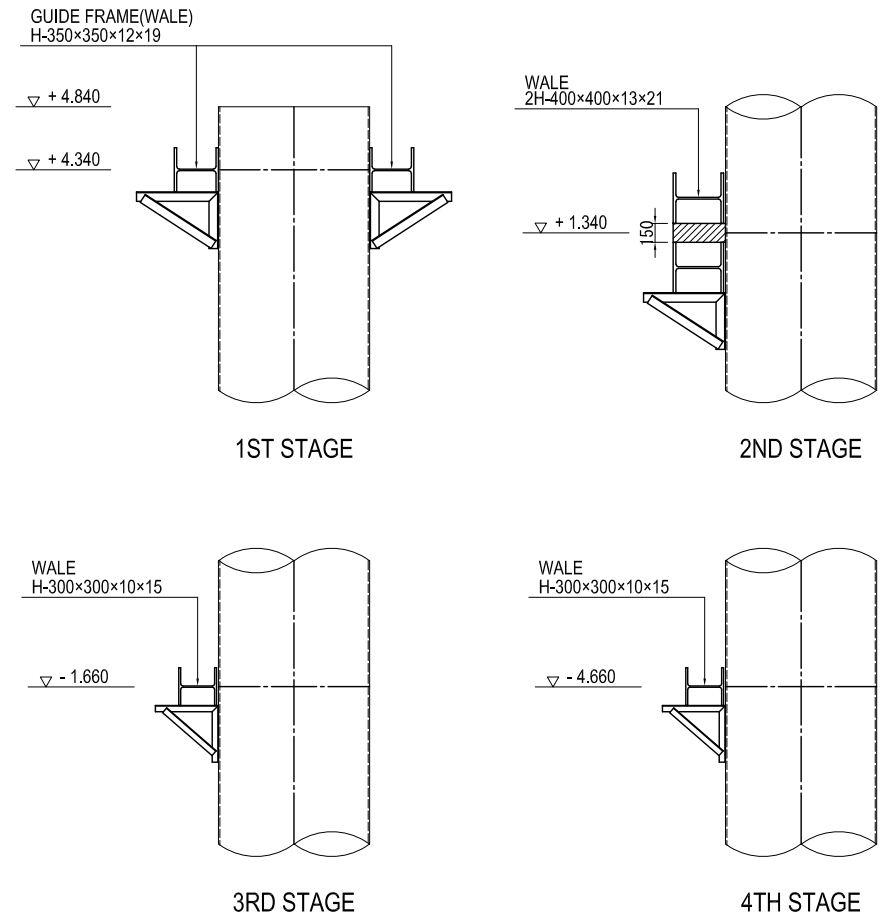
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	S. IMADA		27 Nov.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P17 PIER (1)	2
				T. HAYAKAWA		28 Nov.2017		DWG No.
				Y. SANO		29 Nov.2017		P2-SB-2330

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P17 PIER(2)

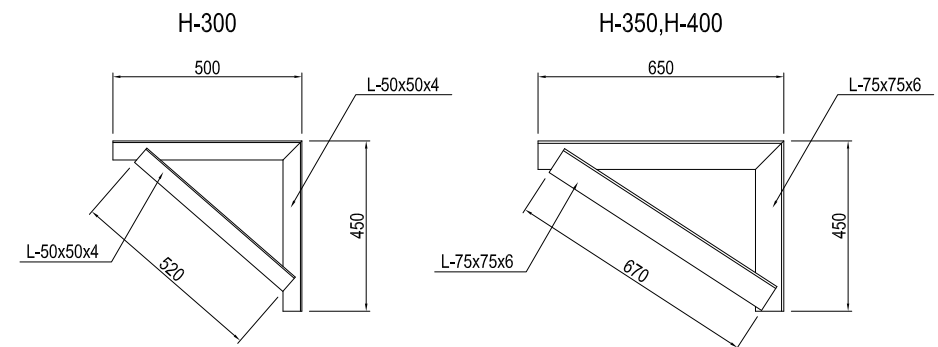
CROSS SECTION S=1:200



DETAIL OF ATTACHMENT OF WALE S=1:60



DETAIL OF BRACKET S=1:20



PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE (REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P17 PIER (2)	PACKAGE	
				PREPARED BY	S. IMADA			27 Nov.2017	2
				CHECKED BY	T. HAYAKAWA			28 Nov.2017	DWG No.
				APPROVED BY	Y. SANO			29 Nov.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
<p>Excavate inside of exterior sheet piles and filled with concrete as shown. Draining the inside of cofferdam up to +0.340m level. The 1st support Installation.</p>	<p>The 2nd support Installation. Underwater excavation up to -14.560m level.</p>	<p>Draining the inside of cofferdam up to -2.660m level. Placement of spread sand followed by Casting undewater bottom slab concrete.</p>	<p>The 3rd support Installation. Dry up inside the cofferdam.</p>	<p>The 4th support Installation.</p>
STEP 6				
<p>Casting of footing concrete.</p>				

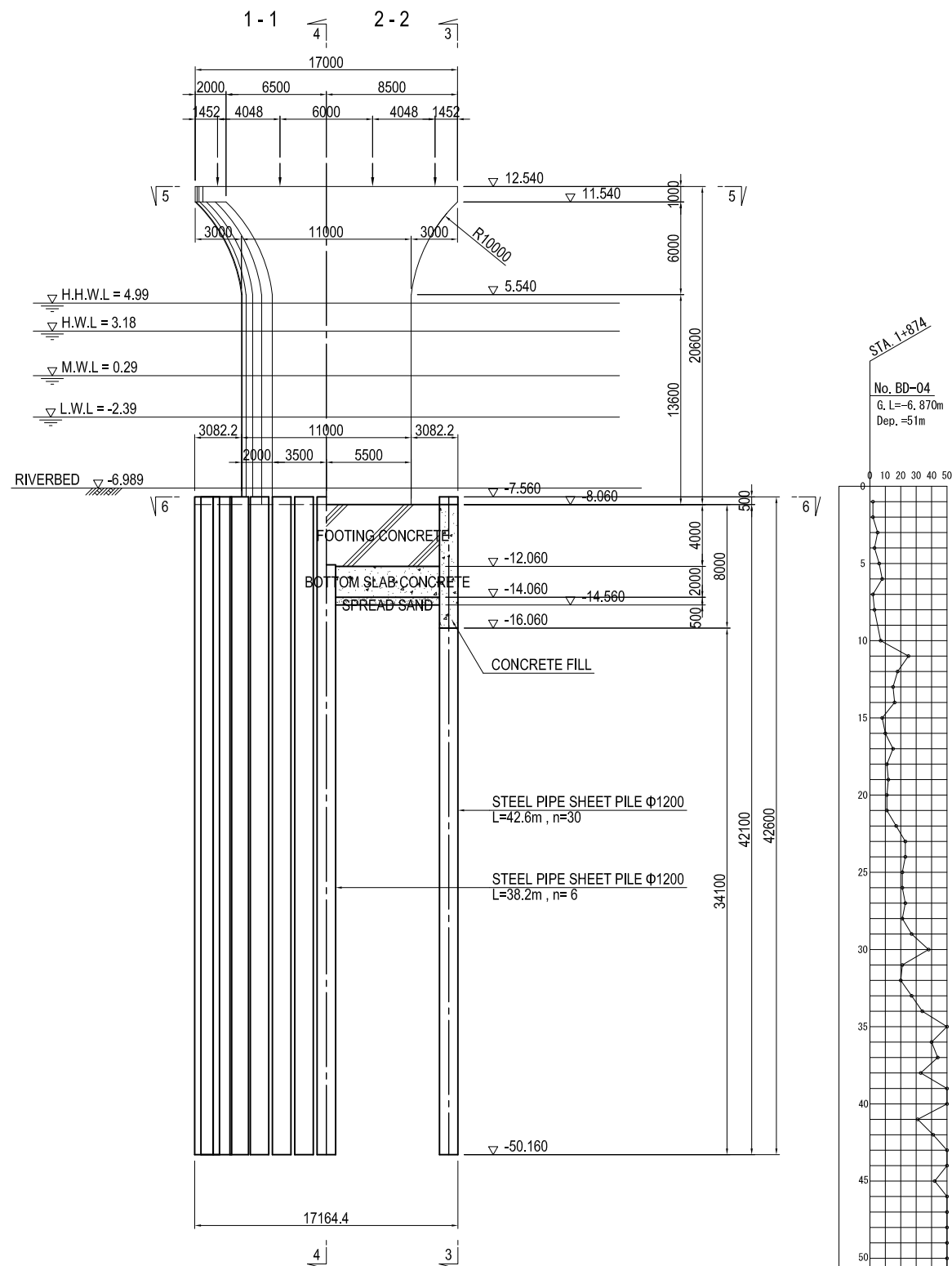
Note : This drawing can be used for reference only.

<p>PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT</p>	<p>FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE</p>	<p>JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.</p>	<p>NAME PREPARED BY CHECKED BY APPROVED BY</p>	<p>S. IMADA T. HAYAKAWA Y. SANO</p>	<p>SIGNATURE DATE DATE DATE</p>	<p>DRAWING TITLE (REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P17 PIER</p>	<p>PACKAGE 2 DWG No. P2-SB-2332</p>
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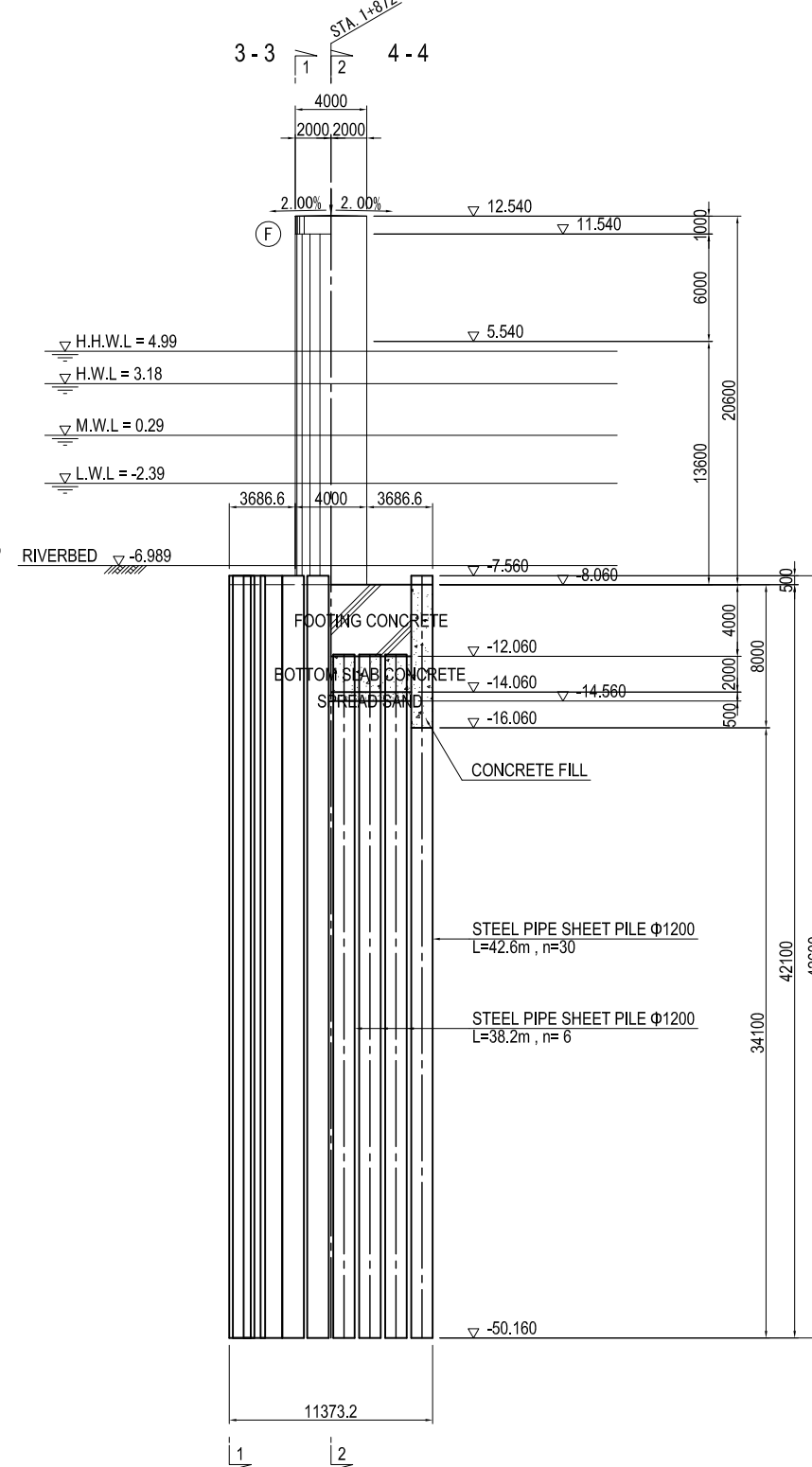
GENERAL VIEW OF P18 PIER (1)

S=1:400

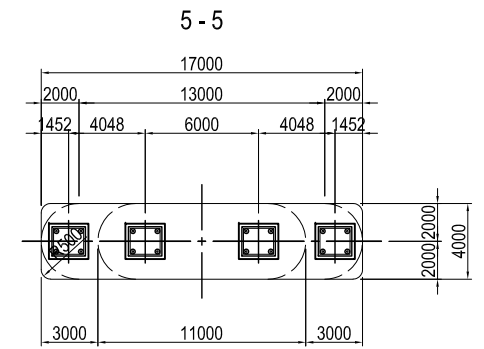
FRONT ELEVATION



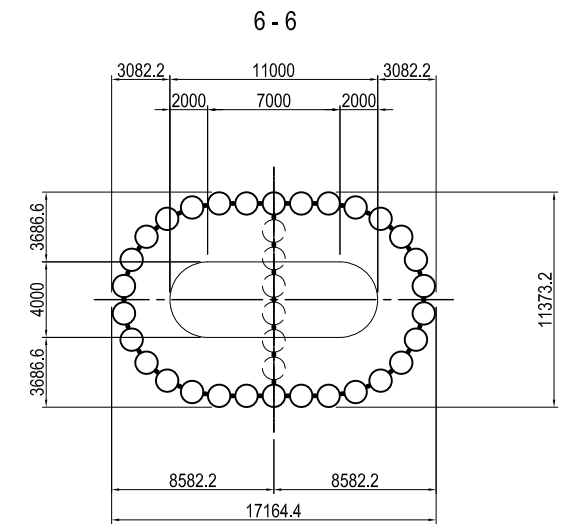
SIDE ELEVATION



PLAN



PLAN



USE MATERIALS

	CONCRETE	BAR
BEAM	$\sigma_{ck} = 30 \text{ N/mm}^2$	SD345
COLUMN	$\sigma_{ck} = 30 \text{ N/mm}^2$	SD390 • SD345
FOOTING	$\sigma_{ck} = 24 \text{ N/mm}^2$	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		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

DRAWING TITLE	PACKAGE
GENERAL VIEW OF P18 PIER (1)	2
	DWG No.
	P2-SB-2401

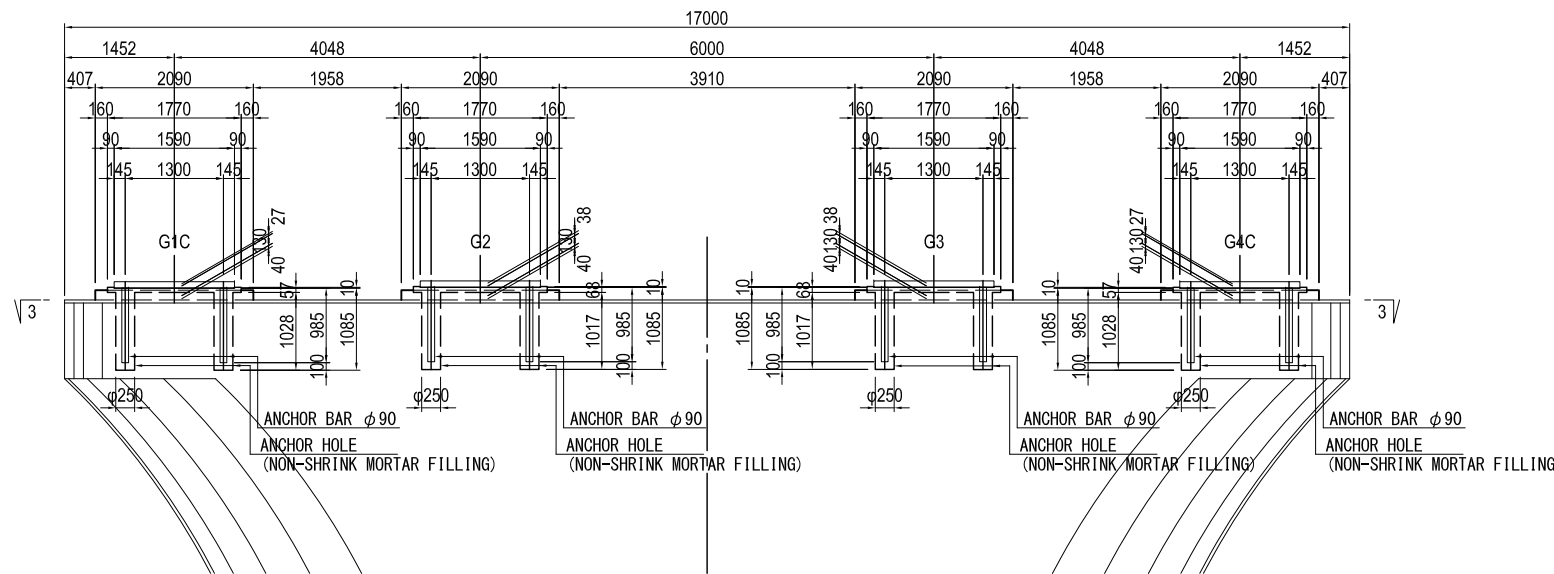
GENERAL VIEW OF P18 PIER (2)

S=1:100

DETAIL OF BEARING AND ANCHOR

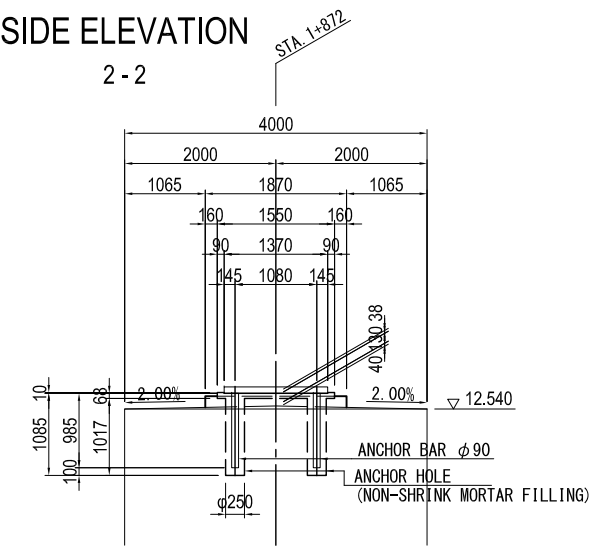
FRONT ELEVATION

1-1



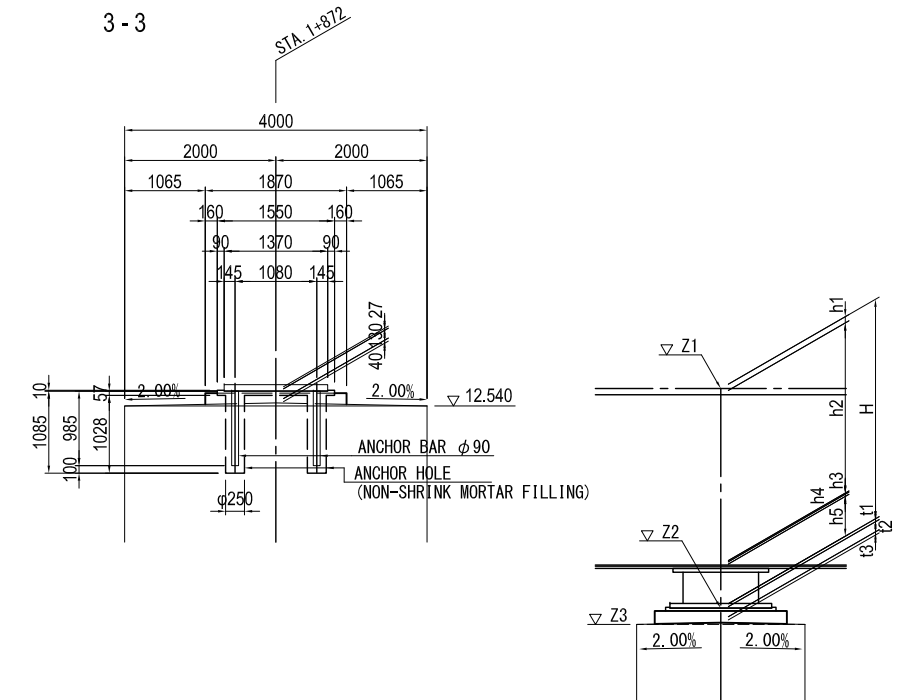
SIDE ELEVATION

2-2



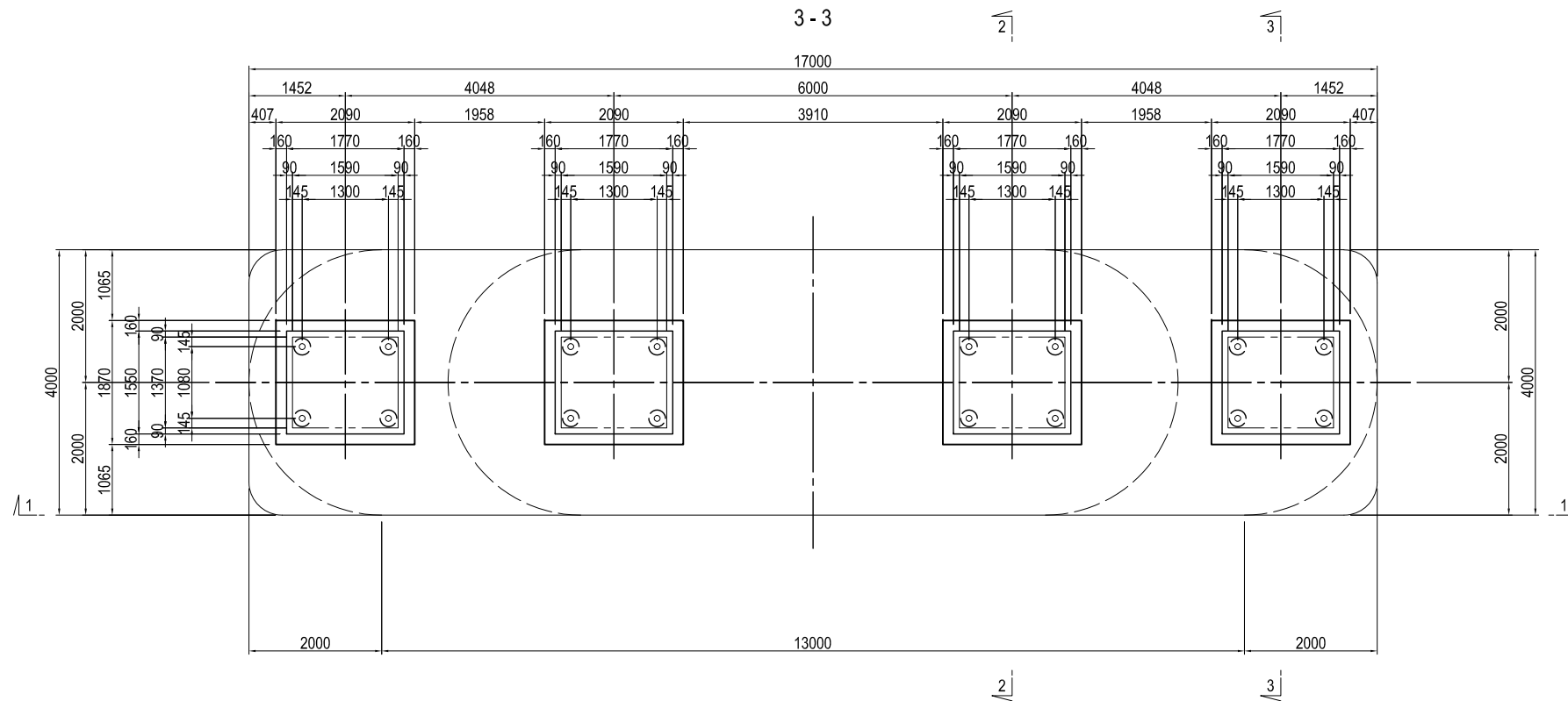
SIDE ELEVATION

3-3



PLAN

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

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	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

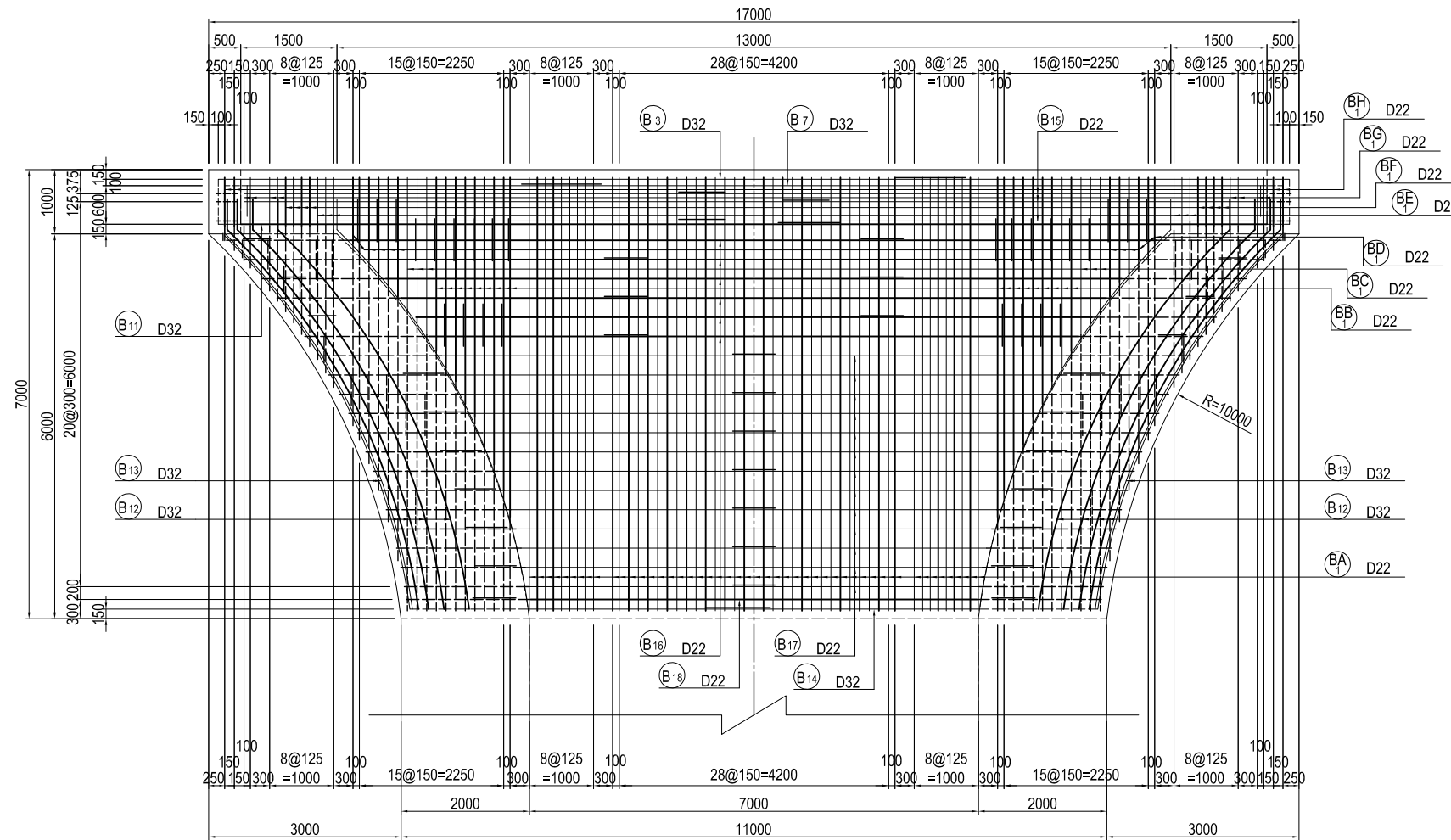
DRAWING TITLE
GENERAL VIEW OF P18 PIER (2)

PACKAGE
2
DWG No.
P2-SB-2402

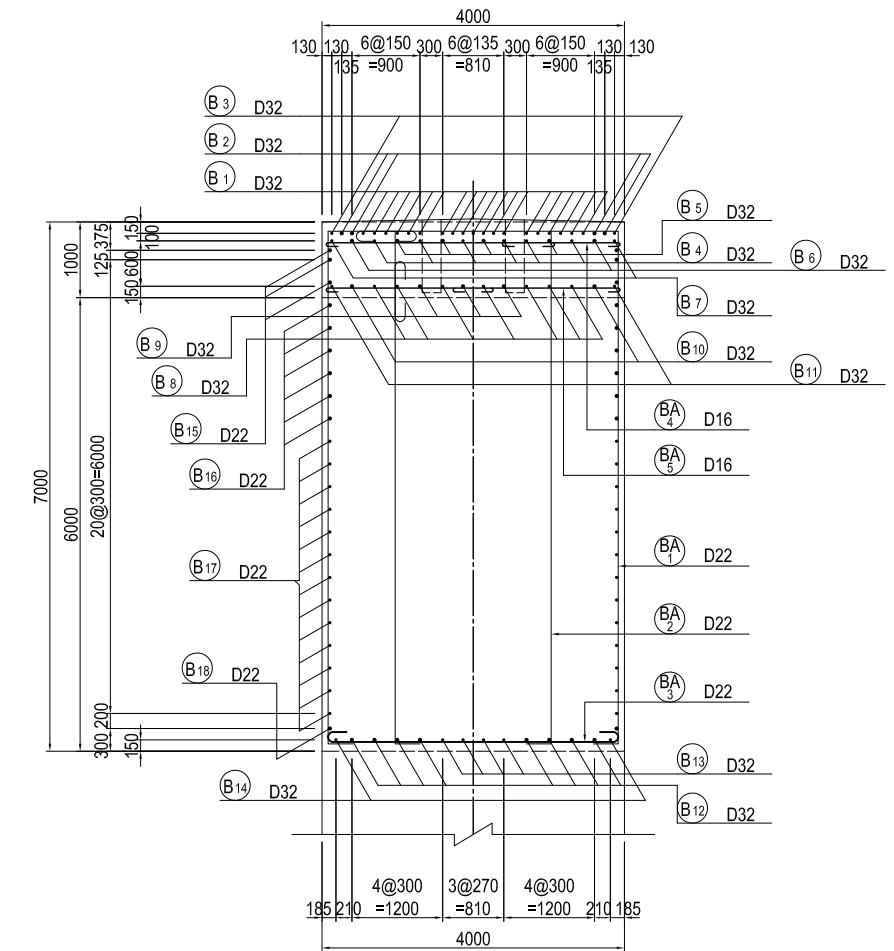
BAR ARRANGEMENT OF P18 PIER (1) S=1:100

BEAM

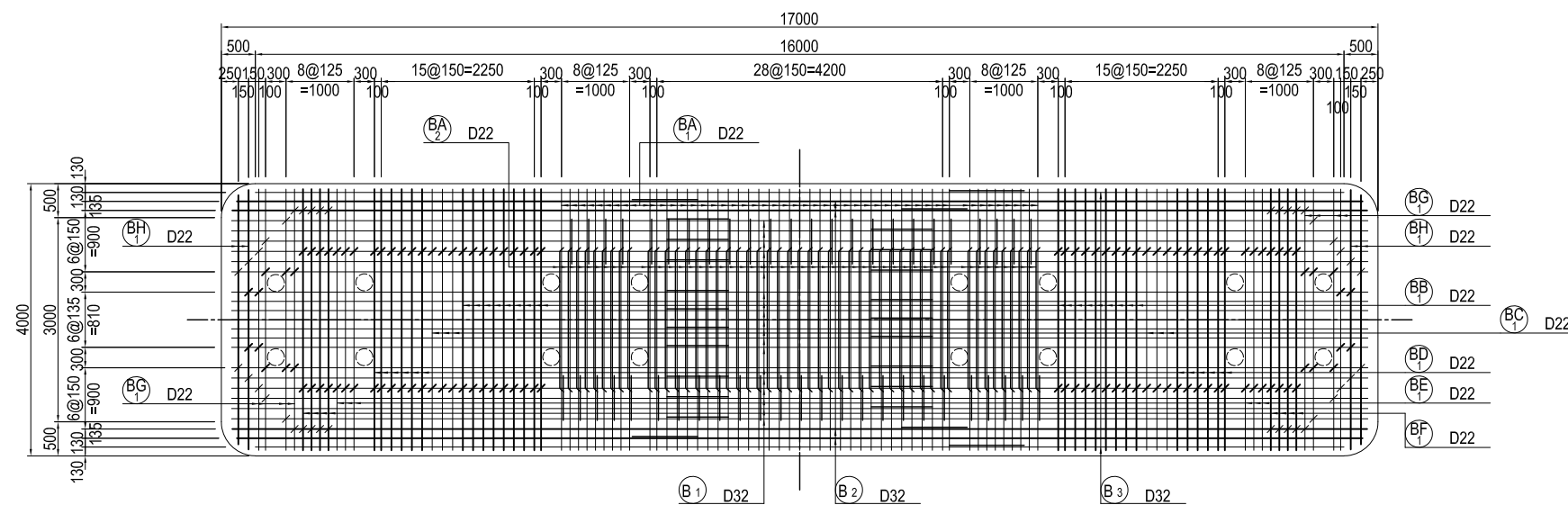
FRONT ELEVATION 1-1



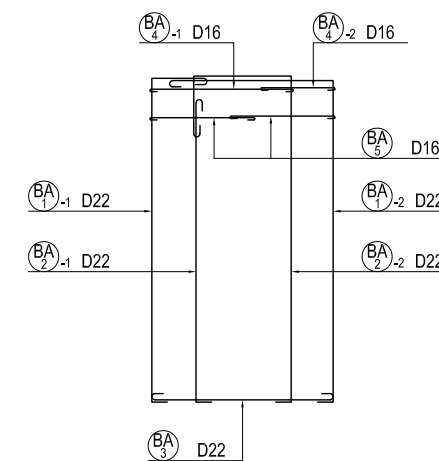
SECTION 3-3



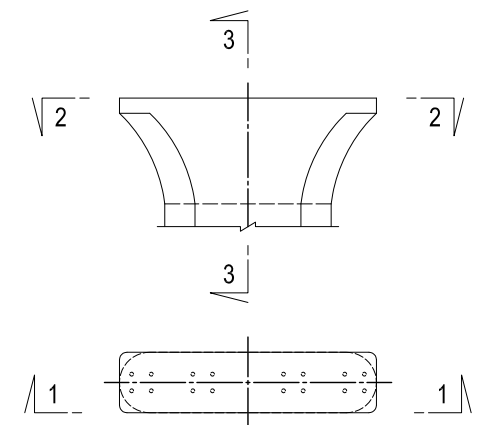
PLAN 2-2



ASSEMBLY DRAWING OF STIRRUP



MARKING DIAGRAM

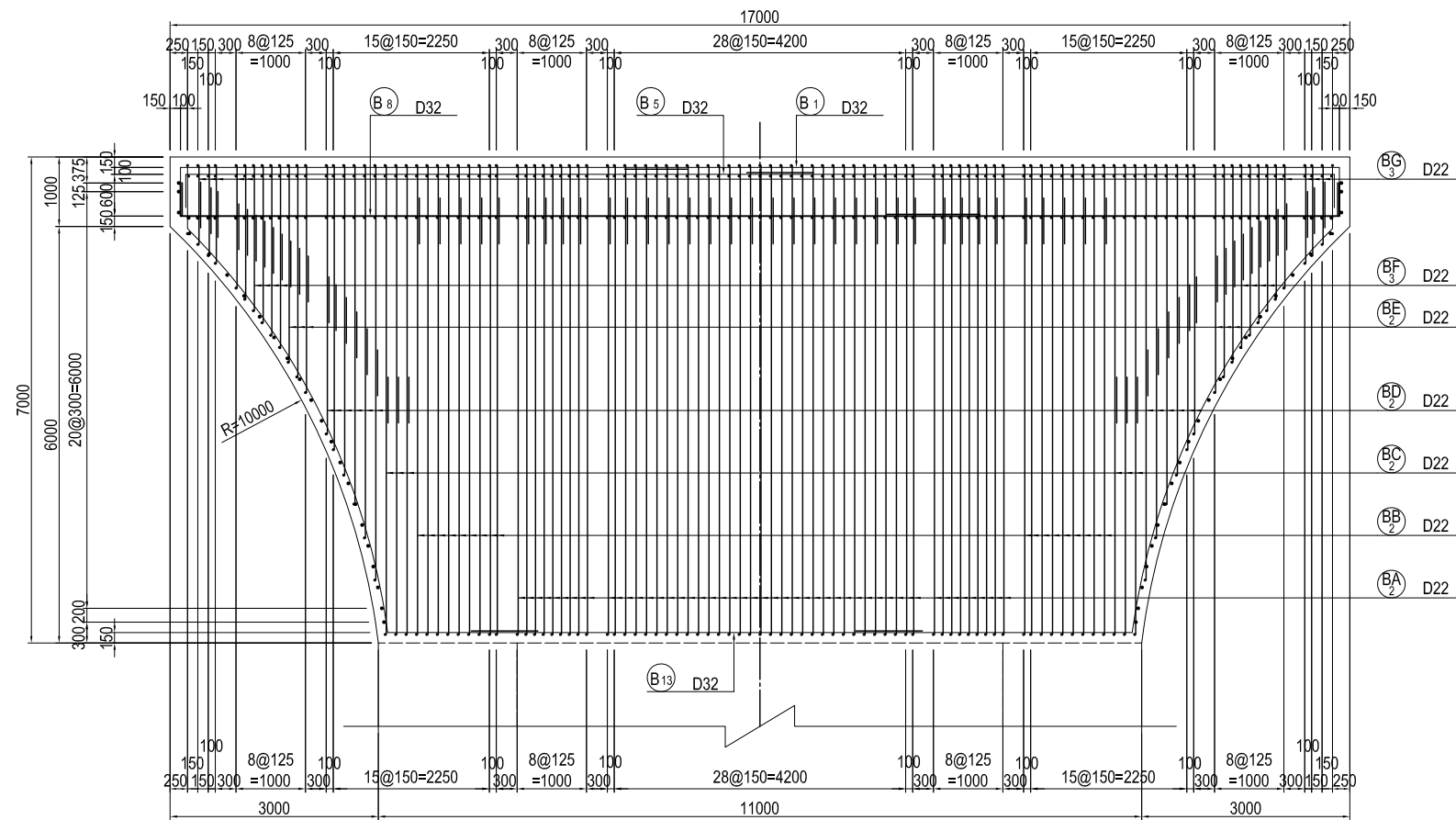


USE MATERIALS

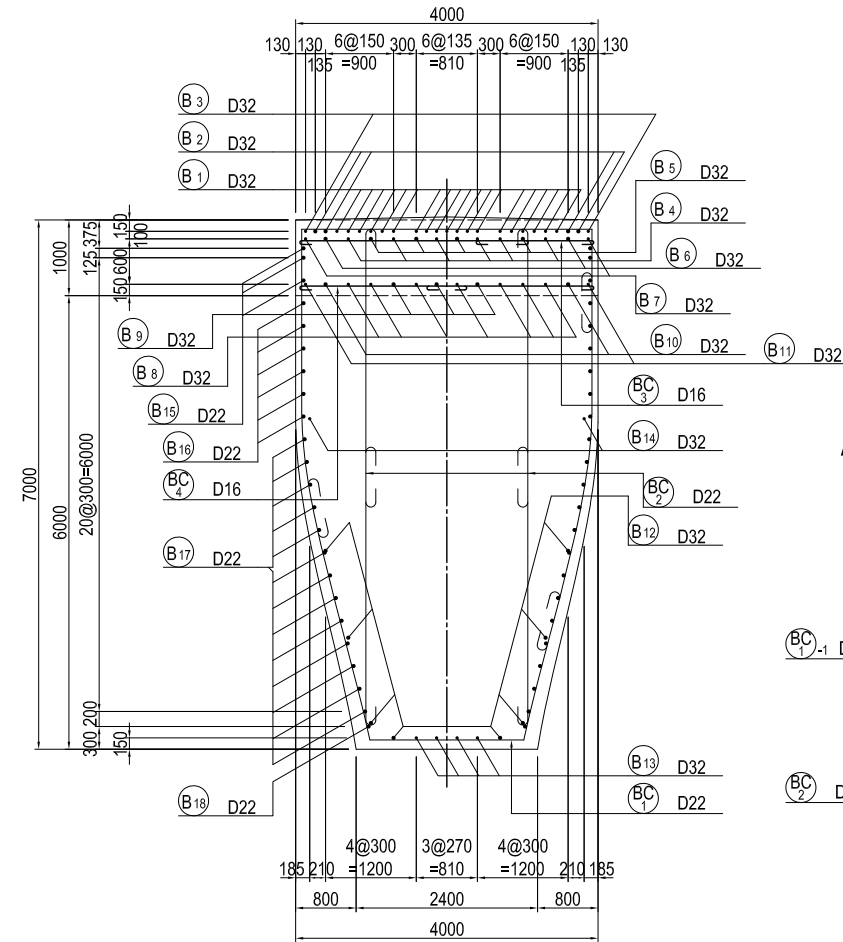
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BEAM	σck = 30 N/mm ²	SD345

BAR ARRANGEMENT OF P18 PIER (2) S=1:100 BEAM

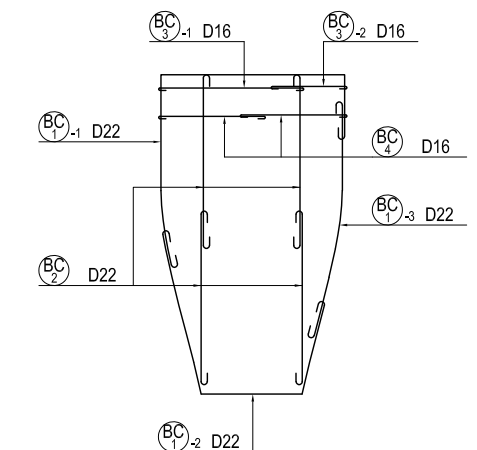
SECTION 4-4



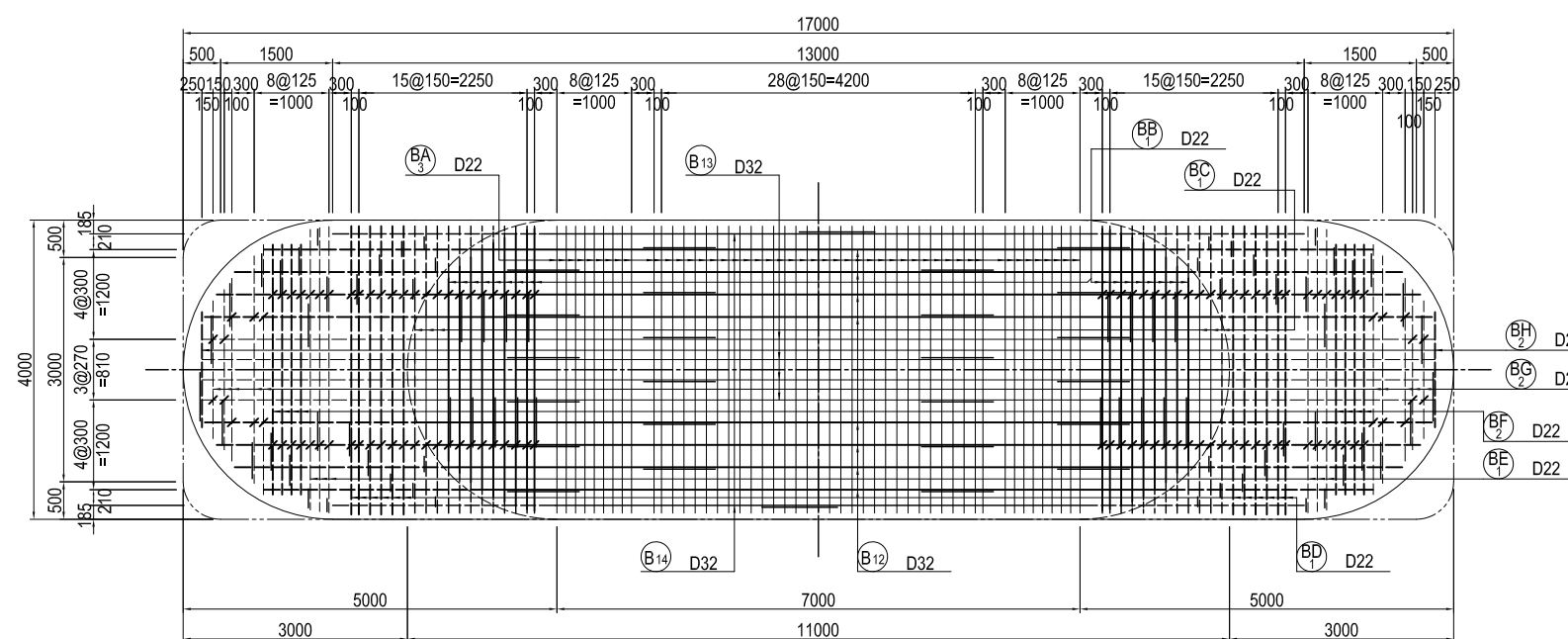
SECTION 7-7



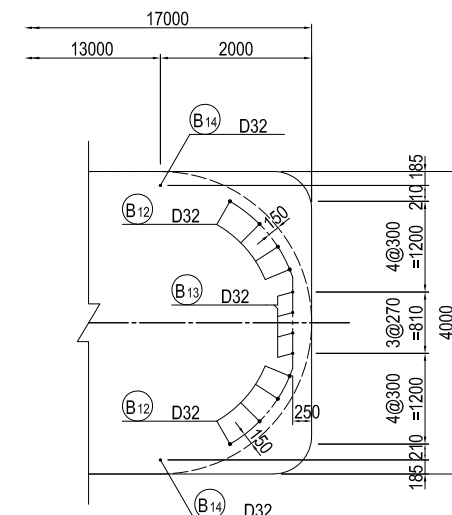
ASSEMBLY DRAWING OF STIRRUP



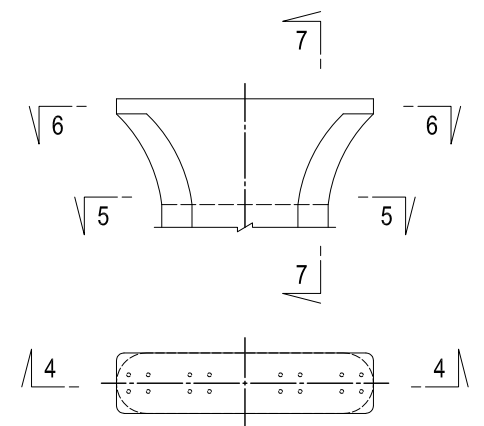
PLAN 5-5



PLAN 6-6



MARKING DIAGRAM



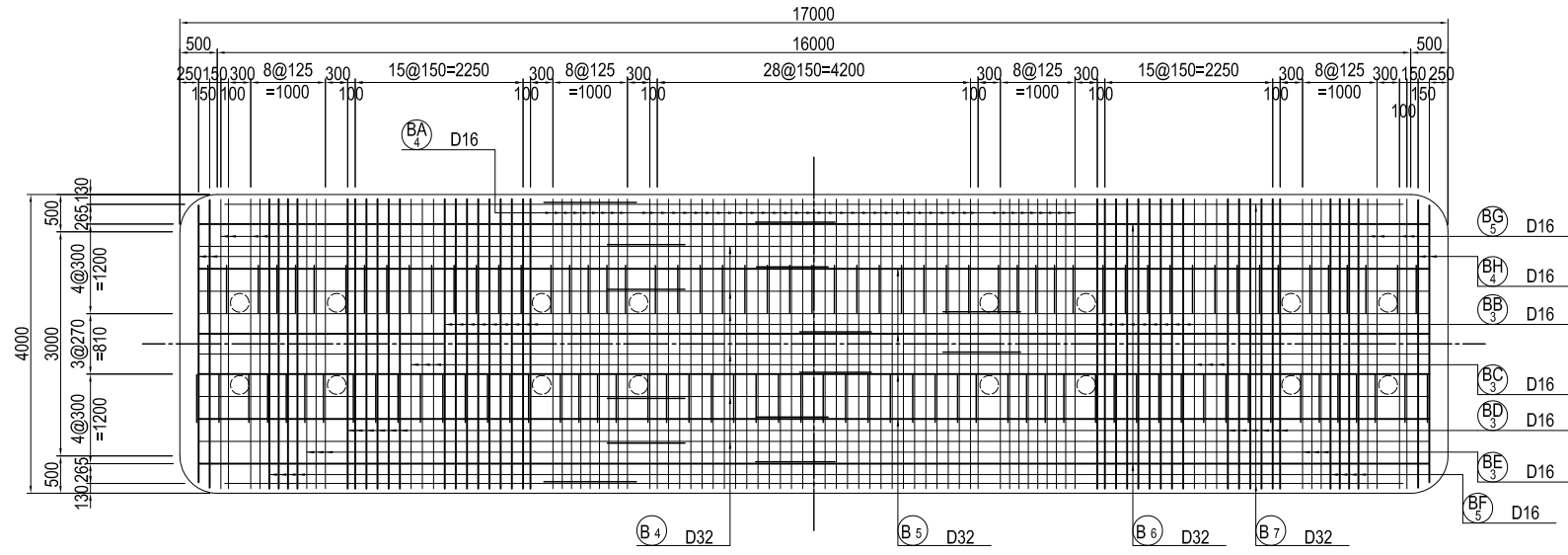
USE MATERIALS

	CONCRETE	BAR
BEAM	σ _{ck} = 30 N/mm ²	SD345

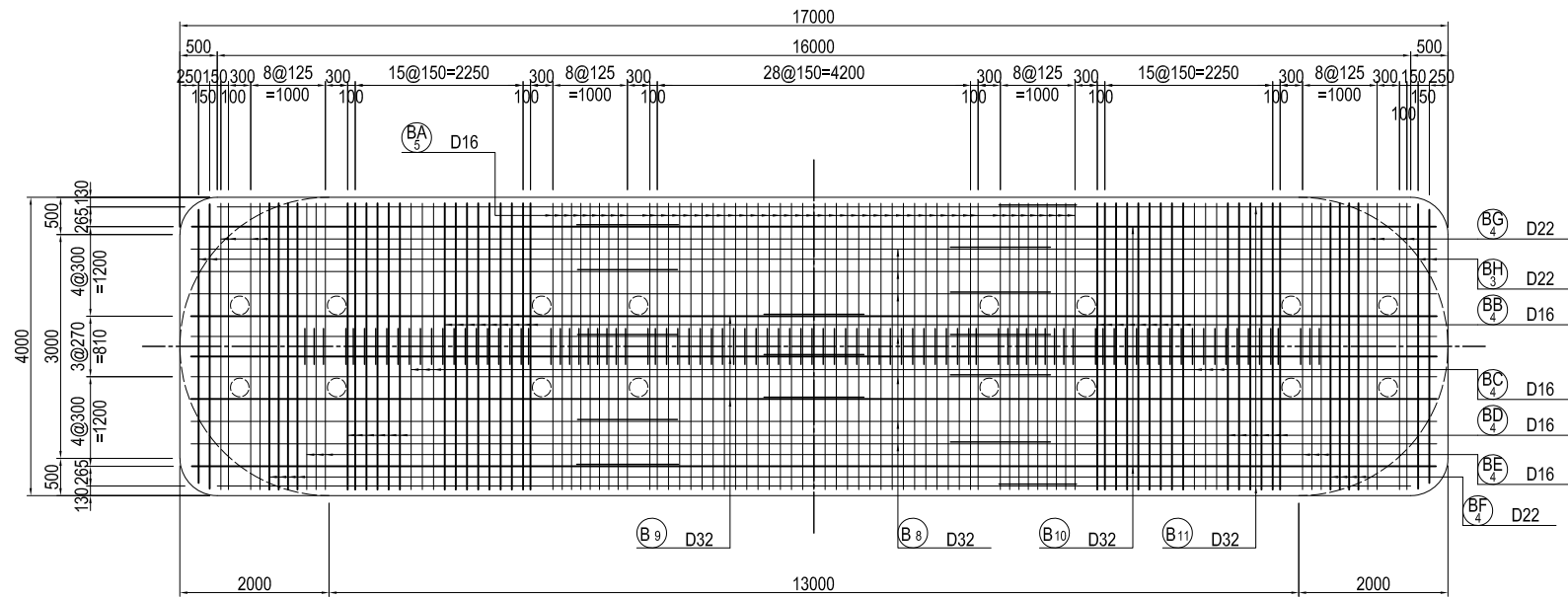
BAR ARRANGEMENT OF P18 PIER (3) S=1:100

BEAM

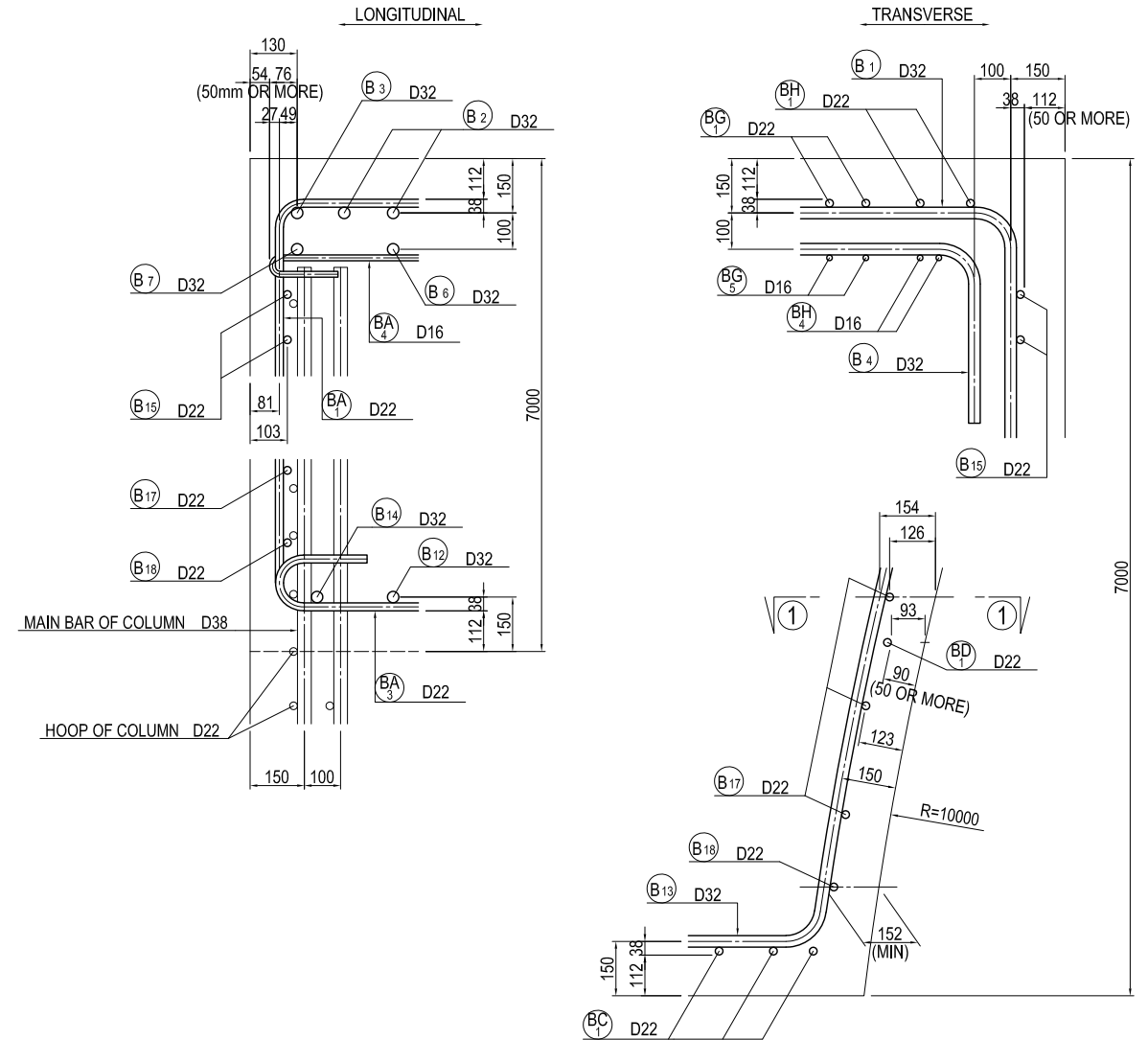
**PLAN
8-8**



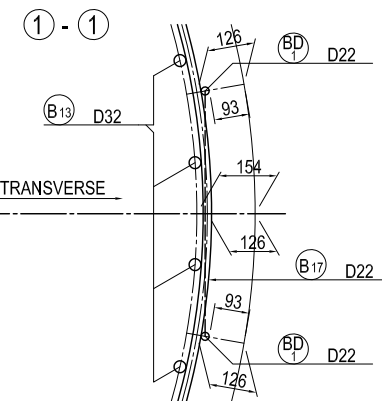
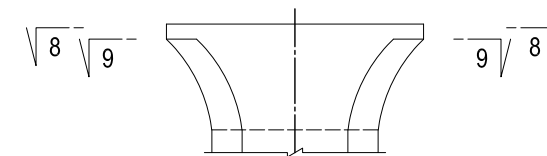
**PLAN
9-9**



DETAIL OF BEAM S=1:20



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
BEAM	σ _{ck} = 30 N/mm ²	SD345

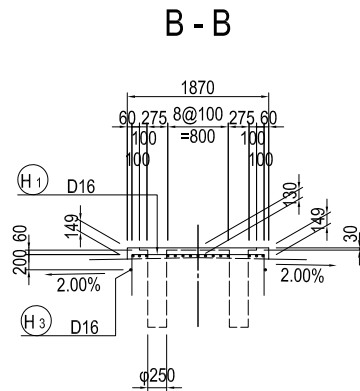
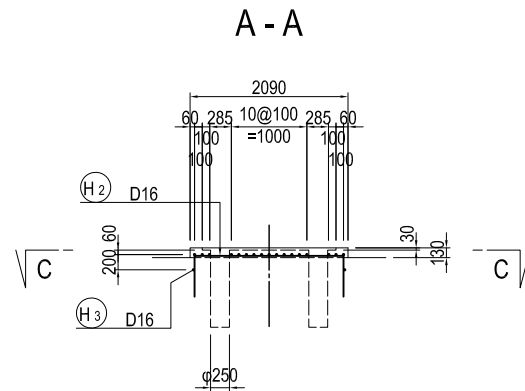
BAR ARRANGEMENT OF P18 PIER (4) S=1:100

BEAM

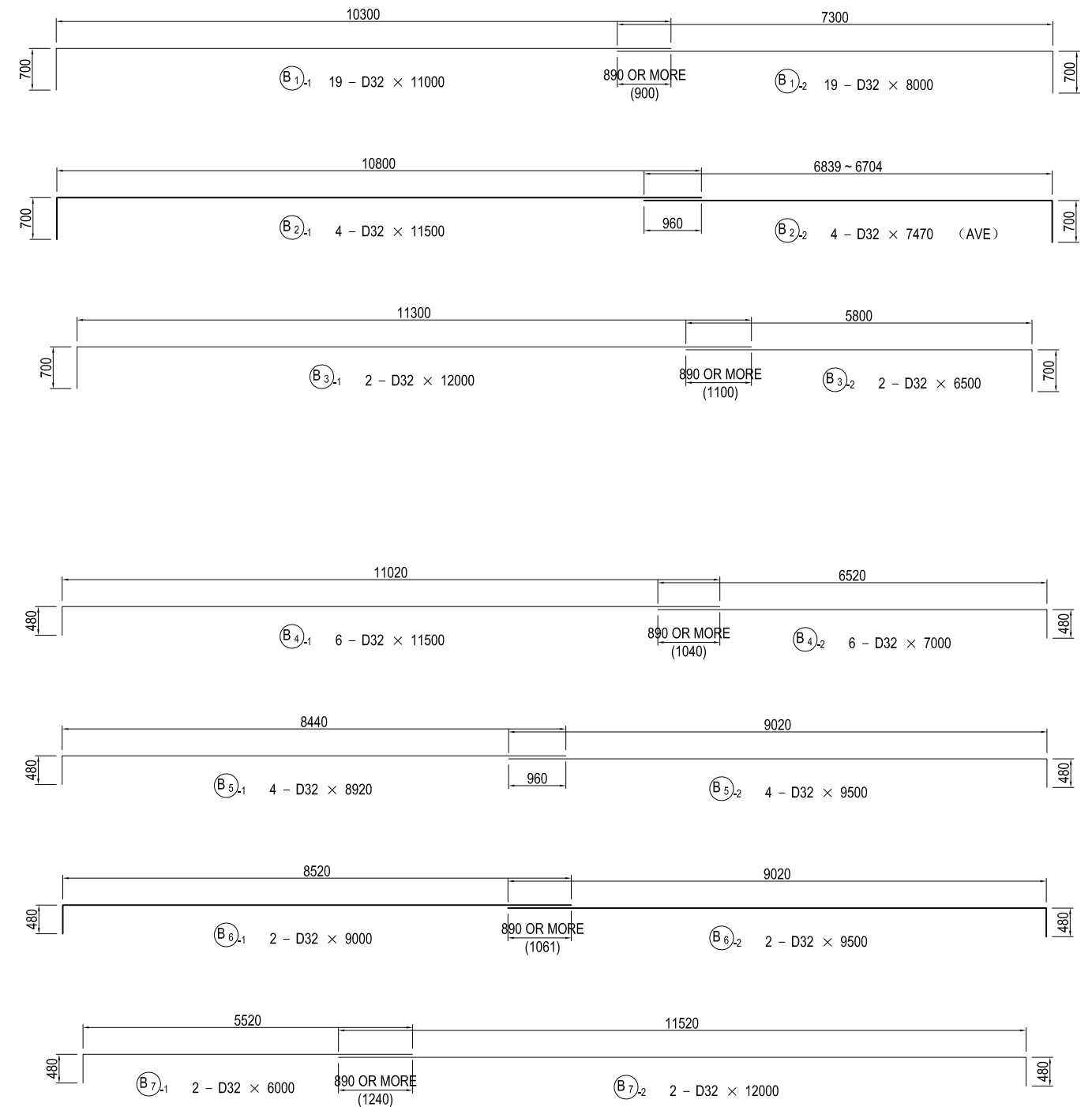
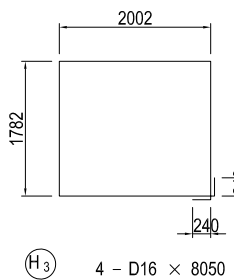
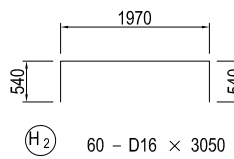
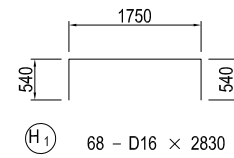
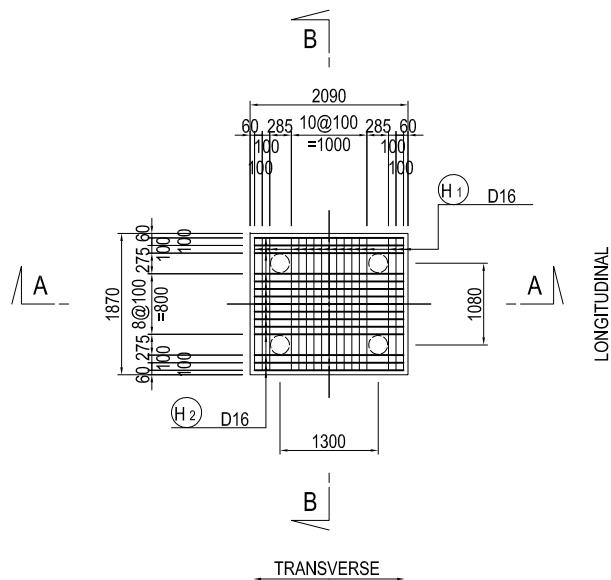
BAR ARRANGEMENT OF BEARING BASE

(N = 4)

SECTION



PLAN C-C

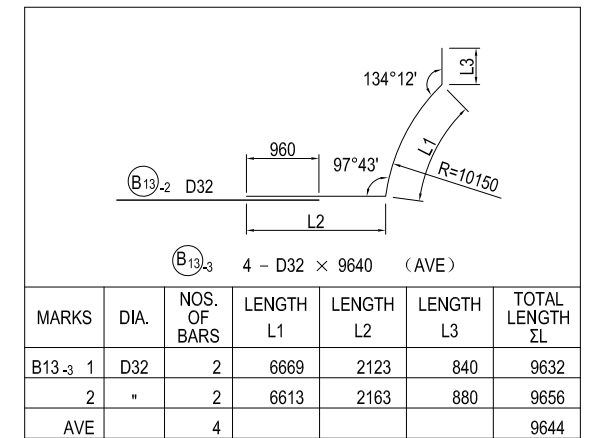
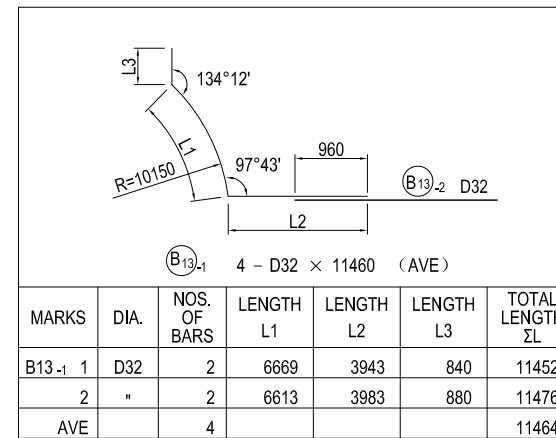
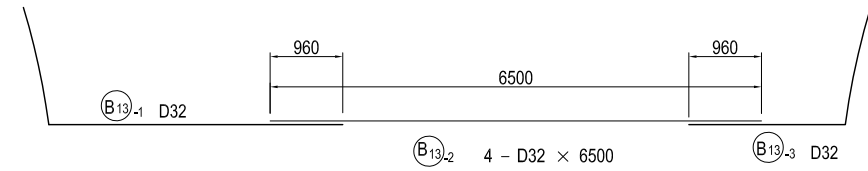
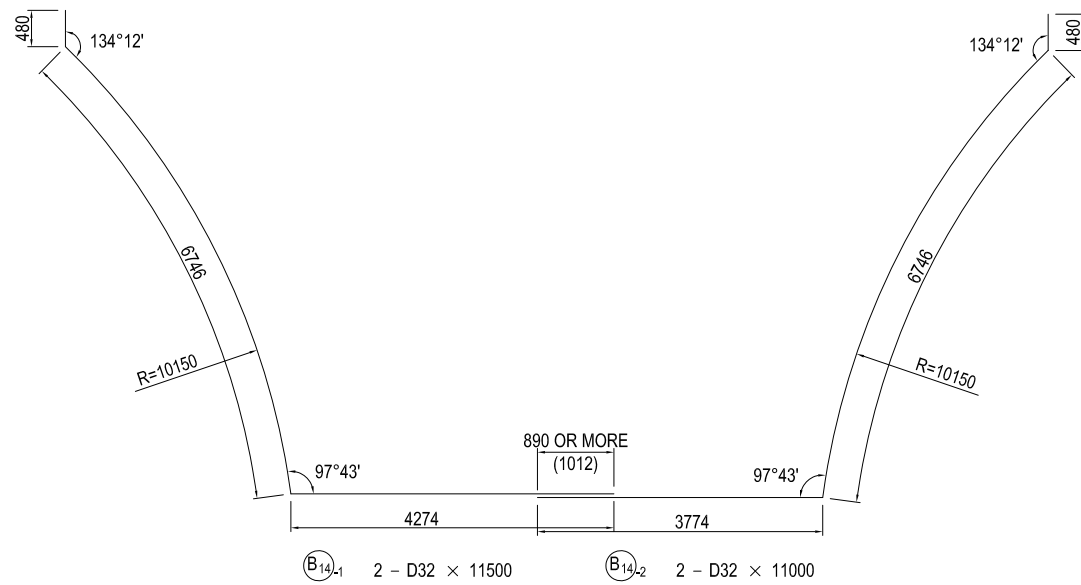
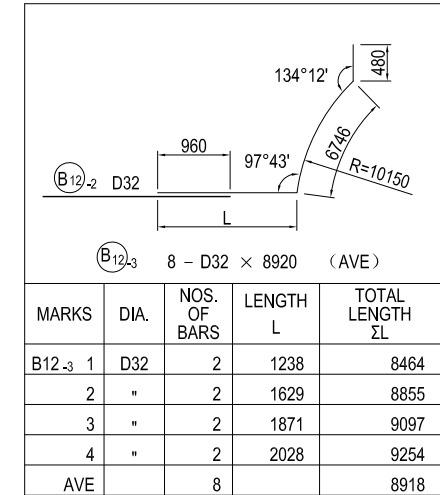
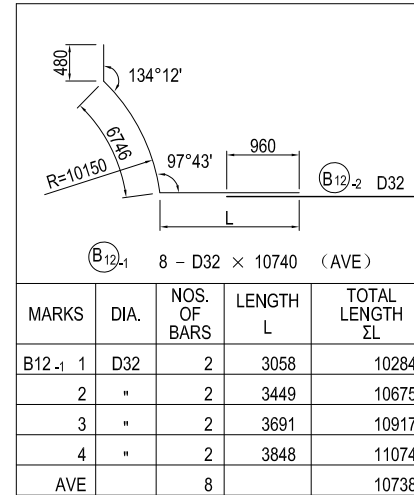
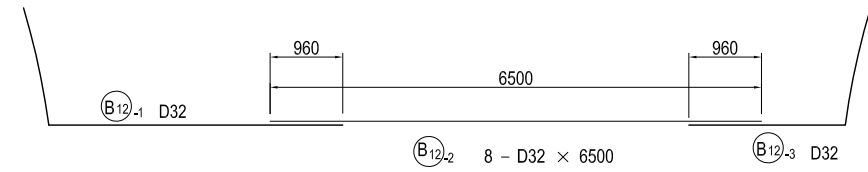
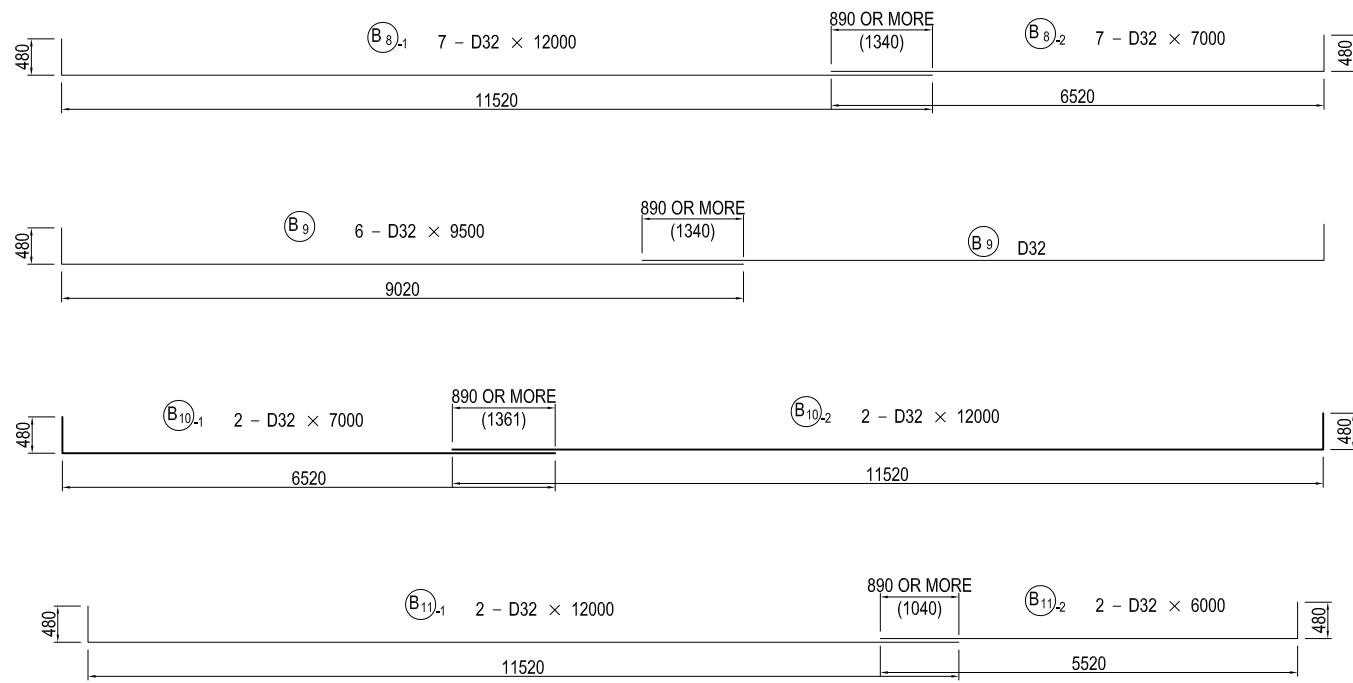


USE MATERIALS

	CONCRETE	BAR
BEAM	σ _{ck} = 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.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> <tr> <td>PREPARED BY</td> <td>S. IMADA</td> <td>27 Nov.2017</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>28 Nov.2017</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>29 Nov.2017</td> </tr> </table>	NAME	SIGNATURE	DATE	PREPARED BY	S. IMADA	27 Nov.2017	CHECKED BY	T. HAYAKAWA	28 Nov.2017	APPROVED BY	Y. SANO	29 Nov.2017	DRAWING TITLE <h3 style="text-align: center;">BAR ARRANGEMENT OF P18 PIER (4)</h3>	PACKAGE 2 DWG No. P2-SB-2406
NAME	SIGNATURE	DATE																
PREPARED BY	S. IMADA	27 Nov.2017																
CHECKED BY	T. HAYAKAWA	28 Nov.2017																
APPROVED BY	Y. SANO	29 Nov.2017																

BAR ARRANGEMENT OF P18 PIER (5) S=1:100 BEAM

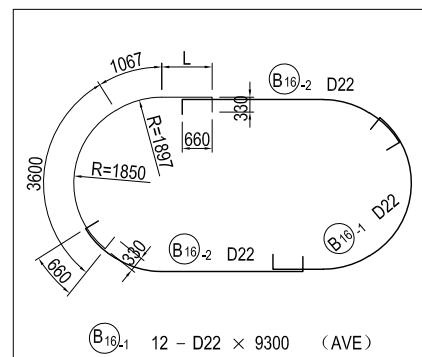
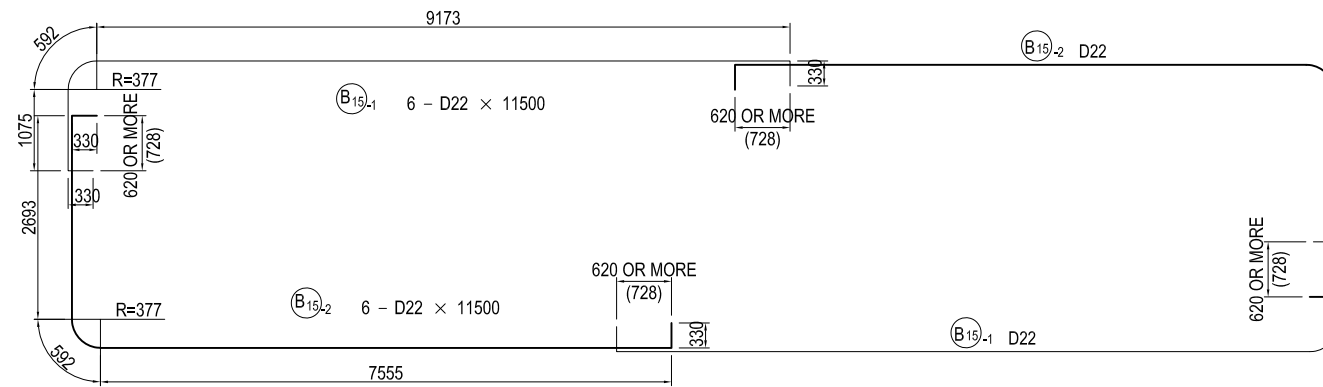


USE MATERIALS

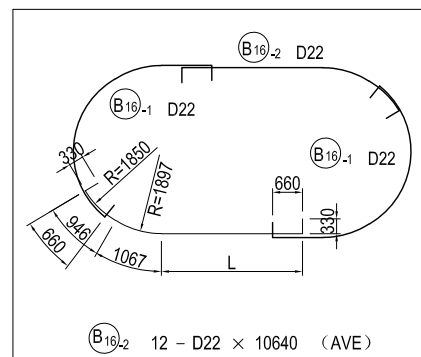
	CONCRETE	BAR
BEAM	σ _{ck} = 30 N/mm ²	SD345

BAR ARRANGEMENT OF P18 PIER (6) S=1:100

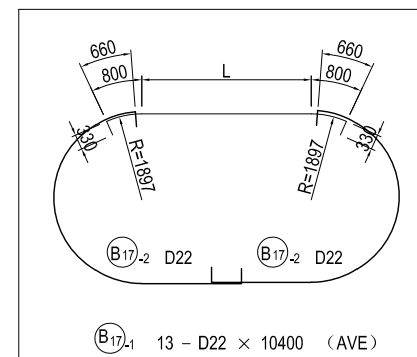
BEAM



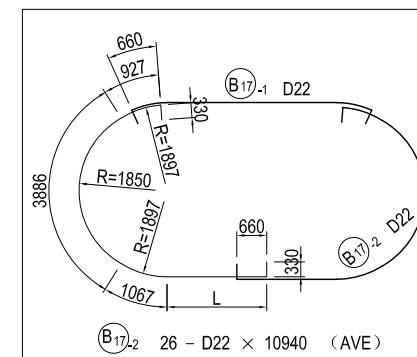
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-1 1	D22	2	4612	9939
2	"	2	4328	9655
3	"	2	4065	9392
4	"	2	3823	9150
5	"	2	3598	8925
6	"	2	3391	8718
AVE		12		9297



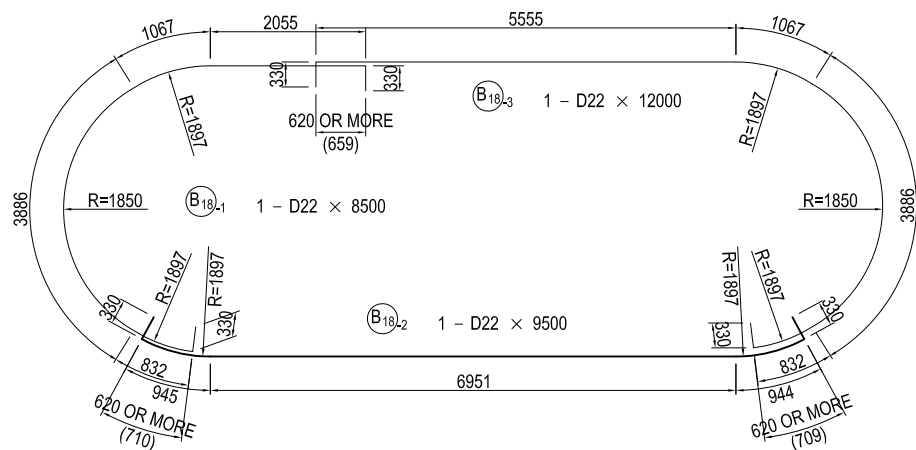
MARKS	DIA.	NOS. OF BARS	LENGTH L	TOTAL LENGTH ΣL
B16-2 1	D22	2	8612	11285
2	"	2	8328	11001
3	"	2	8065	10738
4	"	2	7823	10496
5	"	2	7598	10271
6	"	2	7391	10064
AVE		12		10643



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



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	σ _{ck} = 30 N/mm ²	SD345

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

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DEPARTMENT OF BRIDGE

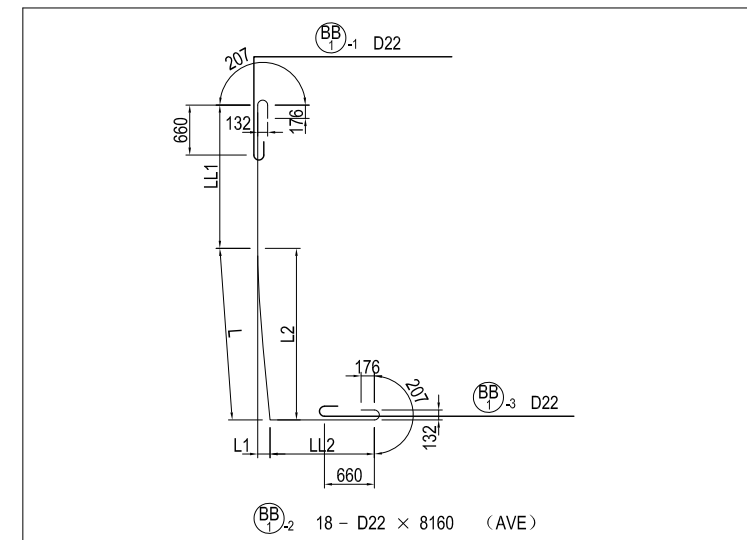
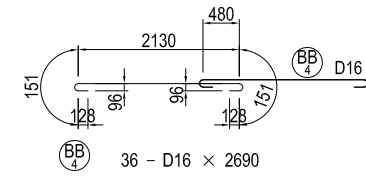
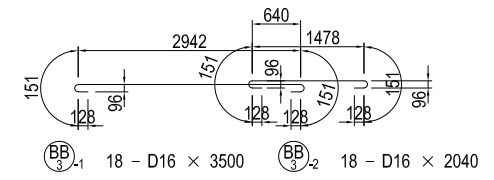
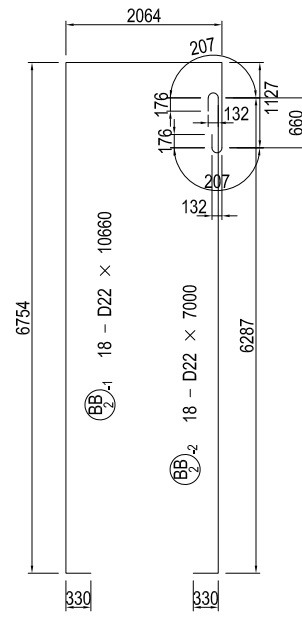
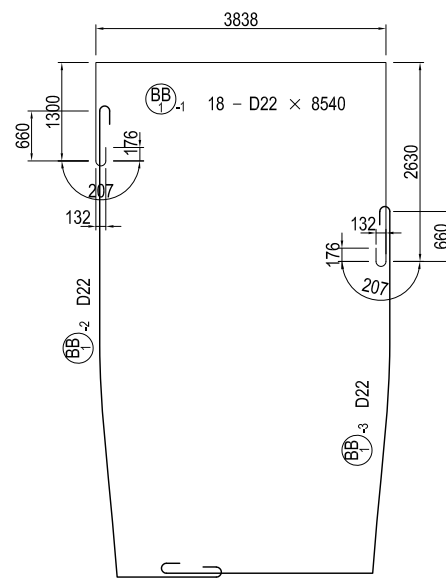
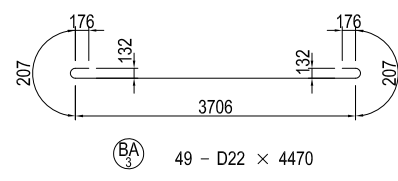
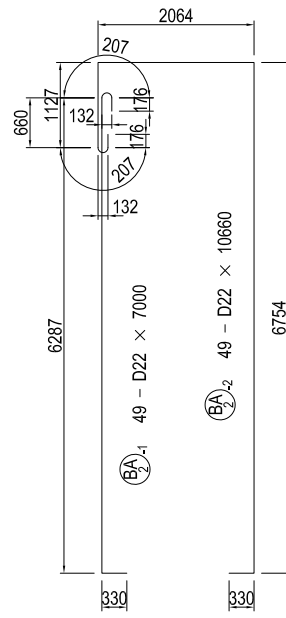
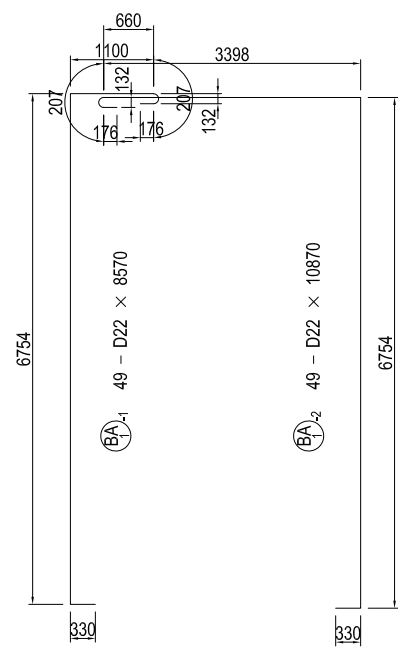
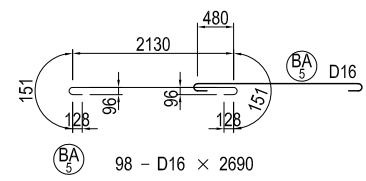
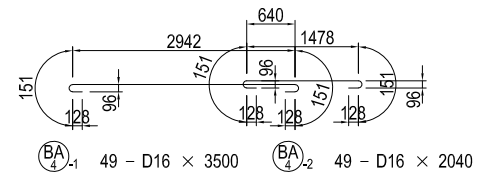
JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

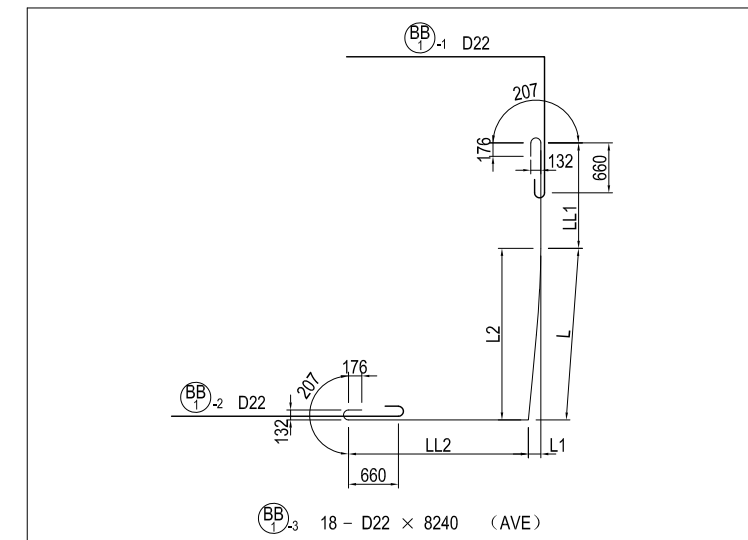
DRAWING TITLE
BAR ARRANGEMENT OF P18 PIER (6)

PACKAGE
2
DWG No.
P2-SB-2408

BAR ARRANGEMENT OF P18 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

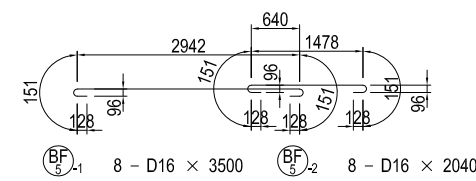
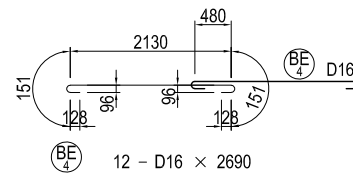
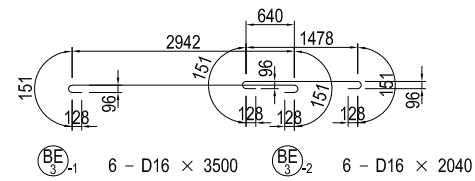


MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	LENGTH L2	LENGTH LL1	LENGTH LL2	TOTAL LENGTH ΣL
BB1-3 1	D22	2	1464	33	1464	3320	2921	8471
2	"	2	1892	54	1891	2893	2900	8451
3	"	2	2282	97	2280	2504	2857	8409
4	"	2	2606	155	2601	2183	2799	8354
5	"	2	3029	227	3020	1764	2727	8286
6	"	2	3241	315	3225	1559	2639	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

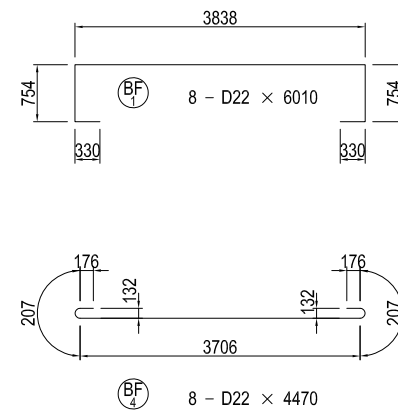
	CONCRETE	BAR
BEAM	σ _{ck} = 30 N/mm ²	SD345

BAR ARRANGEMENT OF P18 PIER (9) S=1:100 BEAM



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



BF₃ D22

BF₄ 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

BE₂ 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

BE 24 - D22 × 2280 (AVE)

MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BE2 1	D22	8	1611	2561	2377
2	"	8	1514	2368	2280
3	"	8	1423	2185	2189
AVE		24			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

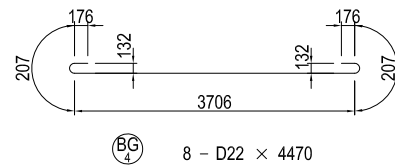
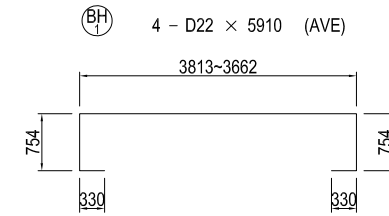
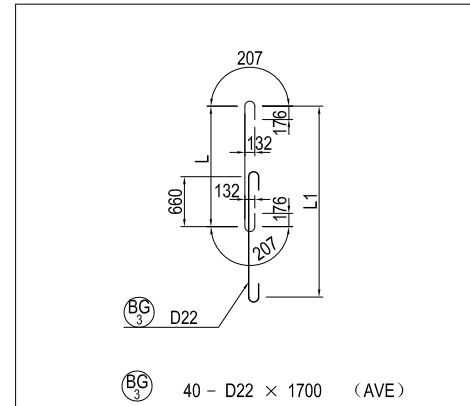
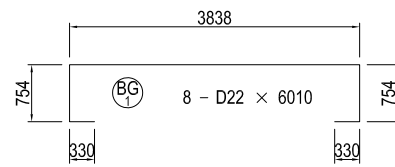
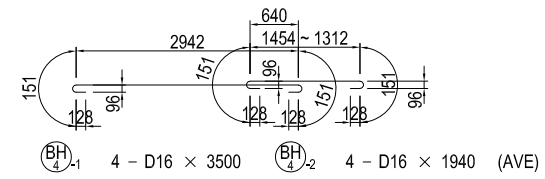
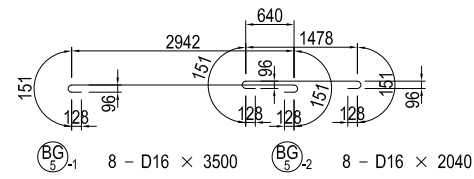
BF₂₋₂ 8 - D22 × 2790 (AVE)

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

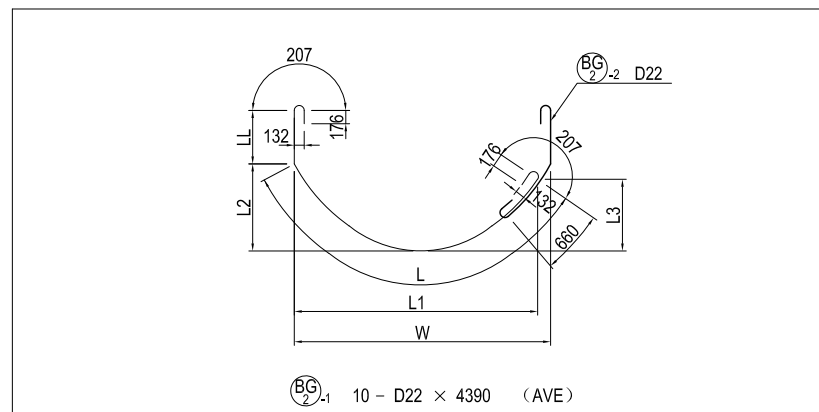
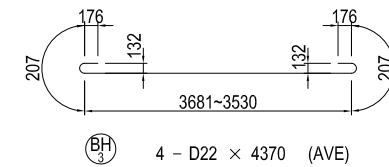
USE MATERIALS

	CONCRETE	BAR
BEAM	σ _{ck} = 30 N/mm ²	SD345

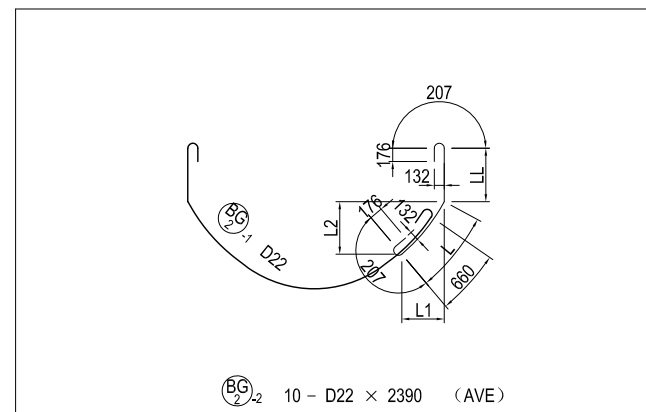
BAR ARRANGEMENT OF P18 PIER (10) S=1:100 BEAM



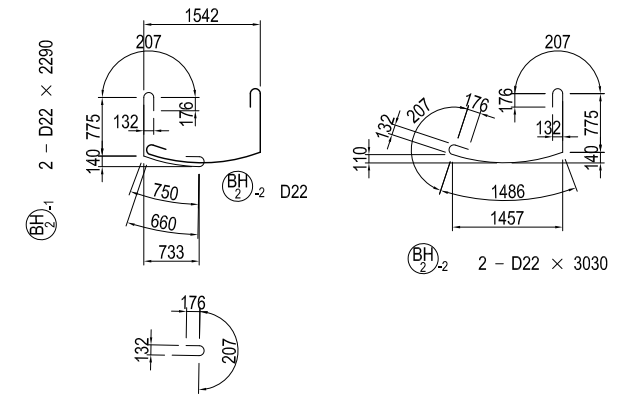
MARKS	DIA.	NOS. OF BARS	LENGTH L	LENGTH L1	TOTAL LENGTH ΣL
BG3 1	D22	8	1113	1565	1879
2	"	8	1038	1415	1804
3	"	8	869	1077	1635
4	"	8	866	1071	1632
5	"	8	787	914	1553
AVE		40			1701



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



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



USE MATERIALS

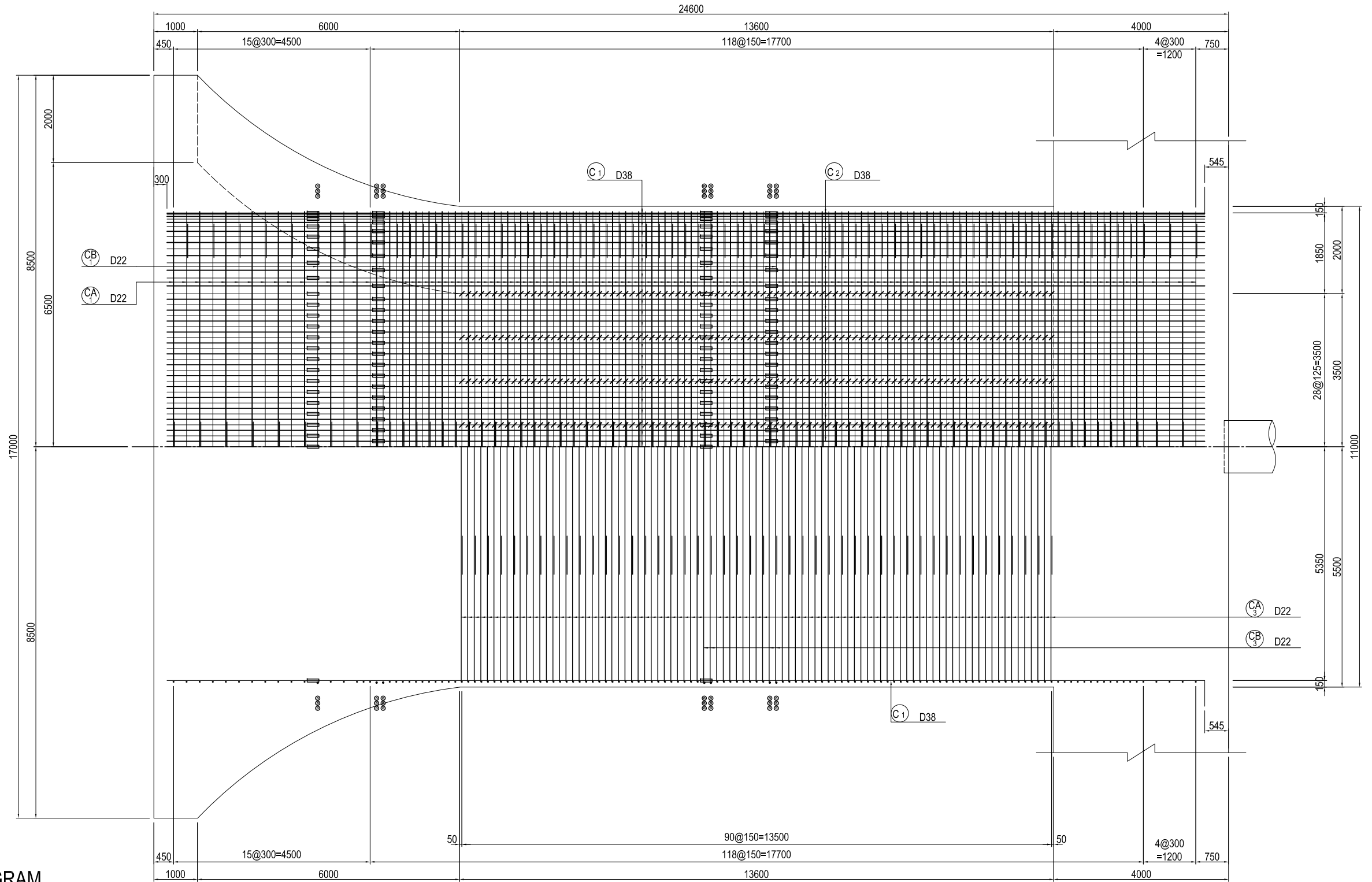
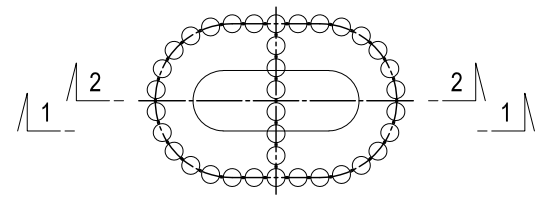
	CONCRETE	BAR
BEAM	σ _{ck} = 30 N/mm ²	SD345

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

COLUMN	CONCRETE $\sigma_{ck} = 30 \text{ N/mm}^2$	BAR	
		MAIN BAR	OTHERS
		SD390	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.

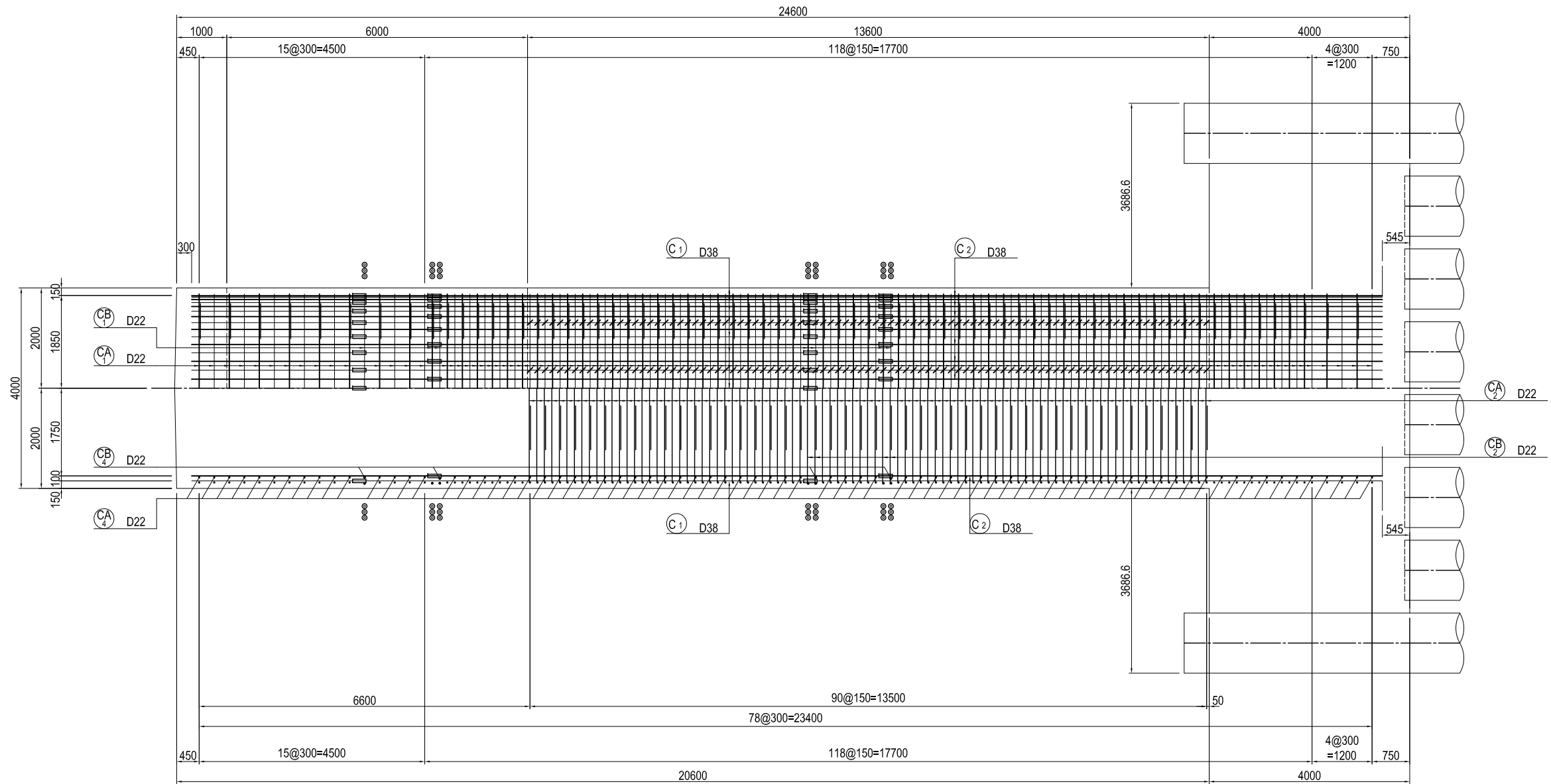
	NAME	SIGNATURE	DATE
PREPARED BY	S. IMADA		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

DRAWING TITLE
BAR ARRANGEMENT OF P18 PIER (11)

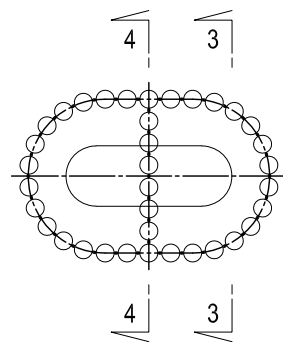
PACKAGE
2
DWG No.
P2-SB-2413

BAR ARRANGEMENT OF P18 PIER (12) S=1:100 COLUMN

SECTION SIDE ELEVATION
4-4 3-3



MARKING DIAGRAM



Notes) 1. : This mark indicates hoop arranged in the location of mechanical joint.
2. : This mark indicates a mechanical joint.

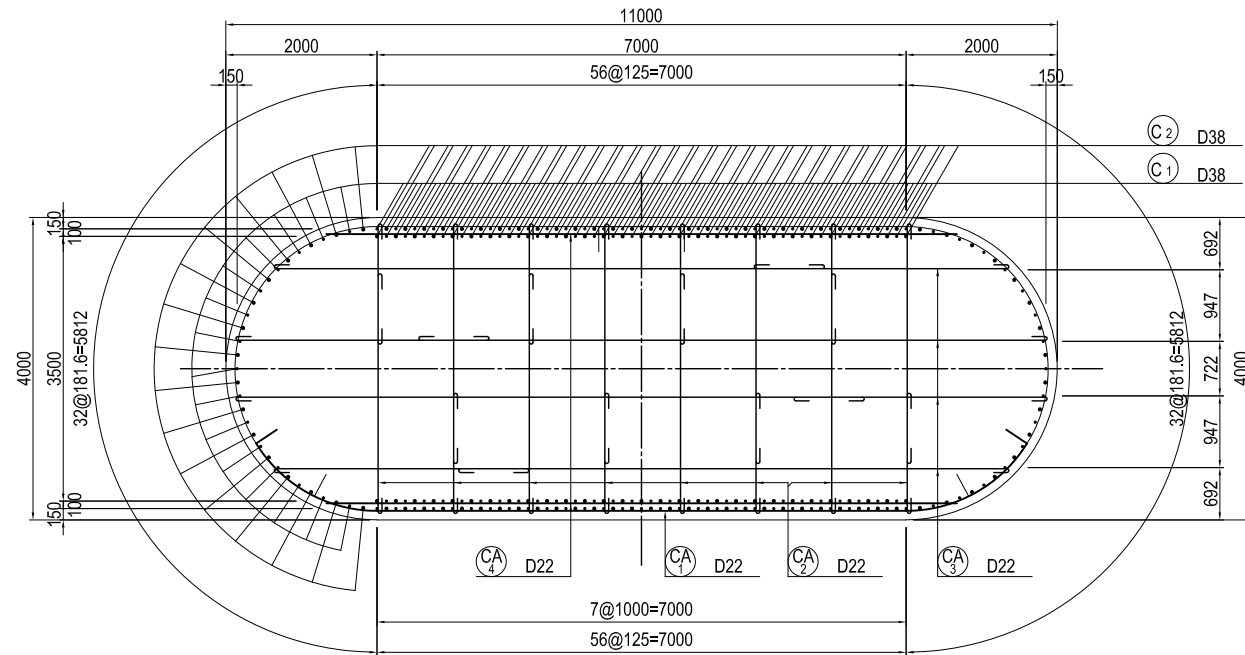
USE MATERIALS

COLUMN	CONCRETE $\sigma_{ck} = 30 \text{ N/mm}^2$	BAR	
		MAIN BAR	OTHERS
		SD390	SD345

<small>PROJECT NAME</small> DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	<small>FINANCED BY</small> JAPAN INTERNATIONAL COOPERATION AGENCY	<small>COUNTERPART</small> REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	<small>JICA STUDY TEAM</small> NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> <tr> <td>PREPARED BY S. IMADA</td> <td></td> <td>27 Nov.2017</td> </tr> <tr> <td>CHECKED BY T. HAYAKAWA</td> <td></td> <td>28 Nov.2017</td> </tr> <tr> <td>APPROVED BY Y. SANO</td> <td></td> <td>29 Nov.2017</td> </tr> </table>	NAME	SIGNATURE	DATE	PREPARED BY S. IMADA		27 Nov.2017	CHECKED BY T. HAYAKAWA		28 Nov.2017	APPROVED BY Y. SANO		29 Nov.2017	<small>DRAWING TITLE</small> BAR ARRANGEMENT OF P18 PIER (12)	<small>PACKAGE</small> 2 <small>DWG No.</small> P2-SB-2414
NAME	SIGNATURE	DATE																
PREPARED BY S. IMADA		27 Nov.2017																
CHECKED BY T. HAYAKAWA		28 Nov.2017																
APPROVED BY Y. SANO		29 Nov.2017																

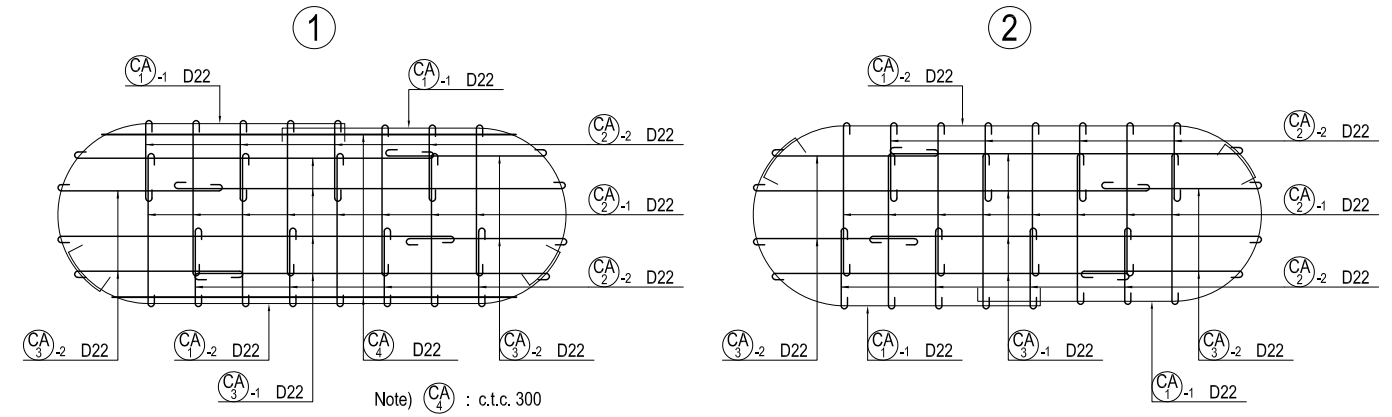
BAR ARRANGEMENT OF P18 PIER (13) S=1:100 COLUMN

**PLAN
5-5**

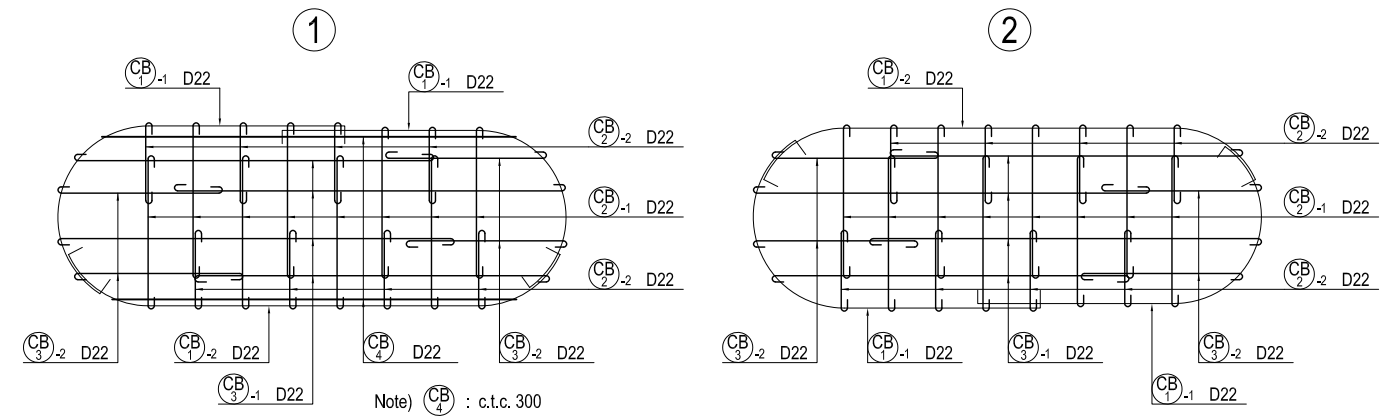


**ASSEMBLY DRAWING OF HOOP
(c.t.c. 150)**

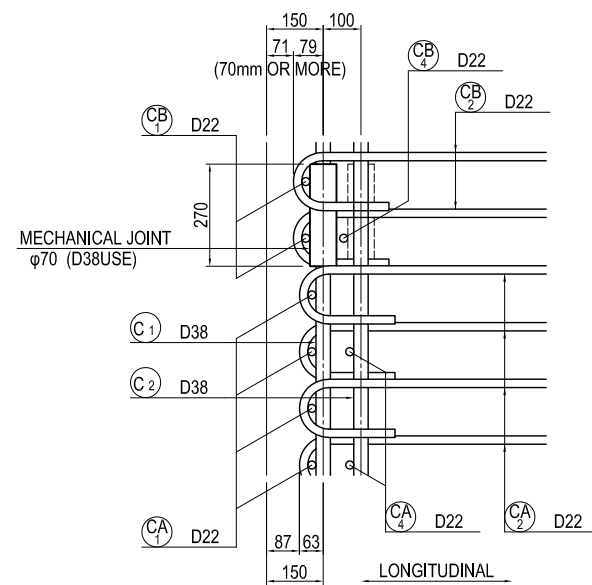
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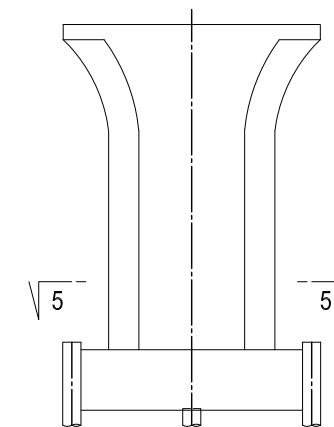
【MECHANICAL JOINT PART】



DETAIL OF COLUMN S=1:20



MARKING DIAGRAM

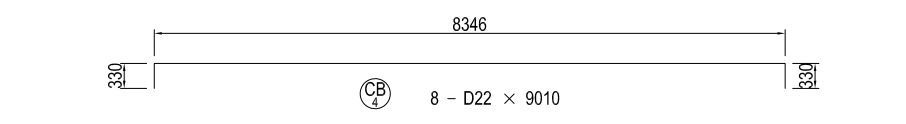
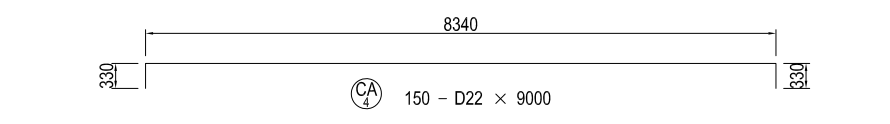
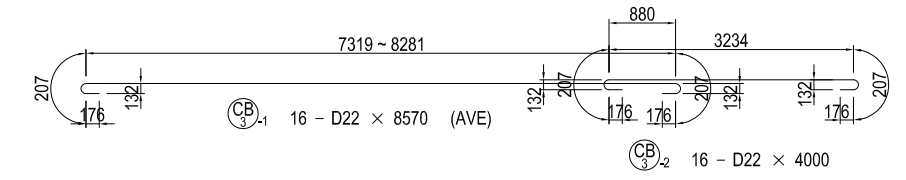
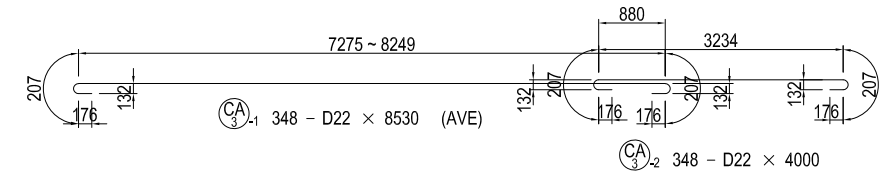
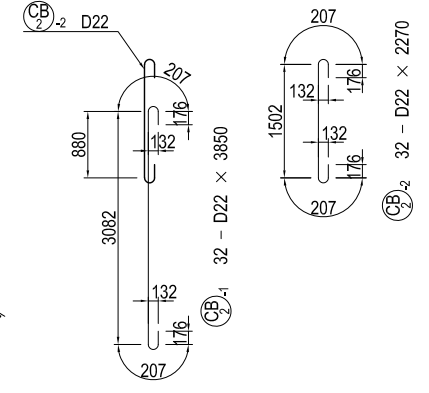
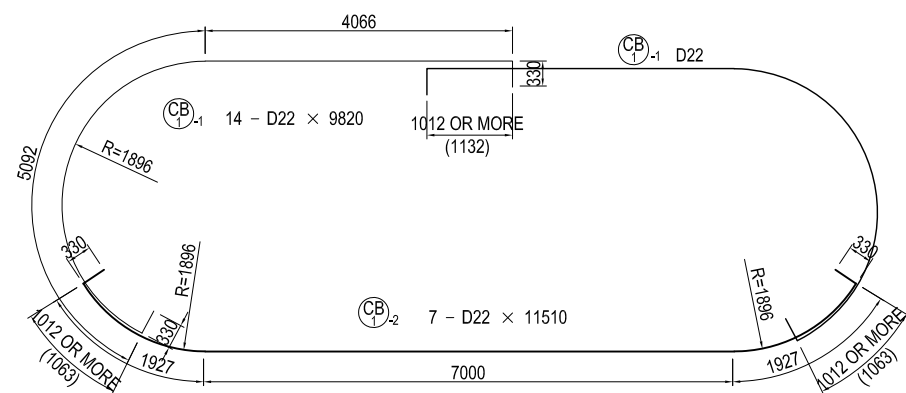
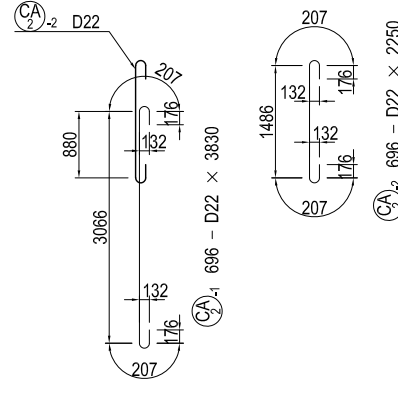
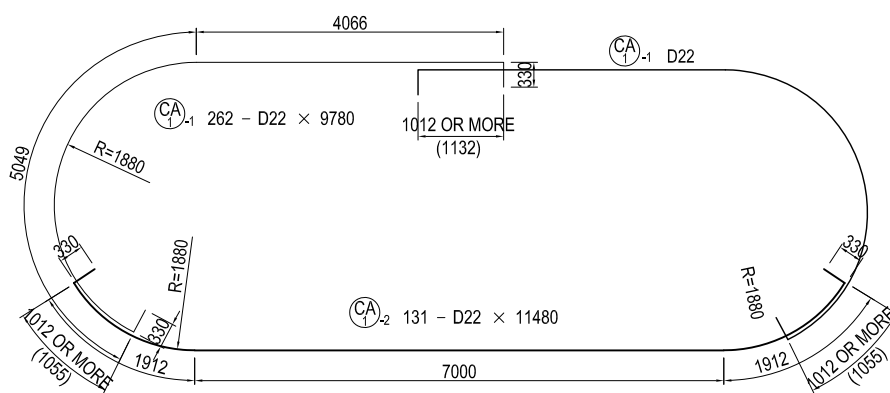
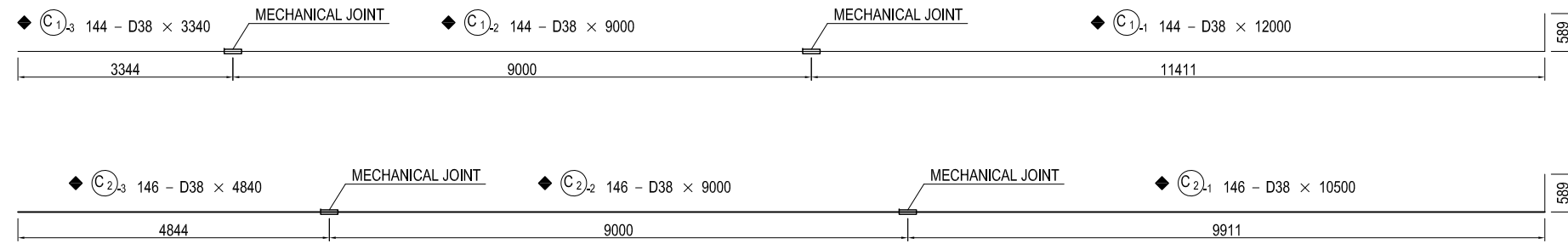


USE MATERIALS

COLUMN	CONCRETE $\sigma_{ck} = 30 \text{ N/mm}^2$	BAR	
		MAIN BAR	OTHERS
		SD390	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 BAR ARRANGEMENT OF P18 PIER (13)	PACKAGE 2 DWG No. P2-SB-2415
				PREPARED BY	S. IMADA	27 Nov.2017		
				CHECKED BY	T. HAYAKAWA	28 Nov.2017		
				APPROVED BY	Y. SANO	29 Nov.2017		

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

COLUMN	CONCRETE σ _{ck} = 30 N/mm ²	BAR	
		MAIN BAR	OTHERS
		SD390	SD345

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	144	8.95	107.40	15466	└┘ (144)
1-2	"	9000	144	"	80.55	11599	└┘ (144)
1-3	"	3340	144	"	29.89	4304	└┘
2-1	"	10500	146	"	93.98	13721	└┘ (146)
2-2	"	9000	146	"	80.55	11760	└┘ (146)
2-3	"	4840	146	"	43.32	6325	└┘
SUBTOTAL						63175 kg	
(MECHANICAL JOINT)							
SD390				D38	63175 kg	(580)	
TOTAL						63175 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	24	"	12.04	289	└┘ (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						817 kg	
BD 1-1	D22	9420	12	3.04	28.64	344	└┘ (AVE)
1-2	"	8250	12	"	25.08	301	└┘ (AVE)
2	"	2980	48	"	9.06	435	└┘ (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						1285 kg	
BE 1-1	D22	9620	6	3.04	29.24	175	└┘ (AVE)
1-2	"	4990	6	"	15.17	91	└┘ (AVE)
2	"	2280	24	"	6.93	166	└┘ (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						534 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	40	"	5.17	207	└┘ (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						738 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	9780	262	3.04	29.73	7789	└┘
1-2	"	11480	131	"	34.90	4572	└┘
2-1	"	3830	696	"	11.64	8101	└┘
2-2	"	2250	696	"	6.84	4761	"
3-1	"	8530	348	"	25.93	9024	└┘ (AVE)
3-2	"	4000	348	"	12.16	4232	"
4	"	9000	150	"	27.36	4104	└┘
SUBTOTAL						42583 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	59323 "		
				D16	2359 "		
TOTAL						70158 kg	

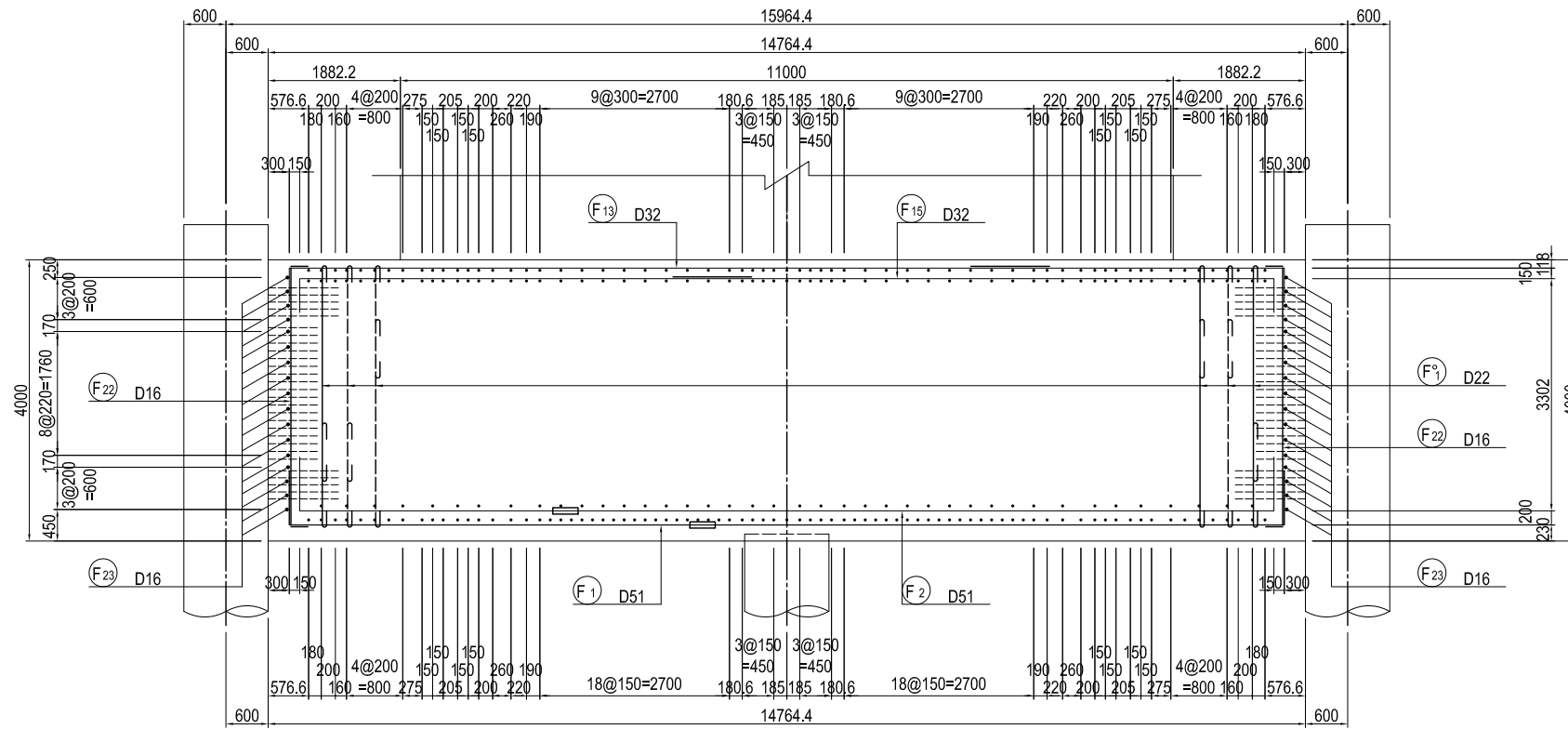
USE MATERIALS

COLUMN	CONCRETE σck = 30 N/mm ²	BAR	
		MAIN BAR	OTHERS
		SD390	SD345

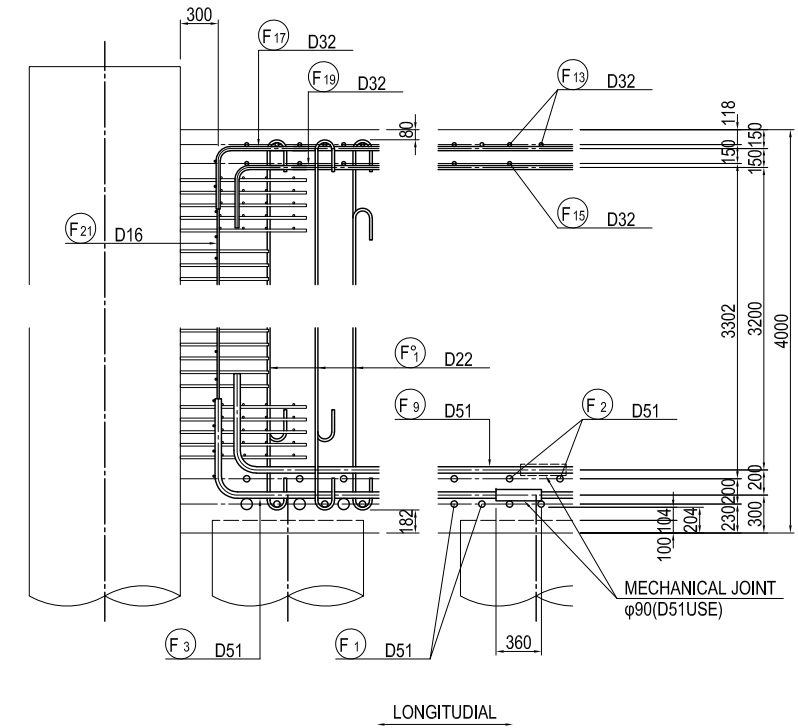
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE BAR ARRANGEMENT OF P18 PIER (15)	PACKAGE 2 DWG No. P2-SB-2417
				PREPARED BY	S. IMADA	27 Nov.2017		
				CHECKED BY	T. HAYAKAWA	28 Nov.2017		
				APPROVED BY	Y. SANO	29 Nov.2017		

BAR ARRANGEMENT OF P18 FOOTING (1) S=1:100

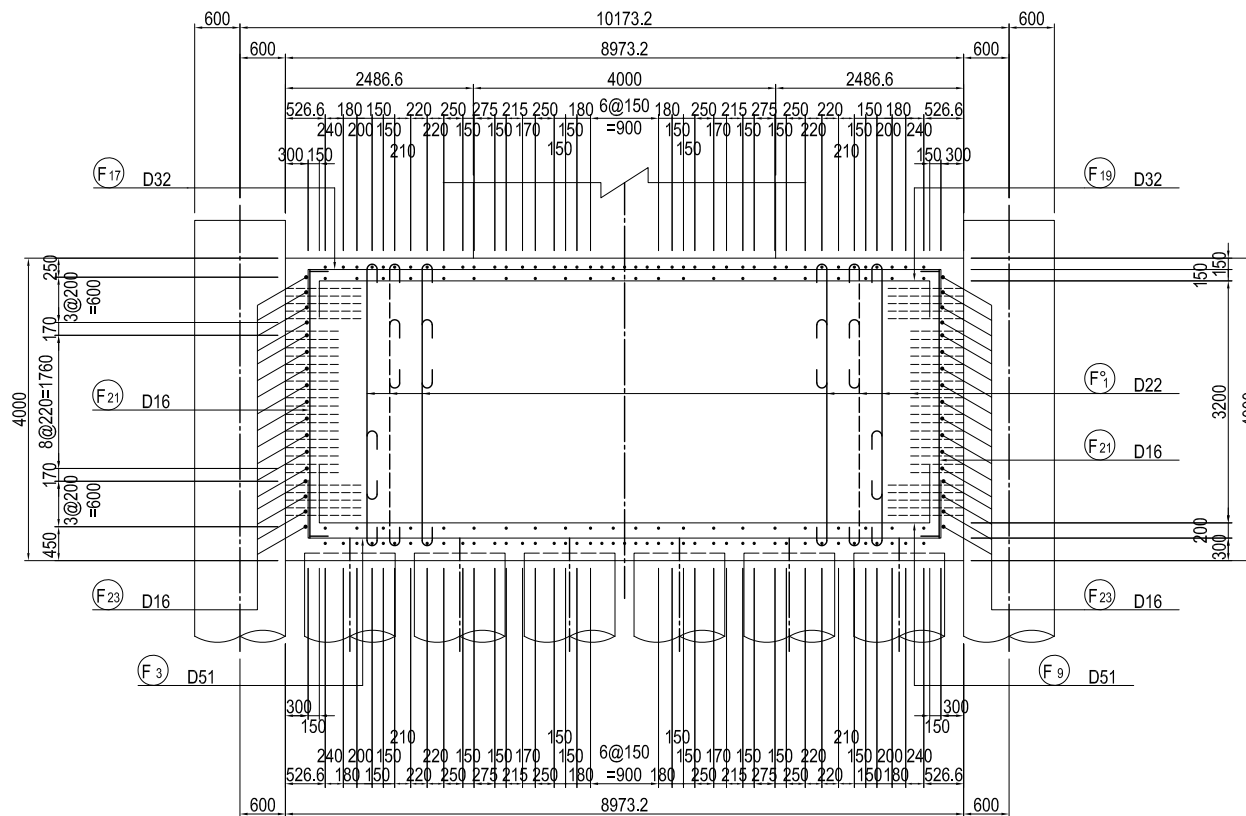
SECTION 1-1



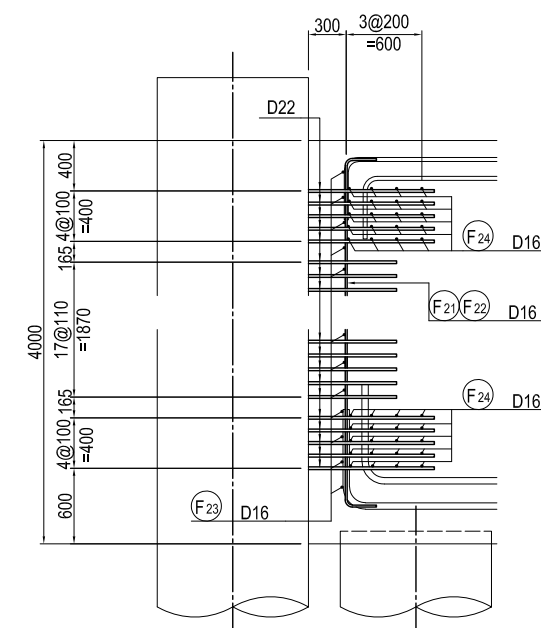
DETAIL OF PILE CAP S=1:60



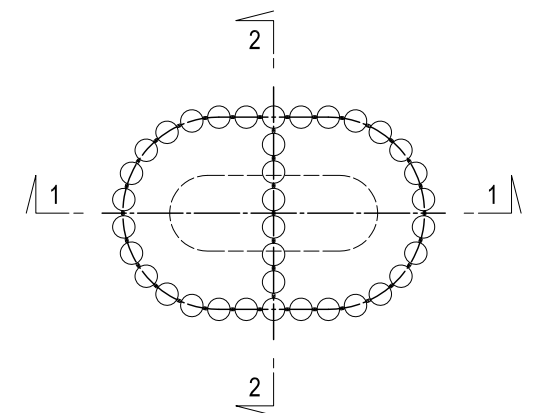
SECTION 2-2



DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING S=1:60



MARKING DIAGRAM



Note: — : MECHANICAL JOINT

USE MATERIALS

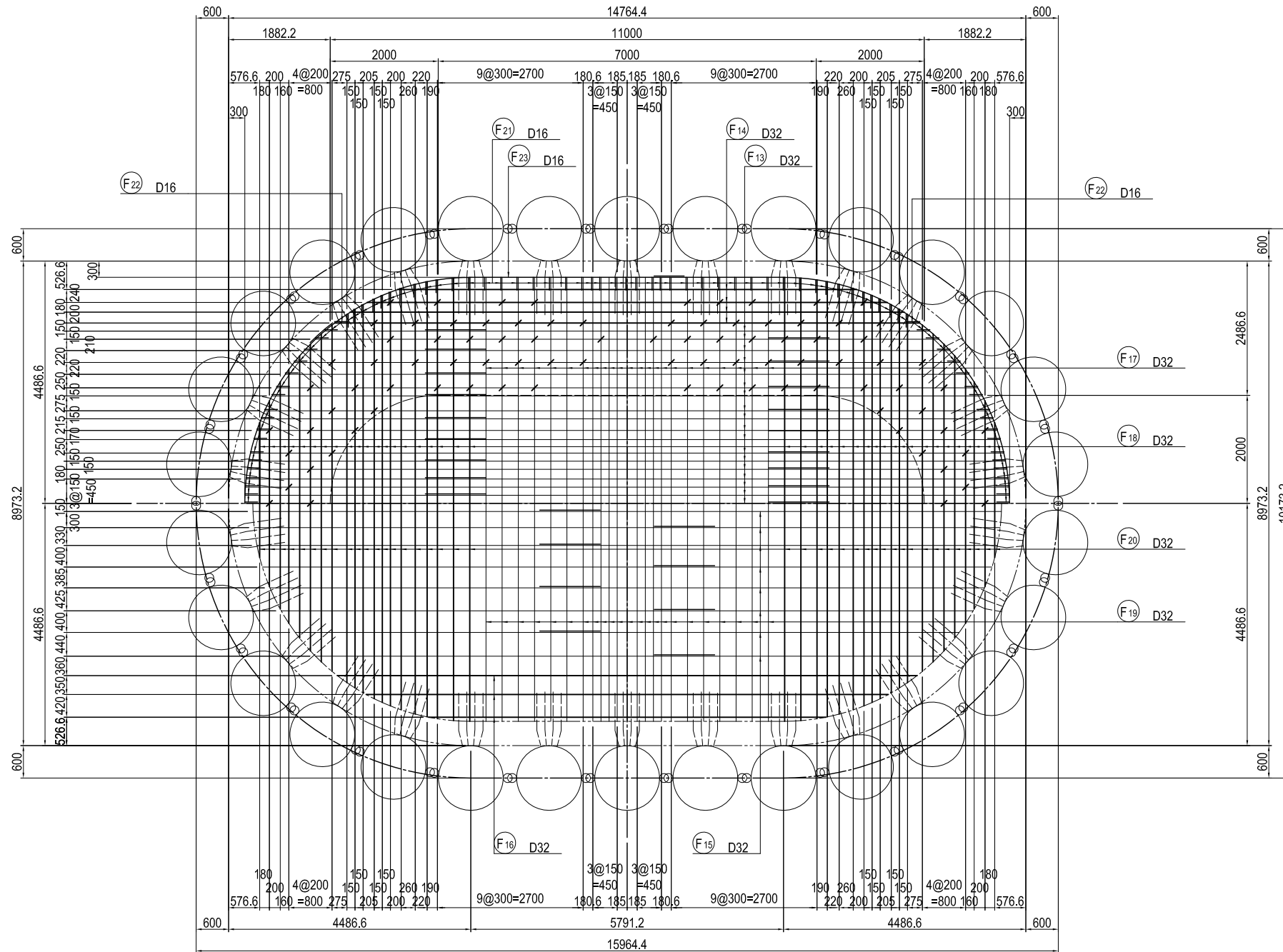
	CONCRETE	BAR
FOOTING	σ _{ck} = 24 N/mm ²	SD345

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JICA JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE BAR ARRANGEMENT OF P18 FOOTING (1)	PACKAGE 2 DWG No. P2-SB-2418
				PREPARED BY	S. IMADA	27 Nov.2017		
				CHECKED BY	T. HAYAKAWA	28 Nov.2017		
				APPROVED BY	Y. SANO	29 Nov.2017		

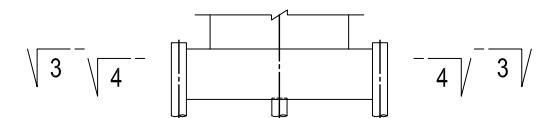
BAR ARRANGEMENT OF P18 FOOTING (2) S=1:100

PLAN
3-3

PLAN
4-4



MARKING DIAGRAM



USE MATERIALS

	CONCRETE	BAR
FOOTING	$\sigma_{ck} = 24 \text{ N/mm}^2$	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		27 Nov.2017
CHECKED BY	T. HAYAKAWA		28 Nov.2017
APPROVED BY	Y. SANO		29 Nov.2017

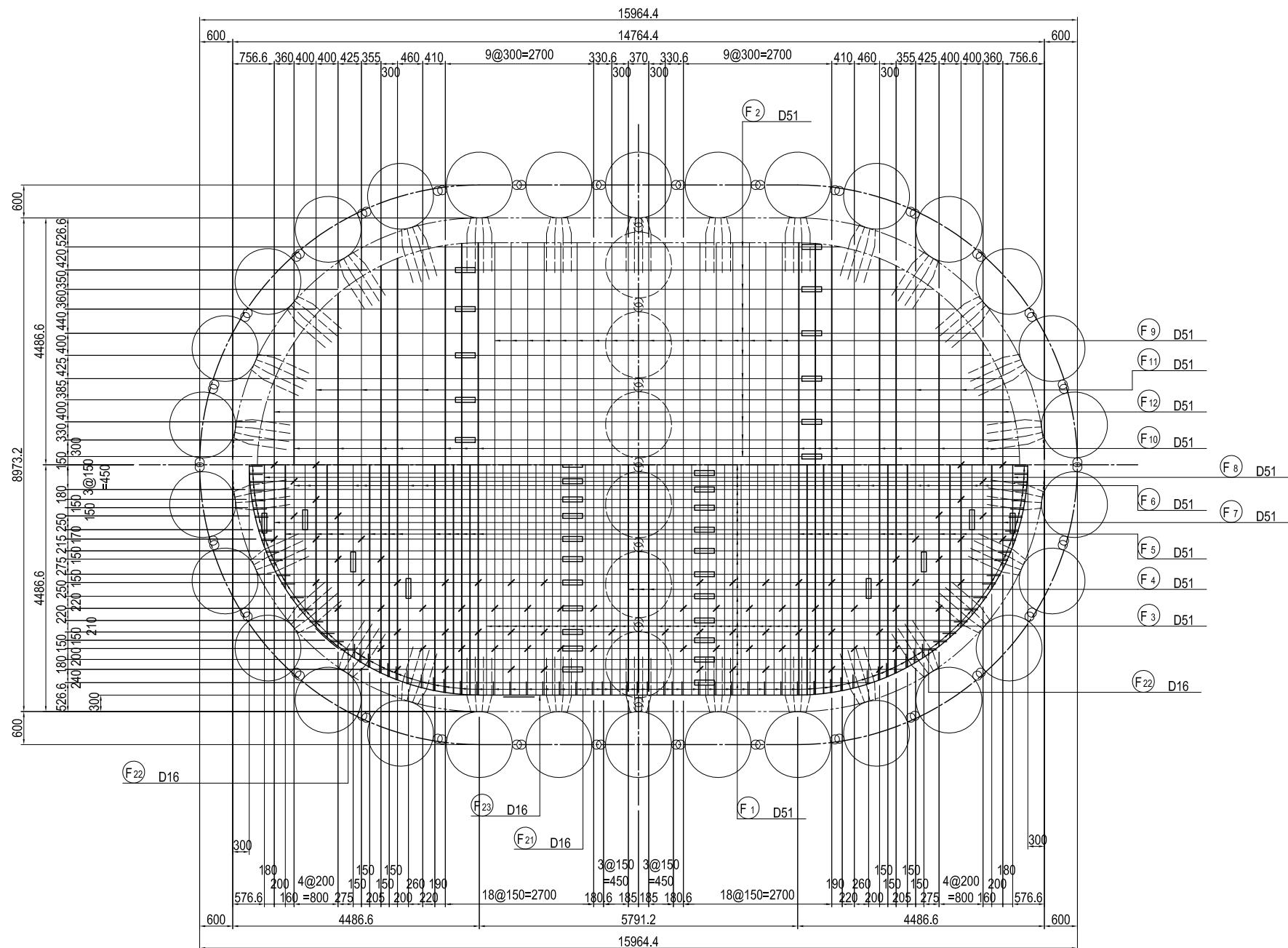
DRAWING TITLE
BAR ARRANGEMENT OF P18 FOOTING (2)

PACKAGE
2
DWG No.
P2-SB-2419

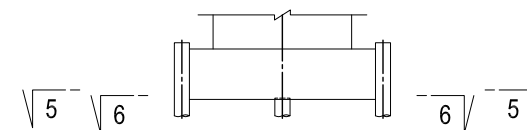
BAR ARRANGEMENT OF P18 FOOTING (3) S=1:100

PLAN
5-5

PLAN
6-6



MARKING DIAGRAM



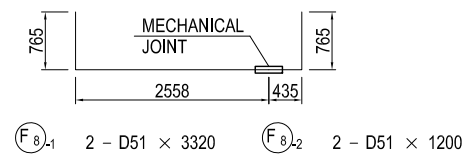
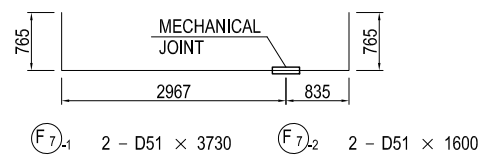
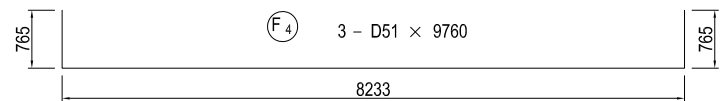
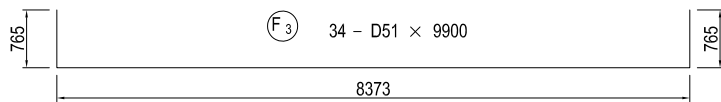
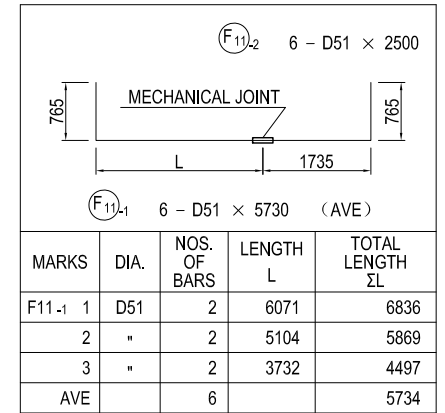
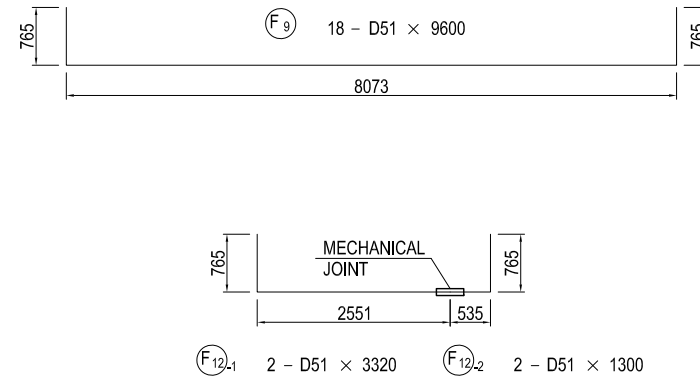
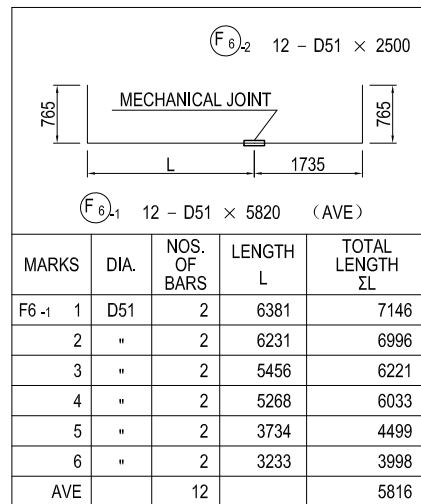
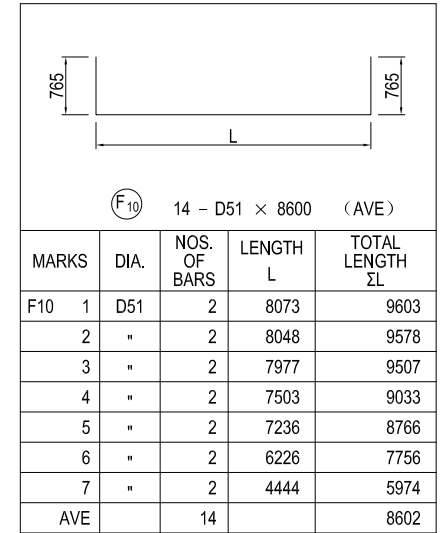
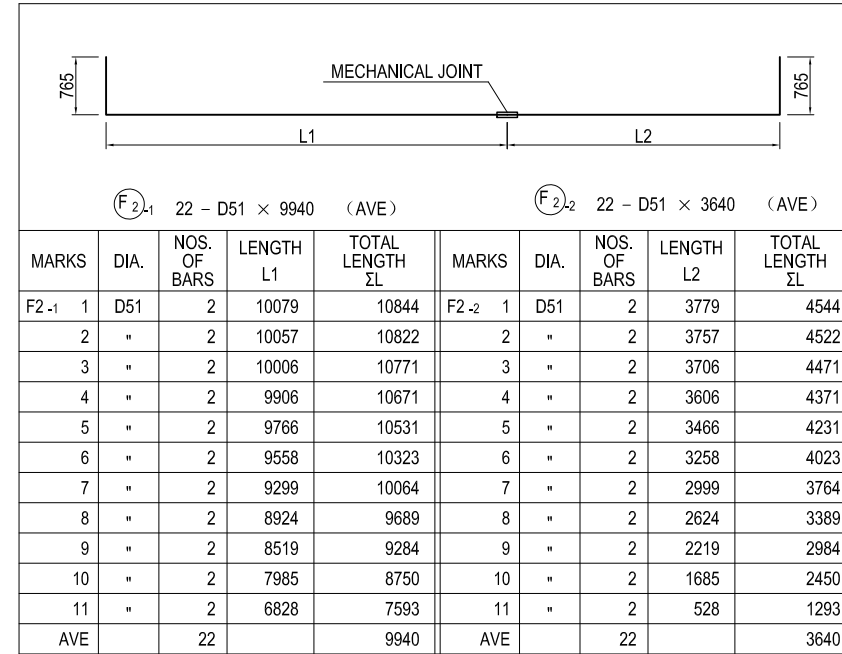
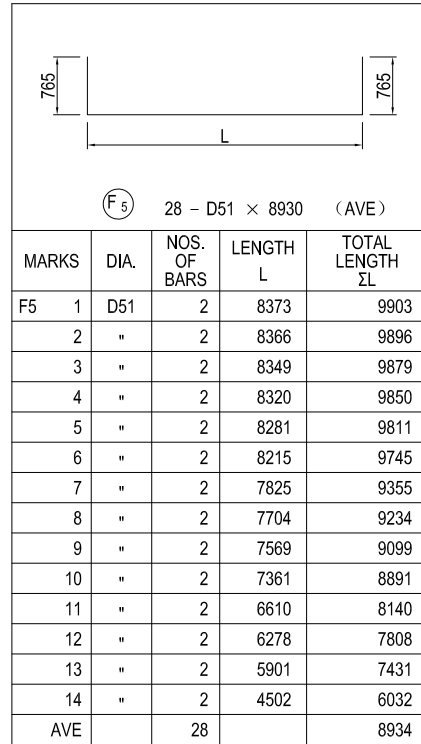
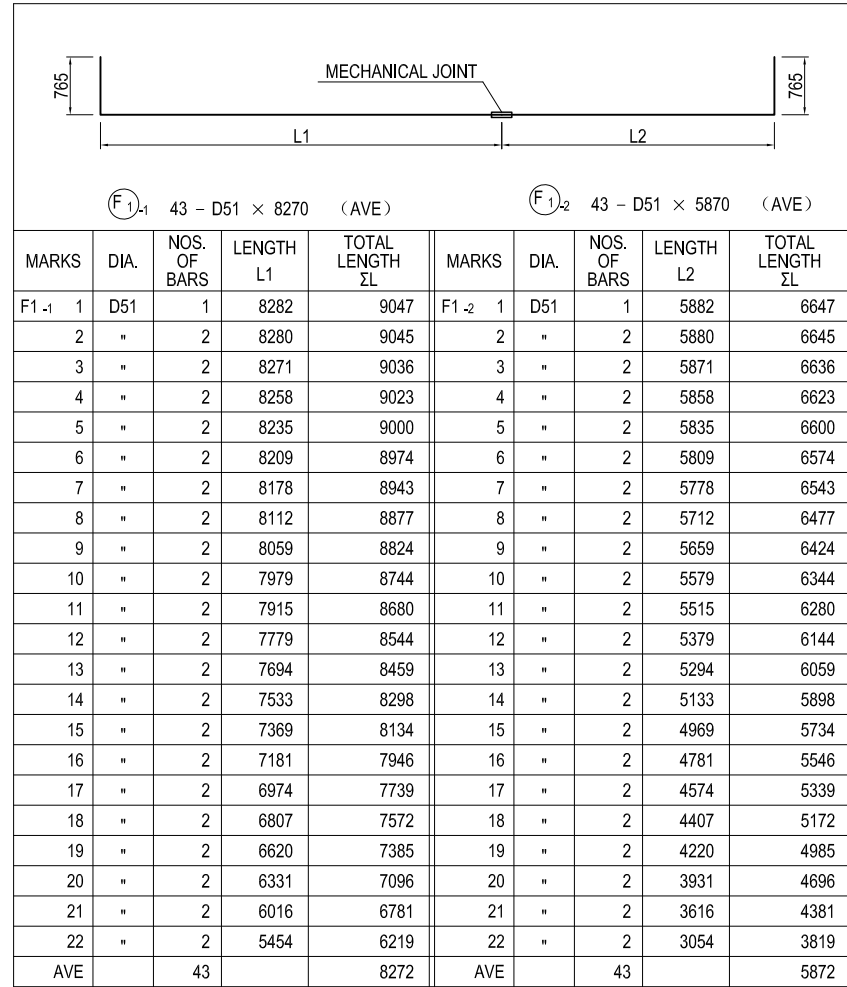
USE MATERIALS

	CONCRETE	BAR
FOOTING	$\sigma_{ck} = 24 \text{ N/mm}^2$	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 BAR ARRANGEMENT OF P18 FOOTING (3)	PACKAGE 2 DWG No. P2-SB-2420	
				PREPARED BY	S. IMADA				27 Nov.2017
				CHECKED BY	T. HAYAKAWA				28 Nov.2017
				APPROVED BY	Y. SANO				29 Nov.2017

BAR ARRANGEMENT OF P18 FOOTING (4) S=1:100

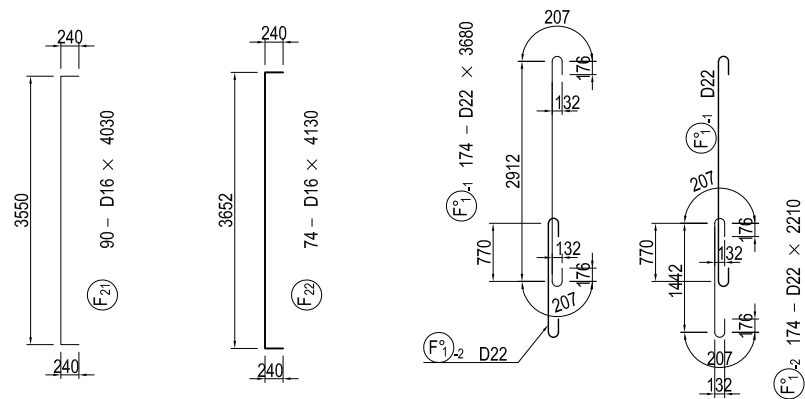
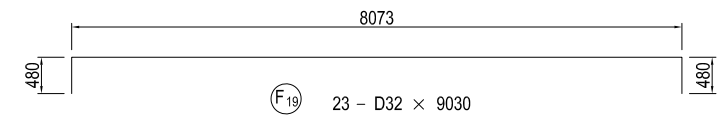
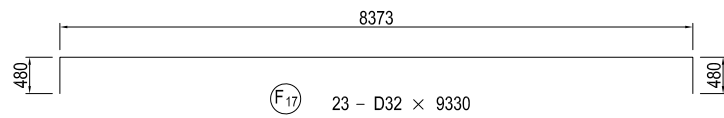
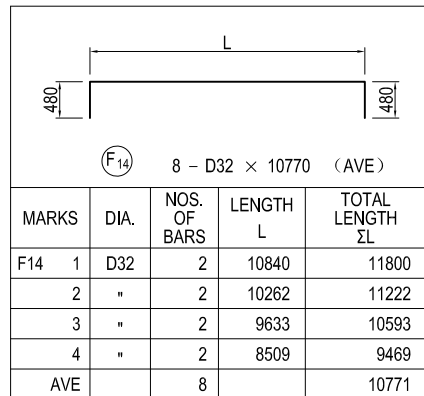
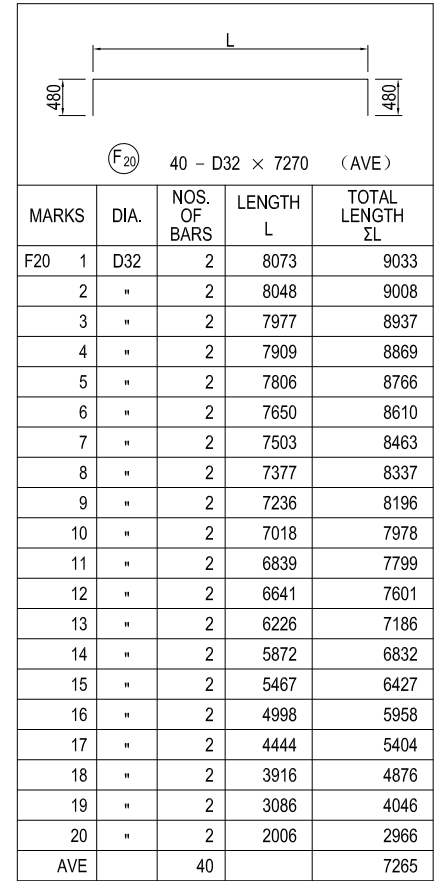
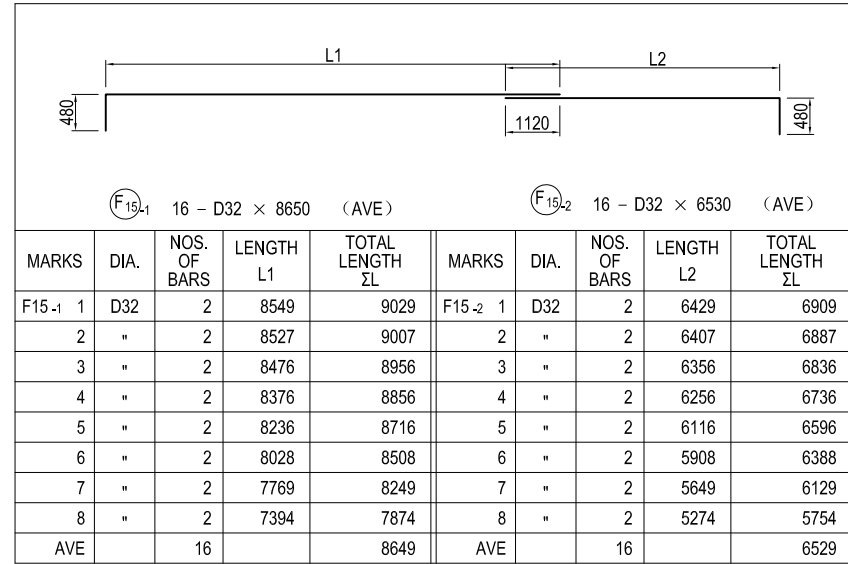
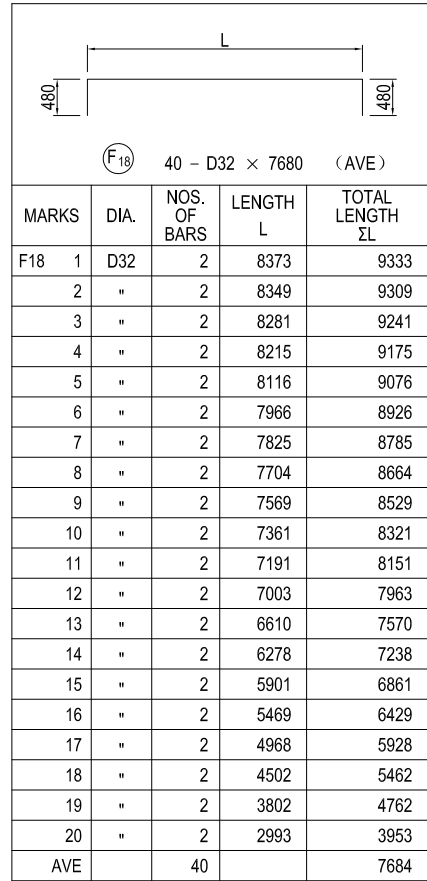
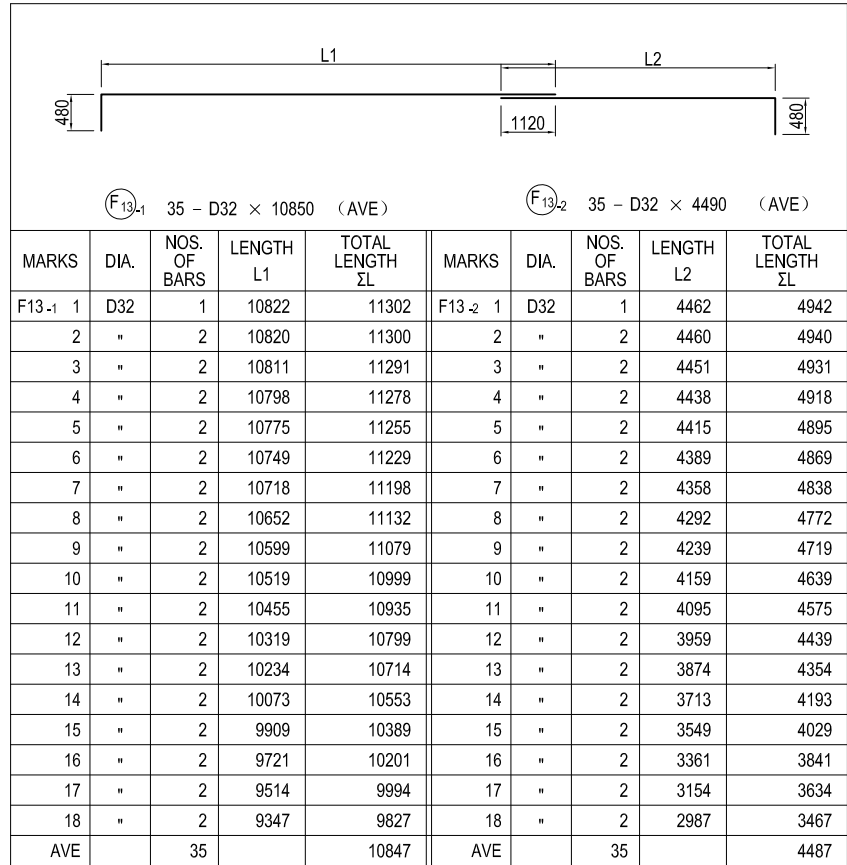


USE MATERIALS

	CONCRETE	BAR
FOOTING	σck = 24 N/mm ²	SD345

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA 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.	S. IMADA	<i>S. Imada</i>	27 Nov.2017	BAR ARRANGEMENT OF P18 FOOTING (4)	2
				T. HAYAKAWA	<i>T. Hayakawa</i>	28 Nov.2017		DWG No.
				Y. SANO	<i>Y. Sano</i>	29 Nov.2017		P2-SB-2421

BAR ARRANGEMENT OF P18 FOOTING (5) S=1:100

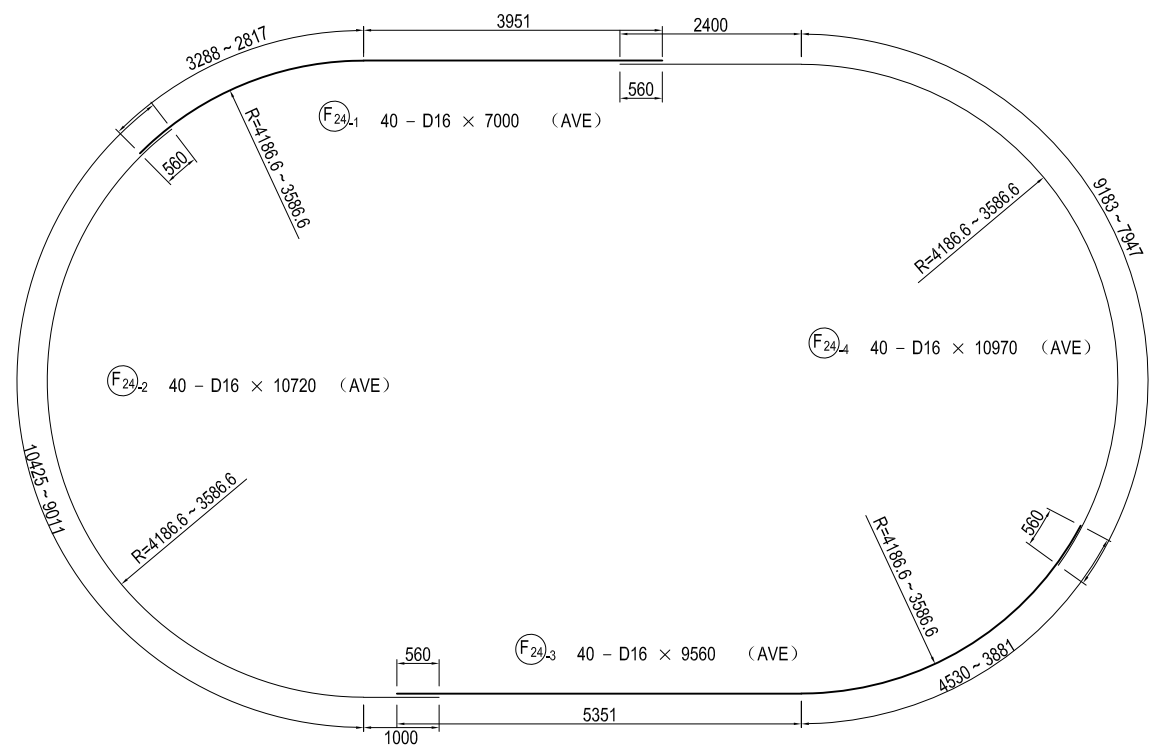
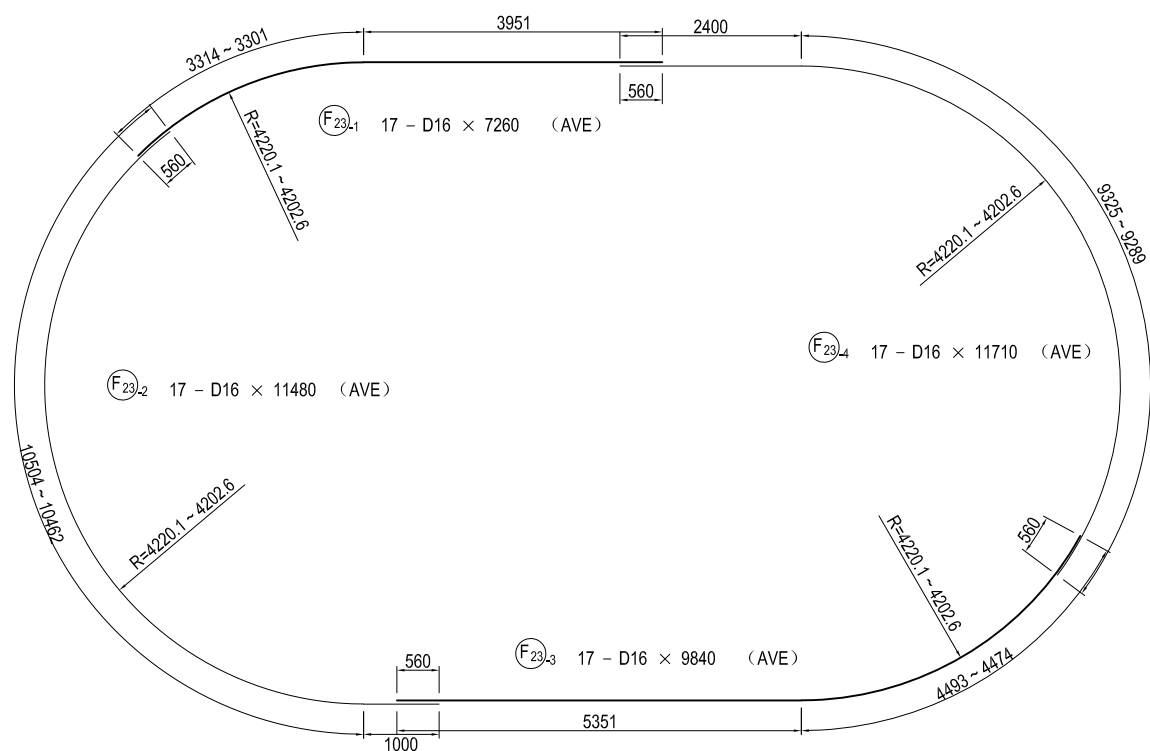


USE MATERIALS

	CONCRETE	BAR
FOOTING	σ _{ck} = 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 S. IMADA T. HAYAKAWA Y. SANO	SIGNATURE 	DATE 27 Nov.2017 28 Nov.2017 29 Nov.2017	DRAWING TITLE BAR ARRANGEMENT OF P18 FOOTING (5)	PACKAGE 2 DWG No. P2-SB-2422
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BAR ARRANGEMENT OF P18 FOOTING (6) S=1:100



Note) The joint position of the reinforcing 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

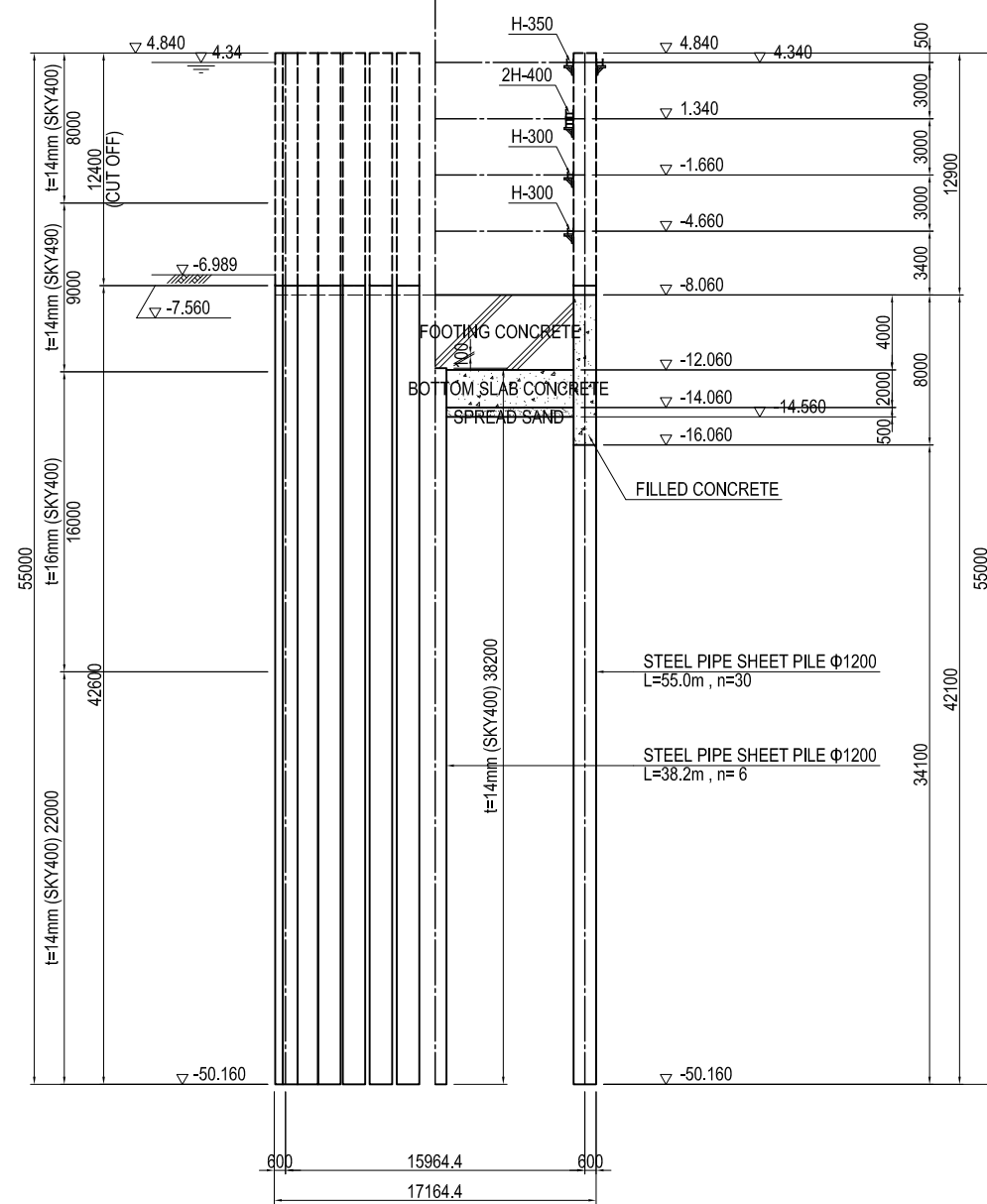
FOOTING	CONCRETE σ _{ck} = 24 N/mm ²	BAR SD345
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GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P18 PIER

S=1:400

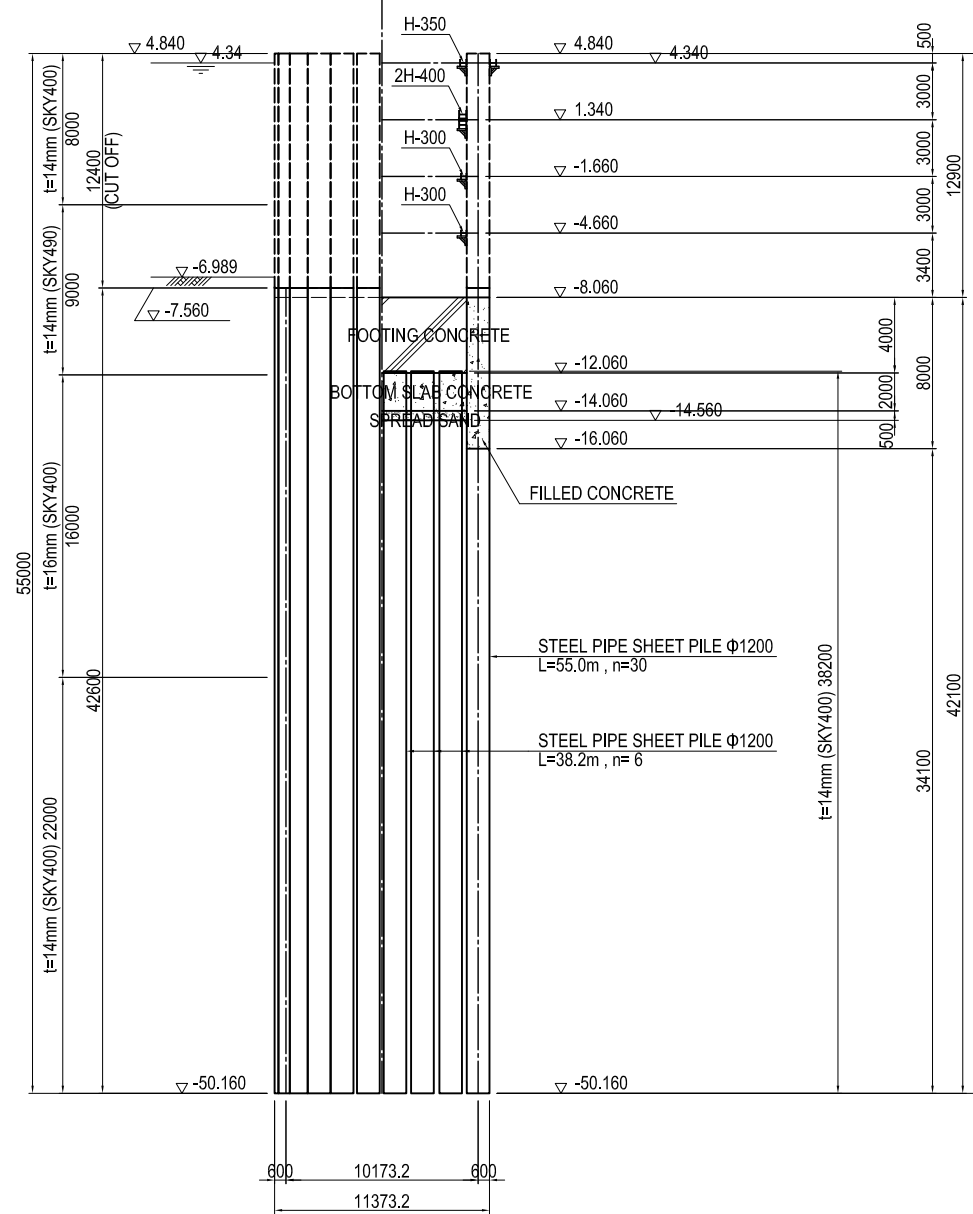
FRONT ELEVATION

1-1 2-2

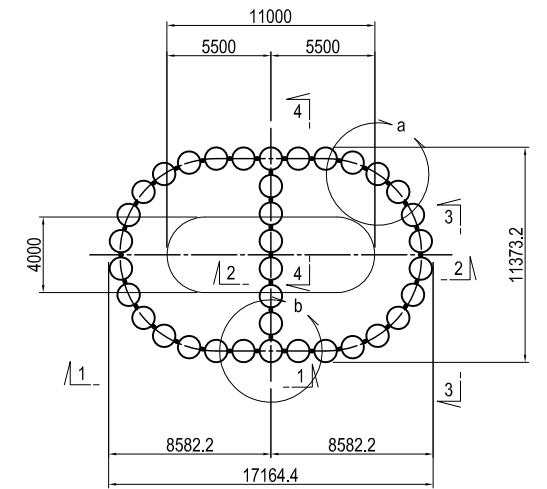


SIDE ELEVATION

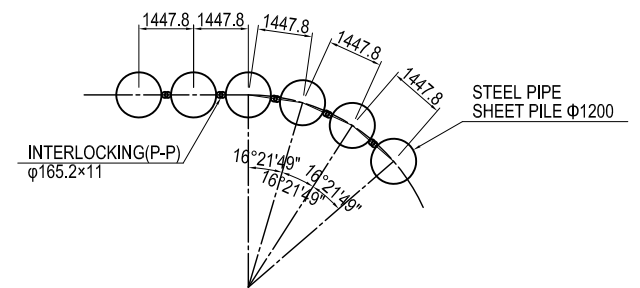
3-3 4-4



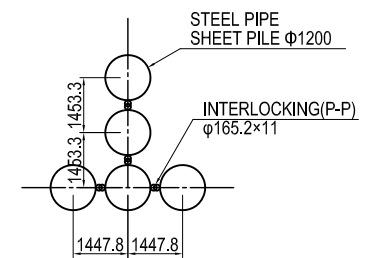
PLAN



DETAIL a S=1:200



DETAIL b S=1:200



USE MATERIALS

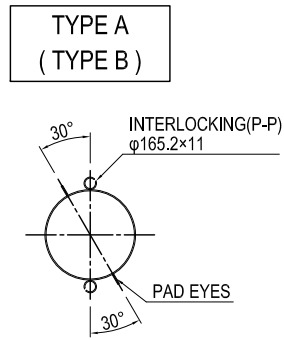
	CONCRETE	BAR
FOOTING	σ _{ck} = 24 N/mm ²	SD345

Note: Temporary support can be used for reference only.

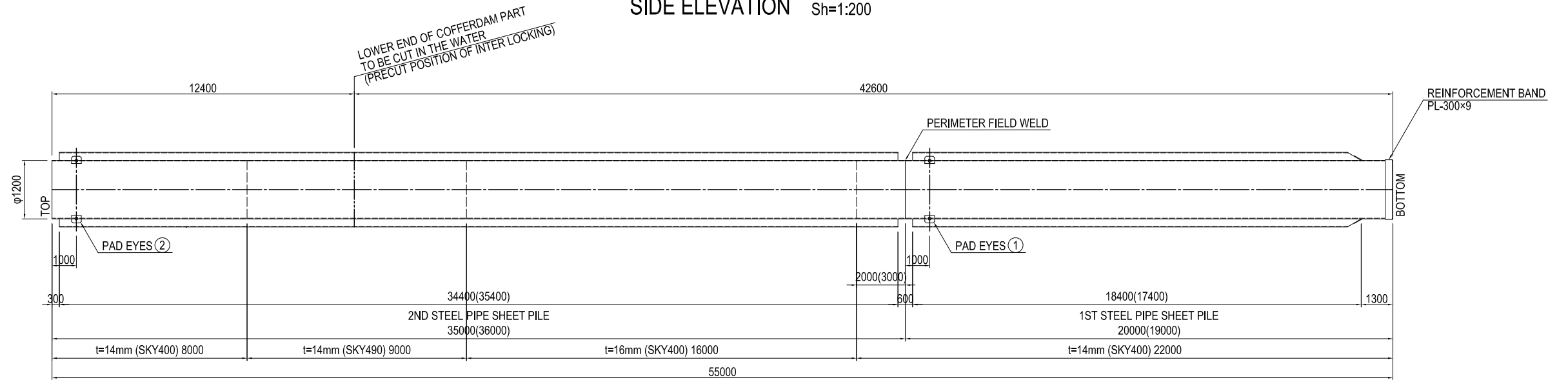
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE GENERAL VIEW OF STEEL PIPE SHEET PILE FOUNDATION OF P18 PIER	PACKAGE 2 DWG No. P2-SB-2424	
				PREPARED BY	S. IMADA				27 Nov.2017
				CHECKED BY	T. HAYAKAWA				28 Nov.2017
				APPROVED BY	Y. SANO				29 Nov.2017

DETAIL OF STEEL PIPE SHEET PILE OF P18 PIER (1)

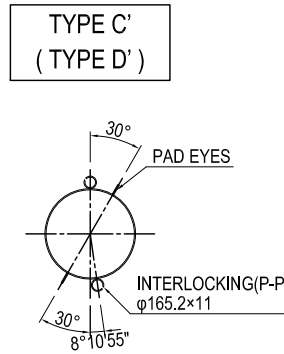
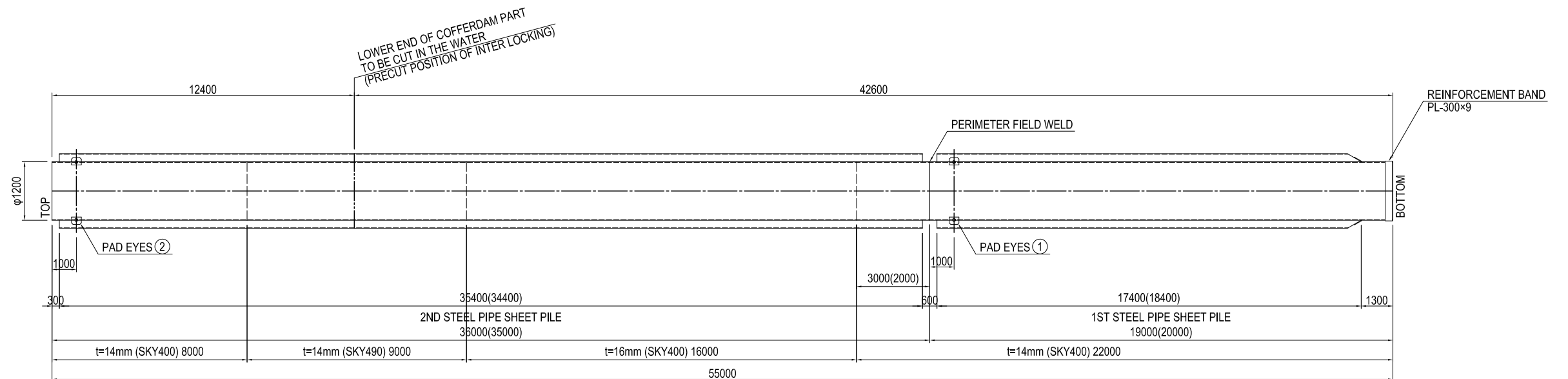
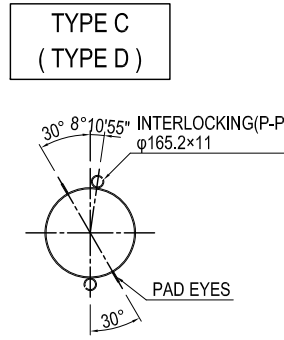
CROSS SECTION S=1:200



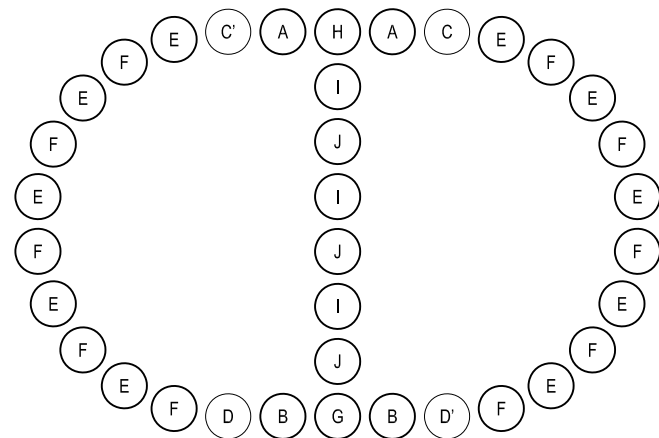
SIDE ELEVATION Sv=1:100 Sh=1:200



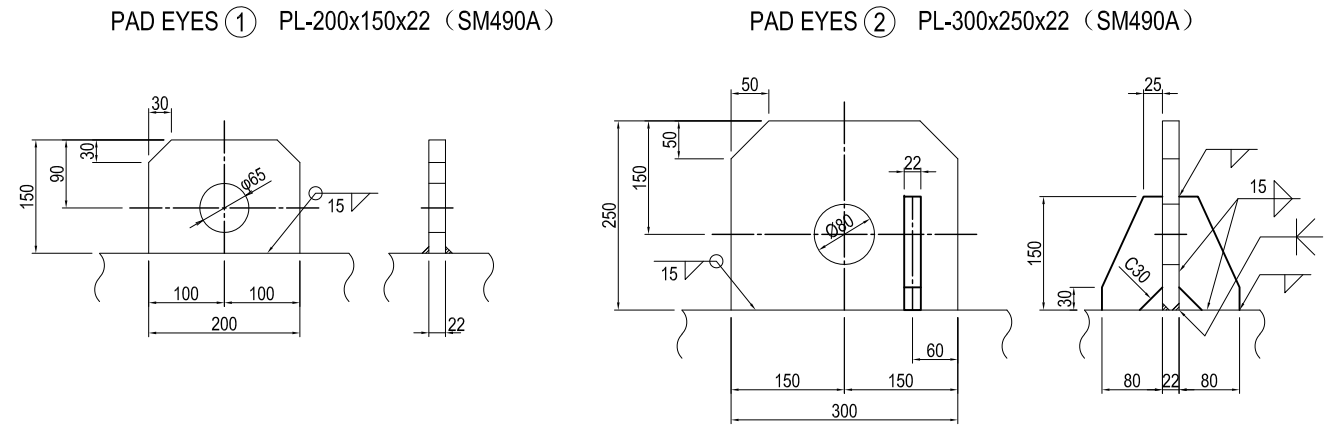
CROSS SECTION S=1:200



STEEL PIPE SHEET PILE TYPE AND POSITION



DETAIL OF EYES S=1:10

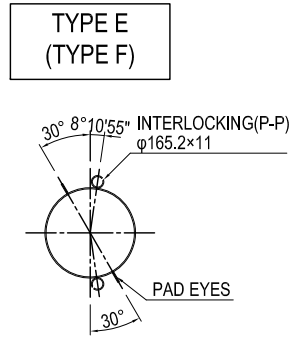


Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

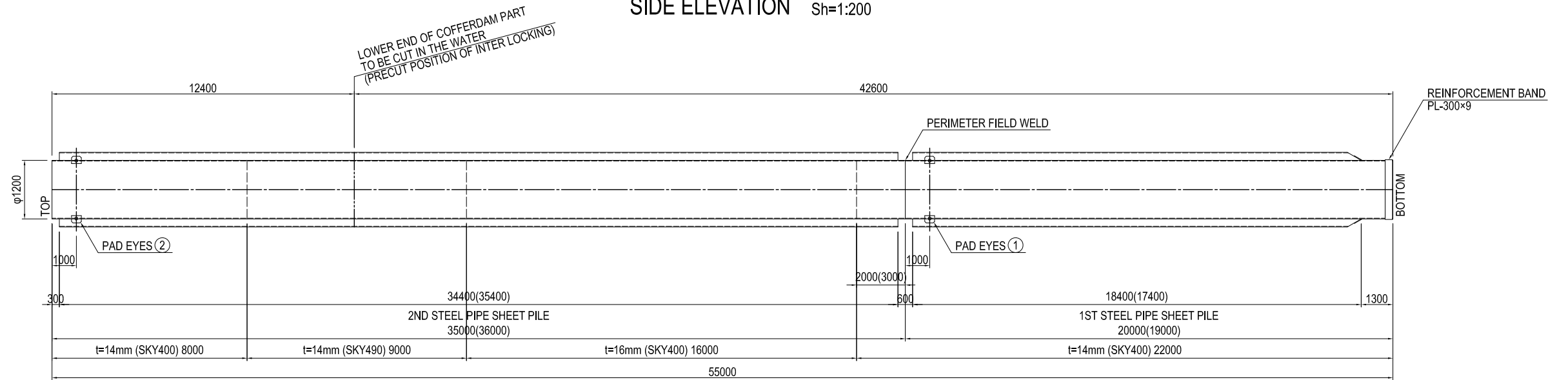
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY jica JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE DETAIL OF STEEL PIPE SHEET PILE OF P18 PIER (1)	PACKAGE 2 DWG No. P2-SB-2425
				PREPARED BY	S. IMADA	27 Nov.2017		
				CHECKED BY	T. HAYAKAWA	28 Nov.2017		
				APPROVED BY	Y. SANO	29 Nov.2017		

DETAIL OF STEEL PIPE SHEET PILE OF P18 PIER (2)

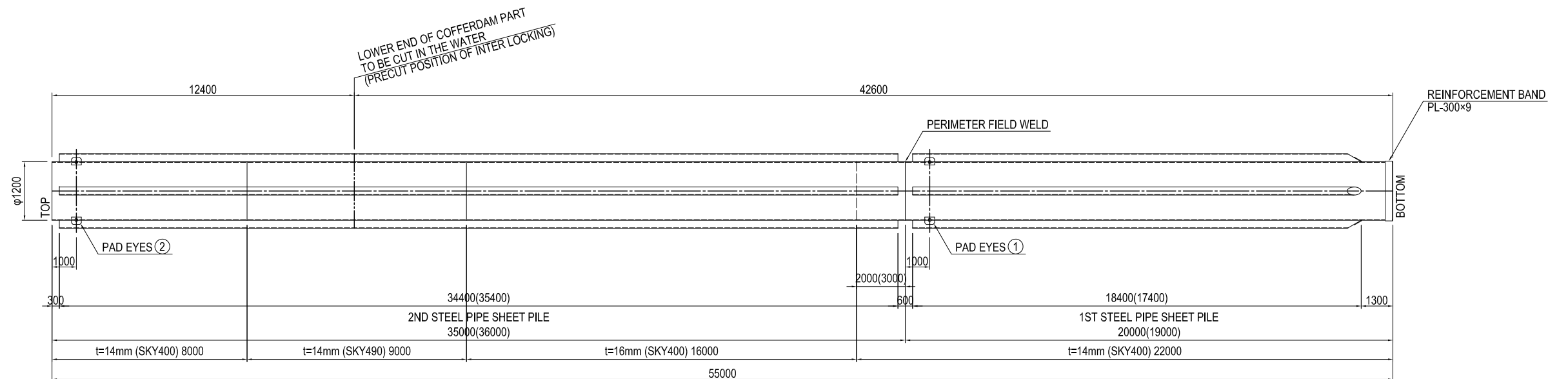
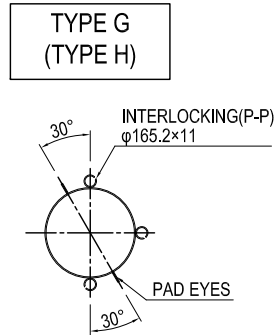
CROSS SECTION S=1:200



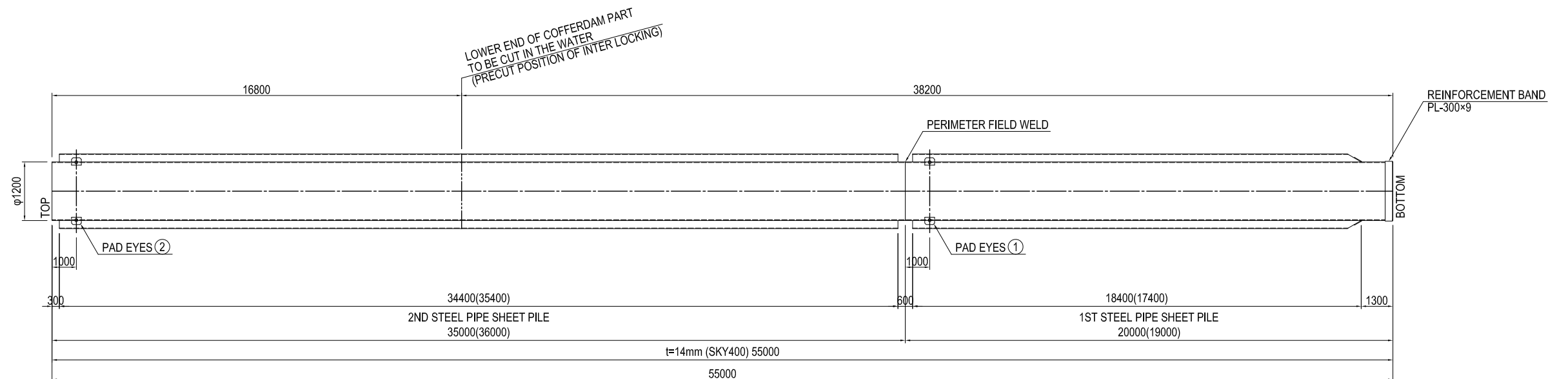
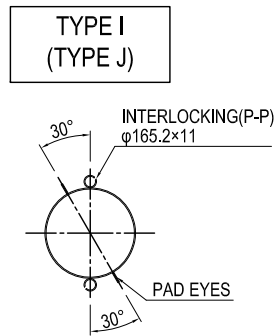
SIDE ELEVATION Sv=1:100 Sh=1:200



CROSS SECTION S=1:200



CROSS SECTION S=1:200

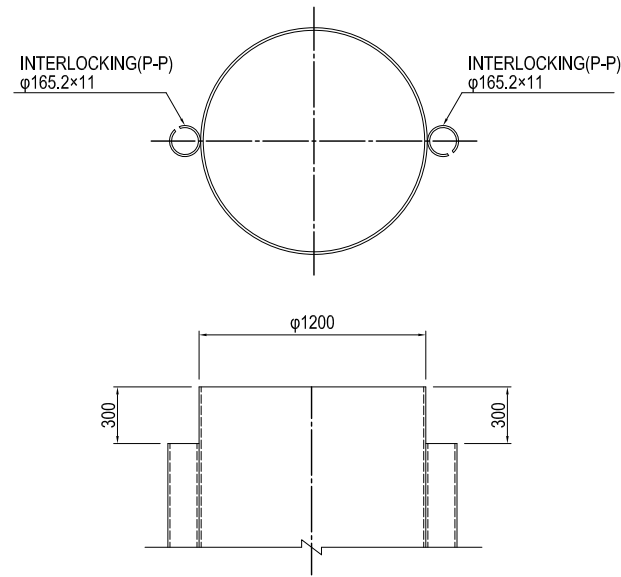


Note: Drawing of Pad Eye (metal fitting for hanging) and the position of perimeter field weld can be used for reference only.

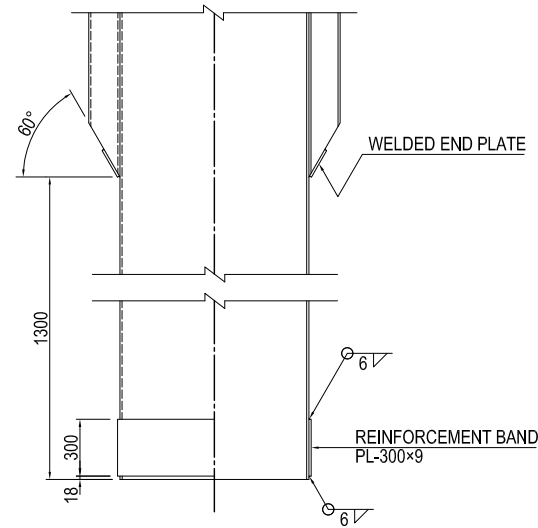
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME PREPARED BY S. IMADA CHECKED BY T. HAYAKAWA APPROVED BY Y. SANO	SIGNATURE 	DATE 27 Nov.2017 28 Nov.2017 29 Nov.2017	DRAWING TITLE DETAIL OF STEEL PIPE SHEET PILE OF P18 PIER (2)	PACKAGE 2 DWG No. P2-SB-2426
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DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P18 PIER

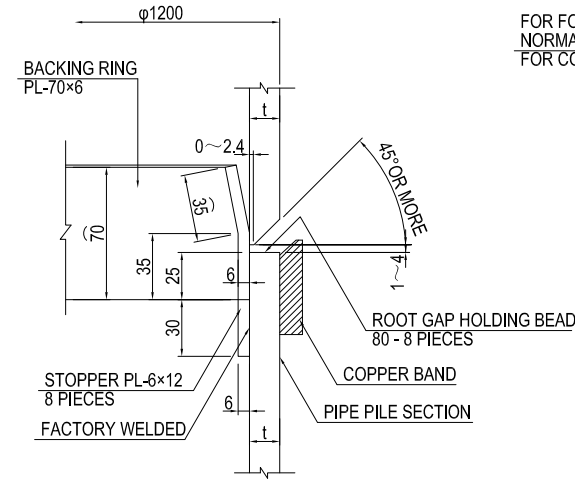
DETAIL OF STEEL PIPE SHEET PILE TOP S=1:40



DETAIL OF STEEL PIPE SHEET PILE TOE S=1:40

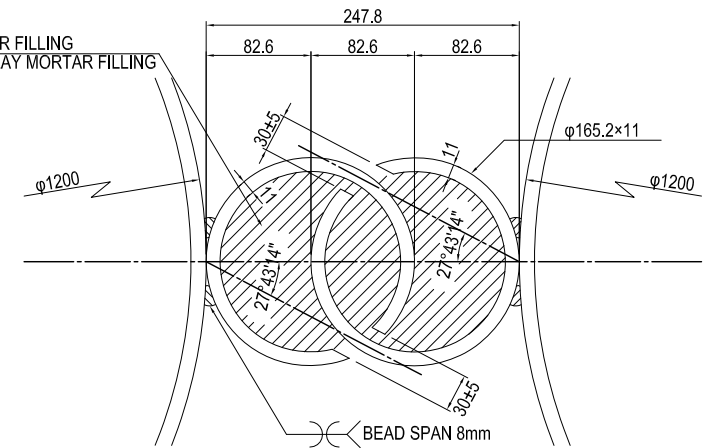


DETAIL OF PERIMETER FIELD WELDING OF STEEL PIPE SHEET PILE S=1:4



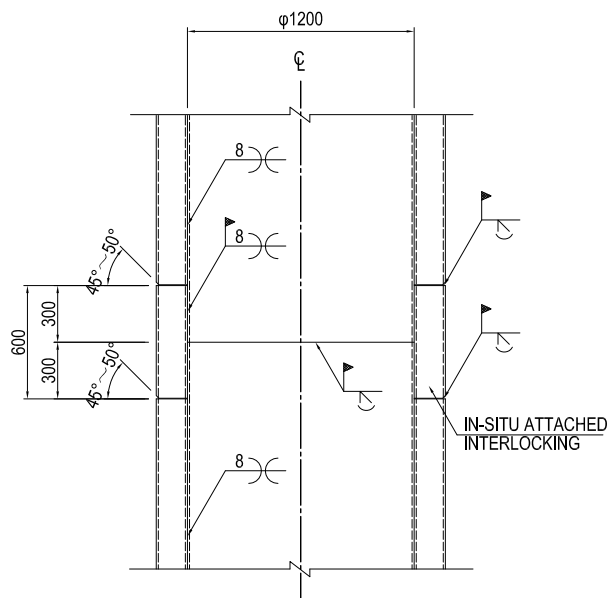
FOR FOUNDATION PART :
NORMAL STRENGTH MORTAR FILLING
FOR COFFERDAM PART : CLAY MORTAR FILLING

DETAIL OF CONNECTED INTERLOCKING(P-P) S=1:6

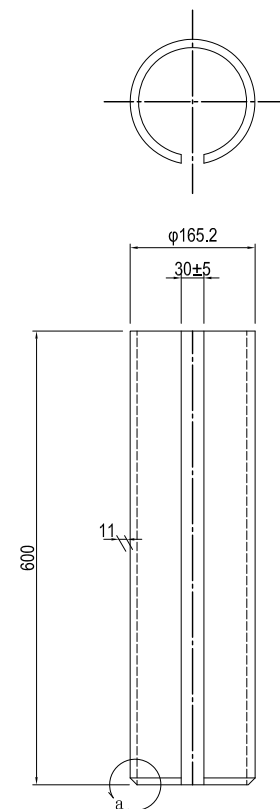


TREATMENT OF STEEL PIPE SHEET PILE INTERLOCKING

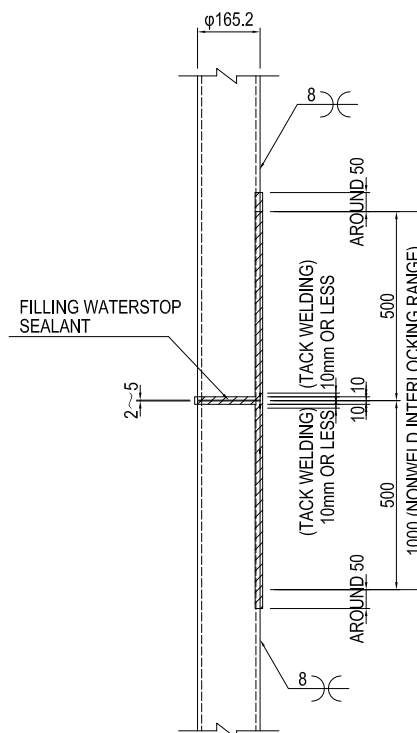
DETAIL OF IN-SITU LONGITUDINAL WELDING PART S=1:40



DETAIL OF IN-SITU ATTACHED INTERLOCKING S=1:10

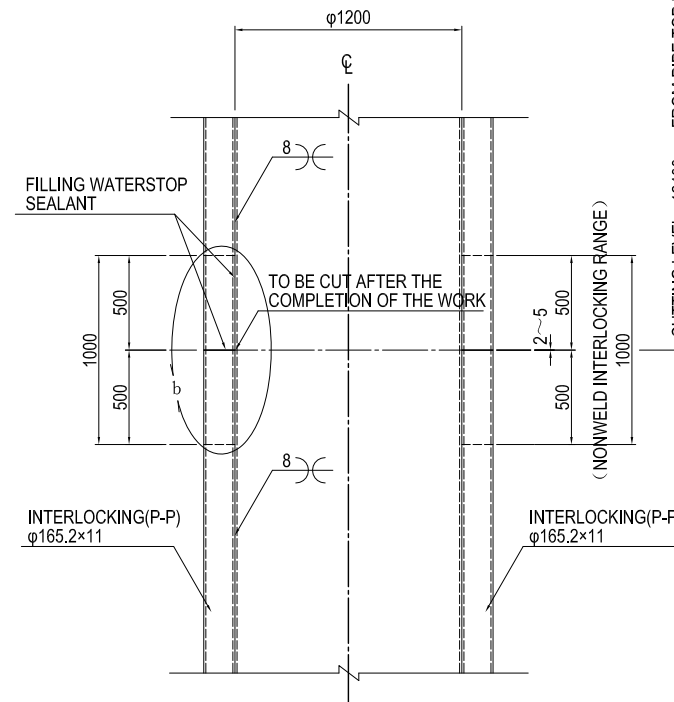


DETAIL b

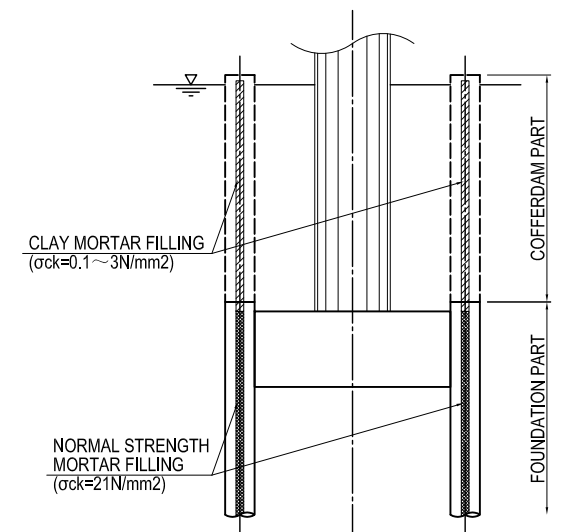


CUTTING LEVEL : 12400mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING.

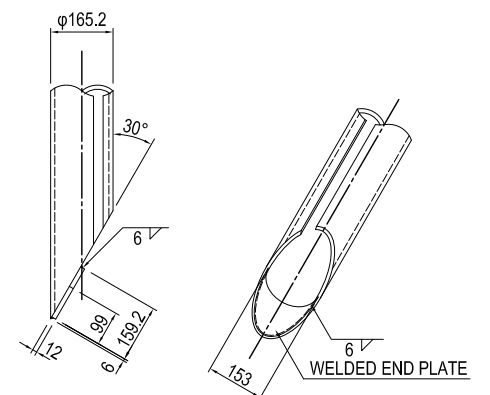
DETAIL OF PRECUT INTERLOCKING S=1:40



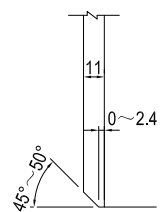
CUTTING LEVEL : 12400mm FROM PIPE TOP FOR EXTERNAL-WALL SHEET PILING.



DETAIL OF INTERLOCKING TOE S=1:20

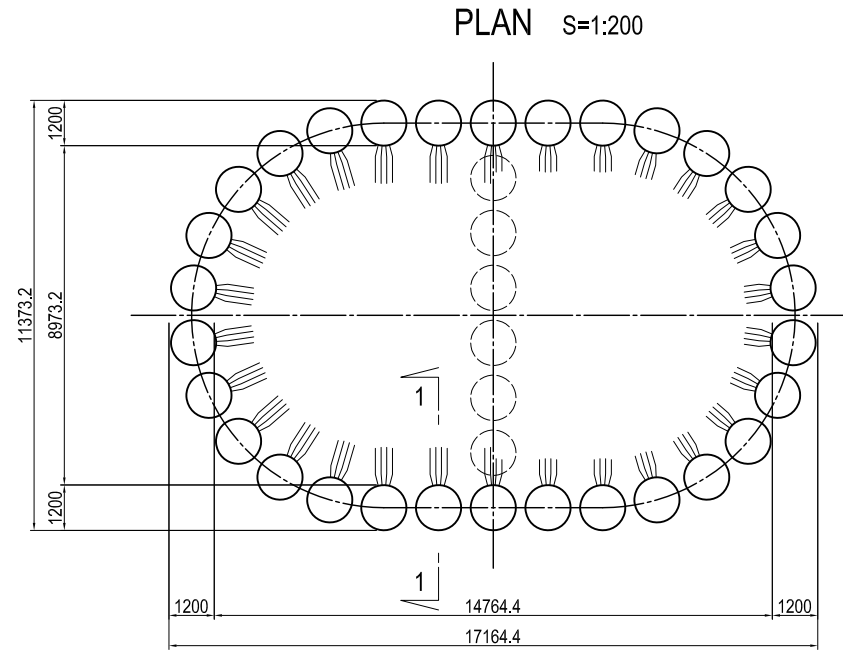


DETAIL a

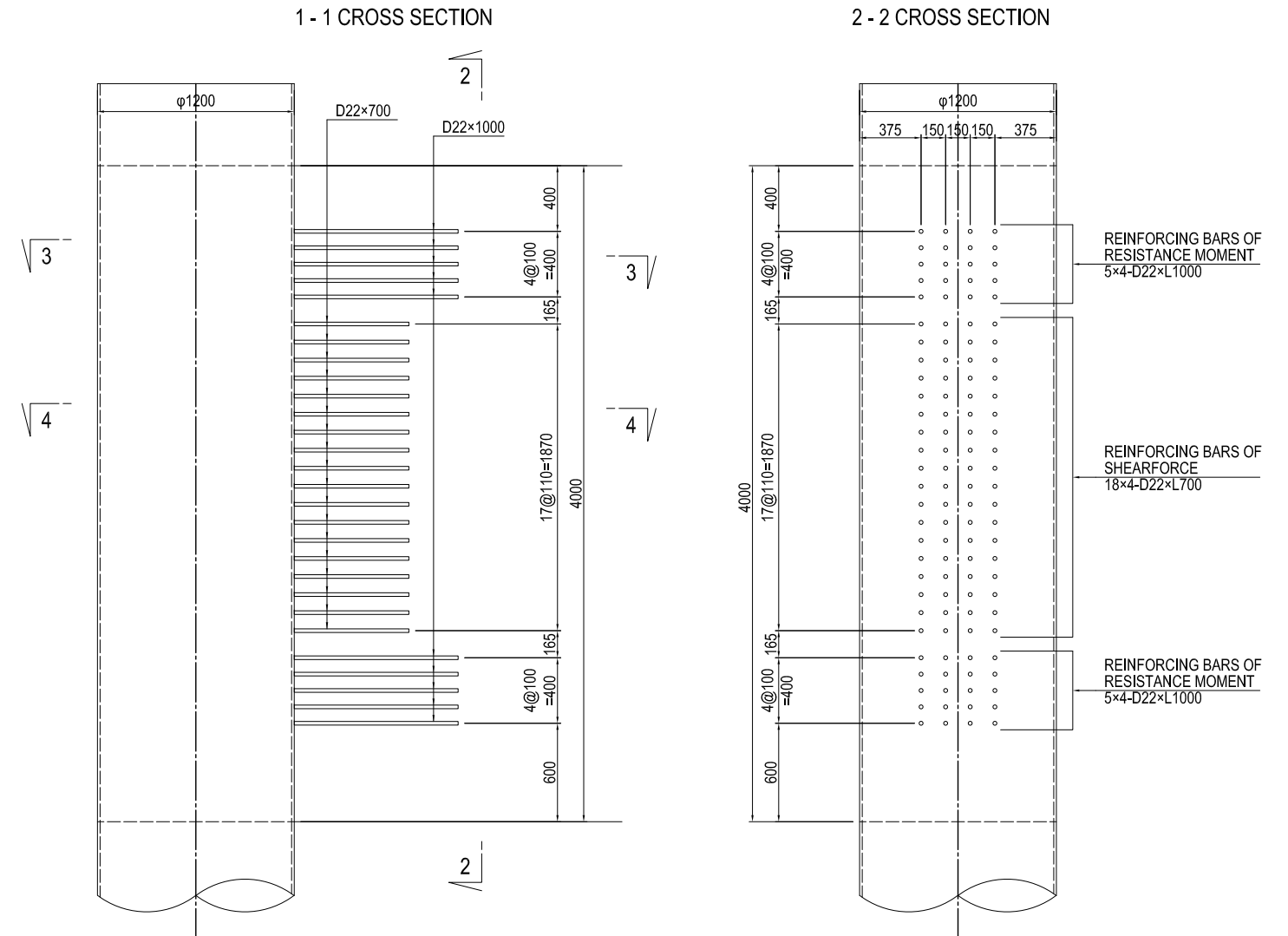


PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY jica JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE DETAIL OF INTERLOCKING OF STEEL PIPE SHEET PILE OF P18 PIER	PACKAGE 2 DWG No. P2-SB-2427
				PREPARED BY	S. IMADA	27 Nov.2017		
				CHECKED BY	T. HAYAKAWA	28 Nov.2017		
				APPROVED BY	Y. SANO	29 Nov.2017		

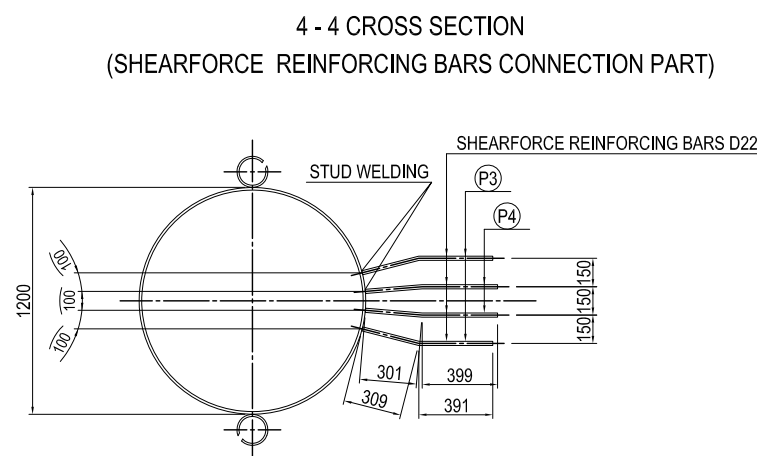
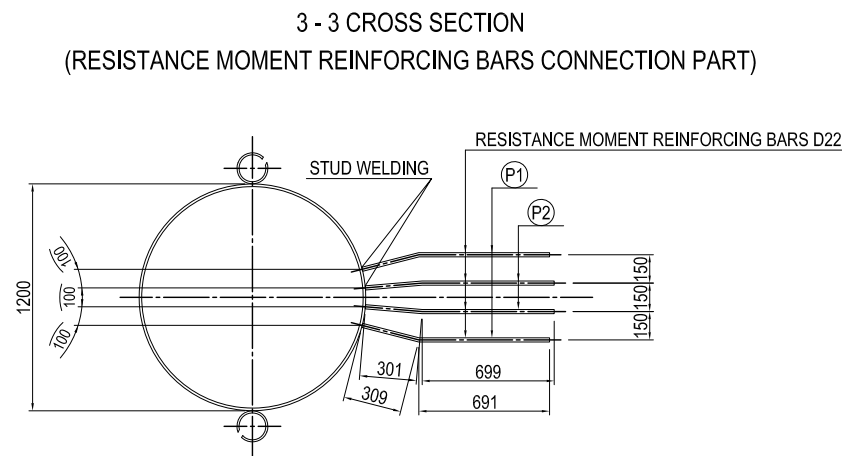
DETAIL OF CONNECTION BETWEEN STEEL PIPE SHEET PILE AND FOOTING OF P18 PIER



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



FABRICATION OF REINFORCING BARS S=1:40

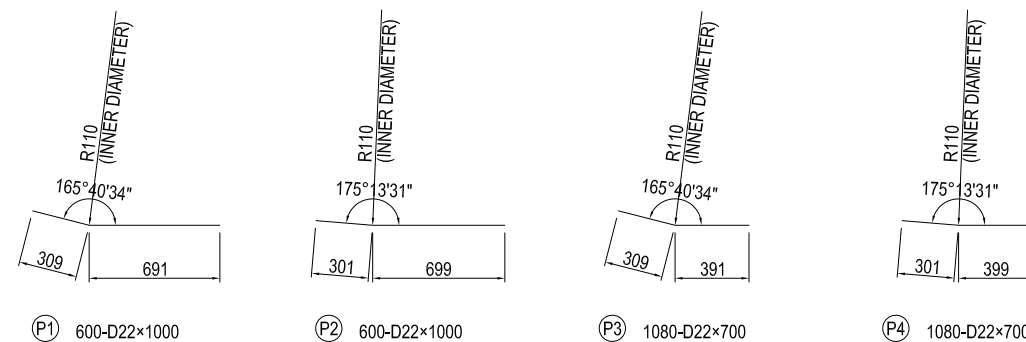
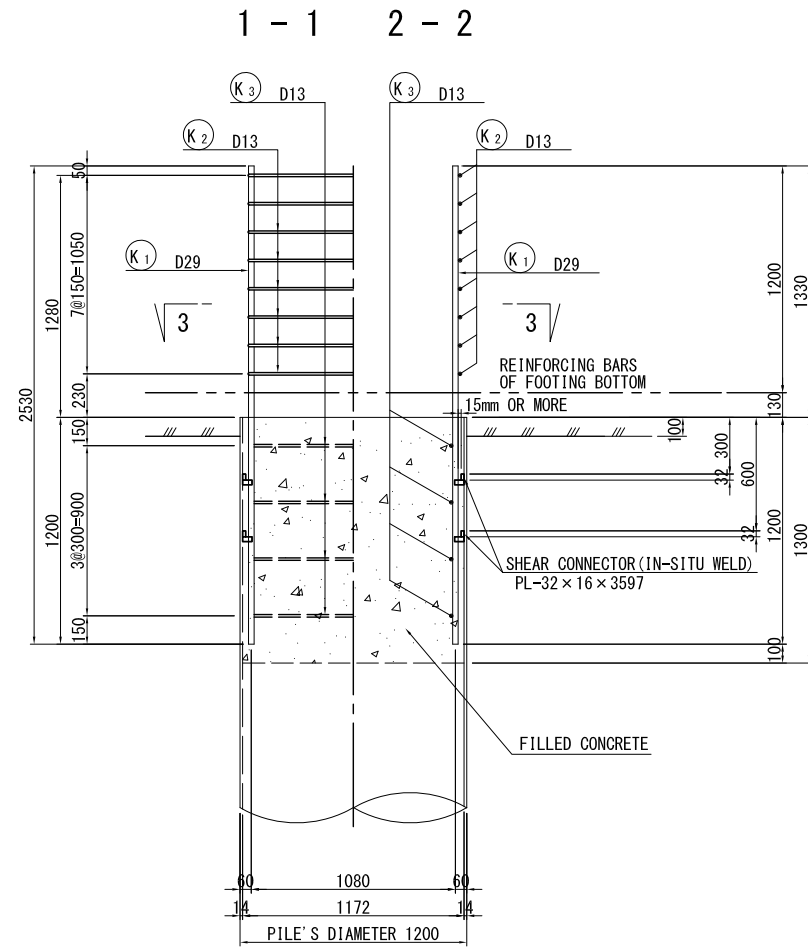


TABLE OF REINFORCING BARS

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	

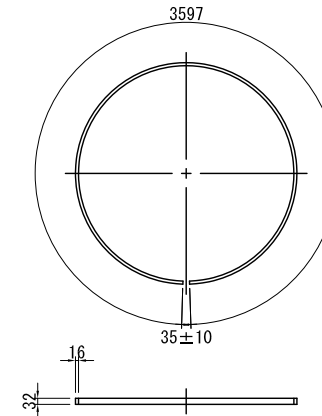
DETAIL OF PILE TOP CONNECTION TO THE BASE CONCRETE OF P18 PIER S=1:40

DETAIL OF PILE TOP

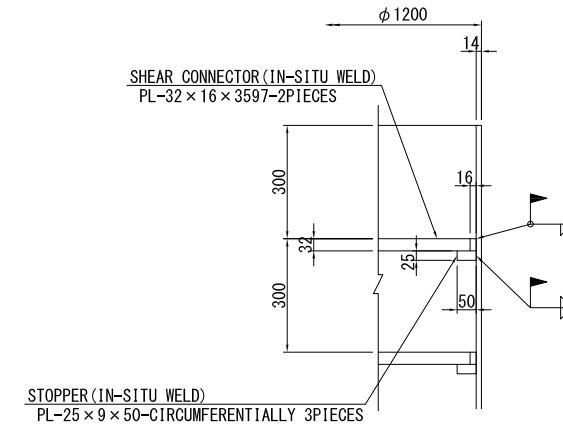


DETAIL OF ATTACHMENT OF SHEAR CONNECTOR

CENTER OF LENGTH



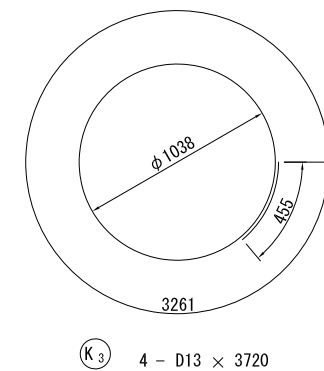
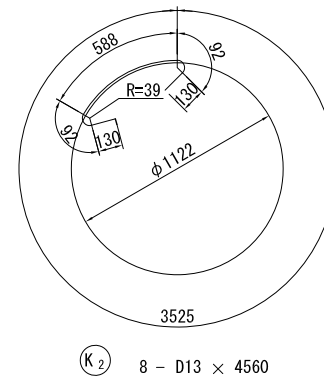
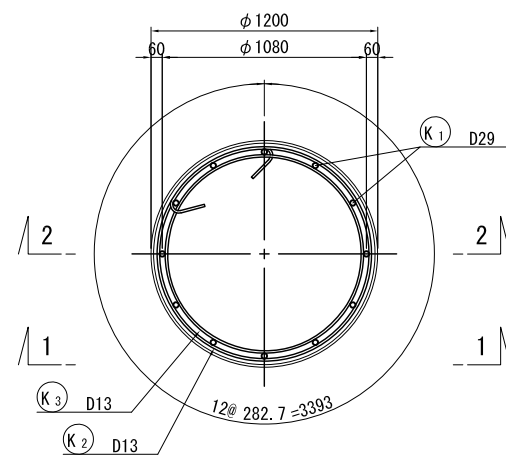
SETTING IN THE FIELD S=1:20



MATERIAL LIST

MARKS	SECTION SIZE	LENGTH (mm)	NOS. OF BARS	UNIT WEIGHT (kg/m)	WEIGHT/E.A. (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 (σ _{ck} = 24 N/mm ²)								
V = 1/4 × π × 1.172 ² × 1.300 = 1.402 m ³								

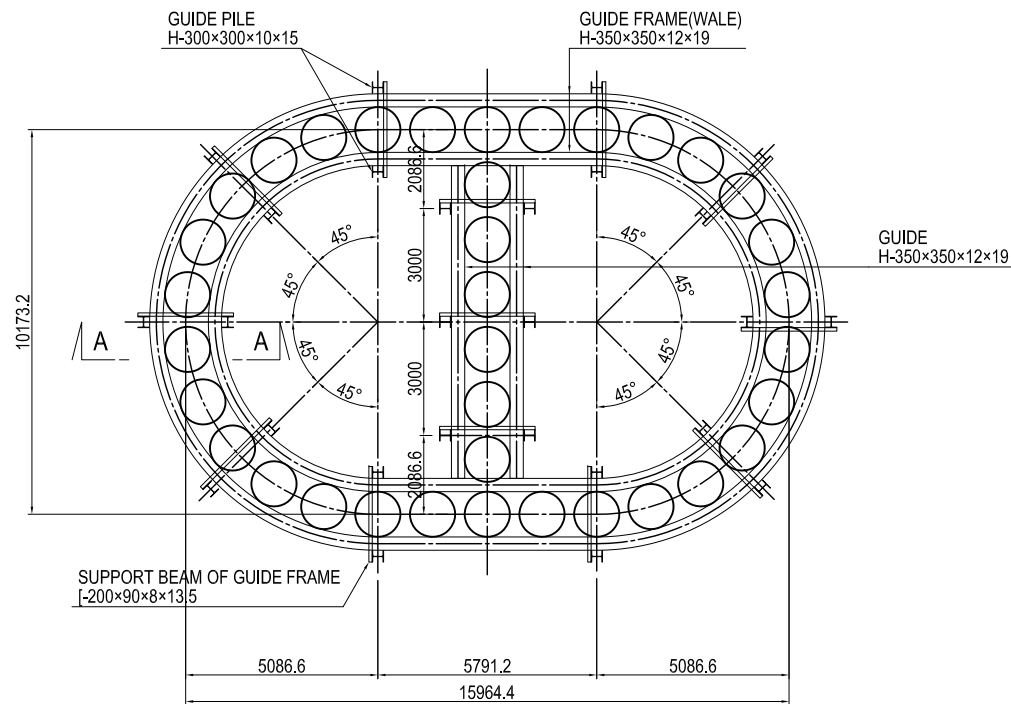
3 - 3



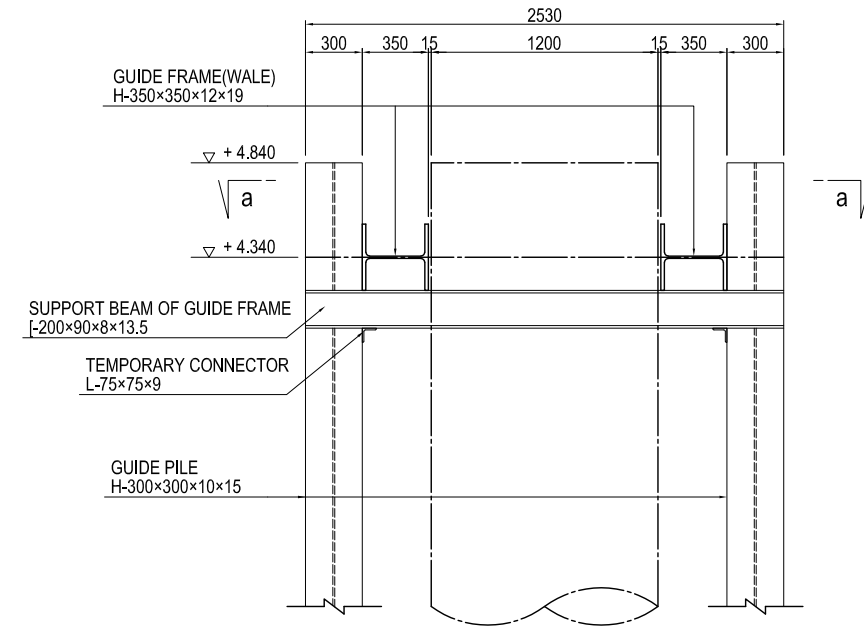
ITEM	DIVISION	UNIT CONTENT	WEIGHT/E.A.	QUANTITY
NUMBER OF PILE		Number		6
PILE TOP	SS400	TOTAL	kg	29.4
REINFORCEMENT	SD345	D29	kg	153
		D13	kg	51
		TOTAL	kg	204
FILLED CONCRETE	σ _{ck} = 24 N/mm ²	m ³	1.402	8.4

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P18 PIER (1)

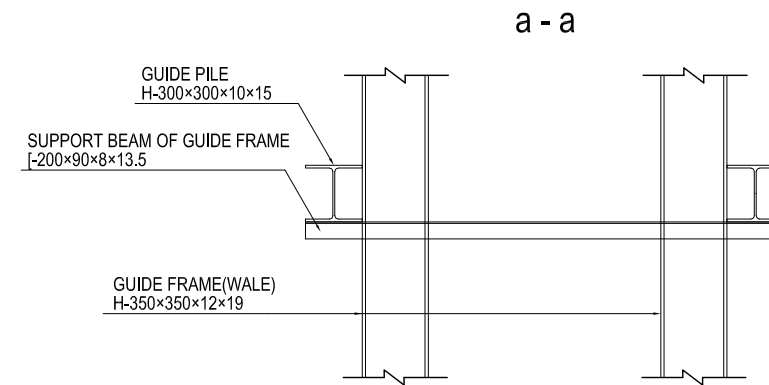
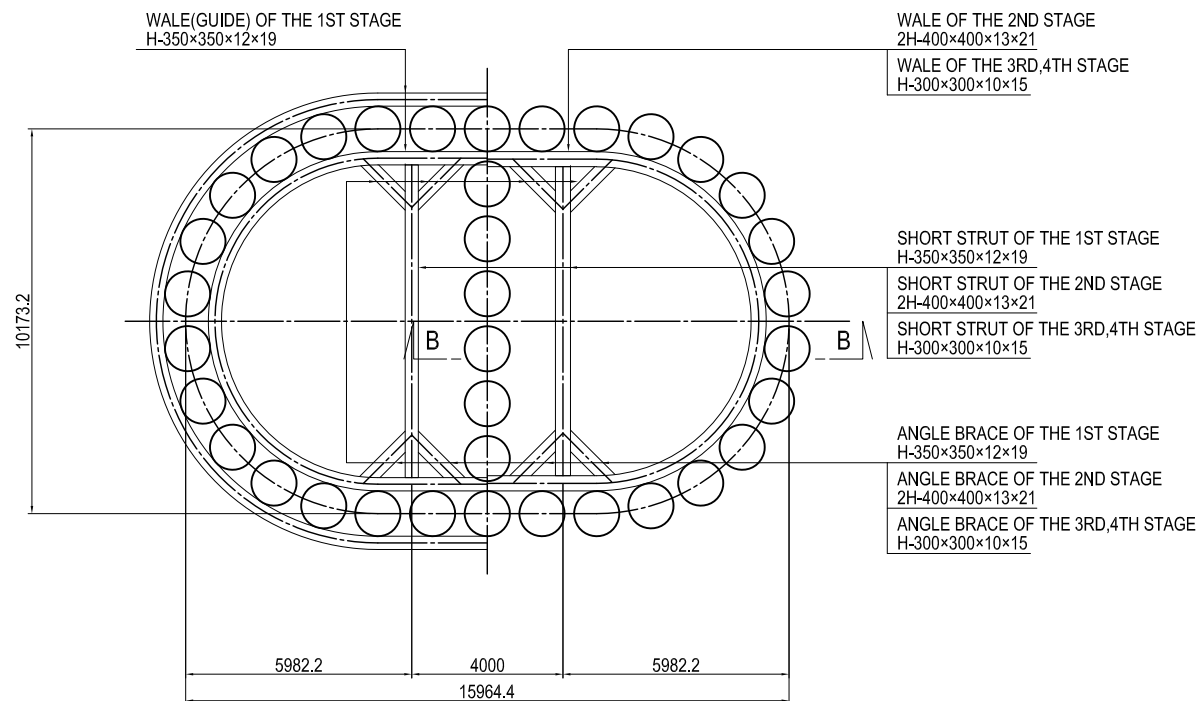
LAYOUT PLAN OF GUIDE FRAMES AND GUIDE PILES S=1:200



DETAIL OF ATTACHMENT OF GUIDE PILES AND GUIDE FRAMES S=1:40



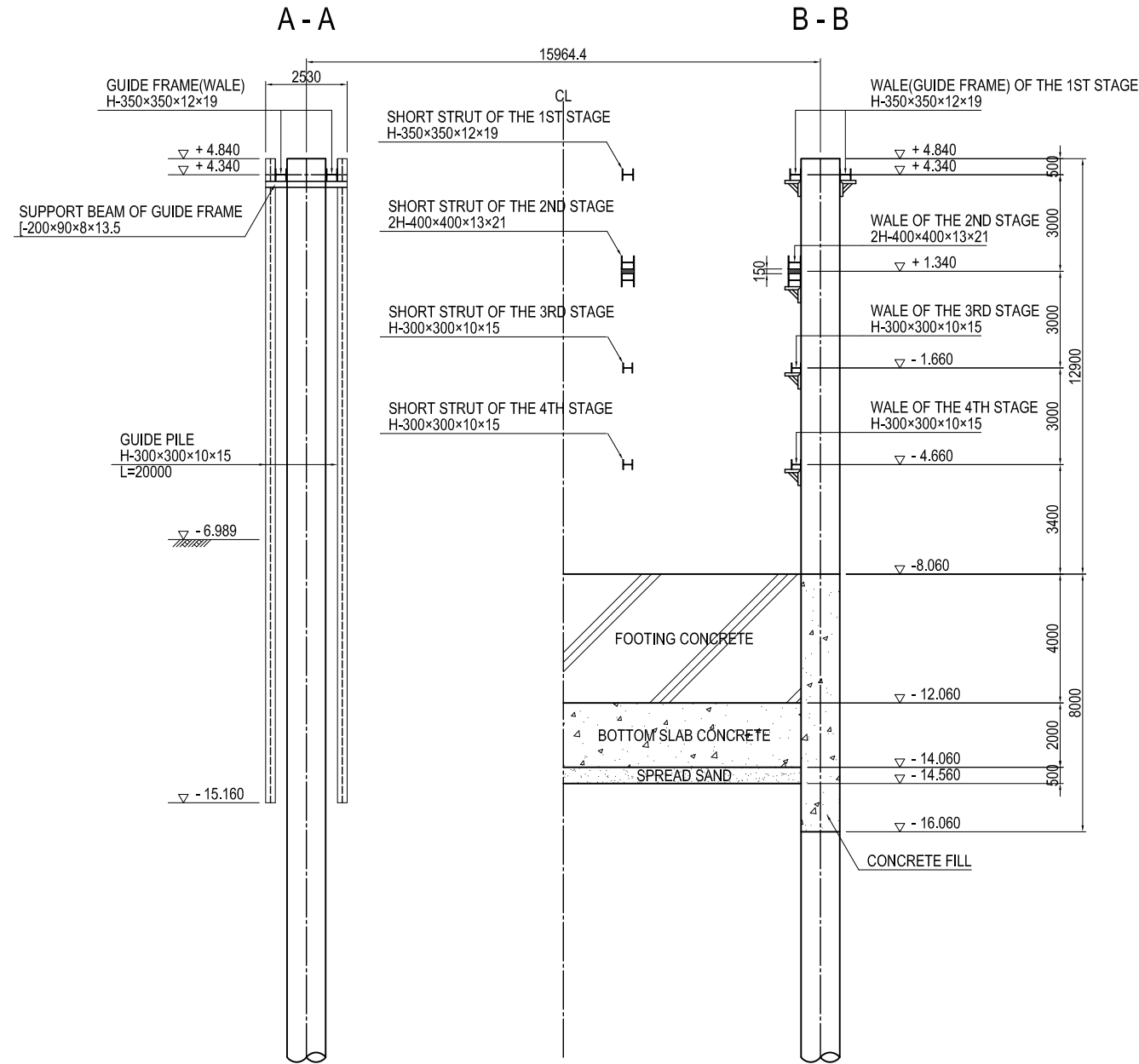
LAYOUT PLAN OF STRUTS AND WALES S=1:200



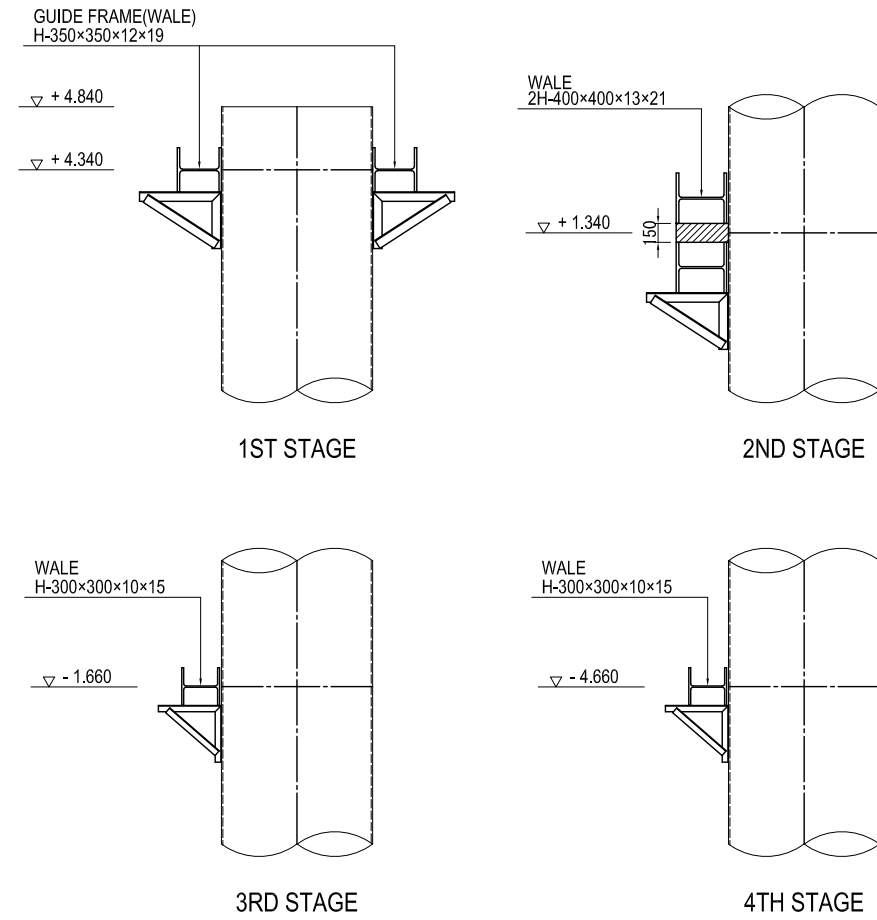
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	S. IMADA		27 Nov.2017	(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P18 PIER (1)	2
				T. HAYAKAWA		28 Nov.2017		DWG No.
				Y. SANO		29 Nov.2017		P2-SB-2430

(REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P18 PIER(2)

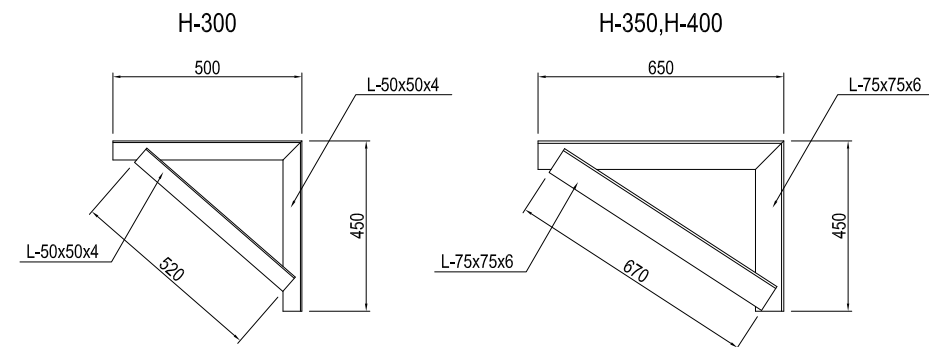
CROSS SECTION S=1:200



DETAIL OF ATTACHMENT OF WALE S=1:60



DETAIL OF BRACKET S=1:20



PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE (REFERENCE) LAYOUT PLAN OF COFFERDAM PART OF P18 PIER (2)	PACKAGE	
				PREPARED BY	S. IMADA			27 Nov.2017	2
				CHECKED BY	T. HAYAKAWA			28 Nov.2017	DWG No.
				APPROVED BY	Y. SANO			29 Nov.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
<p>Excavate inside of exterior sheet piles and filled with concrete as shown. Draining the inside of cofferdam up to +0.340m level. The 1st support Installation.</p>	<p>The 2nd support Installation. Underwater excavation up to -14.560m level.</p>	<p>Draining the inside of cofferdam up to -2.660m level. Placement of spread sand followed by Casting undewater bottom slab concrete.</p>	<p>The 3rd support Installation. Dry up inside the cofferdam.</p>	<p>The 4th support Installation.</p>
<p>STEP 6</p>				
<p>Casting of footing concrete.</p>				

Note : This drawing can be used for reference only.

<p>PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT</p>	<p>FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE</p>	<p>JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.</p>	<p>PREPARED BY CHECKED BY APPROVED BY</p>	<p>NAME S. IMADA T. HAYAKAWA Y. SANO</p>	<p>SIGNATURE </p>	<p>DATE 27 Nov.2017 28 Nov.2017 29 Nov.2017</p>	<p>DRAWING TITLE (REFERENCE) CONSTRUCTION PLAN OF STEEL PIPE SHEET PILE WORK OF P18 PIER</p>	<p>PACKAGE 2 DWG No. P2-SB-2432</p>
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