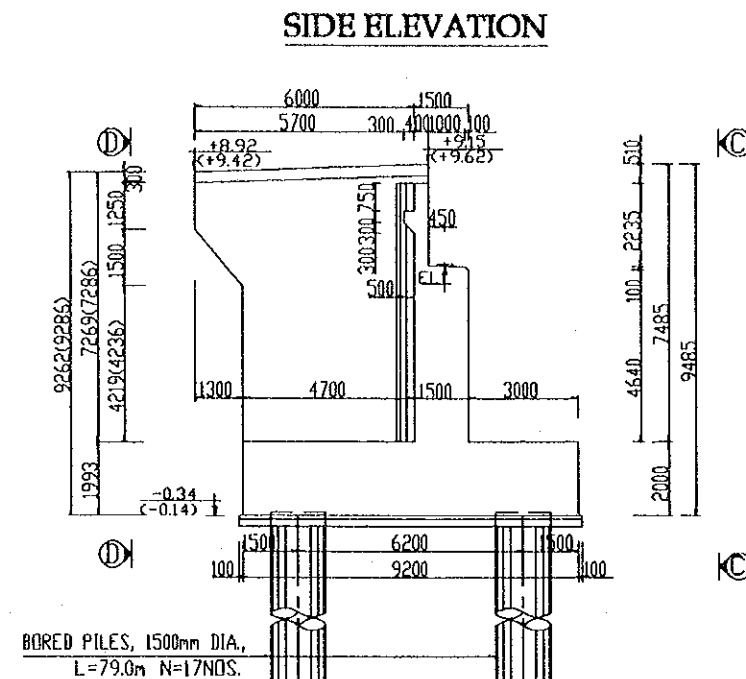
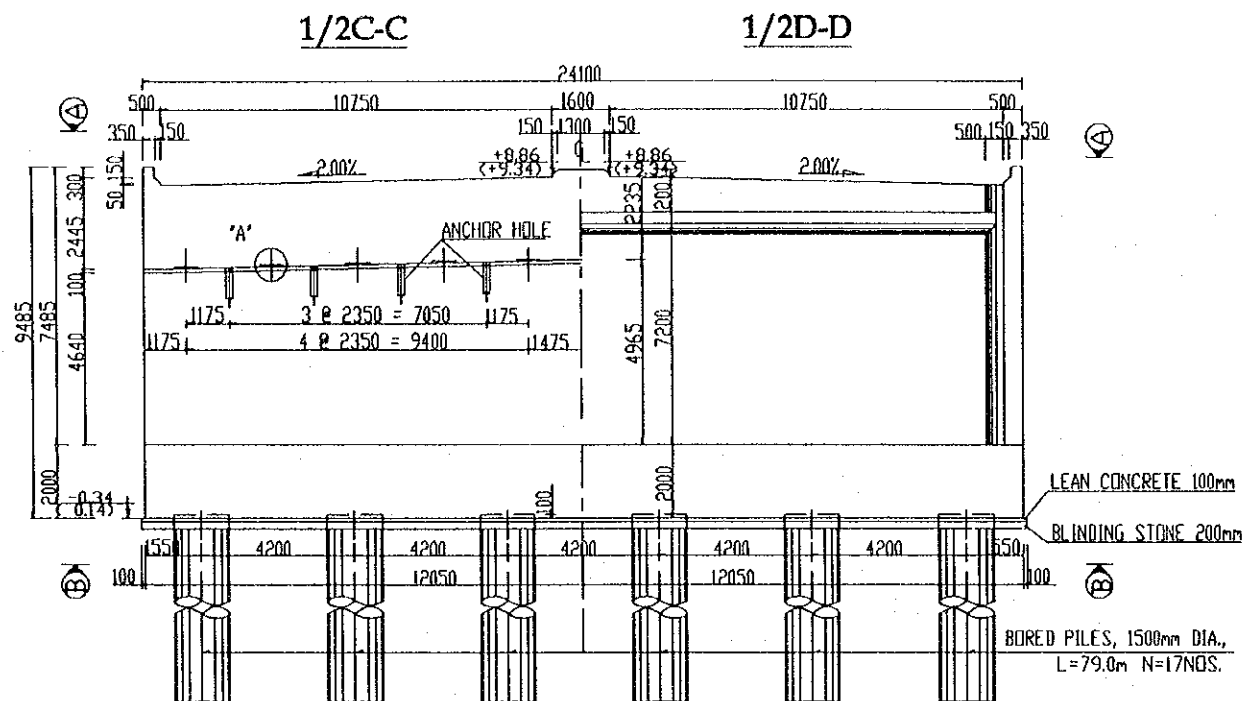


## **IV. ABUTMENTS**

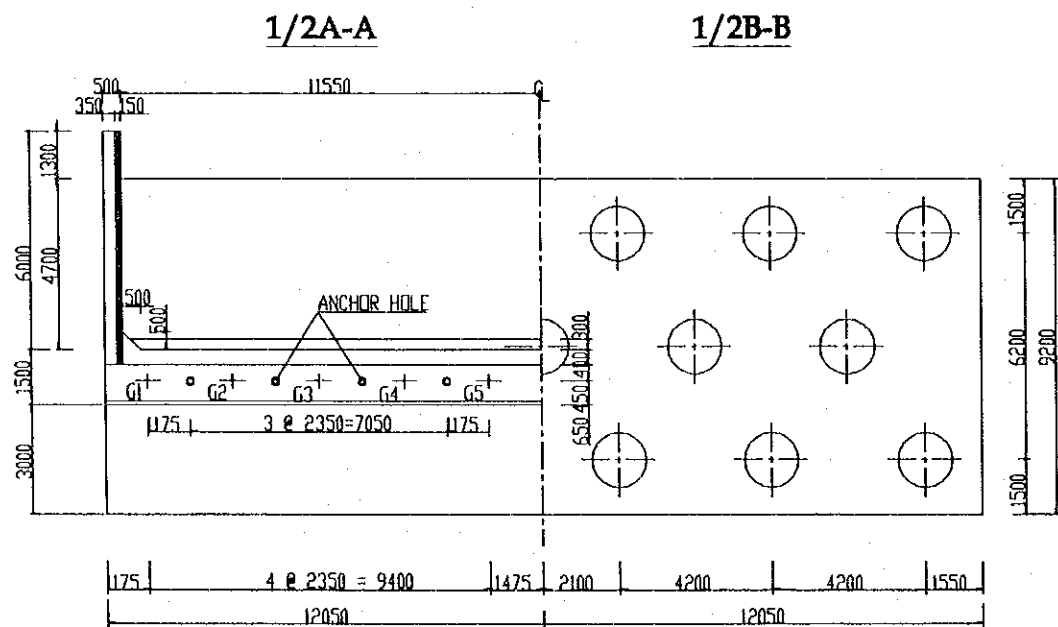
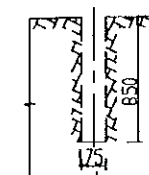
# DETAIL OF ABUTMENT

(SCALE 1:200)



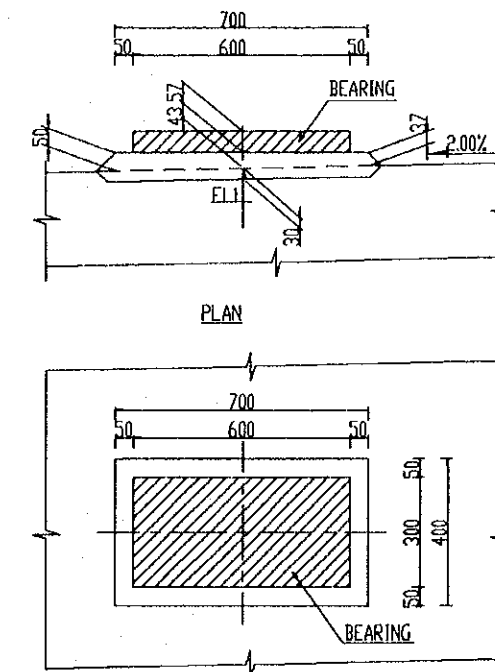
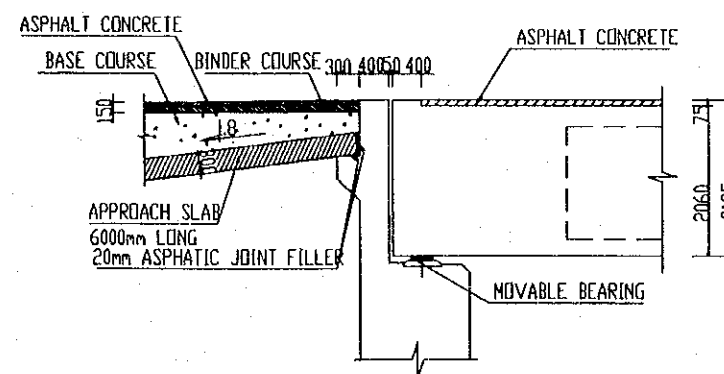
## DETAIL OF ANCHOR HOLE

(SCALE 1:50)



## DETAIL OF BACK WALL

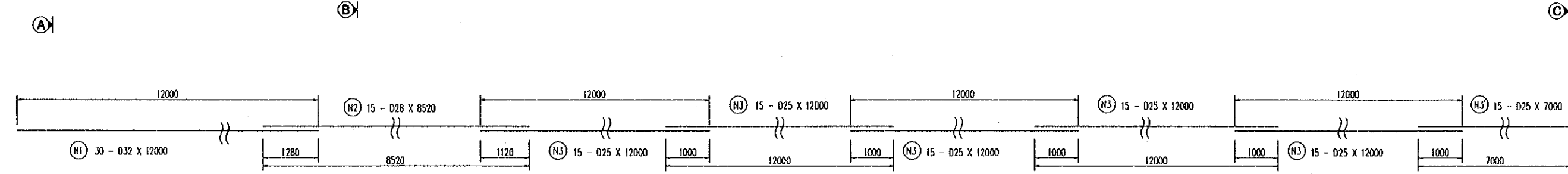
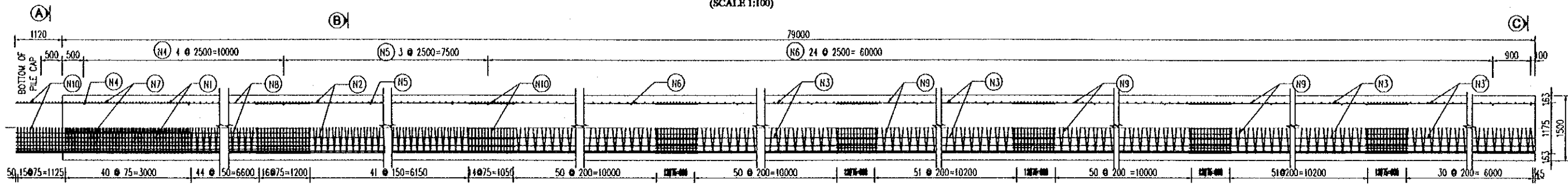
(SCALE 1:100)



PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPON KOEI CO., LTD.	T. Kametani	K. Matsumoto	K. Enomoto	TRA ON BRIDGE ABUTMENTS ABUTMENT A1&A2-GENERAL VIEW	P1/BR3/0680
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

# BORED CAST IN-SITU PILE DETAILS FOR ABUTMENTS A1&A2

(SCALE 1:100)



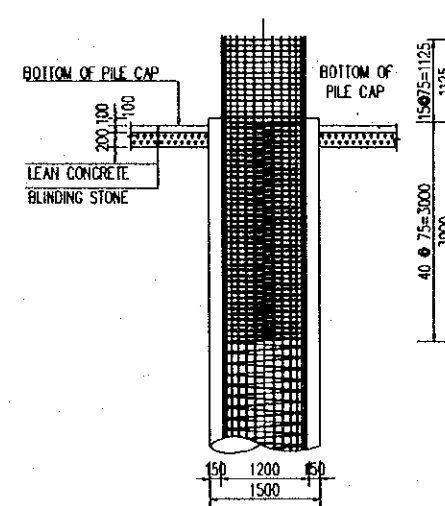
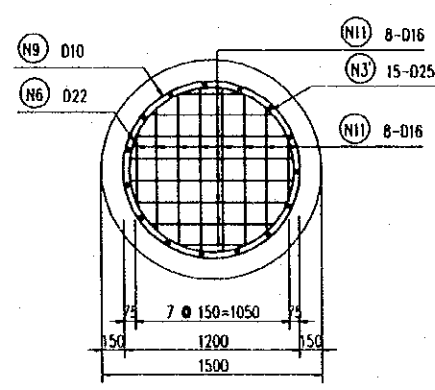
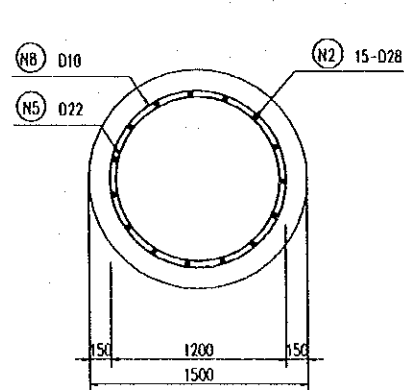
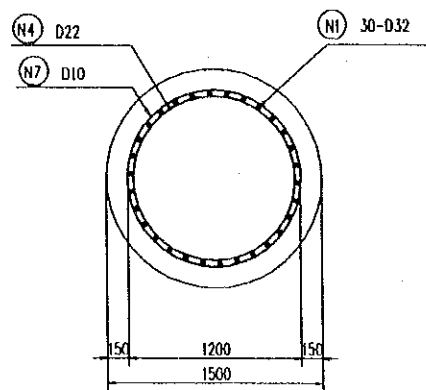
**SECTION A-A**  
(SCALE 1:50)

**SECTION B-B**  
(SCALE 1:50)

**SECTION C-C**  
(SCALE 1:50)

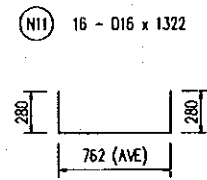
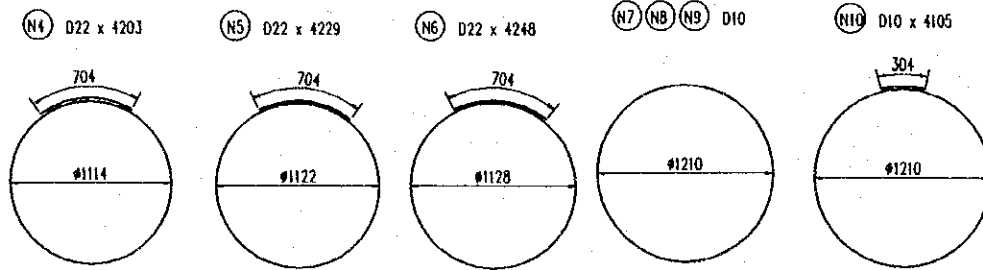
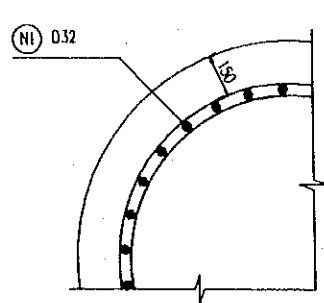
**DETAIL OF CONCRETE PILE HEAD**  
(SCALE 1:100)

**MATERIAL OF PILE**



TYPE	D(mm)	LENGTH OF BAR (mm)	UNIT WEIGHT (kg/m)	NUMBER	WEIGHT (kg)	CONCRETE VOLUMN (m3)	
N1	D32	12000	6.313	30	2272.7		
N2	D28	8520	4.834	15	617.8		
N3	D25	12000	3.853	75	3467.7		
N3'	D25	7000	3.853	15	404.6		
N4	D22	4203	2.984	6	75.3		
N5	D22	4229	2.984	3	37.9		
N6	D22	4248	2.984	25	316.9		
N7	D10	15205.3	0.617	1	93.8		
N8	D10	32311.3	0.617	1	199.4		
N9	D10	10719.74	0.617	1	661.4		
N10	D10	4105	0.617	11.3	286.2		
N11	D16	1322	1.578	16	33.4		
					D10	1240.8 kg	
					D16	33.4 kg	
					D22	430.1 kg	
					D25	3872.3 kg	
					D28	617.8 kg	
					D32	2272.7 kg	
					TOTAL	8467.1 kg	139.60

**DETAIL OF RECOVERING**  
(SCALE 1:25)



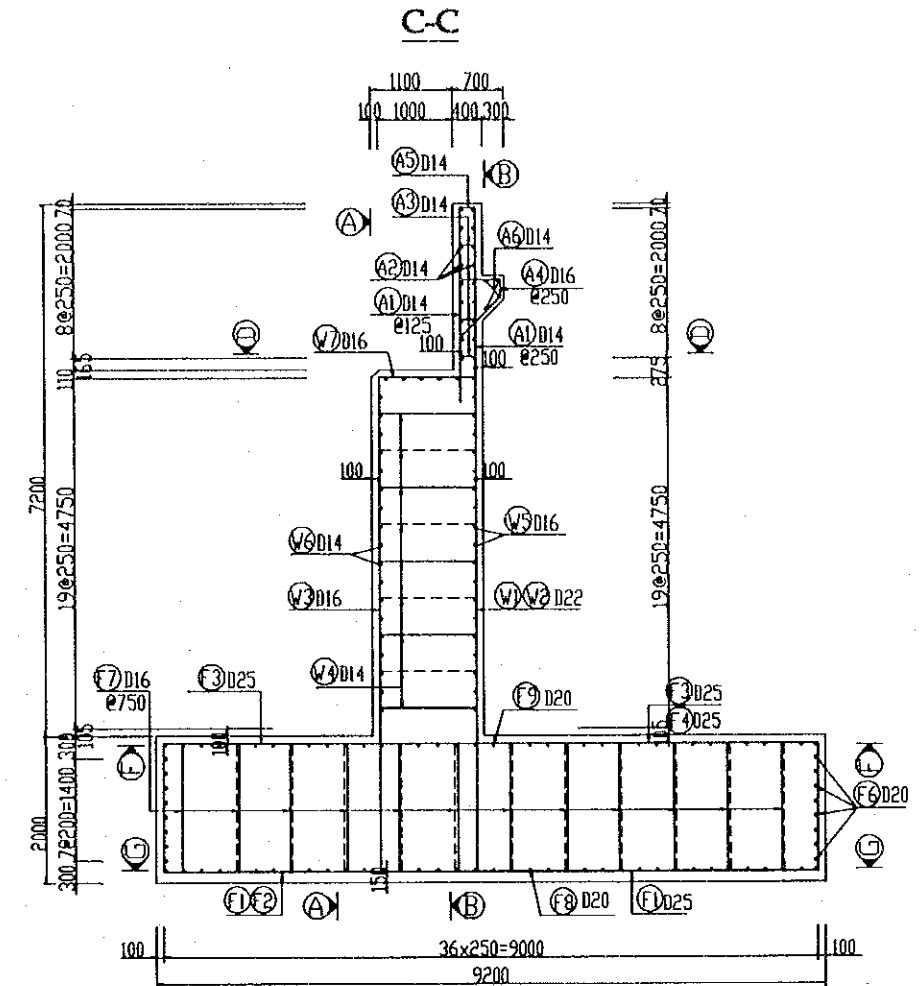
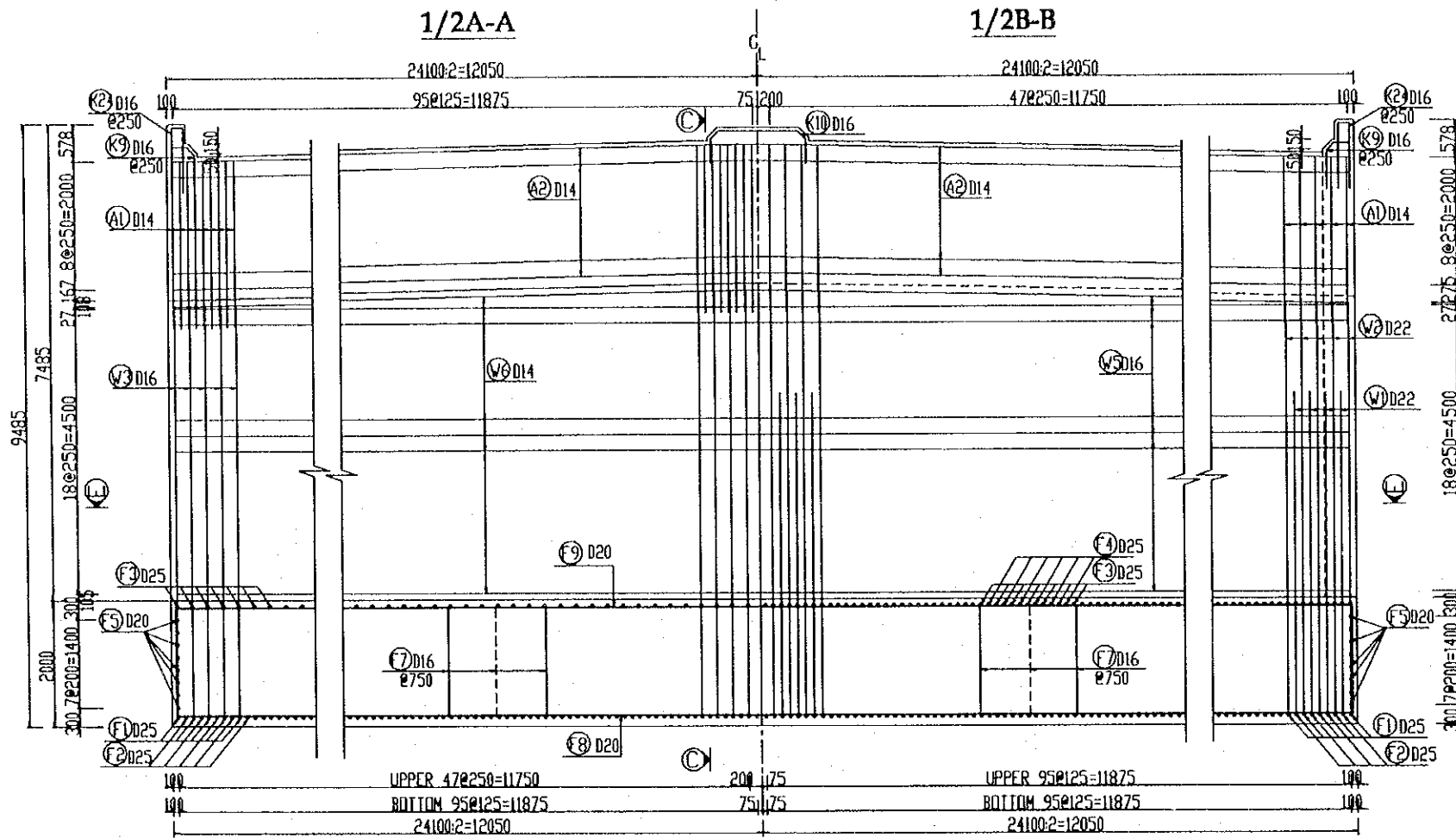
**NOTES**

- FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P1/BRJ/0030.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOBEL CO., LTD.	T. Kametani	K. Matsumoto	K. Enomoto	TRA ON BRIDGE ABUTMENTS A1&A2 BORED PILE DETAILS - L-79M	P1/BRJ/0690
				NAME: T. Kametani SIGNATURE: [Signature] DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE: [Signature] DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: [Signature] DATE: 5/10/2000		

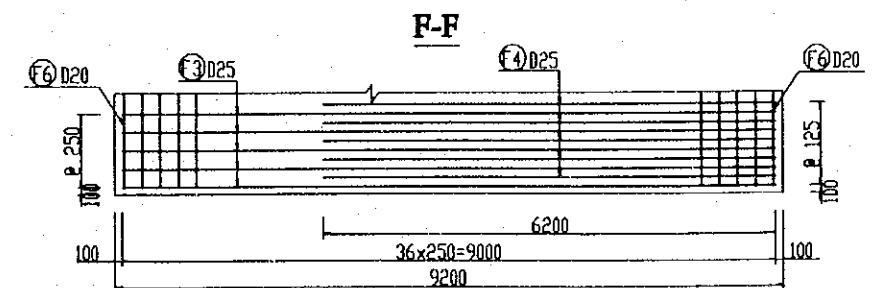
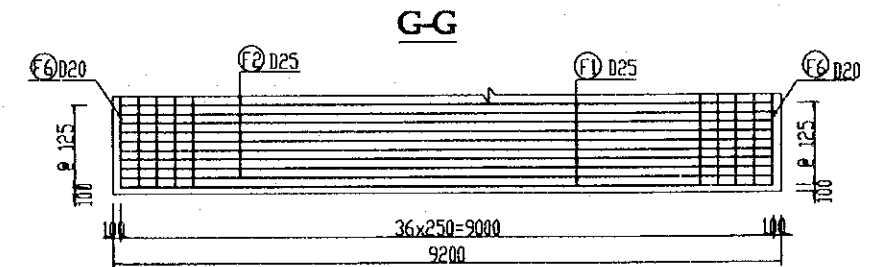
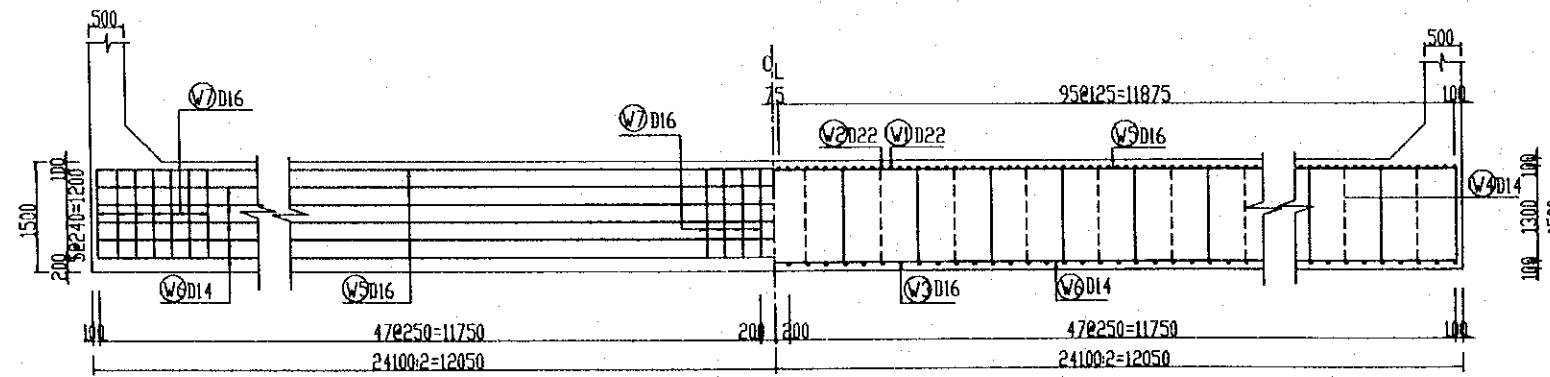
# REINFORCEMENT ARRANGEMENT OF ABUTMENT A1

(SCALE 1:100)



1/2D-D

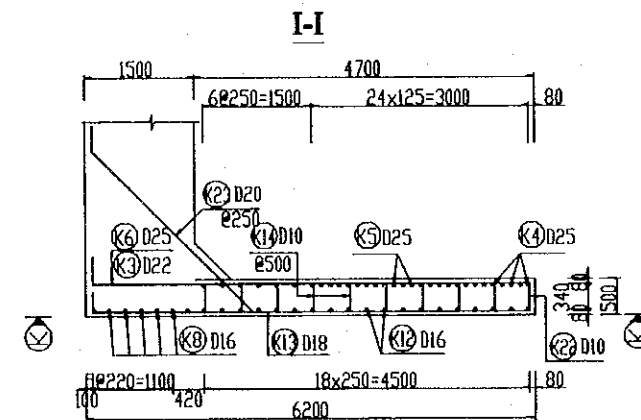
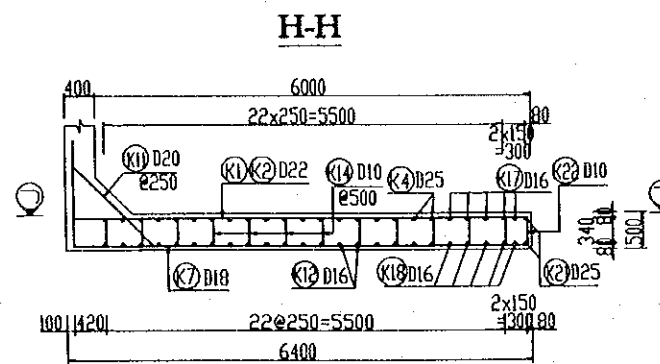
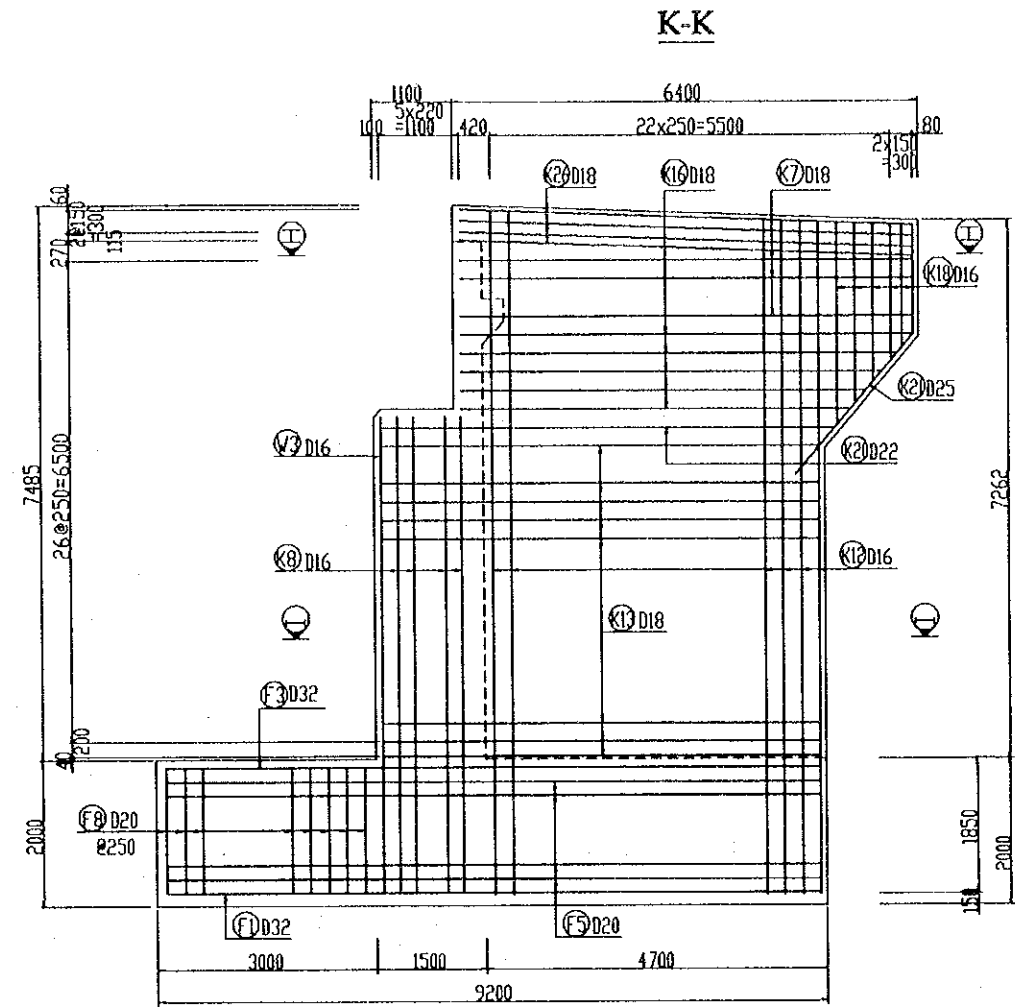
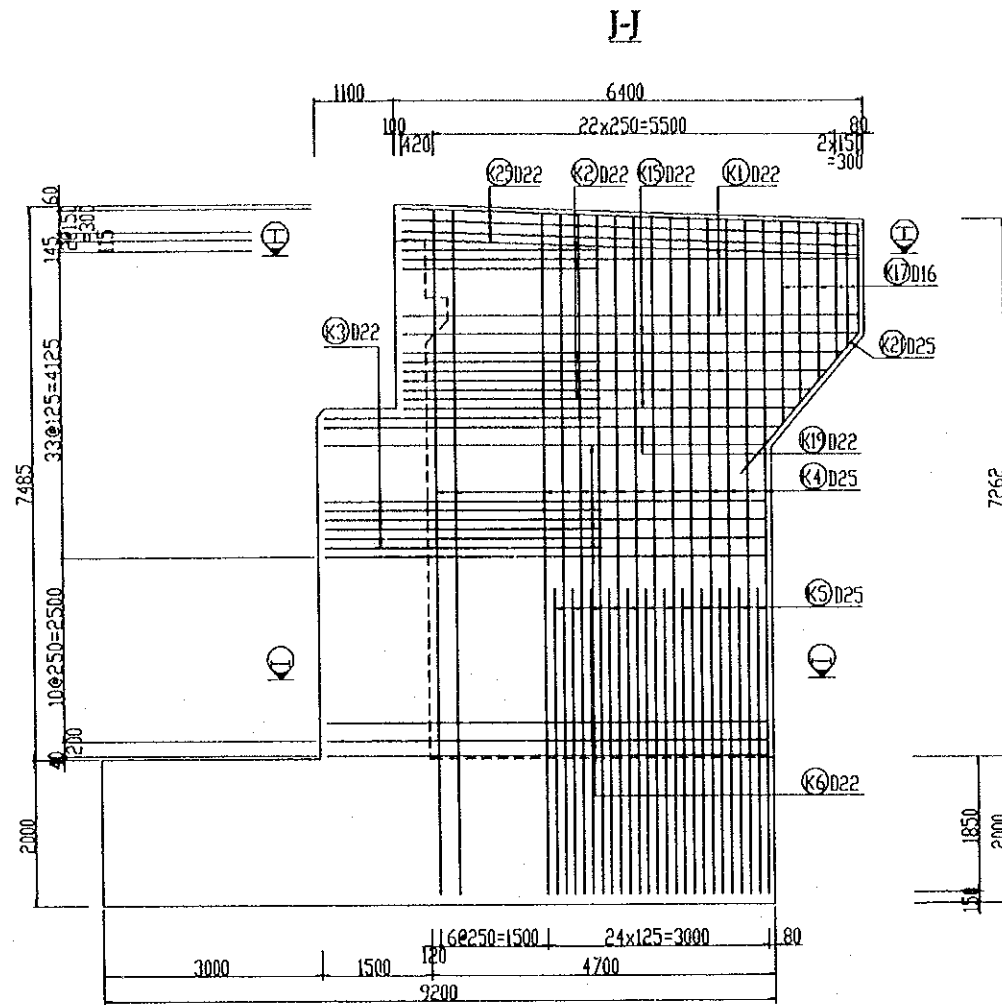
1/2E-E



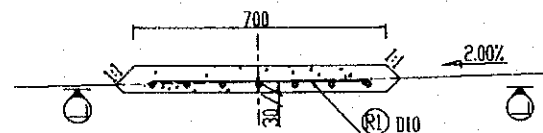
**NOTE**

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.PI/BRI/0030

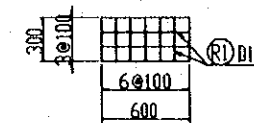
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME: T. Kametani SIGNATURE: [Signature] DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE: [Signature] DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: [Signature] DATE: 5/10/2000	TRA ON BRIDGE ABUTMENTS ABUTMENT A1-REINFORCEMENT-SHEET1	P1/BR3/0700



**REINFORCING SHOES**  
(SCALE 1:20)



**L-L**  
(SCALE 1:50)

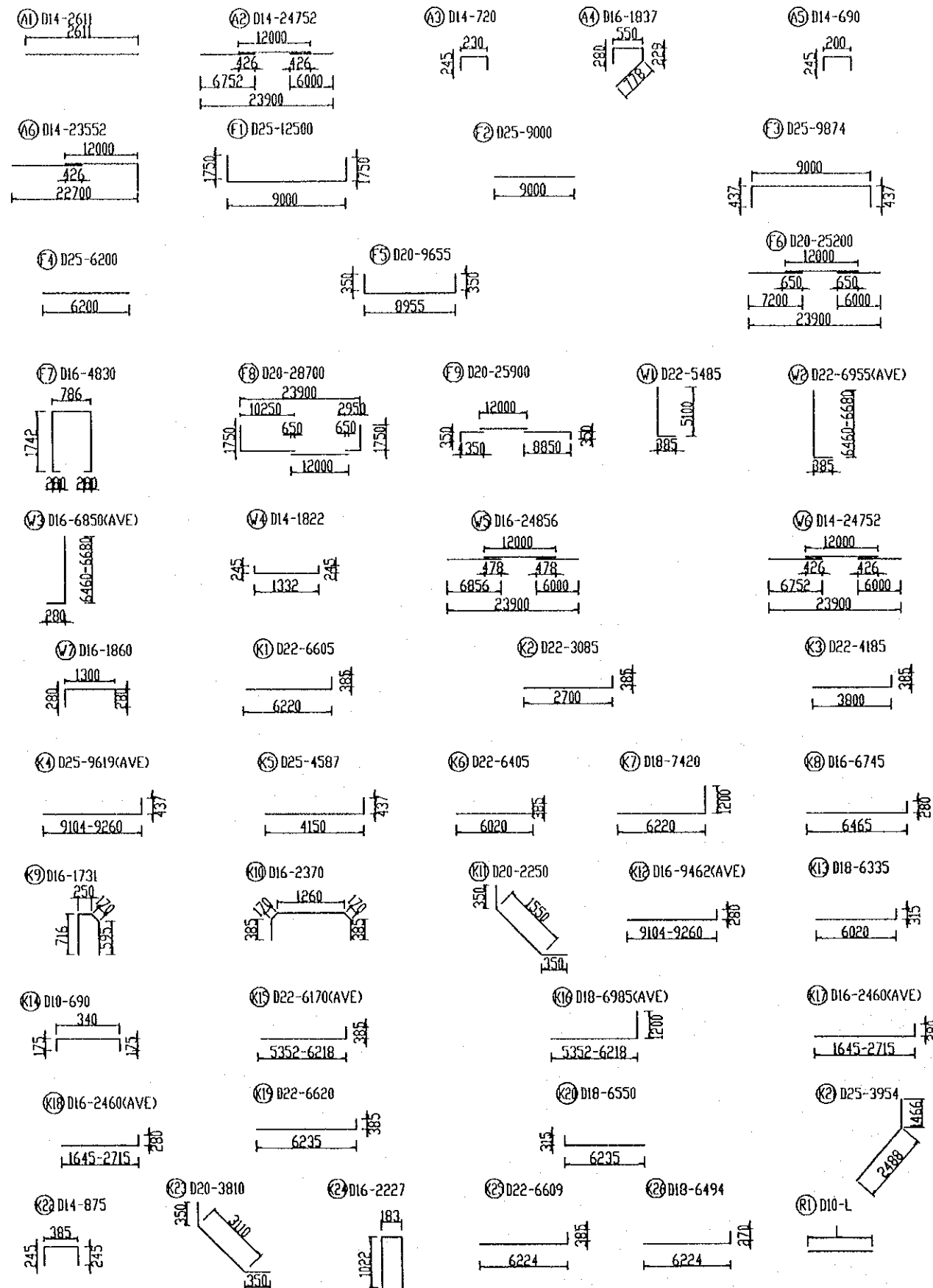


**NOTE**

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.P1/BRI/0030

<b>PROJECT NAME</b> DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	<b>IMPLEMENTATION AGENCY</b> JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	<b>EXECUTING AGENCY</b> SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	<b>JICA STUDY TEAM</b> NIPPON KOEI CO.,LTD.	<b>PREPARED BY</b> NAME: T. Kametani SIGNATURE: [Signature] DATE: 20/9/2000	<b>CHECKED BY</b> K. Matsumoto E. [Signature] 29/9/2000	<b>APPROVED BY</b> K. Enomoto [Signature] 5/10/2000	<b>DRAWING TITLE</b> TRA ON BRIDGE ABUTMENTS ABUTMENT A1-REINFORCEMENT-SHEET2	<b>DWG NO.</b> P1/BR3/0710
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LIST OF REINFORCEMENT (FOR ABUTMENT A1)



REINF. No	DIA. (mm)	LENGTH (mm)	NUMBER	UNIT WEIGHT	WEIGHT	REMARKS
				(kg/m)	(kg)	
A1	14	2611	289	1.208	911.6	
A2	14	24752	18	1.208	538.3	
A3	14	720	196	1.208	170.5	
A4	16	1837	97	1.578	281.2	
A5	14	690	97	1.208	80.9	
A6	14	23552	4	1.208	113.9	
F1	25	12500	97	3.853	4671.8	
F2	25	9000	96	3.853	3329.0	
F3	25	9874	97	3.853	3690.4	
F4	25	6200	96	3.853	2293.4	
F5	20	9655	16	2.466	381.0	
F6	20	25200	16	2.466	994.3	
F7	16	4830	176	1.578	1341.5	
F8	20	28700	37	2.466	2618.7	
F9	20	25900	37	2.466	2363.2	
V1	22	5485	94	2.984	1538.6	
V2	22	6955	97	2.984	2013.2	AVERAGE
V3	16	6850	97	1.578	1048.6	AVERAGE
V4	14	1822	221	1.208	486.5	
V5	16	24856	20	1.578	784.5	
V6	14	24752	20	1.208	598.1	
V7	16	1860	97	1.578	284.8	
K1	22	6605	8	2.984	157.7	
K2	22	3085	18	2.984	165.8	
K3	22	4185	16	2.984	199.9	
K4	25	9619	38	3.853	1408.4	AVERAGE
K5	25	4587	24	3.853	424.2	
K6	22	6405	36	2.984	688.1	
K7	18	7420	8	1.998	118.7	
K8	16	6745	10	1.578	106.5	
K9	16	1731	52	1.578	142.1	
K10	16	2370	2	1.578	7.5	
K11	20	2250	18	2.466	99.9	
K12	16	9462	38	1.578	567.4	AVERAGE
K13	18	6335	36	1.998	455.7	
K14	10	690	140	0.617	59.7	
K15	22	6170	10	2.984	184.2	AVERAGE
K16	18	6985	10	1.998	139.6	AVERAGE
K17	16	2460	10	1.578	38.9	AVERAGE
K18	16	2460	10	1.578	38.9	AVERAGE
K19	22	6620	2	2.984	39.6	
K20	18	6550	2	1.998	26.2	
K21	25	3954	4	3.853	61.0	
K22	14	875	64	1.208	67.7	
K23	20	3810	38	2.466	357.1	
K24	16	2227	52	1.578	182.8	
K25	22	6609	8	2.984	157.8	
K26	18	6494	8	1.998	103.9	
R1	10	4500	10	0.617	27.8	
TOTAL				36561 Kg	36561.1	
D10	88 Kg	D20	6814 Kg			
D14	2968 Kg	D22	5145 Kg			
D16	4825 Kg	D25	15878 Kg			
D18	844 Kg					

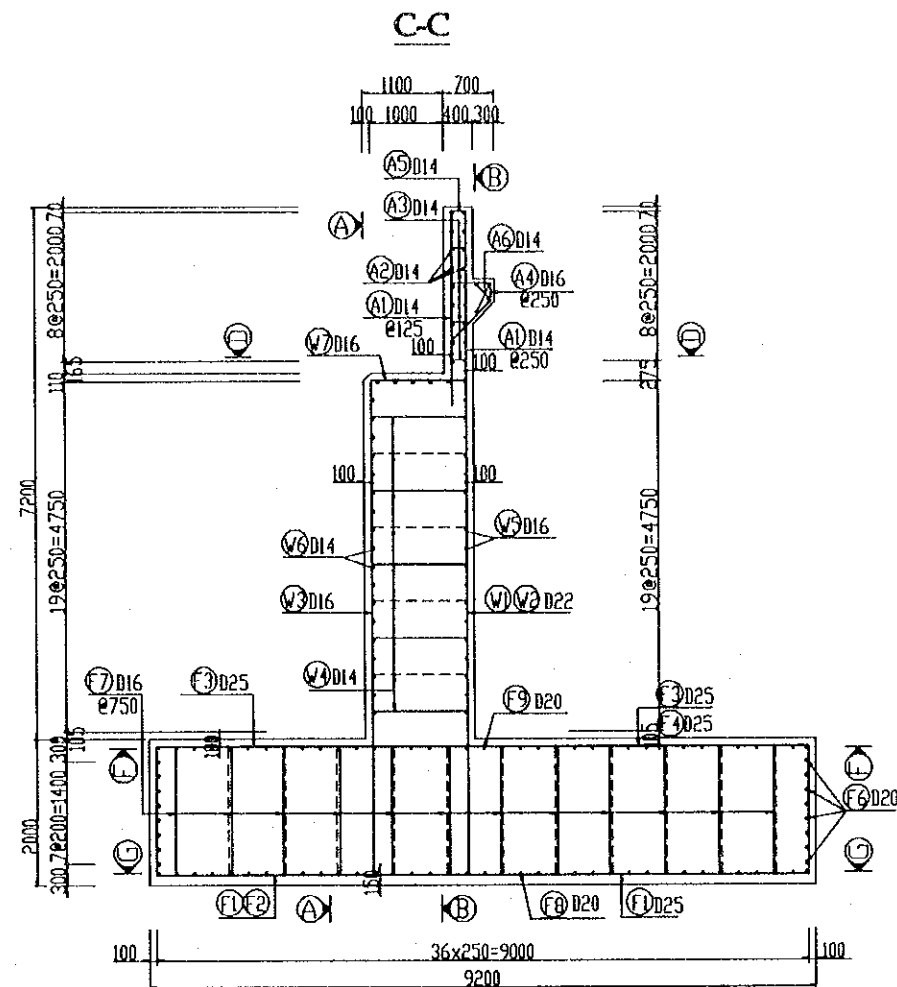
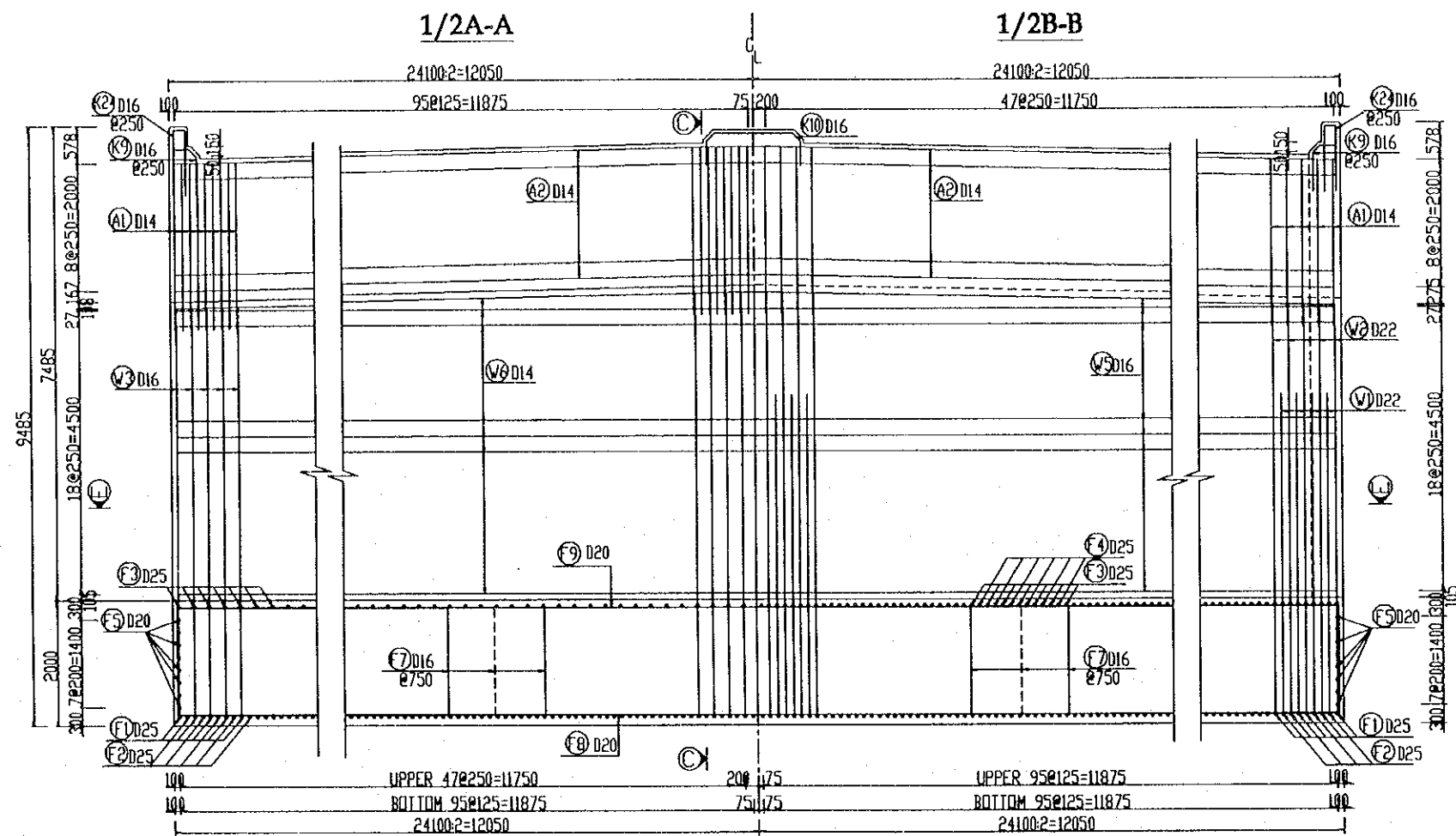
NOTE

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.P1/BRI/0030

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO., LTD.	T. Kametani	K. Matsumoto	K. Enomoto	TRA ON BRIDGE ABUTMENTS ABUTMENT A1-REINFORCEMENT-SHEETS3	P1/BR3/0720
				DATE	DATE	DATE		
				20/9/2000	29/9/2000	5/10/2000		

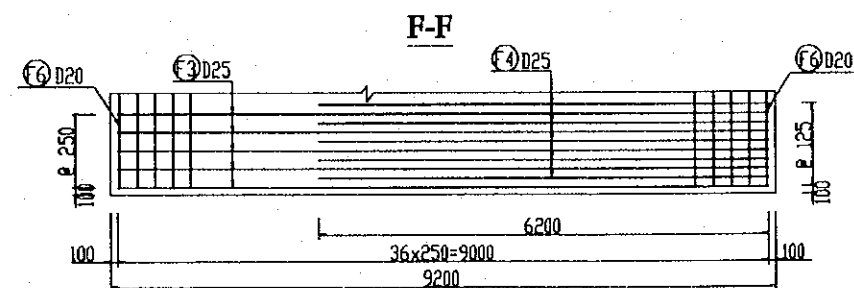
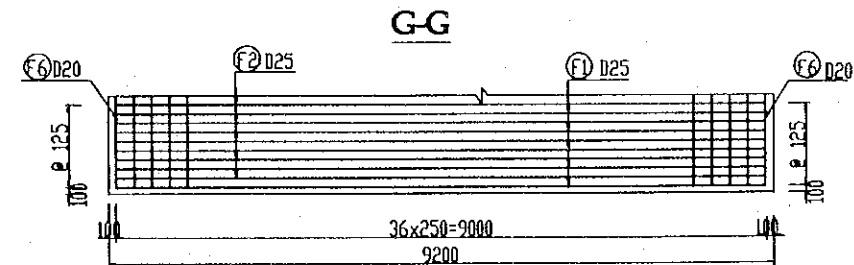
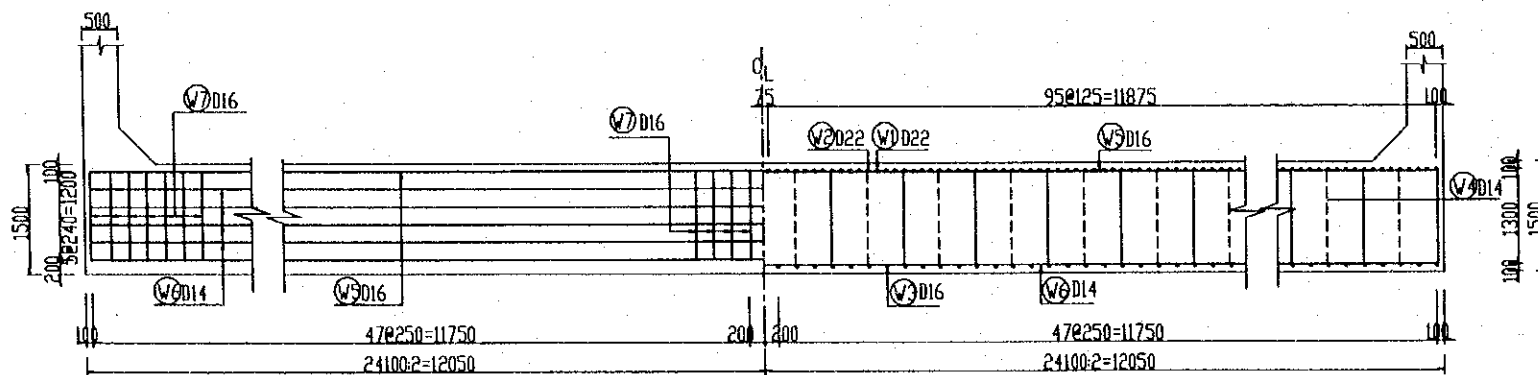
# REINFORCEMENT ARRANGEMENT OF ABUTMENT A2

(SCALE 1:100)



1/2D-D

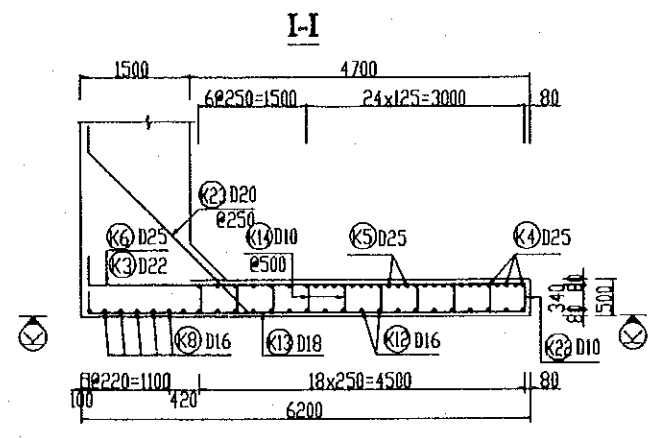
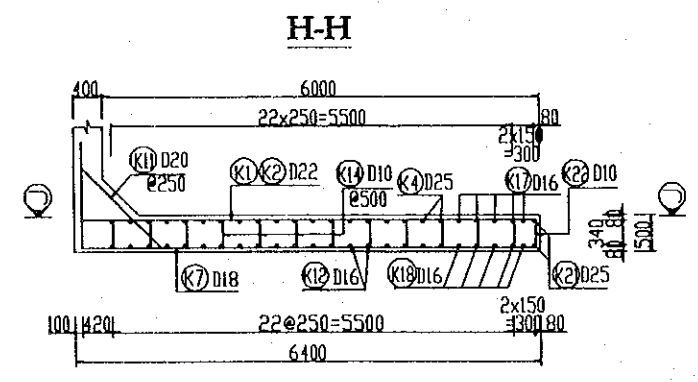
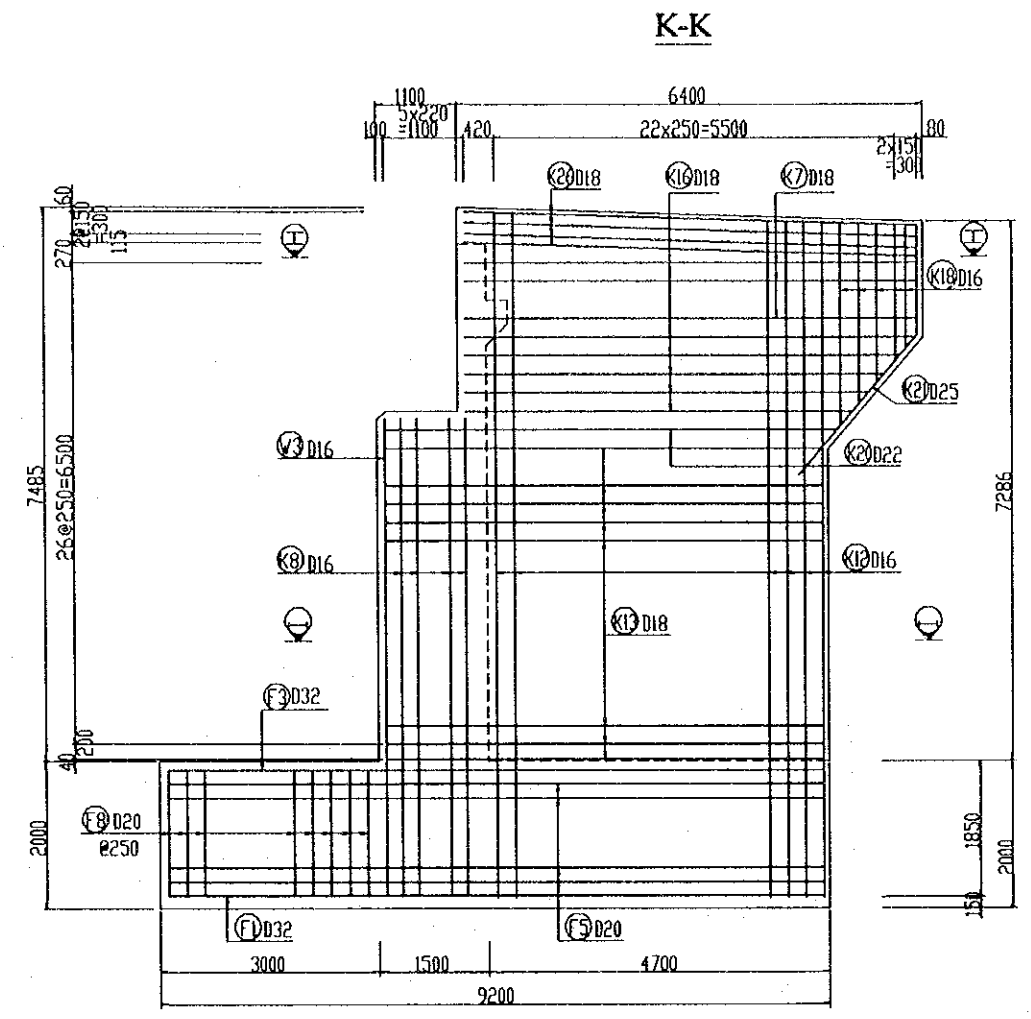
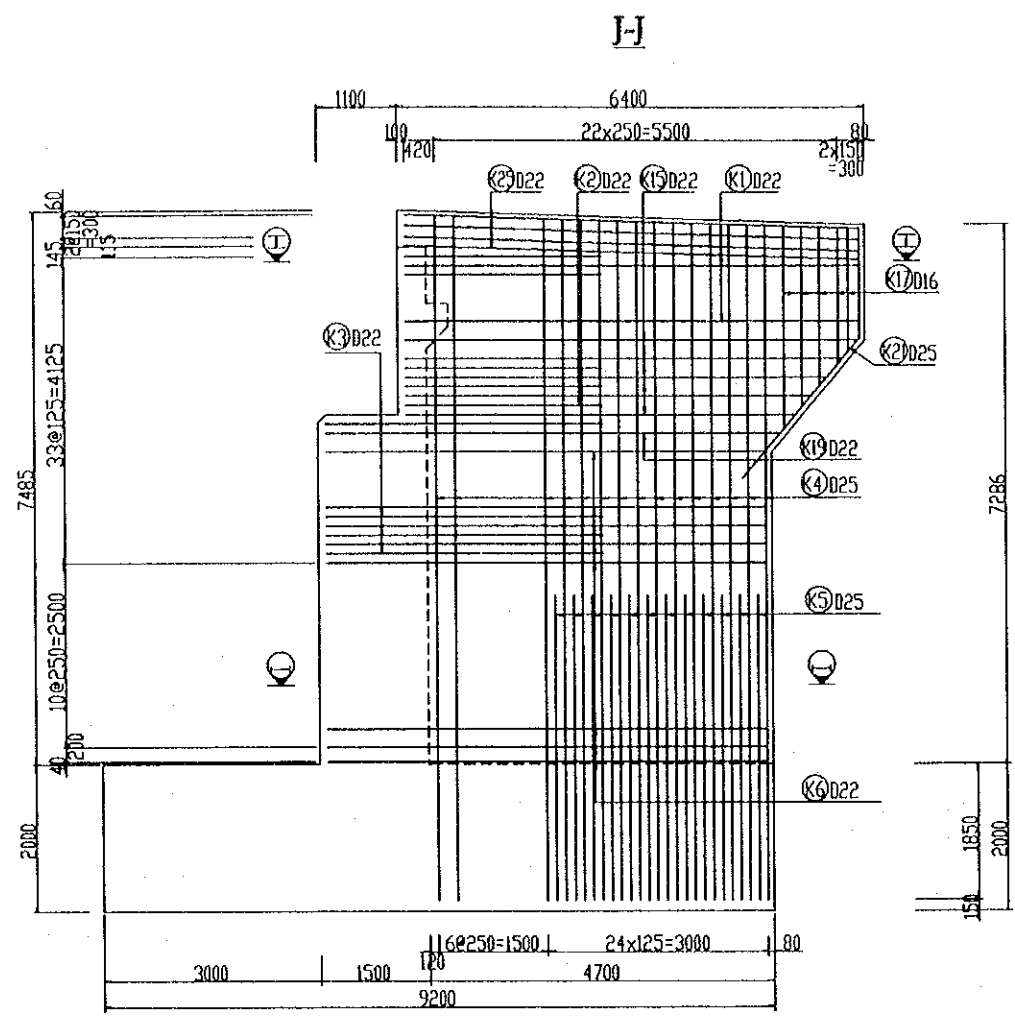
1/2E-E



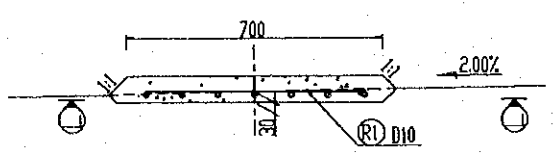
**NOTE**

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.PI/BRI/0030

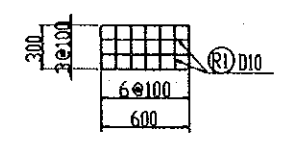
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPON KOEI CO.,LTD.	T. Kametani	K. Matsumoto	K. Enomoto	TRA ON BRIDGE ABUTMENTS ABUTMENT A2-REINFORCEMENT-SHEET1	P1/BR3/0730
				NAME	DATE	DATE		
				20/9/2000	29/9/2000	5/10/2000		



**REINFORCING SHOES**  
(SCALE 1:20)



**L-L**  
(SCALE 1:50)

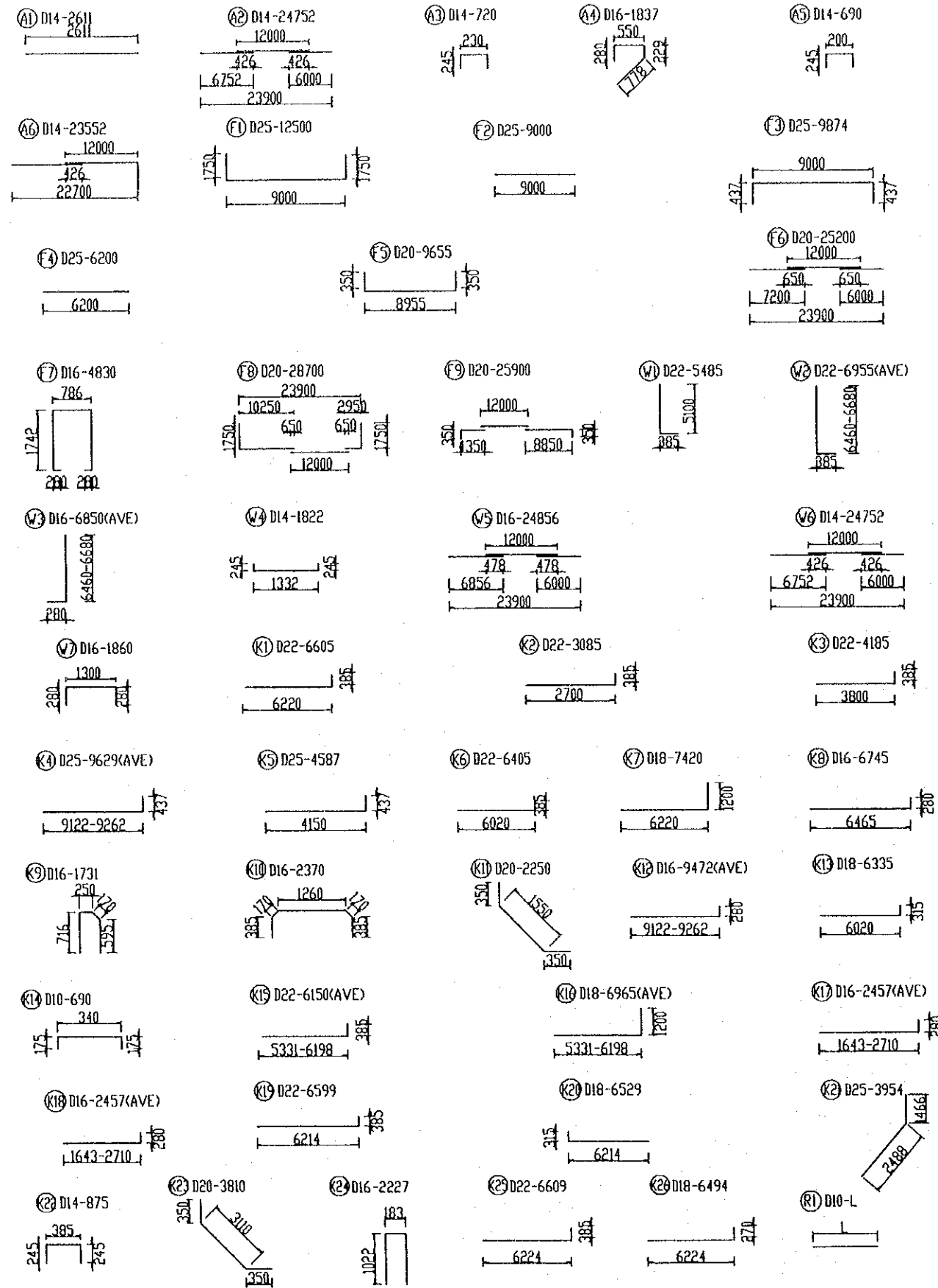


**NOTE**  
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.P1/BR1/0030

PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY <b>JICA</b> JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM <b>(NK)</b> NIPPON KOEI CO.,LTD.	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE TRA ON BRIDGE ABUTMENTS ABUTMENT A2-REINFORCEMENT-SHEET2	DWG NO. P1/BR3/0740	
				NAME	T. Kametani	K. Matsumoto			K. Enomoto
				SIGNATURE	<i>T. Kametani</i>	<i>K. Matsumoto</i>			<i>K. Enomoto</i>
				DATE	20/9/2000	29/9/2000	5/10/2000		



LIST OF REINFORCEMENT(FOR ABUTMENT A2)



REINF. No	DIA. (mm)	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT (kg)	REMARKS
A1	14	2611	209	1.208	911.6	
A2	14	24752	18	1.208	538.3	
A3	14	720	196	1.208	170.5	
A4	16	1837	97	1.578	281.2	
A5	14	690	97	1.208	80.9	
A6	14	23552	4	1.208	113.9	
F1	25	12500	97	3.853	4671.8	
F2	25	9000	96	3.853	3329.0	
F3	25	9874	97	3.853	3690.4	
F4	25	6200	96	3.853	2293.4	
F5	20	9655	16	2.466	381.0	
F6	20	25200	16	2.466	994.3	
F7	16	4830	176	1.578	1341.5	
F8	20	28700	37	2.466	2618.7	
F9	20	25900	37	2.466	2363.2	
V1	22	5485	94	2.984	1538.6	
V2	22	6955	97	2.984	2013.2	AVERAGE
V3	16	6850	97	1.578	1048.6	AVERAGE
V4	14	1822	221	1.208	486.5	
V5	16	24856	20	1.578	784.5	
V6	14	24752	20	1.208	598.1	
V7	16	1860	97	1.578	284.8	
K1	22	6605	8	2.984	157.7	
K2	22	3085	18	2.984	165.8	
K3	22	4185	16	2.984	199.9	
K4	25	9629	38	3.853	1409.9	AVERAGE
K5	25	4587	24	3.853	424.2	
K6	22	6405	36	2.984	688.1	
K7	18	7420	8	1.998	118.7	
K8	16	6745	10	1.578	106.5	
K9	16	1731	52	1.578	142.1	
K10	16	2370	2	1.578	7.5	
K11	20	2250	18	2.466	99.9	
K12	16	9472	38	1.578	568.0	AVERAGE
K13	18	6335	36	1.998	455.7	
K14	10	690	140	0.617	59.7	
K15	22	6150	10	2.984	183.6	AVERAGE
K16	18	6965	10	1.998	139.2	AVERAGE
K17	16	2457	10	1.578	38.8	AVERAGE
K18	16	2457	10	1.578	38.8	AVERAGE
K19	22	6599	2	2.984	39.4	
K20	18	6529	2	1.998	26.1	
K21	25	3954	4	3.853	61.0	
K22	14	875	64	1.208	67.7	
K23	20	3810	38	2.466	357.1	
K24	16	2227	52	1.578	182.8	
K25	22	6609	8	2.984	157.8	
K26	18	6494	8	1.998	103.9	
R1	10	4500	10	0.617	27.8	
TOTAL					36562 Kg	
D10					88 Kg	
D14					2968 Kg	
D16					4825 Kg	
D18					844 Kg	
D20					6814 Kg	
D22					5144 Kg	
D25					15880 Kg	
						36561.7

NOTE

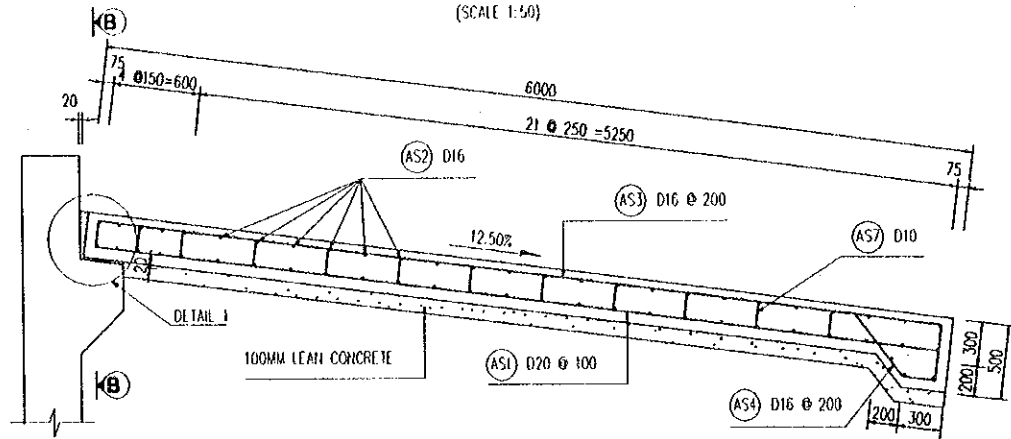
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.PI/BRI/0030

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	T. Kametani	K.Matsumoto	K. Enomoto	TRA ON BRIDGE ABUTMENTS ABUTMENT A2-REINFORCEMENT-SHEETS	P1/BR3/0750
				SIGNATURE	SIGNATURE	SIGNATURE		
				DATE	DATE	DATE		
				20/9/2000	29/9/2000	5/10/2000		



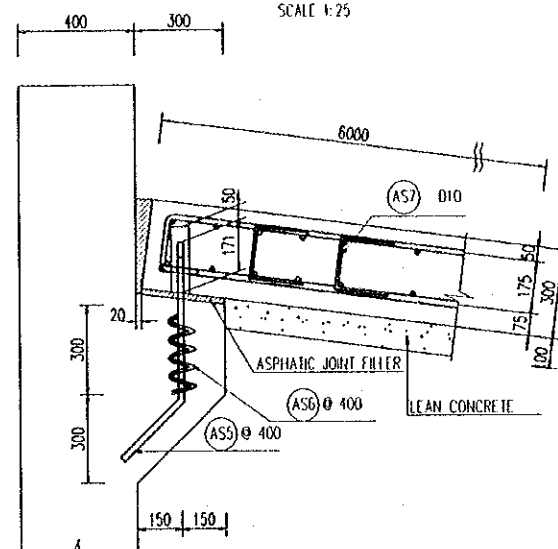
**SECTION A - A**

(SCALE 1:50)



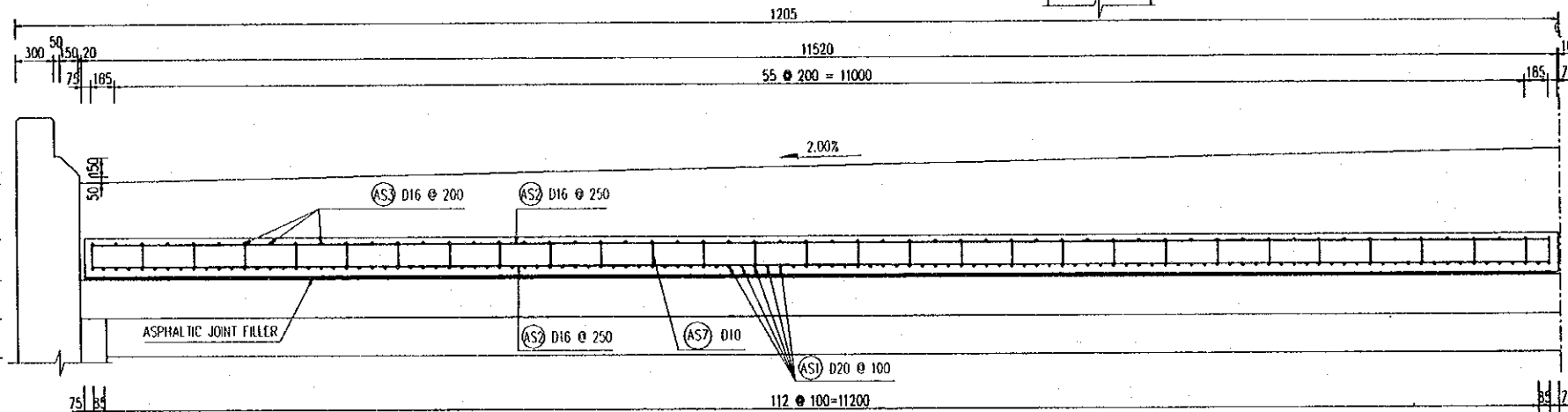
**DETAIL 1**

SCALE 1:25



**HALF SECTION B - B**

(SCALE 1:50)

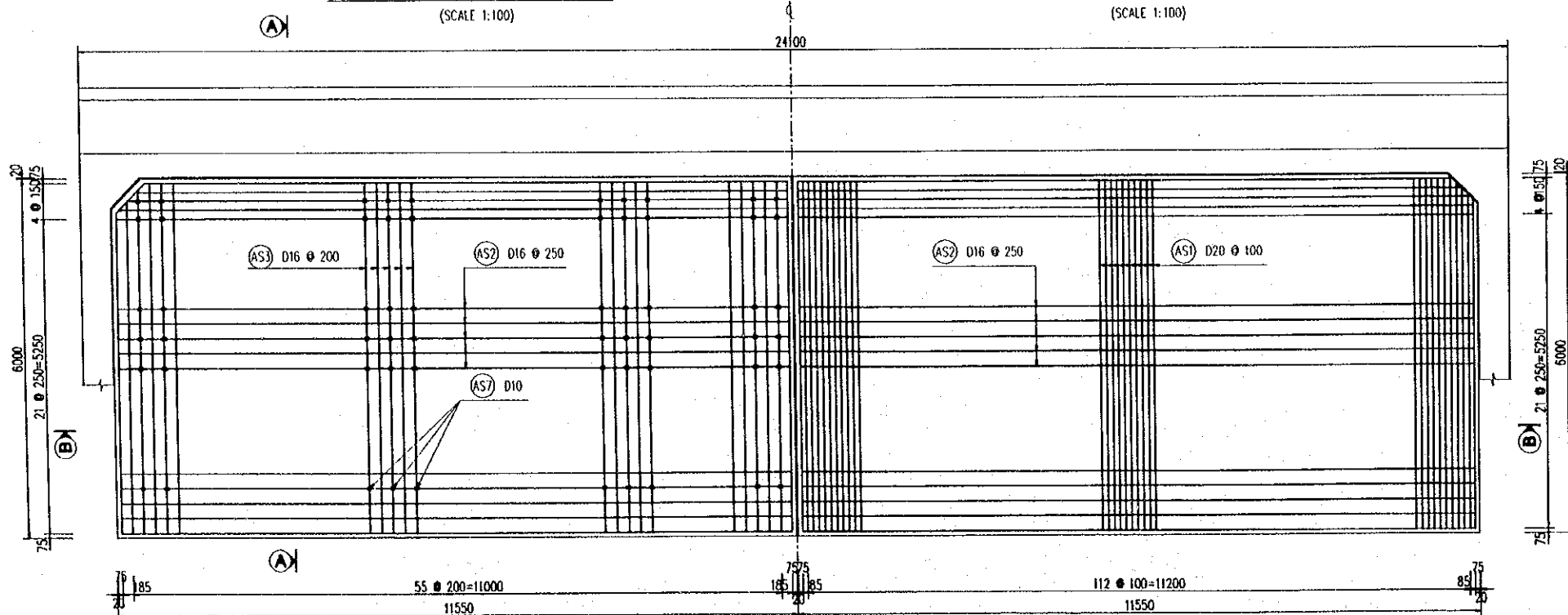


**HALF SECTION C - C**

(SCALE 1:100)

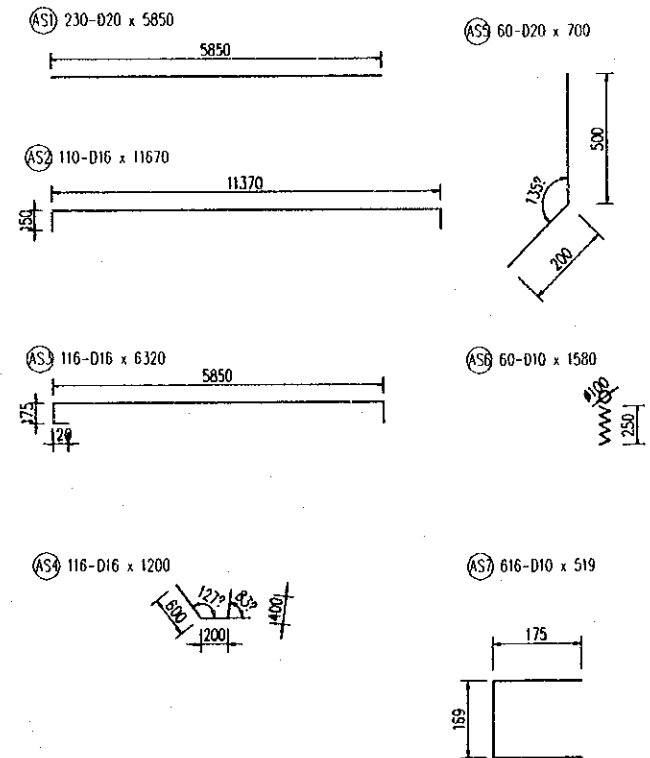
**HALF SECTION D - D**

(SCALE 1:100)



**LIST OF REINFORCEMENT**

TYPE	D (mm)	LENGTH OF BAR (mm)	U WEIGHT (kg/m)	NUMBER	WEIGHT (Kg)
AS1	D20	5850	2.466	230	3318.0
AS2	D16	11670	1.578	110	2025.7
AS3	D16	6320	1.578	116	1156.9
AS4	D16	1200	1.578	116	219.7
AS5	D20	700	2.466	60	103.6
AS6	D10	1580	0.617	60	58.5
AS7	D10	519	0.617	616	197.3
				D10	255.8 kg
				D16	3402.3 kg
				D20	3421.6 kg
<b>TOTAL :</b>					<b>7079.7 kg</b>
<b>CONCRETE :</b>					<b>43.2 m<sup>3</sup></b>
<b>LEAN CONCRETE :</b>					<b>13.0 m<sup>3</sup></b>
<b>ASPHALTIC JOINT FILLER :</b>					<b>0.41 m<sup>3</sup></b>





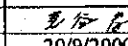
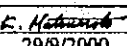
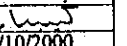
**NOTES:**

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P1/BR3/0030

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME: T. Kametani SIGNATURE: [Signature] DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE: [Signature] DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: [Signature] DATE: 5/10/2000	TRA ON BRIDGE ABUTMENTS DETAILS OF APPROACH SLAB	P1/BR3/0770

QUANTITY TABLE OF BRIDGE

Item		UNIT	ABUTMENT A1	ABUTMENT A2	Total	
<b>A - ABUTMENT</b>						
PILES	NUMBER OF PILES	pile	17	17	34	
	TOTAL LENGTH OF BORED $\phi$ 1500mm	m	1343.0	1343.0	2686.0	
	CONCRETE CLASS D	m3	2373.3	2373.3	4746.6	
	REINFORCEMENT	D 32	kg	2272.7	2272.7	4545.4
		D 28	kg	617.8	617.8	1235.6
		D 25	kg	3872.3	3872.3	7744.6
		D 22	kg	430.1	430.1	860.2
		D 16	kg	33.4	33.4	66.8
		D 10	kg	1240.8	1240.8	2481.6
TOTAL	kg	8467.1	8467.1	16934.2		
ABUTMENT	CONCRETE CLASS E	m3	674.3	674.3	1348.6	
	REINFORCEMENT	D 25	kg	15879.7	15881.2	31760.9
		D 22	kg	5144.9	5144.1	10289.0
		D 20	kg	6814.7	6814.7	13629.4
		D 18	kg	843.8	843.3	1687.1
		D 16	kg	4825.7	4826.1	9651.8
		D 14	kg	2968.3	2968.3	5936.6
		D 10	kg	87.4	87.4	174.8
	TOTAL	kg	36564.5	36565.1	73129.6	
	BLINDING STONE	m3	45.7	45.7	91.4	
	LEAN CONCRETE CLASS G	m3	22.8	22.8	45.7	
EXCAVATION	m3	136.1	485.0	621.1		
BACK FILL	m3	23.2	117.1	140.4		
<b>B - APPROACH SLAB</b>						
	CONCRETE CLASS E	m3	45.1	45.1	90.2	
	LEAN CONCRETE CLASS G	m3	13.1	13.1	26.3	
	FORM	m2	20.4	20.4	40.8	
	ASPHANTIC JOINT FILLTER T=20mm	m3	0.4	0.4	0.8	
	REINFORCEMENT	D 20	kg	3421.6	3421.6	6843.2
		D 16	kg	3402.3	3402.3	6804.6
		D 10	kg	255.8	255.8	511.6
TOTAL		kg	7158.7	7158.7	14317.4	
<b>C - SLOPE PROTECTION</b>						
SIDE SLOPE	STONE MANSORY T=300mm	m3	829.7	860.5	1690.2	
	BLINDING AGGREGATE T=100mm	m3	276.2	286.8	563.0	
	GEOTEXTILE	m2	831.0	955	1786.0	
	PVC PILE $\phi$ 50mm DIA. L=1000mm	m	75.0	76	151.0	
FOOTING	LENGTH OF FOOTING	m	149.9	156.1	306.0	
	WOODEN PILE L=3.0m	m	8996.0	9094.0	18090.0	
	BLINDING STONE	m3	26.0	12.1	38.1	
	STONE MANSORY	m3	40.0	54.8	94.8	
	EXCAVATION	m3	648.0	655.0	1303.0	
	BACK FILL	m3	450.0	455.0	905.0	

PROJECT NAME DETAILED DESGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY  JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM  NIPPON KOBI CO.,LTD.	NAME T. Kametani	CHECKED BY K. Matsumoto	APPROVED BY K. Enomoto	DRAWING TITLE TRA ON BRIDGE ABUTMENT QUANTITY TABLE OF ABUTMENTS	DWG NO. P1/BR3/0780
				SIGNATURE 	SIGNATURE 	SIGNATURE 		
				DATE 20/9/2000	DATE 29/9/2000	DATE 5/10/2000		

**V. PIERS**



**SECTION A-A**

SCALE 1:200

**SECTION B-B**

SCALE 1:200

**SECTION C-C**

SCALE 1:200

**DETAIL "A"**

SCALE 1:20

**SECTION D-D**

SCALE 1:200

**SECTION E-E**

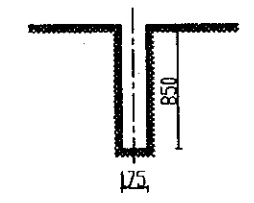
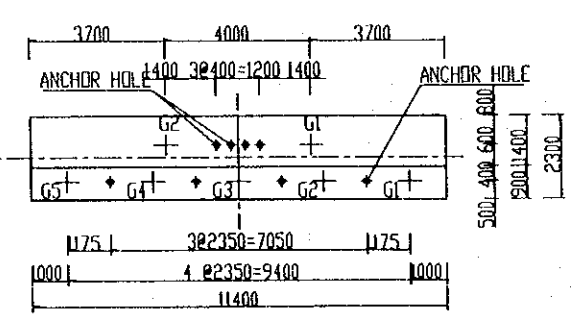
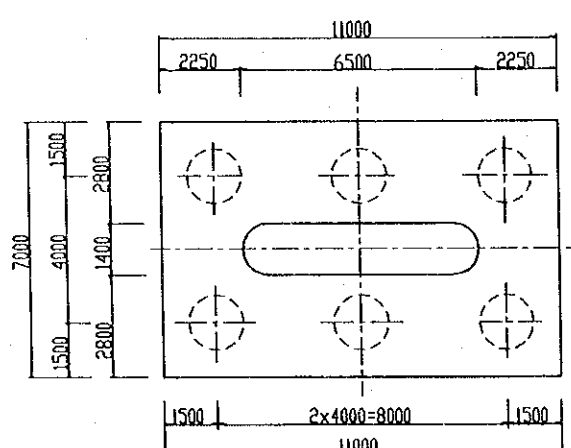
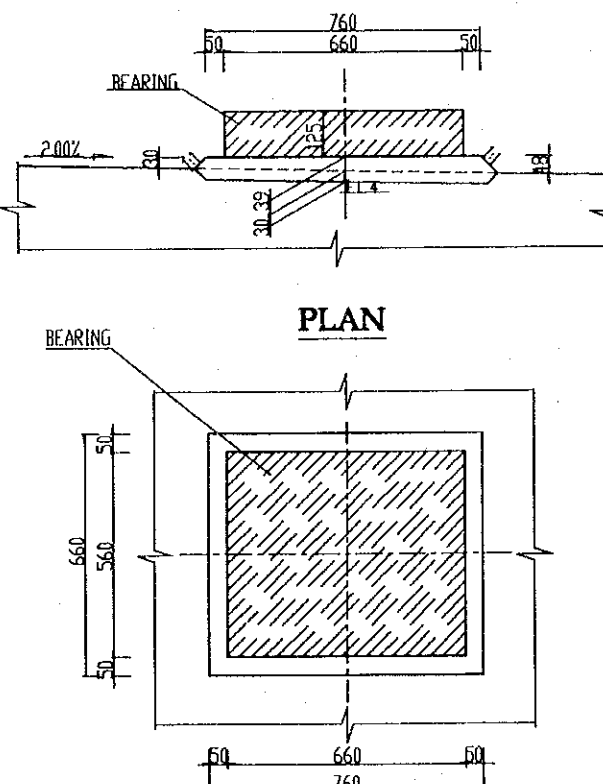
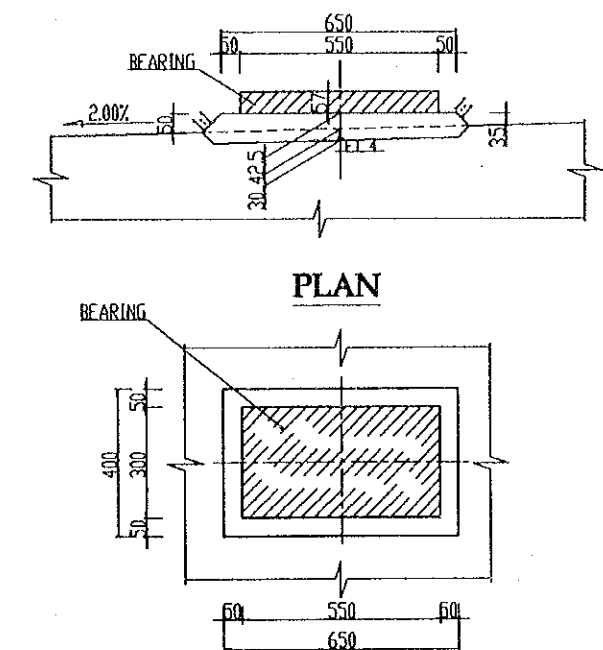
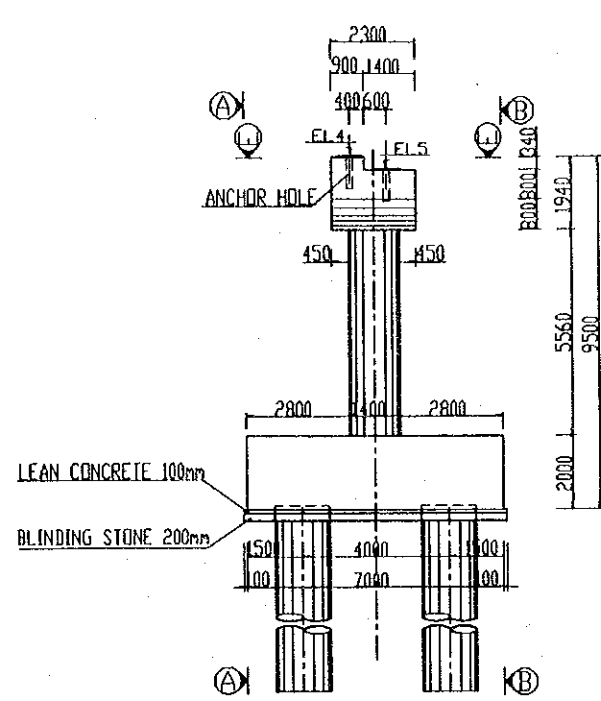
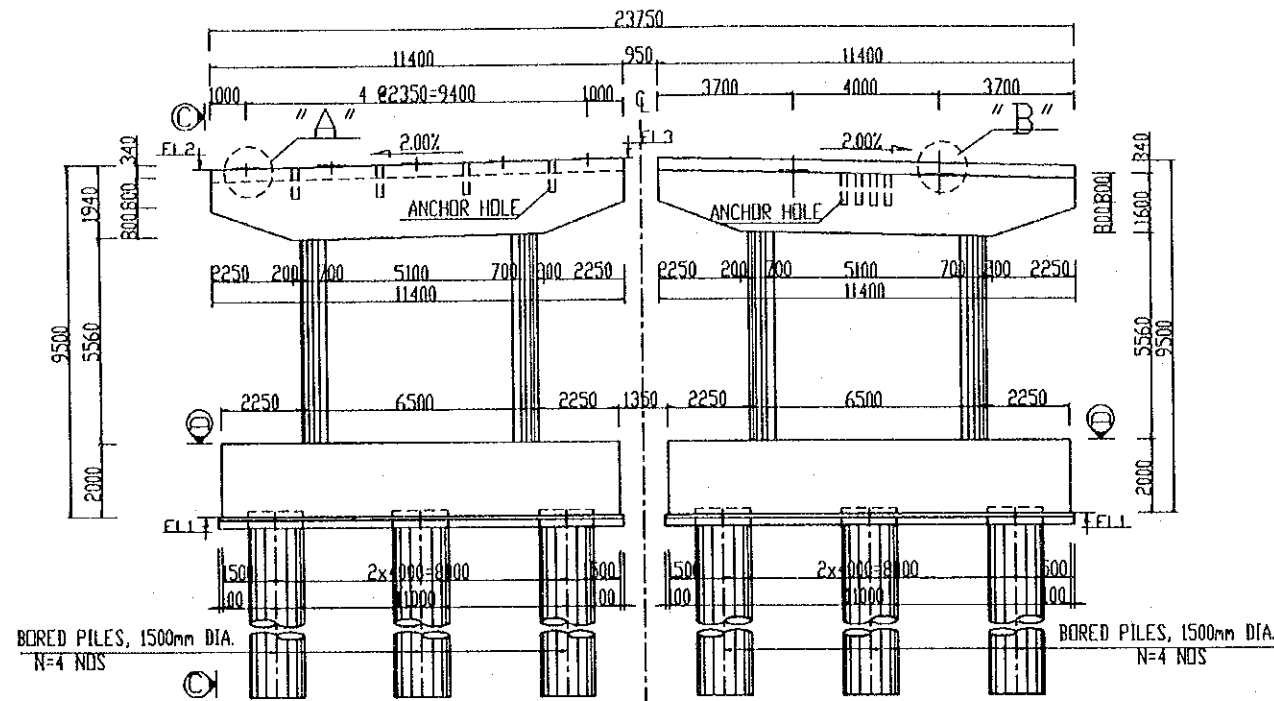
SCALE 1:200

**DETAIL OF ANCHOR HOLE**

SCALE 1:50

**DETAIL "B"**

SCALE 1:20



**TABLE OF ELEVATION**

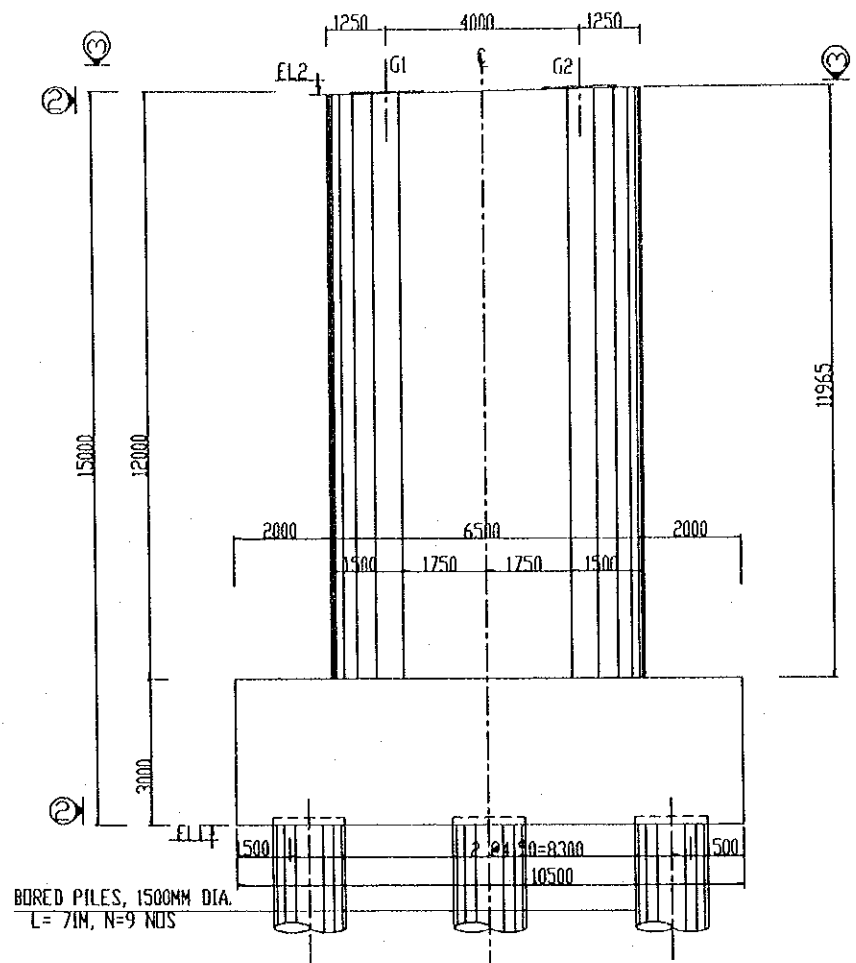
DIRECTION	PIERS	EL1	EL2	EL3	EL4					EL5	
					G1	G2	G3	G4	G5	G1	G2
HD CHI MINH CITY - CA MAU	P2	-1.19	+8.2	+8.43	+8.38	+8.32	+8.24	+8.19	+8.12	+7.94	+8.02
	P5	-1.19	+8.2	+8.43	+8.38	+8.32	+8.24	+8.19	+8.12	+6.76	+6.84
CA MAU - HD CHI MINH CITY	P2	-1.34	+8.05	+8.28	+8.23	+8.16	+8.09	+8.03	+7.97	+7.78	+7.86
	P5	-1.06	+8.33	+8.56	+8.51	+8.45	+8.37	+8.32	+8.25	+8.07	+8.15

**NOTES:**

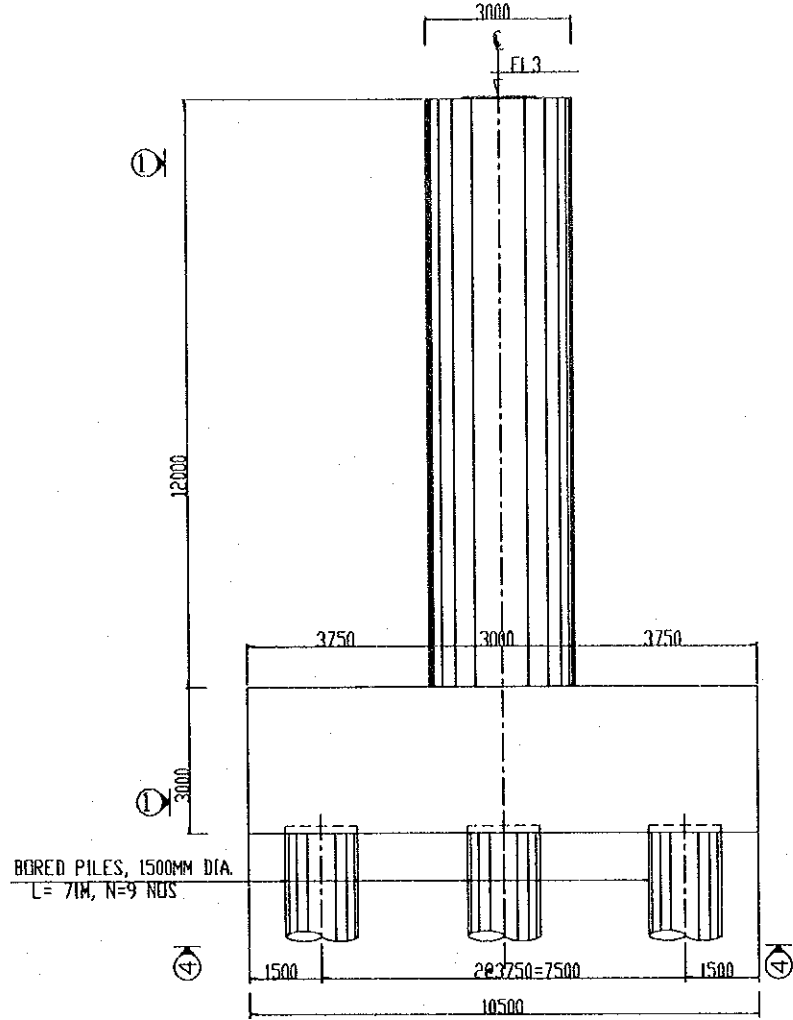
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.P1/BR3/0030.  
 (INSITUATIONAL VOLVE SHOWS P5)

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	T. Kametani	K. Matsumoto	K. Enomoto	TRA ON BRIDGE PIERS PIER P2&P5-GENERAL VIEW	P1/BR3/0800
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

**SECTION 1-1**  
SCALE 1:150



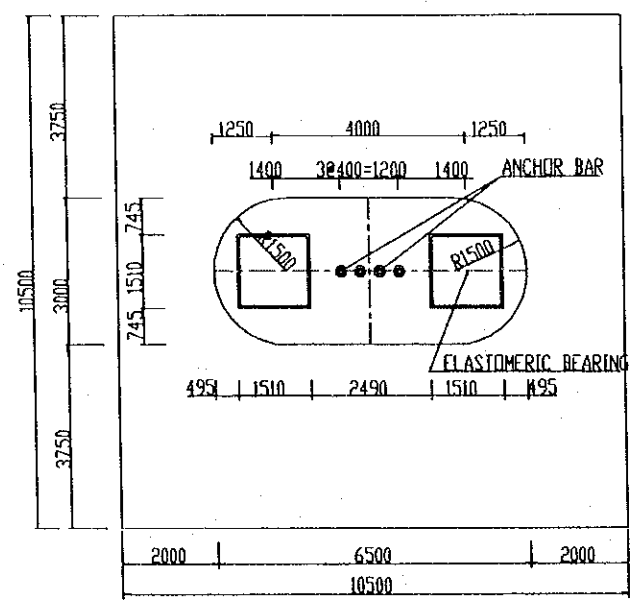
**SECTION 2-2**  
SCALE 1:150



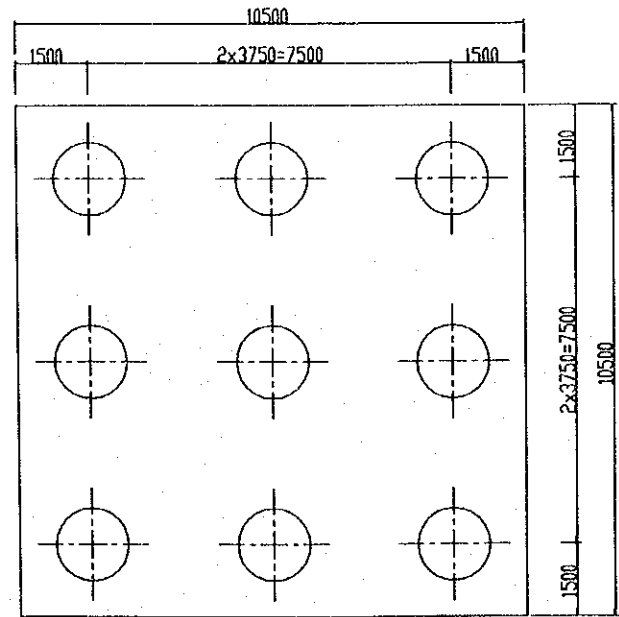
**TABLE OF ELEVATION**

DIRECTION	PIERS	EL1	EL2	EL.3	
				G1	G2
HO CHI MINH CITY - CA MAU	P3	-8.11	+6.74	+6.76	+6.84
	P4	-8.21	+6.74	+6.76	+6.84
CA MAU - HO CHI MINH CITY	P3	-8.29	+6.66	+6.69	+6.77
	P4	-8.16	+6.79	+6.81	+6.89

**SECTION 3-3**  
SCALE 1:150



**SECTION 4-4**  
SCALE 1:150



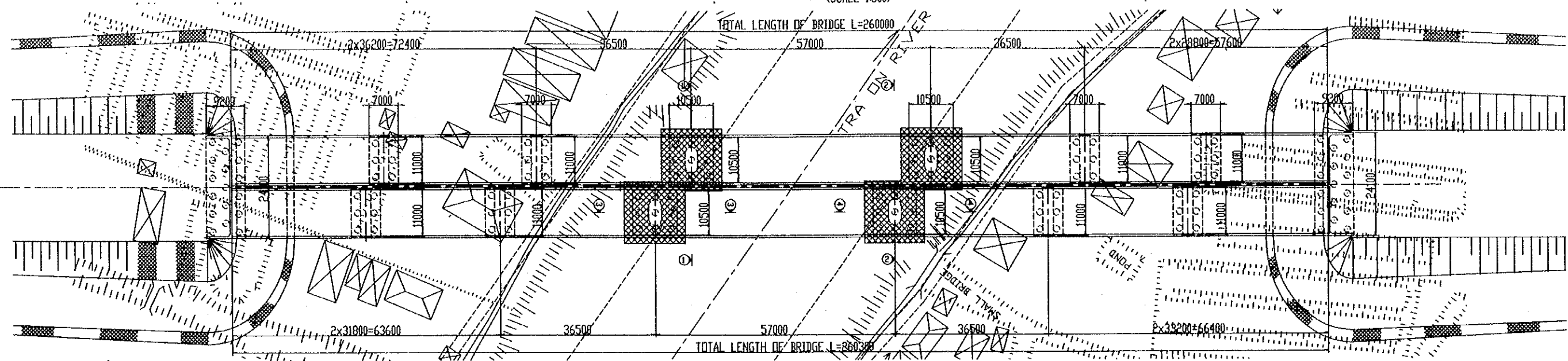
**NOTES:**  
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. BR3/0030.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	T. Kametani	K. Matsumoto	K. Enomoto	TRA ON BRIDGE PIERS PIER P3&P4-GENERAL VIEW	P1/BR3/0810
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

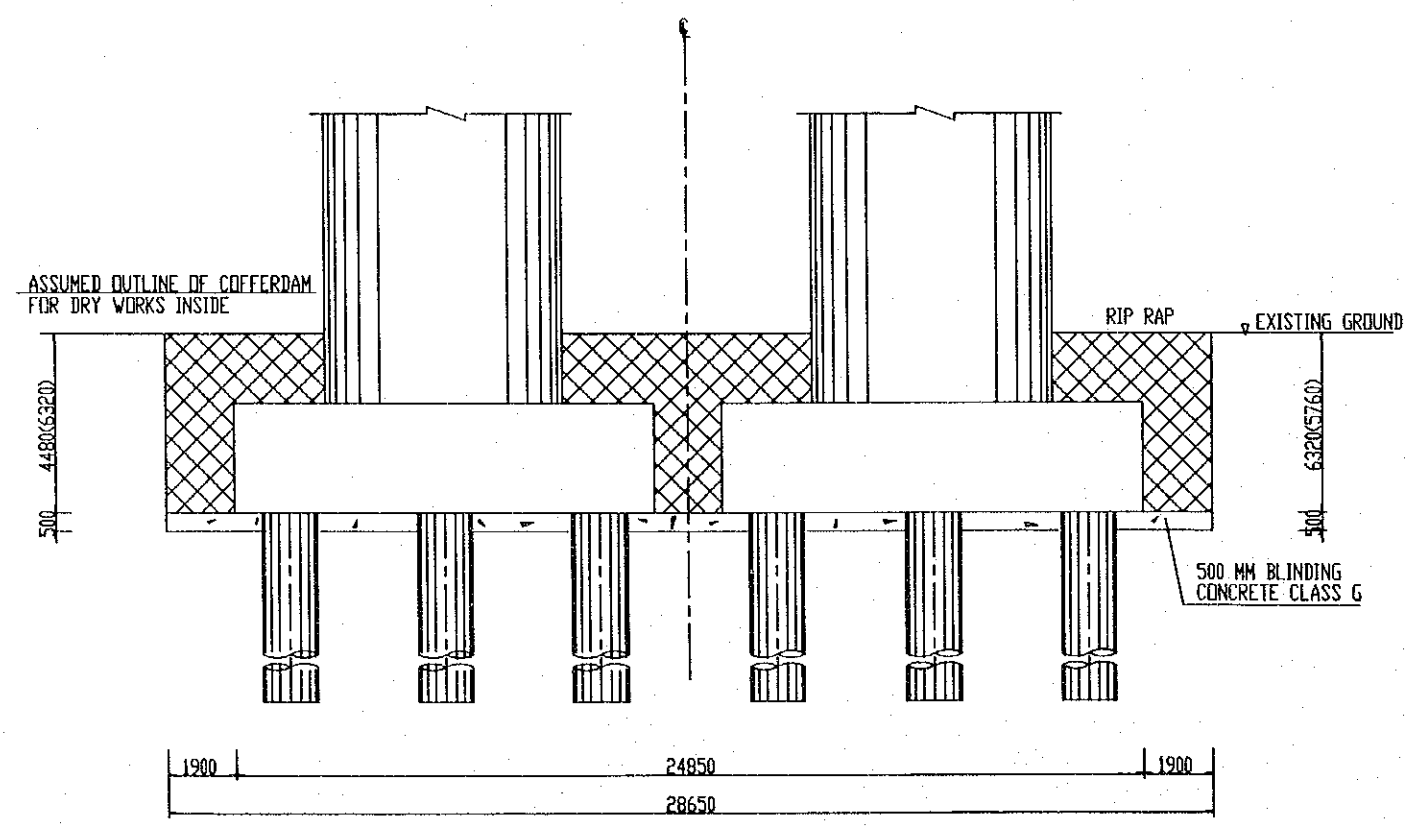


PLAN

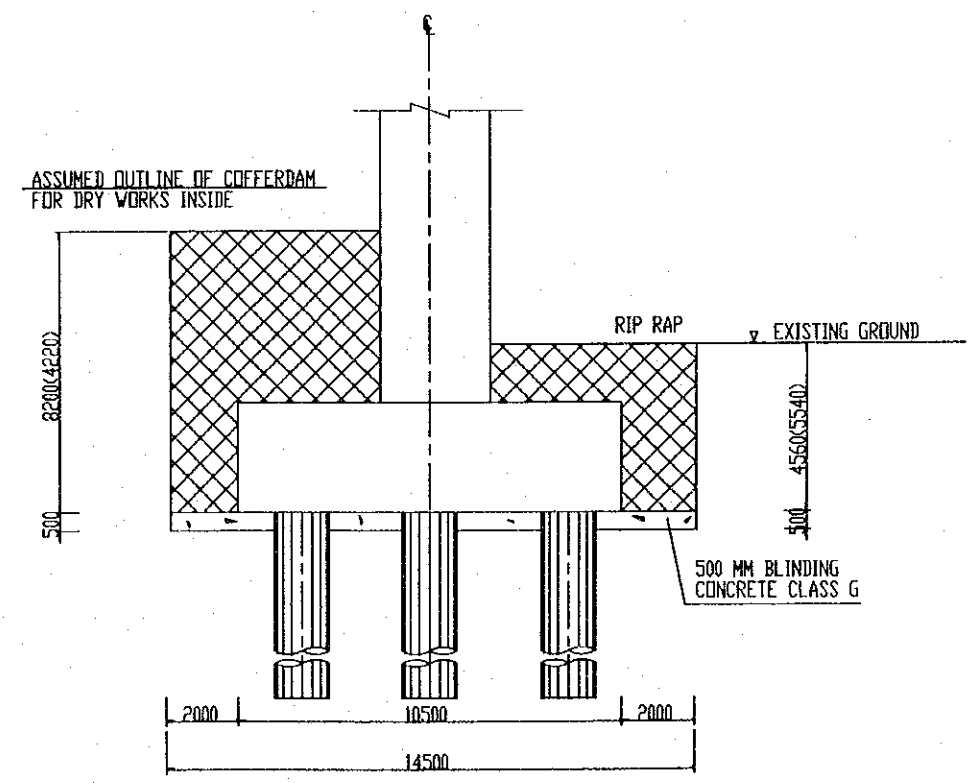
(SCALE 1:500)



HALF SECTION 1-1  
(HALF SECTION 2-2)  
SCALE 1:100



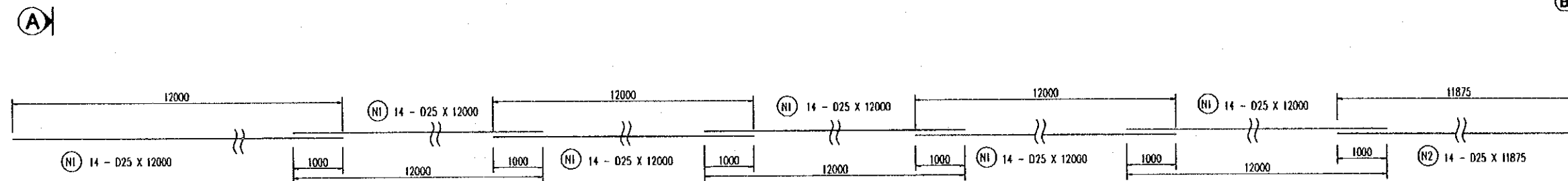
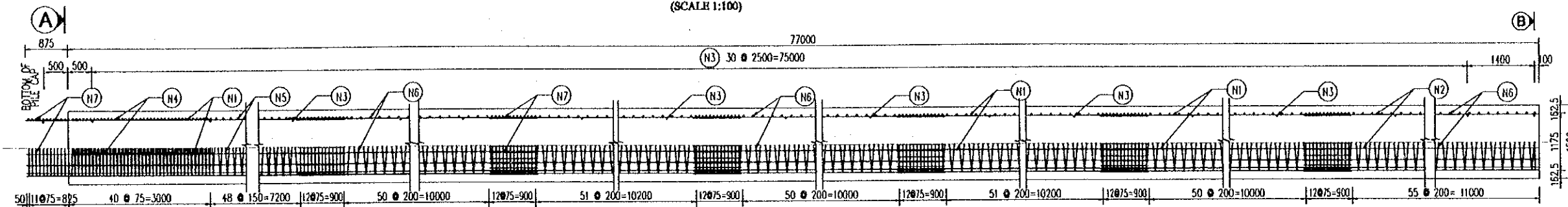
HALF SECTION 3-3  
(HALF SECTION 4-4)  
SCALE 1:100



PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO., LTD.	T. Kametani	K. Matsumoto	K. Enomoto	TRA ON BRIDGE PIERS PROTECTION	P1/BR3/0820
				SIGNATURE	SIGNATURE	SIGNATURE		
				DATE	DATE	DATE		
				20/9/2000	29/9/2000	5/10/2000		

# BORED CAST IN-SITU PILE DETAILS FOR PIERS P1,P2,P5&P6

(SCALE 1:100)



**SECTION A-A**

(SCALE 1:50)

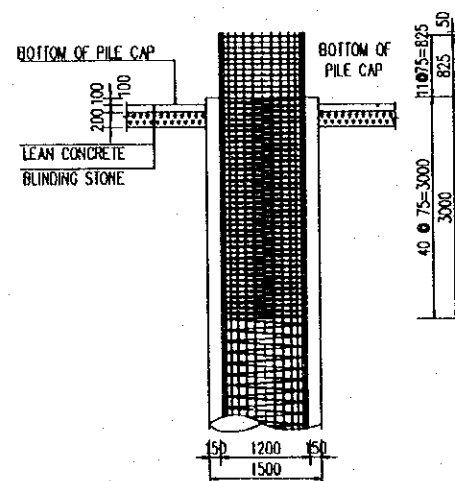
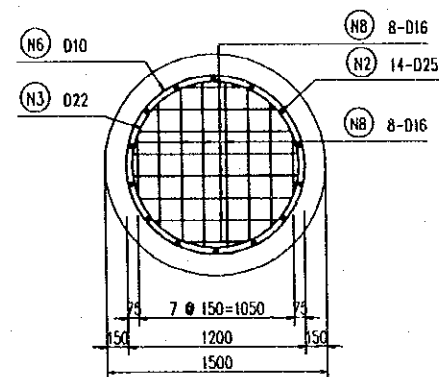
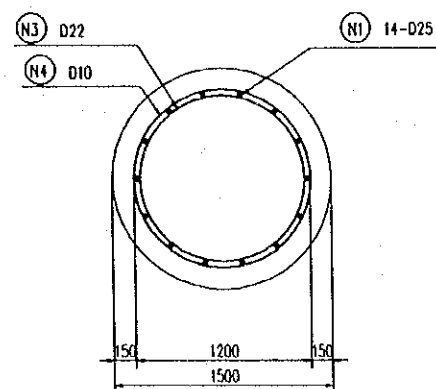
**SECTION B-B**

(SCALE 1:50)

**DETAIL OF CONCRETE PILE HEAD**

(SCALE 1:100)

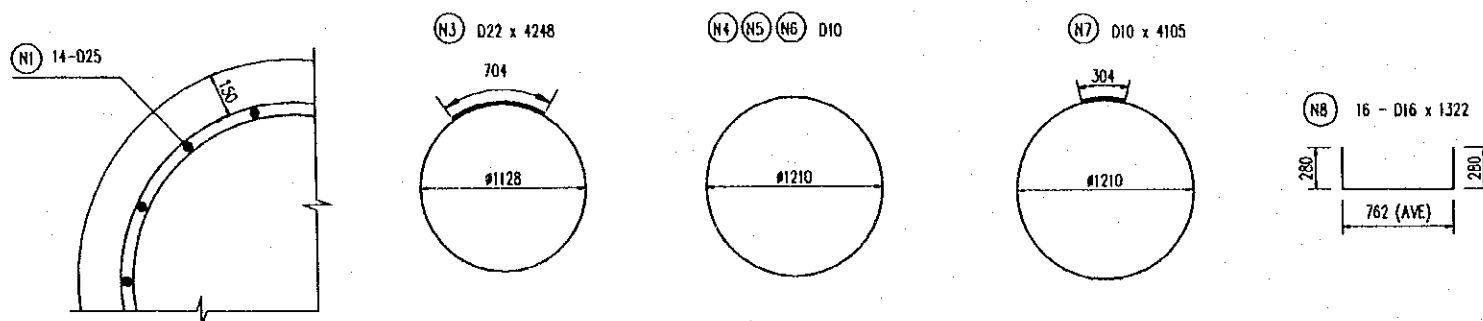
**MATERIAL OF PILE**



TYPE	D(mm)	LENGTH OF BAR (mm)	UNIT WEIGHT (kg/m)	NUMBER	WEIGHT (kg)	CONCRETE VOLUME (m <sup>3</sup> )
N1	D25	12000	3.853	84	3883.8	
N2	D25	11875	3.853	14	640.6	
N3	D22	4248	2.984	33	418.3	
N4	D10	15205.3	0.617	1	93.8	
N5	D10	18246.4	0.617	1	112.6	
N6	D10	116700.7	0.617	1	720.0	
N7	D10	4105	0.617	90	228.0	
N8	D16	1322	1.578	16	33.4	
					D10	1154.4 kg
					D16	33.4 kg
					D22	418.3 kg
					D25	4524.4 kg
					TOTAL	8130.5 kg
						136.07

**DETAIL OF COVERING**

(SCALE 1:25)



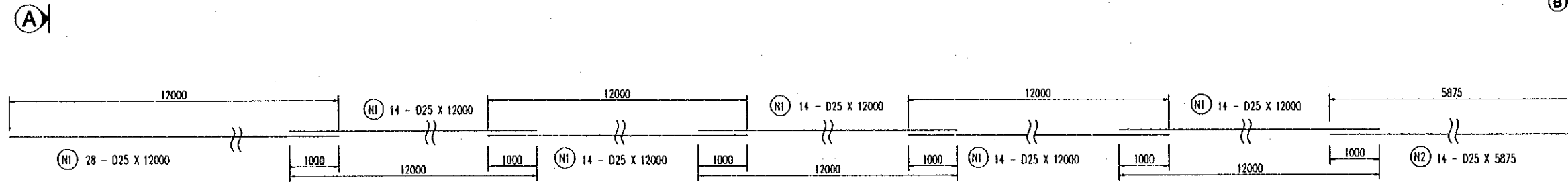
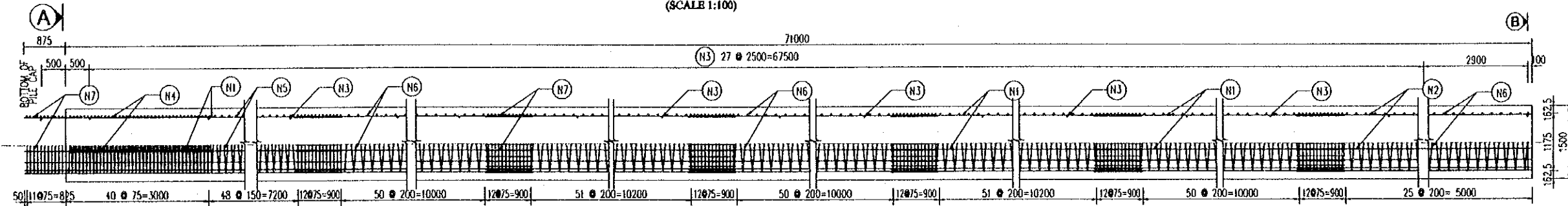
**NOTES**

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P1/BR3/0030.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME T. Kametani SIGNATURE <i>T. Kametani</i> DATE 20/9/2000	NAME K. Matsumoto SIGNATURE <i>K. Matsumoto</i> DATE 29/9/2000	NAME K. Enomoto SIGNATURE <i>K. Enomoto</i> DATE 5/10/2000	TRA ON BRIDGE PIERS P1,P2,P5&P6 BORED PILE DETAILS - L=77m.	P1/BR3/0830

# BORED CAST IN-SITU PILE DETAILS FOR PIERS P3&P4

(SCALE 1:100)

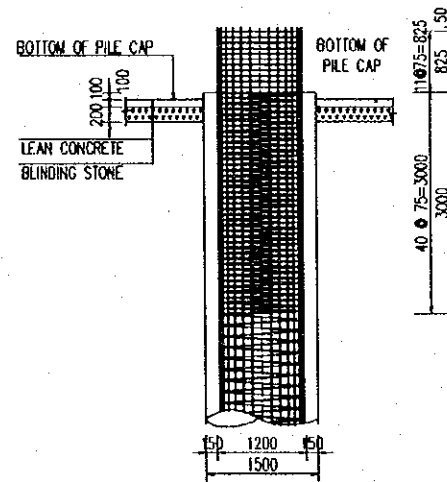
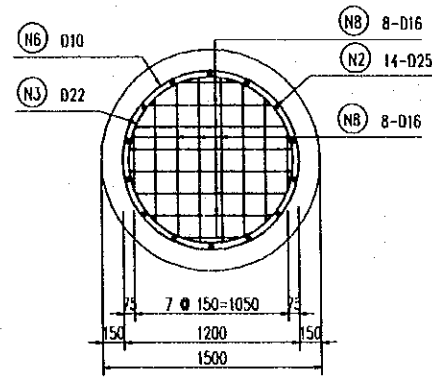
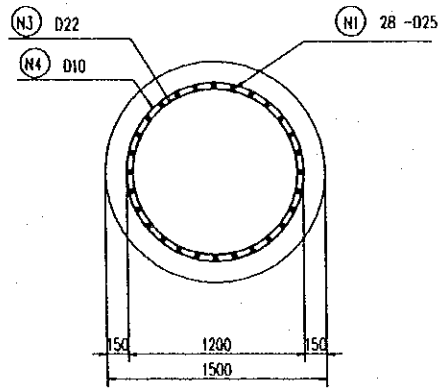


**SECTION A-A**  
(SCALE 1:50)

**SECTION B-B**  
(SCALE 1:50)

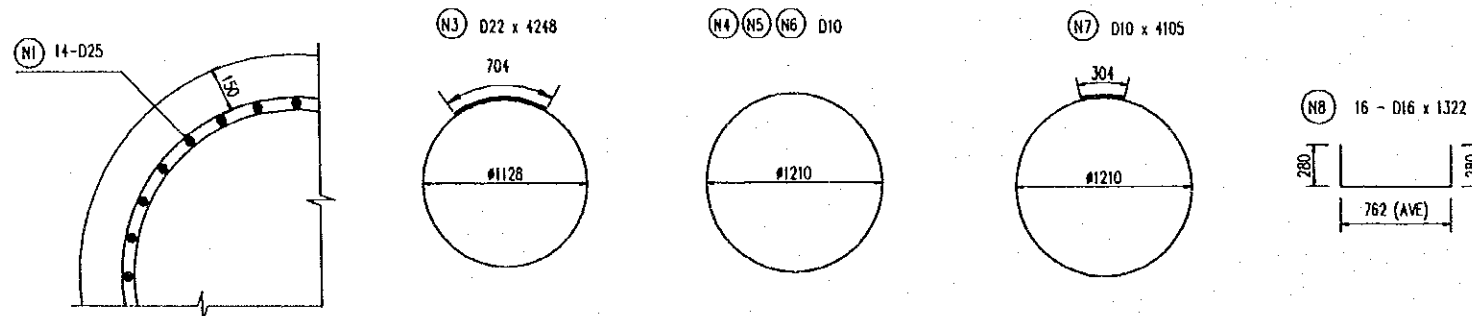
**DETAIL OF CONCRETE PILE HEAD**  
(SCALE 1:100)

**MATERIAL OF PILE**



TYPE	D(mm)	LENGTH OF BAR (mm)	UNIT WEIGHT (kg/m)	NUMBER	WEIGHT (kg)	CONCRETE VOLUME (m <sup>3</sup> )	
N1	D25	12000	3.853	98	4531.1	125.47	
N2	D25	5875	3.853	14	316.9		
N3	D22	4248	2.984	30	380.3		
N4	D10	15205.3	0.617	1	93.8		
N5	D10	18246.4	0.617	1	112.6		
N6	D10	105296.8	0.617	1	649.7		
N7	D10	4105	0.617	90	228.0		
N8	D16	1322	1.578	16	33.4		
					D10		1084.1 kg
					D16		33.4 kg
					D22		380.3 kg
					D25		4848.0 kg
					TOTAL		6345.8 kg

**DETAIL OF COVERING**  
(SCALE 1:25)

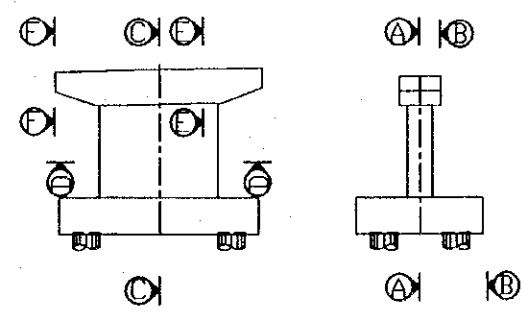
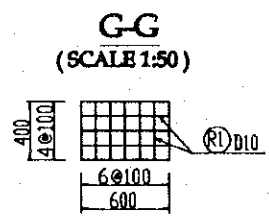
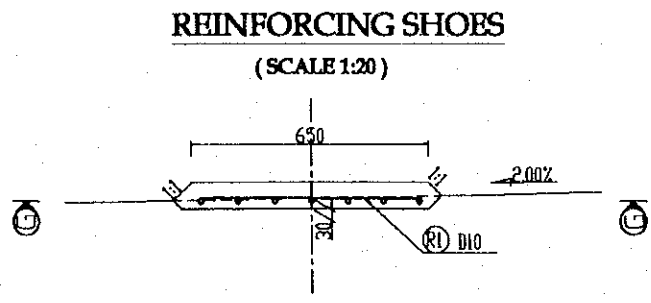
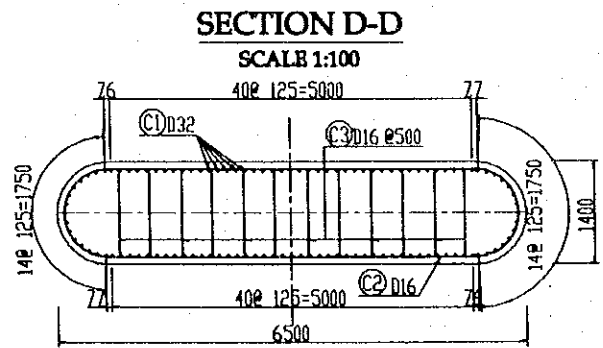
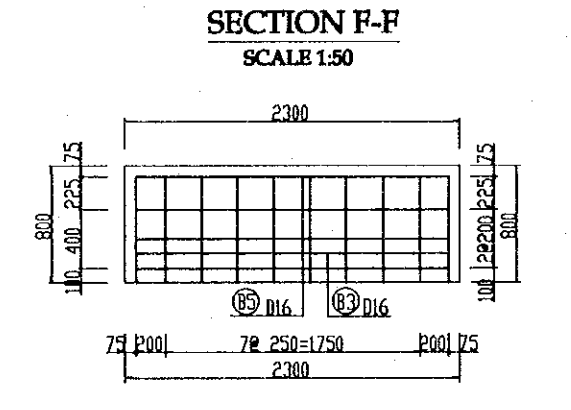
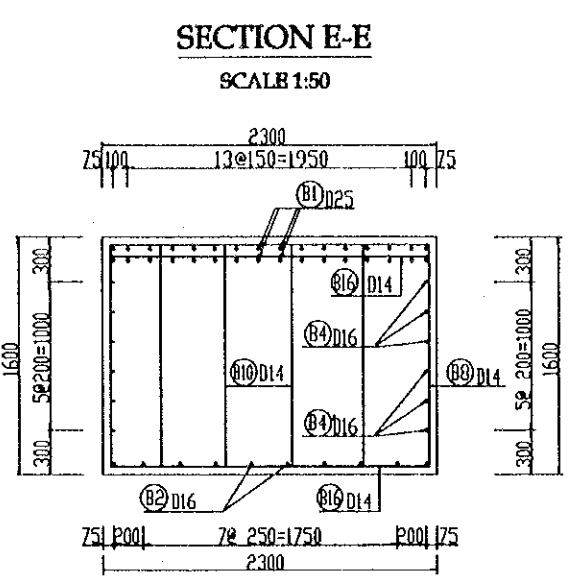
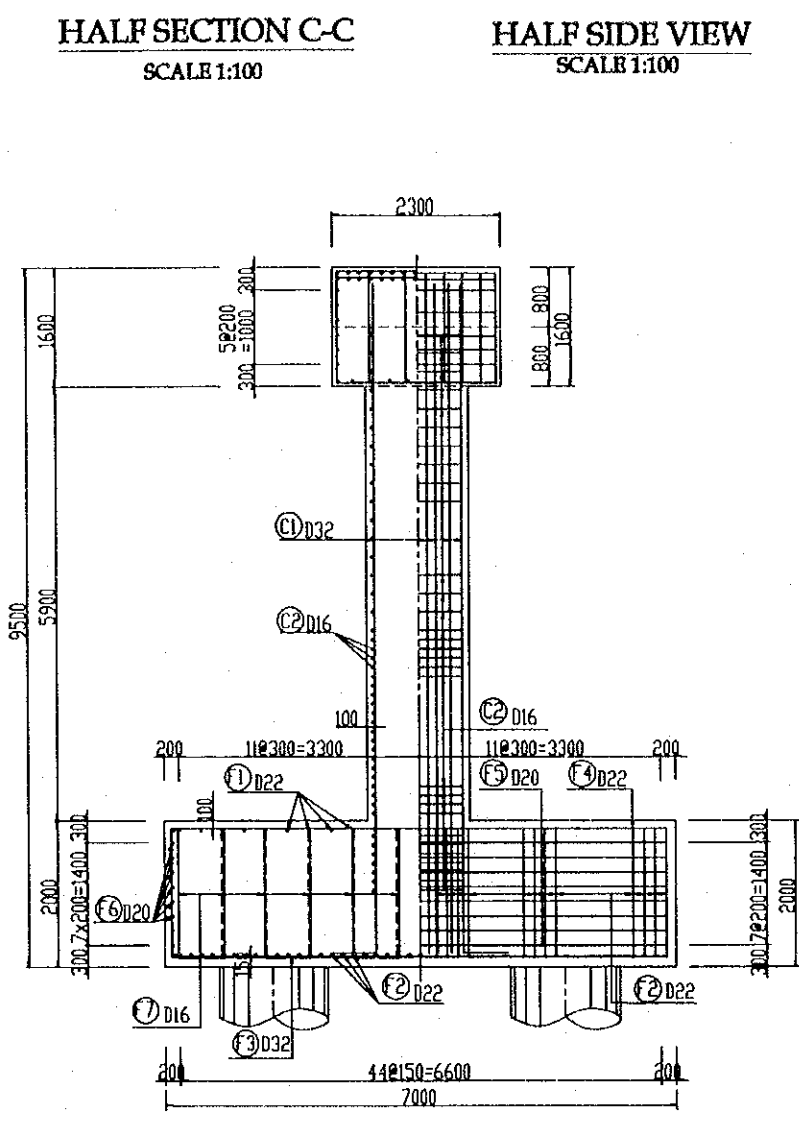
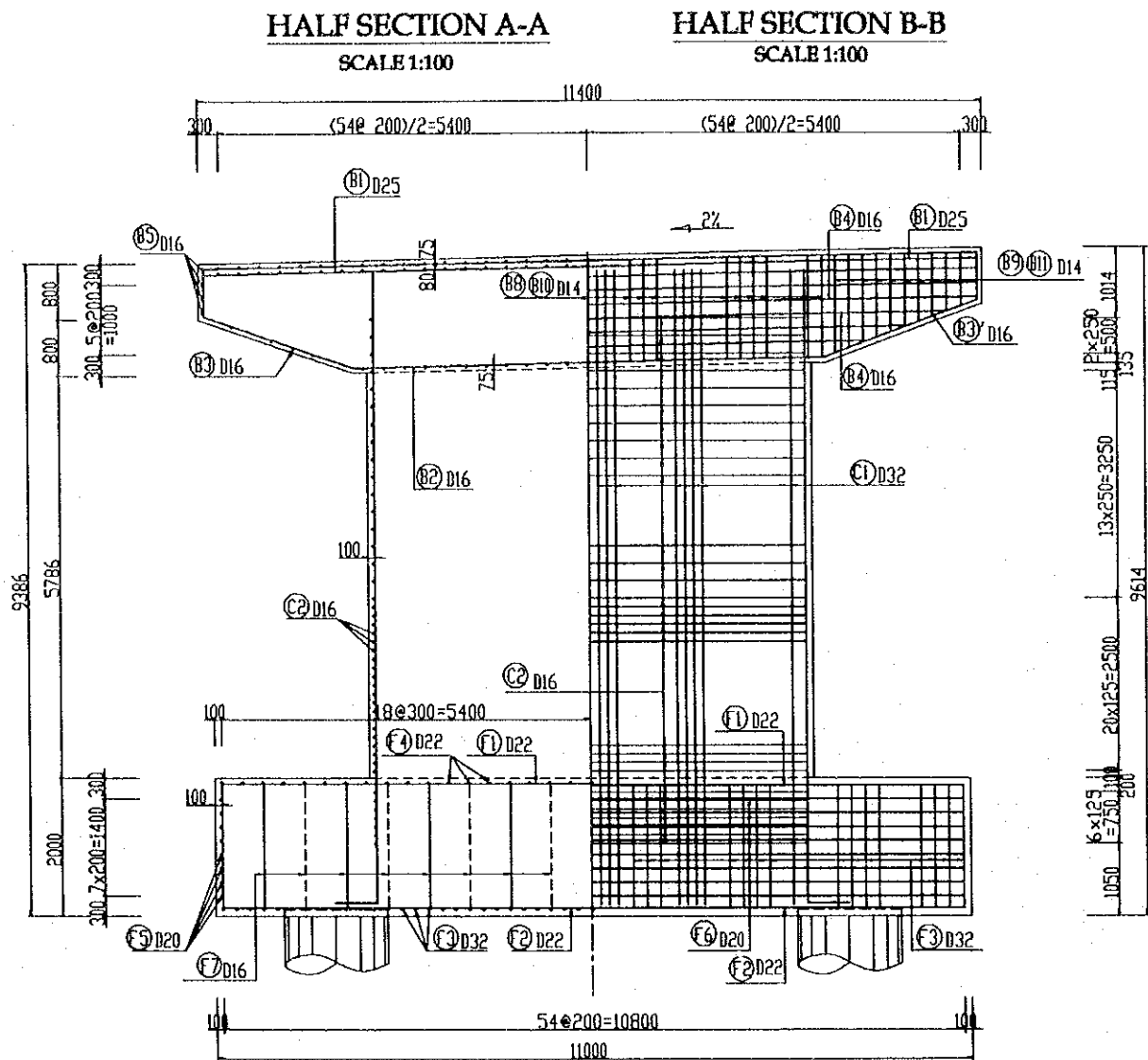


**NOTES**

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P1/BRJ/0030.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	T. Kametani	K. Matsumoto	K. Enomoto	TRA ON BRIDGE PIERS P3&P4 BORED PILE DETAILS - L= 71m.	P1/BRJ/0840
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

# PIER P1&P6 REINFORCEMENT



**NOTES:**  
 FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. BR3/0030.  
 ( ) INSIDE NUMERICAL VALUE SHOWS P6.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	T. Kametani	K. Matsumoto	K. Enomoto	TRA ON BRIDGE PIERS PIER P1&P6 REINFORCEMENT 1	P1/BR3/0850
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

# PIER P2&P5 REINFORCEMENT

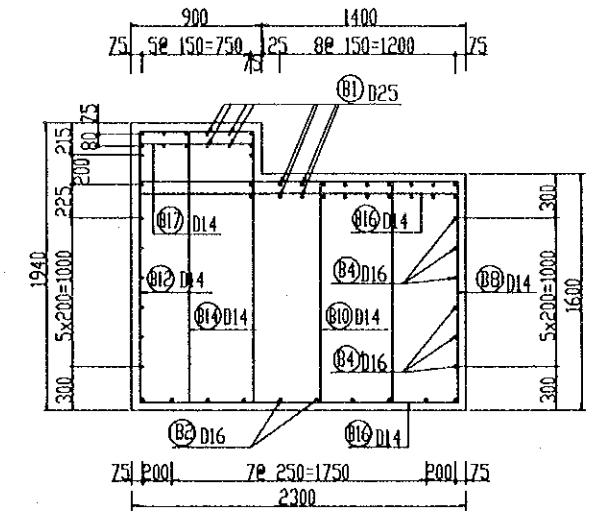
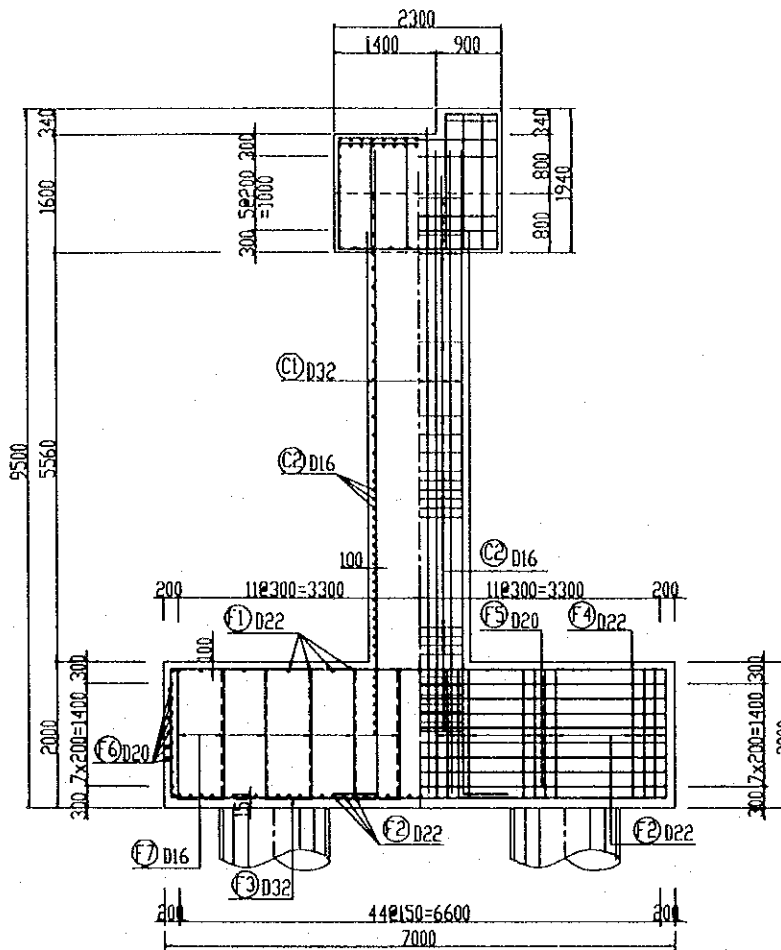
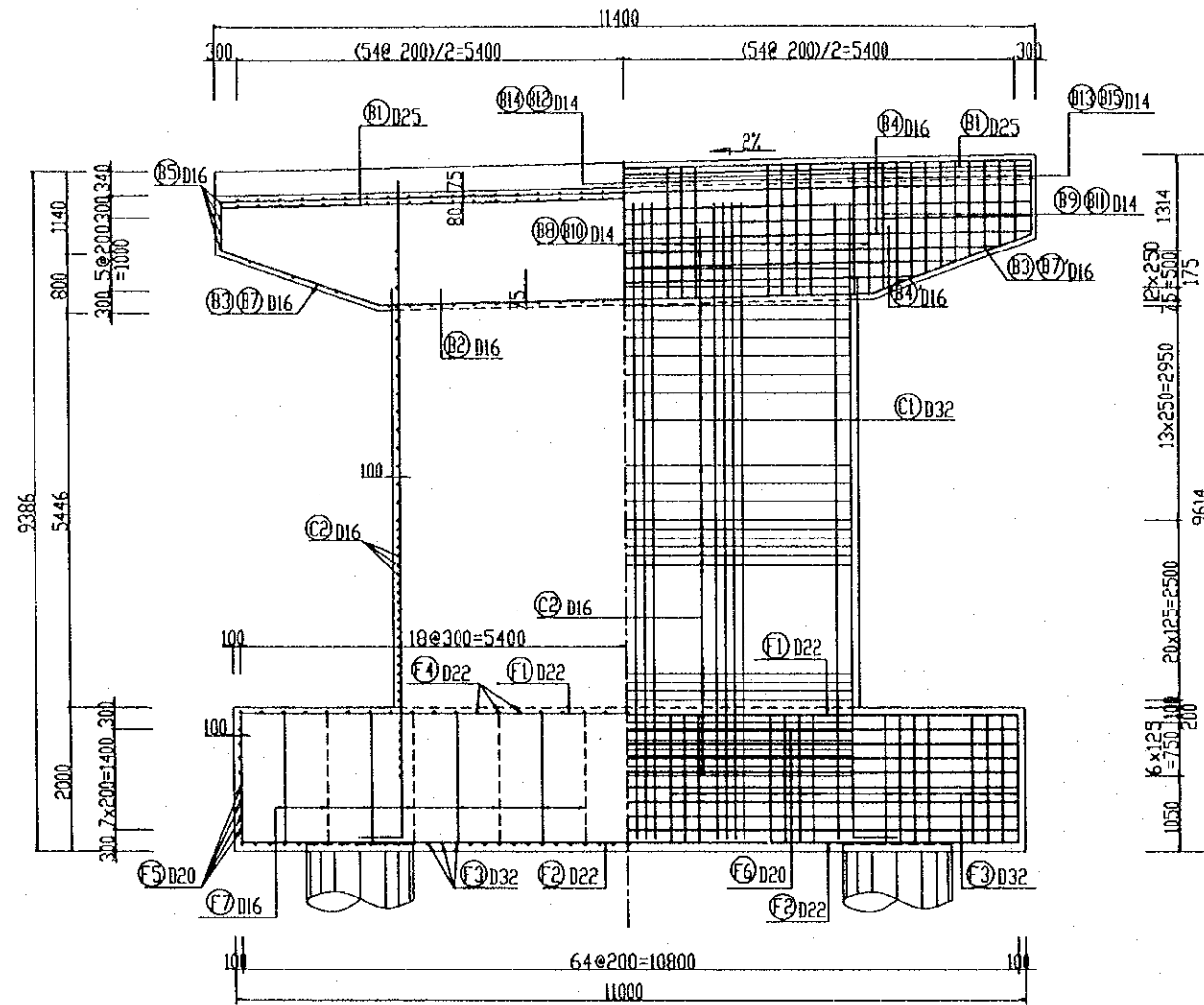
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SCALE 1:100

**HALF SECTION B-B**  
SCALE 1:100

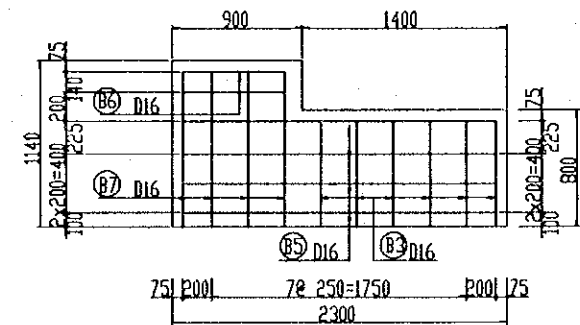
**HALF SECTION C-C**  
SCALE 1:100

**HALF SIDE VIEW**  
SCALE 1:100

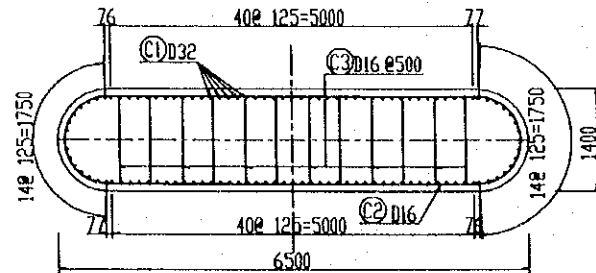
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SCALE 1:50



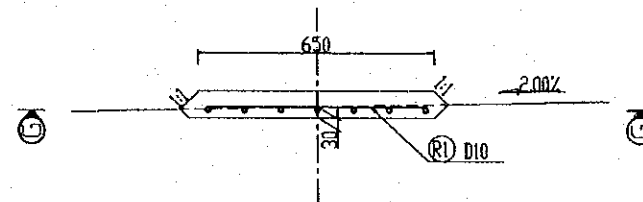
**SECTION F-F**  
SCALE 1:50



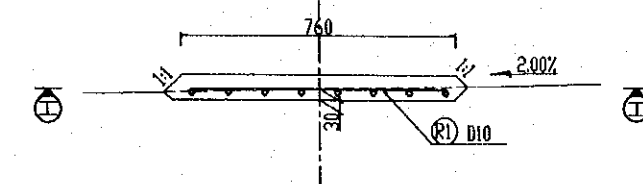
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SCALE 1:100



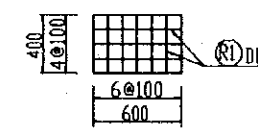
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(SCALE 1:20)



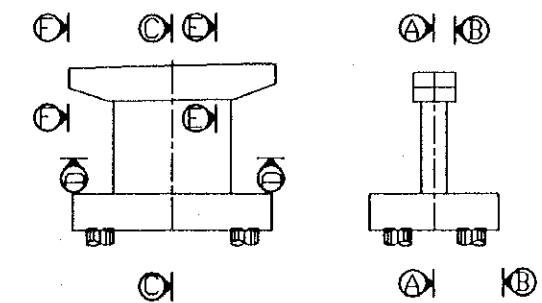
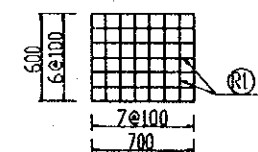
**REINFORCING SHOES**  
(SCALE 1:20)



**G-G**  
(SCALE 1:50)



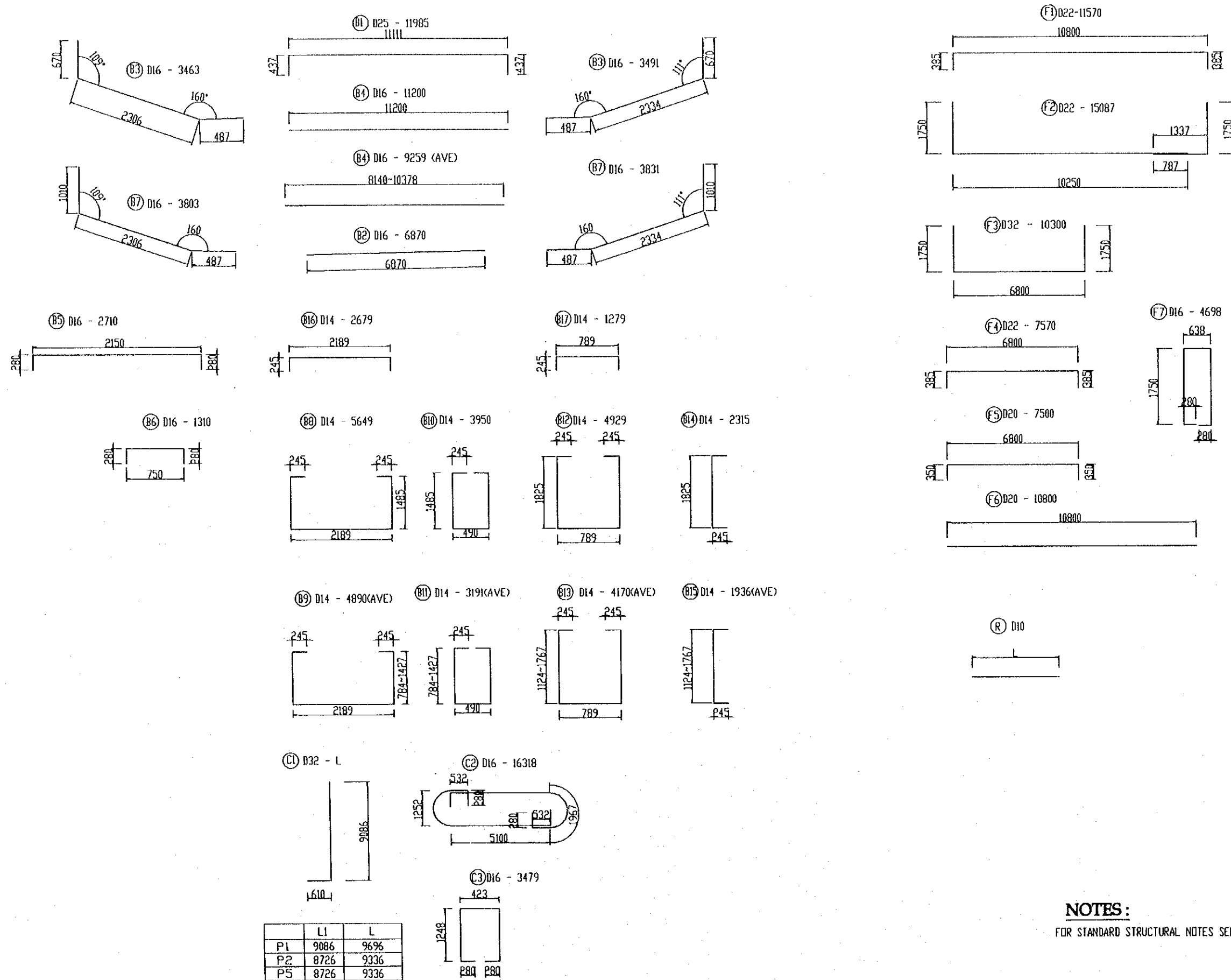
**H-H**  
(SCALE 1:50)



**NOTES:**

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. BR3/0030.  
( ) INSIDE NUMERICAL VALUE SHOWS P6.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NK NIPPON KOEI CO.,LTD.	NAME: T. Kametani SIGNATURE: [Signature] DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE: [Signature] DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: [Signature] DATE: 5/10/2000	TRA ON BRIDGE PIERS PIER P2&P5 REINFORCEMENT 2	P1/BR3/0860



**NOTES:**

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR3/0030

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOBI CO.,LTD.	NAME: T. Kametani SIGNATURE: <i>T. Kametani</i> DATE: 20/9/2000	K. Matsumoto <i>K. Matsumoto</i> 29/9/2000	K. Enomoto <i>K. Enomoto</i> 5/10/2000	TRA ON BRIDGE PIERS PIER P1,P2,P5,P6-REINFORCEMENT-SHEETS3	P1/BR3/0870

**LIST OF REINFORCEMENT  
(FOR 1 PIER)**




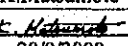

P1,P6						
TYPE	DIAMETER (mm)	LENGTH (mm)	NUMBER	UNITWEIGHT (kg/m)	WEIGHT (kg)	REMARKS
B1	25	11985	32	3.854	1478.4	
B2	16	6870	10	1.579	108.0	
B3	16	3463	10	1.579	54.7	
B3'	16	3491	10	1.579	55.1	
B4	16	11200	6	1.579	106.2	
B4'	16	9259	6	1.579	87.6	AVERAGE
B5	16	2710	8	1.579	34.2	
B6	-	-	-	-	-	
B7	-	-	-	-	-	
B7'	-	-	-	-	-	
B8	14	5649	35	1.208	238.7	
B9	14	4890	20	1.208	118.2	AVERAGE
B10	14	3950	70	1.208	333.9	
B11	14	3191	40	1.208	154.0	AVERAGE
B12	-	-	-	-	-	
B13	-	-	-	-	-	
B14	-	-	-	-	-	
B15	-	-	-	-	-	
B16	14	2679	110	1.208	356.4	
B17	-	-	-	-	-	
C1	32	9696	112	6.313	6854.4	
C2	16	16318	44	1.579	1135.2	
C3	16	3479	64	1.579	351.4	
F1	22	11570	25	2.984	862.5	
F2	22	15087	47	2.984	2115	
F3	32	10300	55	6.313	3575	
F4	22	7570	37	2.984	836.2	
F5	20	7500	16	2.466	296.0	
F6	20	10800	16	2.466	425.6	
F7	16	4698	94	1.579	697.5	
R	10	29000	1	0.617	17.9	
TOTAL		20292.1	( KG )	CONCRETE : 234.3( M3 )		
D32		10429.4	( KG )			
D28		0.0	( KG )			
D25		1478.4	( KG )			
D22		3813.7	( KG )			
D20		721.6	( KG )			
D16		2629.9	( KG )			
D14		1201.2	( KG )			
D10		17.9	( KG )			

**LIST OF REINFORCEMENT  
(FOR 1 PIER)**

P2,P5						
TYPE	DIAMETER (mm)	LENGTH (mm)	NUMBER	UNITWEIGHT (kg/m)	WEIGHT (kg)	REMARKS
B1	25	11985	32	3.854	1478.4	
B2	16	6870	10	1.579	108.0	
B3	16	3463	6	1.579	32.8	
B3'	16	3491	6	1.579	33.1	
B4	16	11200	9	1.579	159.3	
B4'	16	9259	6	1.579	87.6	AVERAGE
B5	16	2710	8	1.579	34.2	
B6	16	1310	4	1.579	8.3	
B7	16	3803	4	1.579	24.0	
B7'	16	3831	4	1.579	24.2	
B8	14	5649	35	1.208	238.7	
B9	14	4890	20	1.208	118.2	AVERAGE
B10	14	3950	35	1.208	167.0	
B11	14	3191	20	1.208	77.0	AVERAGE
B12	14	4929	35	1.208	208.3	
B13	14	4170	20	1.208	100.8	AVERAGE
B14	14	2315	35	1.208	98.0	
B15	14	1936	20	1.208	46.8	AVERAGE
B16	14	2679	110	1.208	356.4	
B17	14	1279	55	1.208	85.3	
C1	32	9336	112	6.313	6596.8	
C2	16	16318	44	1.579	1135.2	
C3	16	3479	64	1.579	351.4	
F1	22	11570	25	2.984	862.5	
F2	22	15087	47	2.984	2115	
F3	32	10300	55	6.313	3575	
F4	22	7570	37	2.984	836.2	
F5	20	7500	16	2.466	296.0	
F6	20	10800	16	2.466	425.6	
F7	16	4698	94	1.579	697.5	
R	10	48400	1	0.617	29.9	
TOTAL		20407.5	( KG )	CONCRETE : 234.3( M3 )		
D32		10171.8	( KG )			
D28		0.0	( KG )			
D25		1478.4	( KG )			
D22		3813.7	( KG )			
D20		721.6	( KG )			
D16		2695.6	( KG )			
D14		1496.5	( KG )			
D10		29.9	( KG )			

**NOTES :**

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR3/0030

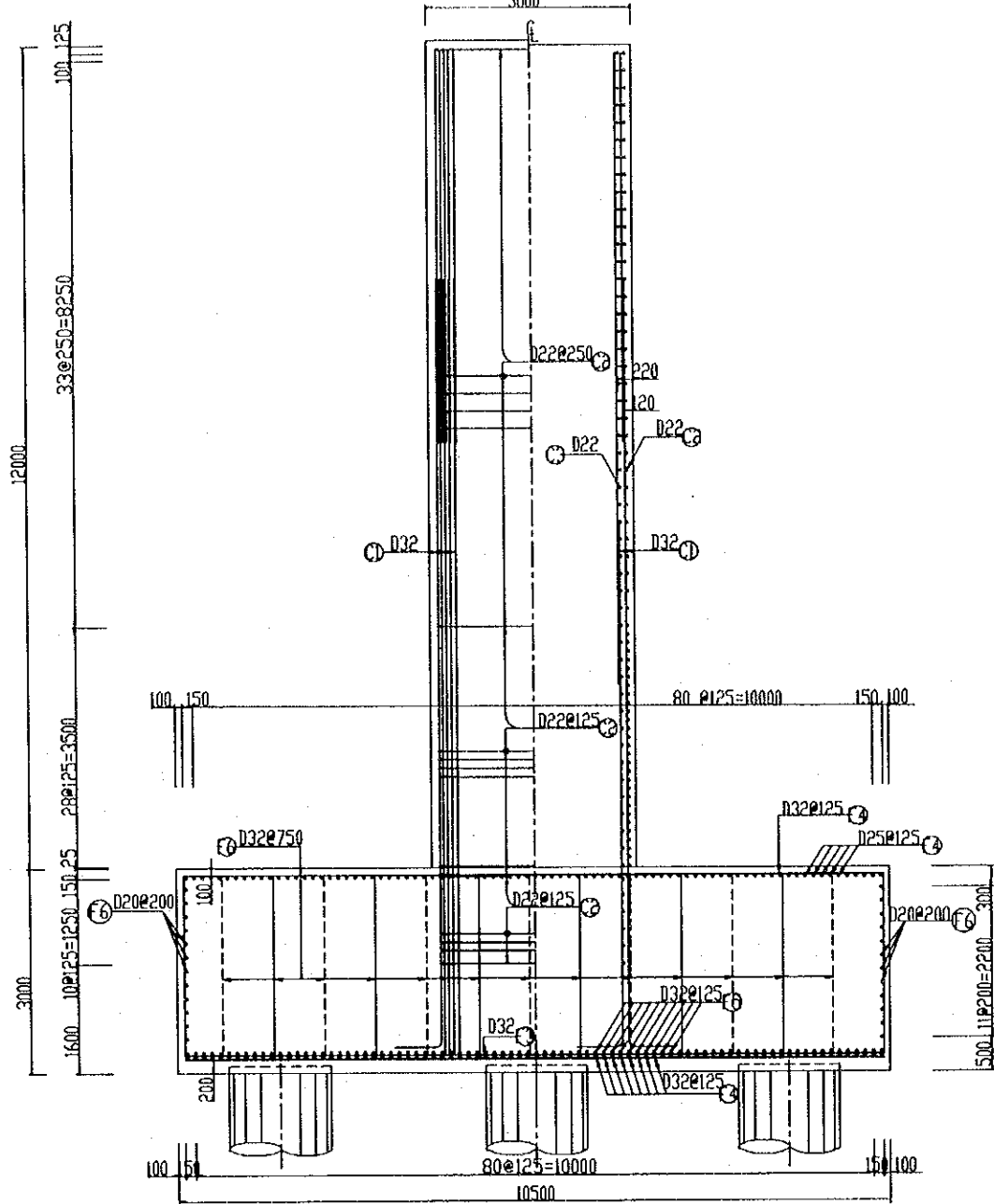
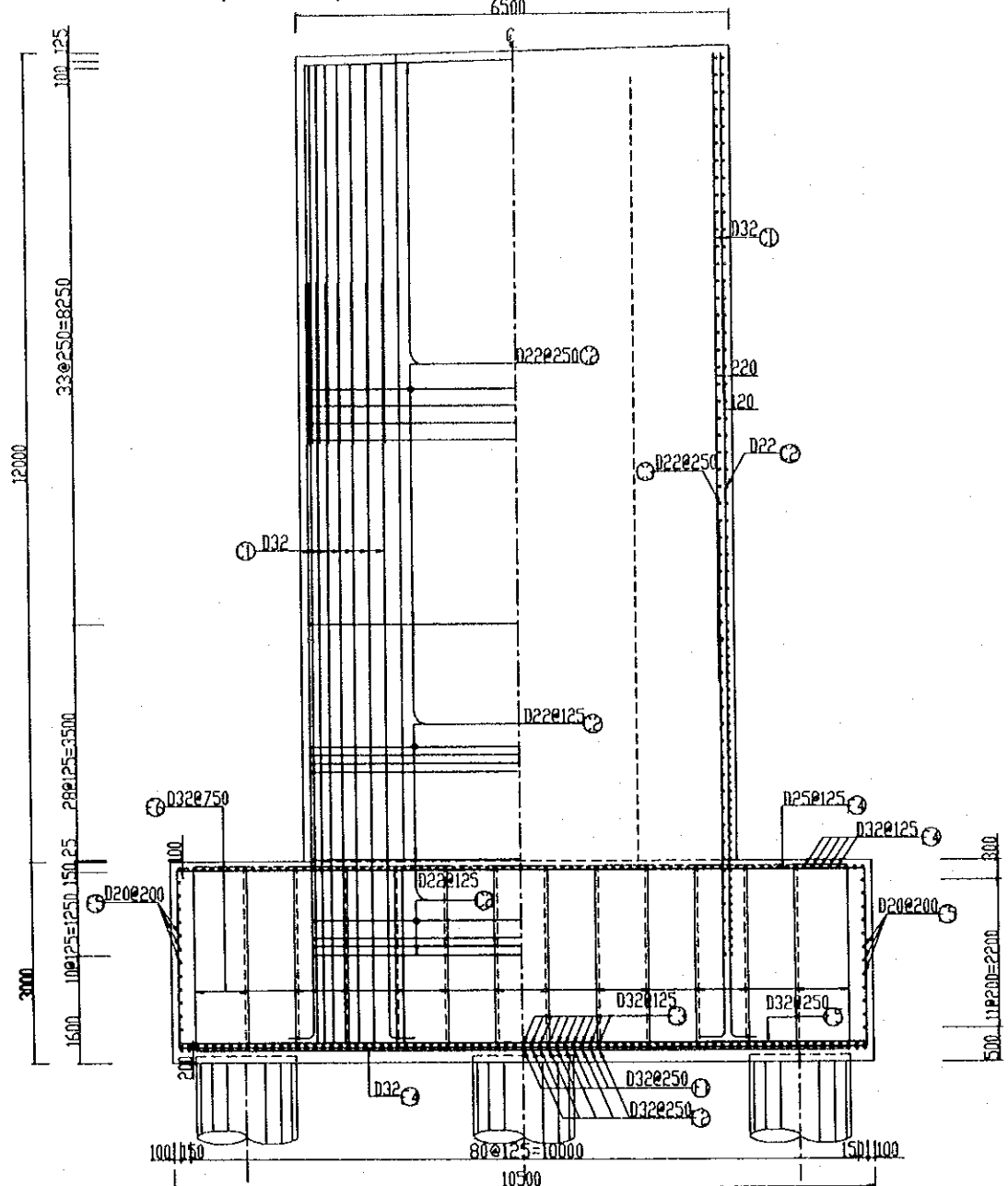
PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY  JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM  NIPPON KOBI CO.,LTD.	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE TRA ON BRIDGE PIERS PIER P1,P2,P5,P6-REINFORCEMENT-SHEET4	DWG NO. P1/BR3/0880	
				NAME	T. Kametani	K. Matsumoto			K. Enomoto
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

HALF SECTION A-A  
(SCALE 1:100)

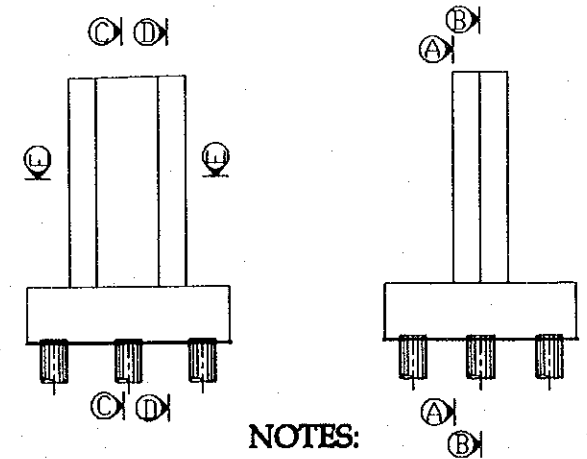
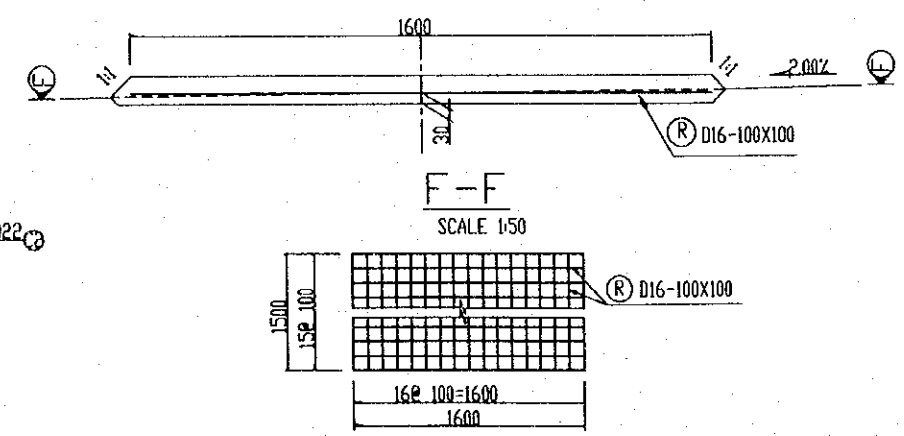
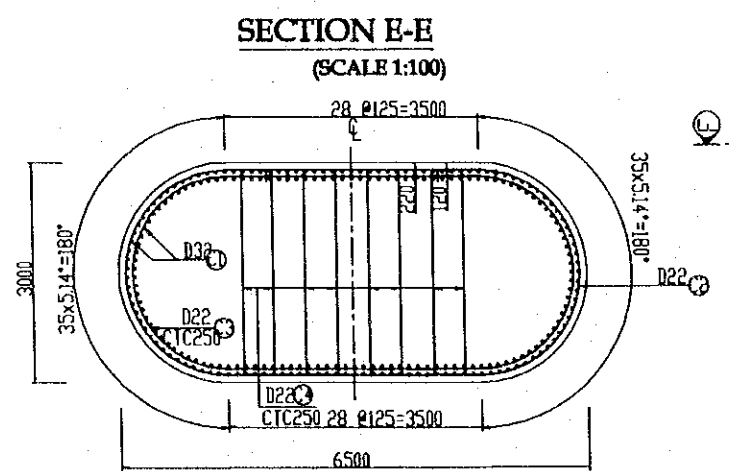
HALF SECTION B-B  
(SCALE 1:100)

HALF SECTION D-D  
(SCALE 1:100)

HALF SECTION C-C  
(SCALE 1:100)



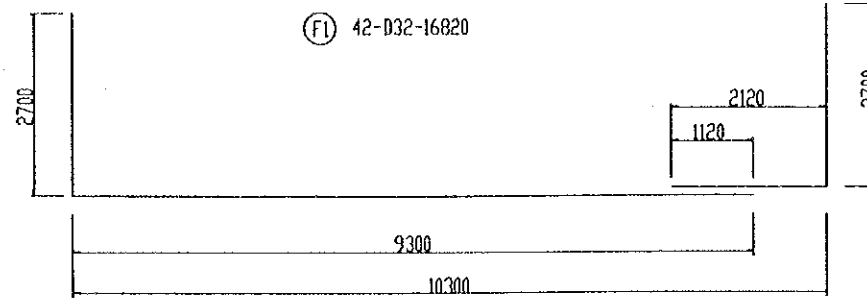
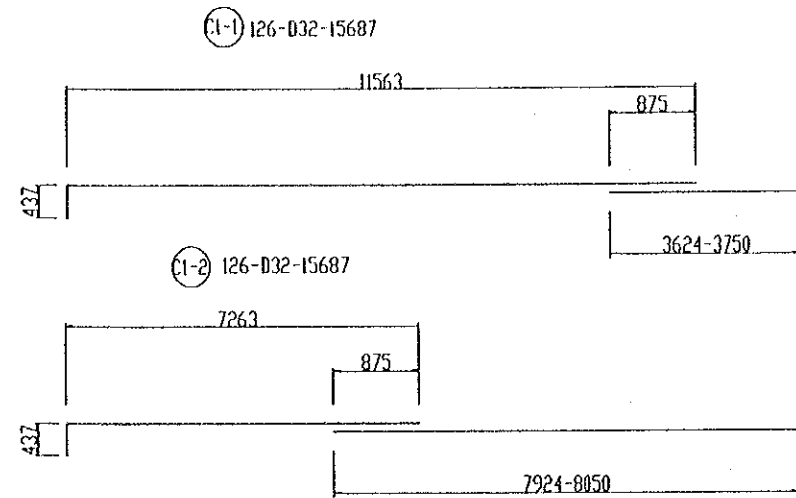
REINFORCING SHOES  
SCALE 1:20



NOTES:  
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR3/0030

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	T. Kamelani	K. Matsumoto	K. Enomoto	TRA ON BRIDGE PIERS PIERS P3&P4-REINFORCEMNT-SHEET1	P1/BR3/0090
				NAME	DATE	DATE		
				20/9/2000	29/9/2000	5/10/2000		

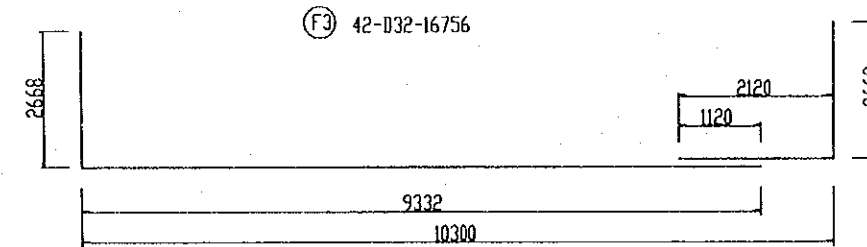
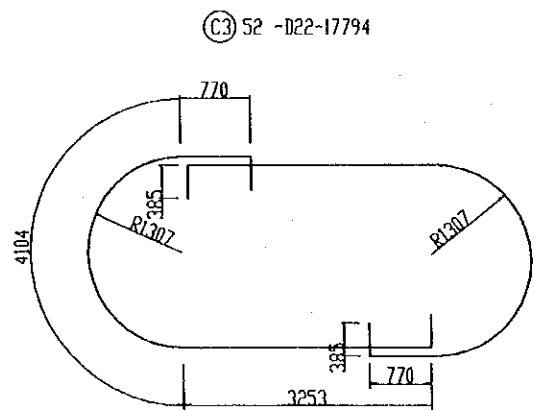
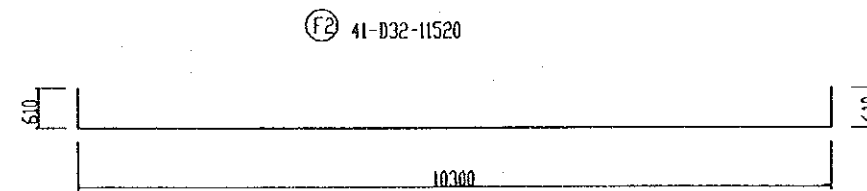
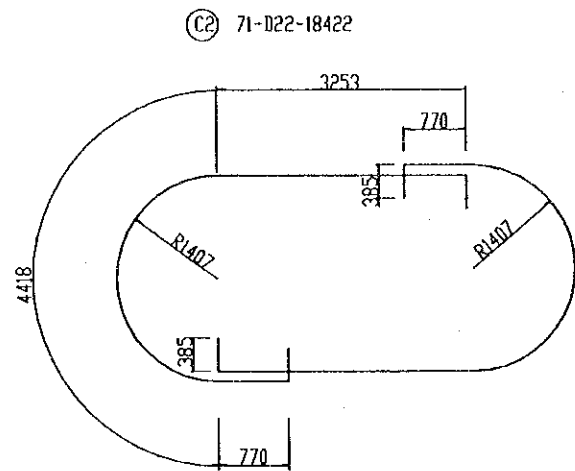




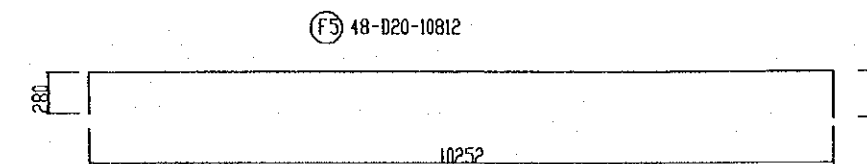
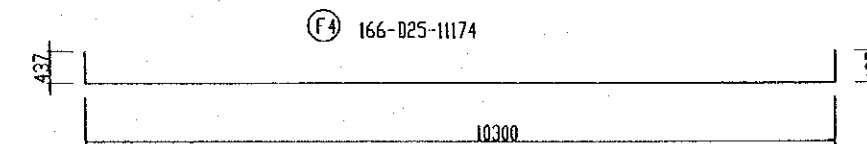
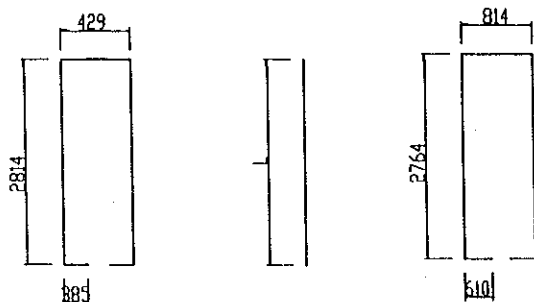
**LIST OF REINFORCEMENT**

P3P4

NAME	DIAMETER (mm)	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT (kg)
CI-1	D32	15,687	126	6.313	12,474.0
CI-2	D32	15,687	126	6.313	12,474.0
C2	D22	18,422	71	2.984	3,905.0
C3	D22	17,794	52	2.984	2,761.2
C4	D22	6,827	208	2.984	4,243.2
F1	D32	16,820	42	6.313	4,452.0
F2	D32	11,520	41	6.313	2,980.7
F3	D32	16,756	42	6.313	4,452.0
F4	D25	11,174	166	3.054	7,154.6
F5	D20	10,812	48	2.466	1,281.6
F6	D32	7,562	92	6.313	4,388.4
R	D16	102,400	1	1.579	162.0
TOTAL		60728.7	( KG )		
D32		41221.1	( KG )		
D25		7154.6	( KG )		
D22		10909.4	( KG )		
D20		1281.6	( KG )		
D16		162.0	( KG )		
					CONCRETE : 557 ( M3 )



(C4) 208-D22-6827 (R) D16-10x10 (F6) 92-D32-7562



**NOTES:**

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR3/0030



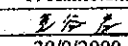
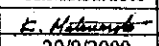
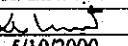
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPON KOEI CO., LTD.	T. Kametani	K. Matsumoto	K. Enomoto	TRA ON BRIDGE PIERS PIER P3&P4-REINFORCEMENT-SHEET2	P1/BR3/0900
				SIGNATURE	SIGNATURE	SIGNATURE		
				DATE	DATE	DATE		

QUANTITY TABLE OF BRIDGE

Item		UNIT	Pier 1	Pier 2	Pier 3	Pier 4	Pier 5	Pier 6	SubTotal	nos	Total	
PILE	NUMBER OF PILES	pile	6	6	6	6	6	6	36	2	72.0	
	TOTAL LENGTH OF BORED $\phi$ 1500mm	m	462.0	462.0	639.0	639.0	462.0	462.0	3,126	2	6252.0	
	CONCRETE CLASS D	m3	816.4	816.4	1129.2	1129.2	816.4	816.4	5,524	2	11048.2	
	REINFORCEMENT	25	kg	4524.4	4524.4	4848	4848	4524.4	4524.4	27,794	2	55587.2
		22	kg	418.3	418.3	380.3	380.3	418.3	418.3	2,434	2	4867.6
		16	kg	33.4	33.4	33.4	33.4	33.4	33.4	200	2	400.8
		10	kg	1154.4	1154.4	1084.1	1084.1	1154.4	1154.4	6,786	2	13571.6
TOTAL	kg	6130.5	6130.5	6345.8	6345.8	6130.5	6130.5	37,214	2	74427.2		
PIER	CONCRETE CLASS E	m3	243.0	241.6	541.6	541.6	241.6	243.0	2,052	2	4104.8	
	REINFORCEMENT	32	kg	10429.4	10171.8	41221.1	41221.1	10171.8	10429.4	123,645	2	247289.2
		25	kg	1478.4	1478.4	7154.6	7154.6	1478.4	1478.4	20,223	2	40445.6
		22	kg	3813.7	3813.7	10909.4	10909.4	3813.7	3813.7	37,074	2	74147.2
		20	kg	721.6	721.6	1281.6	1281.6	721.6	721.6	5,450	2	10899.2
		16	kg	2629.9	2695.6	162.0	162.0	2695.6	2629.9	10,975	2	21950.0
		14	kg	1202.0	1497.4		0.0	1497.4	1202.0	5,399	2	10797.6
		10	kg	17.9	29.8		0.0	29.8	17.9	95	2	190.8
	TOTAL	kg	20292.9	20408.3	60728.7	60728.7	20408.3	20292.9	202,860	2	405719.6	
	BLINDING STONE	m3	16.1	16.1	22.9	22.9	16.1	16.1	110	2	220.6	
	LEAN CONCRETE CLASS G	m3	8.1	8.1	11.4	11.4	8.1	8.1	55	2	110.3	
	BLINDING CONCRETE CLASS G	m3			102.1	102.1			204	2	408.2	
	RIP RAP	m3			651.6	742.6			1,394	2	2788.5	
	EXCAVATION	m3	508.2	432.0	1050.2	1153.9	371.1	508.2	4,023	2	8046.9	
BACK FILL	m3	319.0	246.4			188.5	255.0	1,009	2	2017.8		

NOTES

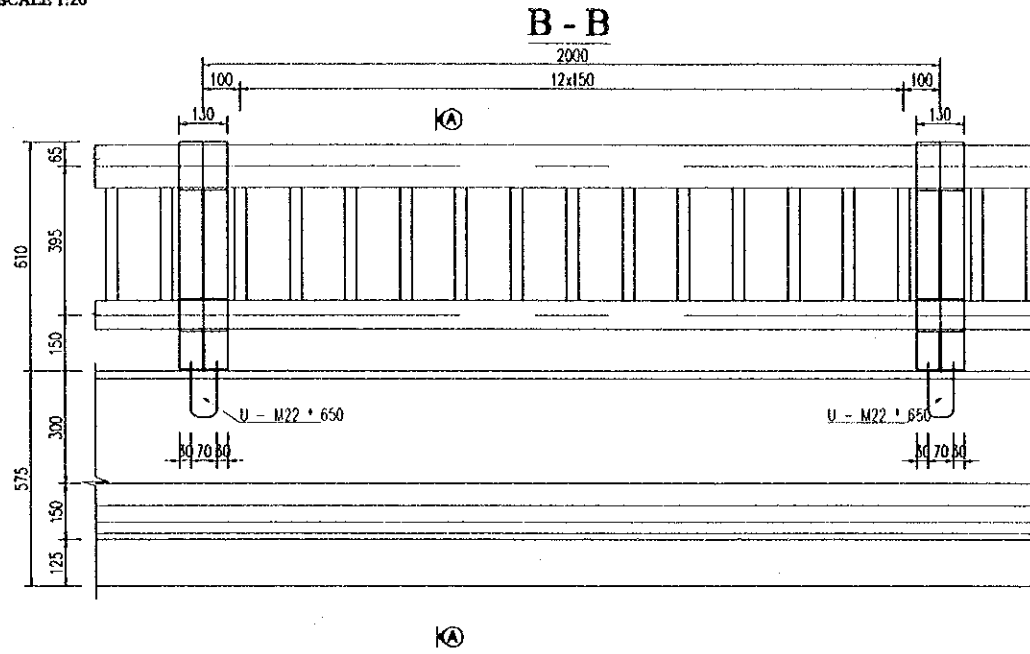
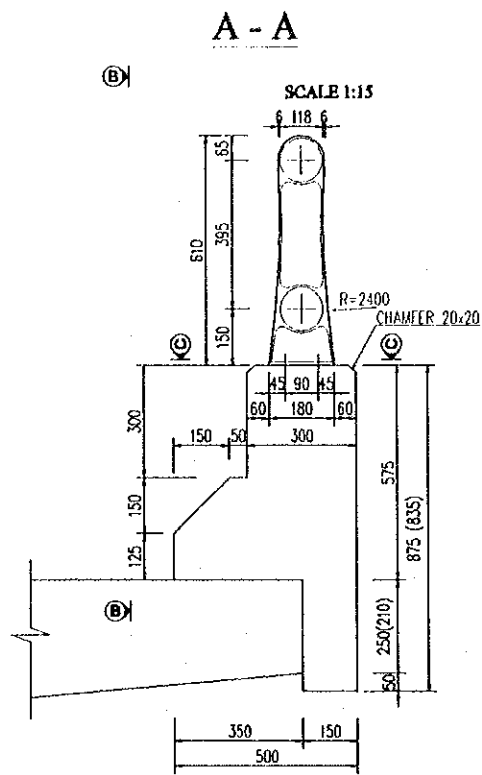
- 1- FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P1/BR3/0030.
- 2- QUANTITY OF PILE CONCRETE IN THE TABLE DOES NOT INCLUDE THE VOLUME OF TRIMMING OUT OF THE PILE HEAD.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	 NIPPON KOEI CO.,LTD.	NAME: T. Kametani SIGNATURE:  DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE:  DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE:  DATE: 5/10/2000	TRA ON BRIDGE PIERS QUANTITY TABLE OF PIERS	P1/BR3/0910

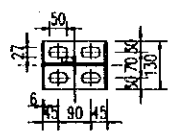
## **VI. MISCELLANEOUS**

# DETAIL OF PARAPET AND RAILING

SCALE 1:20



## C - C

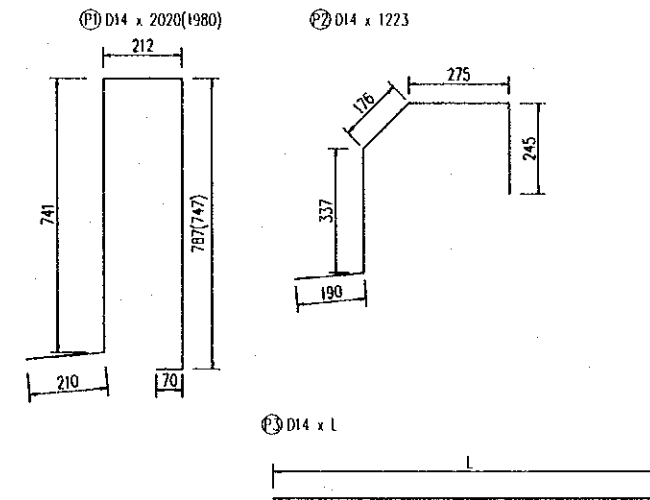
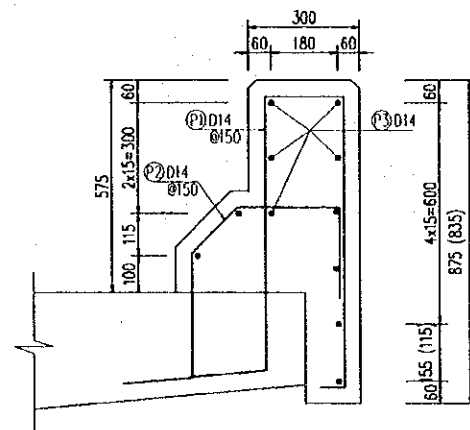


## NOTES:

1. FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR3/0030.
2. THE VALUES INSIDE "( )" ARE FOR APPROACH BRIDGE.
3. UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANIZED FOLLOWED BY SPECIFICATION PAINT PROTECTION SYSTEM.

## REINFORCEMENT OF PARAPET

SCALE 1:20



## QUANTITY OF RAILING (PER 10M LONG)

ITEM	SIZE	MATERIAL	UNIT WEIGHT	QUANTITY	UNIT	WEIGHT(KG)	REMARK
POST	610*180*130	FCD-450	18.1	5	EACH	90.5	GALVANIZING
UPPER RAIL	114.3*130	STK-400	19.5	10	M	195.0	
BOTTOM RAIL	76.3*130	STK-400	5.77	10	M	57.7	
CONNECTION	490*300	STK-400	2.13	1.67	EACH	3.6	
	67.5*300	STK-400	1.4	1.67	EACH	2.3	
ANCHO BOLT	M22. 650	SS-400	2.9	20	EACH	58.0	
VERTICAL MEMBER	FB6*32*300	SS-400	2.09	65	EACH	135.85	

## LIST OF REINFORCEMENT OF PARAPET (PER 10M LONG)

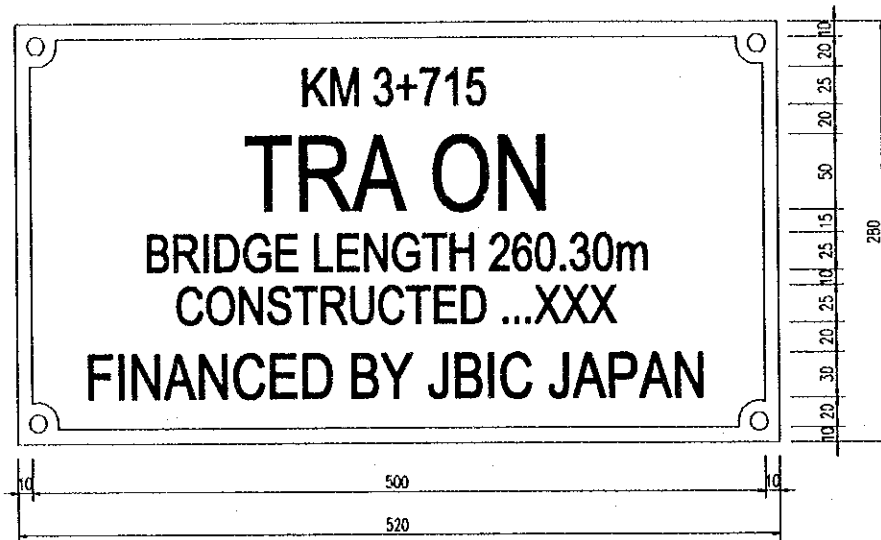
NAME	DIAMETER (mm)	LENGTH (mm)	NUMBER	U. WEIGHT (kg/m)	WEIGHT (kg)
P1	14	1980	68	1.208	162.7
P2	14	1223	68	1.208	100.5
P3	14	10000	11	1.208	132.9
D14 CONCRETE				396.1	(kg)
				2.55	m <sup>3</sup>

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	T. Kametani	K. Matsumoto	K. Enomoto	TRA ON BRIDGE MISCELLANEOUS PARAPET AND RAILING DETAILS	P1/BR3/0920
				DATE: 20/9/2000	DATE: 29/9/2000	DATE: 5/10/2000		

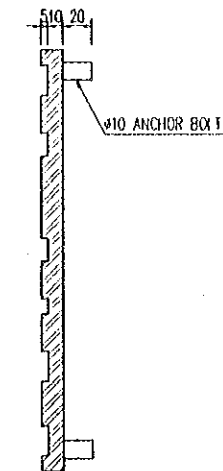
DETAIL OF BRIDGE NAME PLAQUE

SCALE 1:5

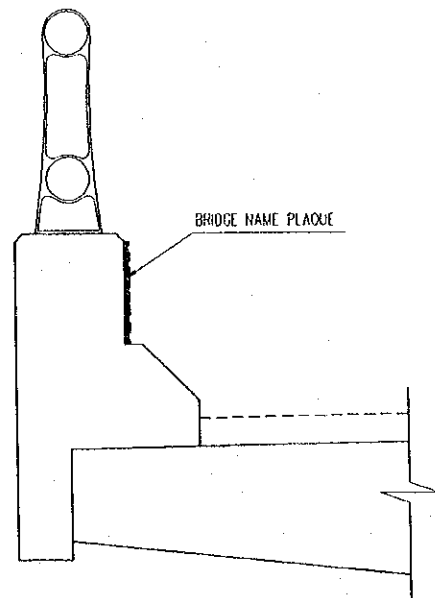
DETAIL 1



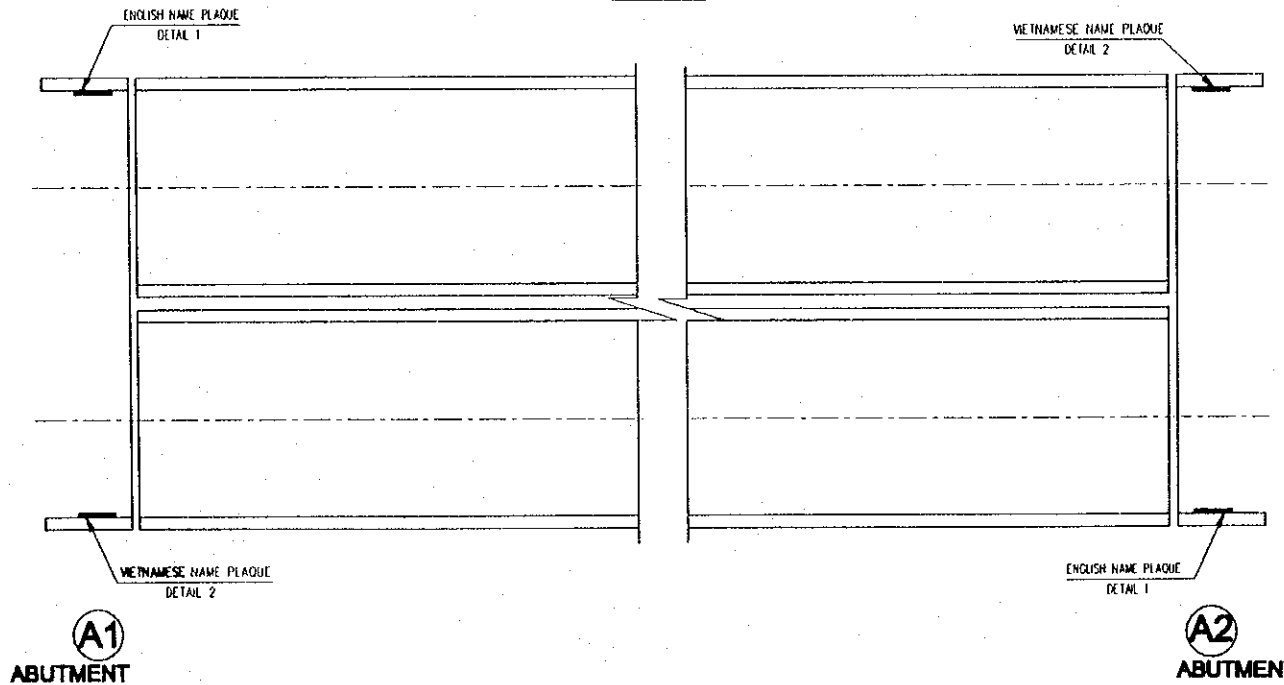
DETAIL 2



LOCATION OF NAME PLAQUE



PLAN

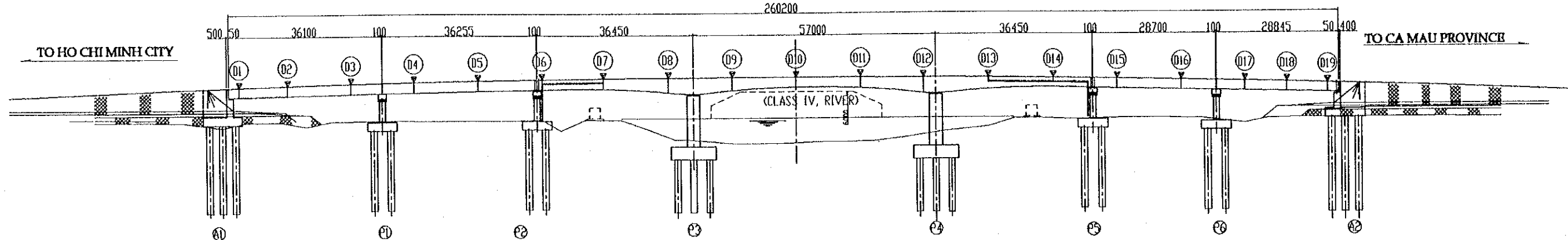


NOTES

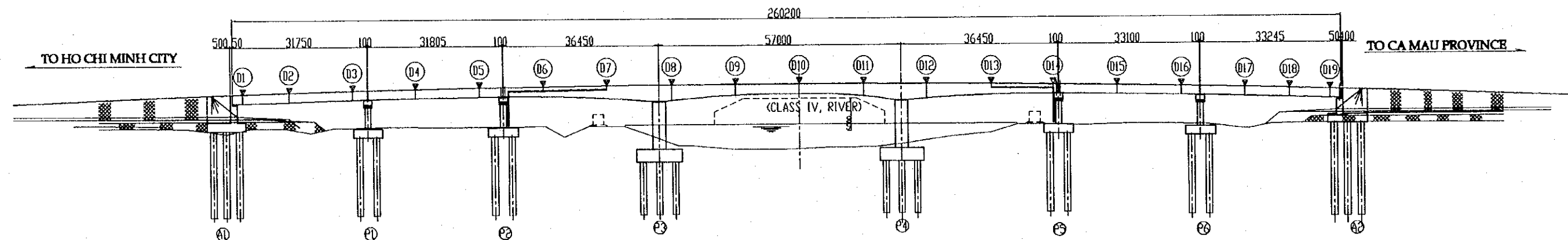
- FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR3/0030.
- MATERIAL SHALL BE BRONZE.
- THE DATE TO BE ENTERED AGAINST CONSTRUCTED SHALL BE AS INSTRUCTED BY THE ENGINEER.
- ONE PLATE SHALL BE WRITTEN IN ENGLISH AND ONE IN VIETNAMESE.  
THE EXACT FIXING LOCATIONS TO BE INSTRUCTED BY THE ENGINEER.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME: T. Kametani SIGNATURE: [Signature] DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE: [Signature] DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: [Signature] DATE: 5/10/2000	TRA ON BRIDGE MISCELLANEOUS BRIDGE NAME PLAQUE	P1/BR3/0930

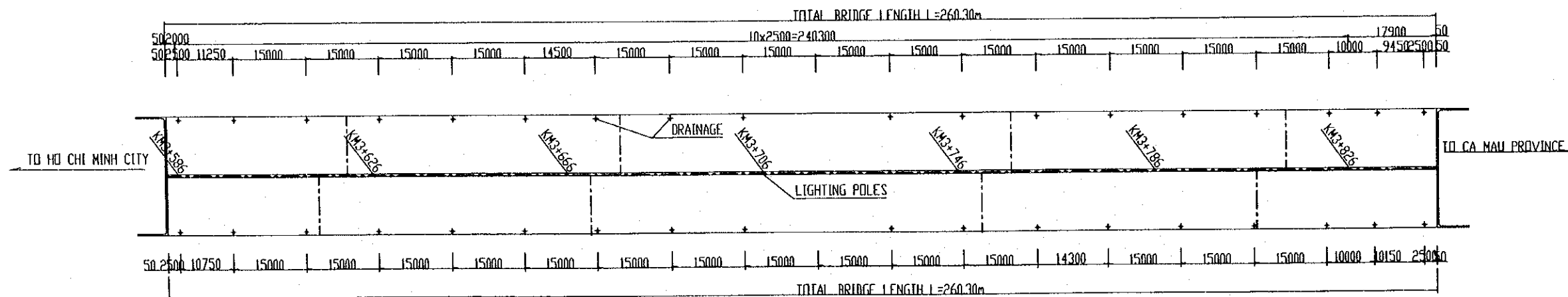
**SIDE ELEVATION  
(HO CHI MINH CITY-CA MAU DIRECTION)**  
(SCALE 1/1000)  
260200



**SIDE ELEVATION  
(HO CHI MINH CITY-CA MAU DIRECTION)**  
(SCALE 1/1000)  
260200



**PLAN  
SCALE 1/1000**



**NOTES:**

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR3/0030

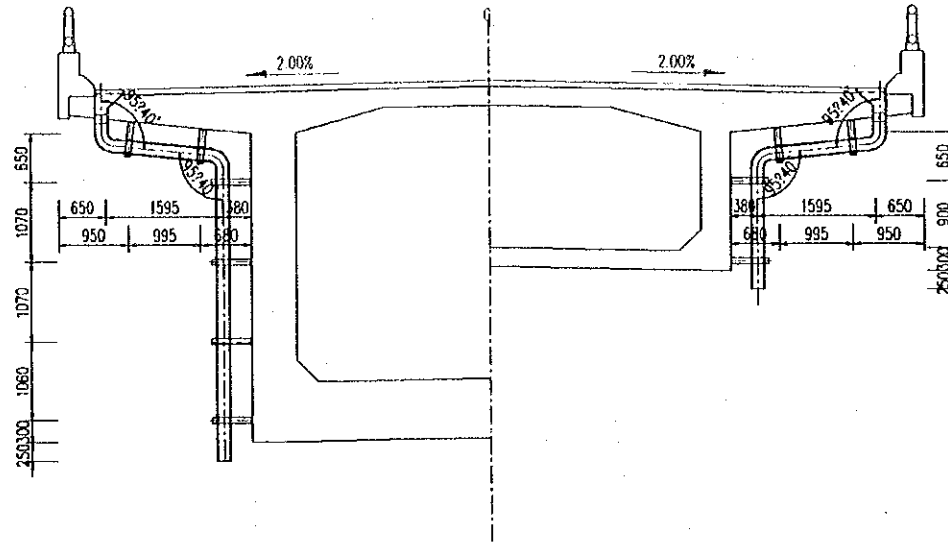
<b>PROJECT NAME</b> DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	<b>IMPLEMENTATION AGENCY</b> JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	<b>EXECUTING AGENCY</b> SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	<b>JICA STUDY TEAM</b> NIPPON KOBI CO.,LTD.	<b>PREPARED BY</b> NAME T. Kametani	<b>CHECKED BY</b> K. Matsumoto	<b>APPROVED BY</b> K. Enomoto	<b>DRAWING TITLE</b> TRA ON BRIDGE MISCELLANEOUS DRAINAGE AND LIGHTING POLES LAYOUT	<b>DWG NO.</b> P1/BR3/0940	
				<b>SIGNATURE</b>	<b>DATE</b> 20/9/2000	<b>DATE</b> 29/9/2000			<b>DATE</b> 5/10/2000

**DRAINAGE TYPE B**

SCALE 1:100  
 (D13) - (D21)

**AT SUPPORT**

**AT CENTER SPAN**

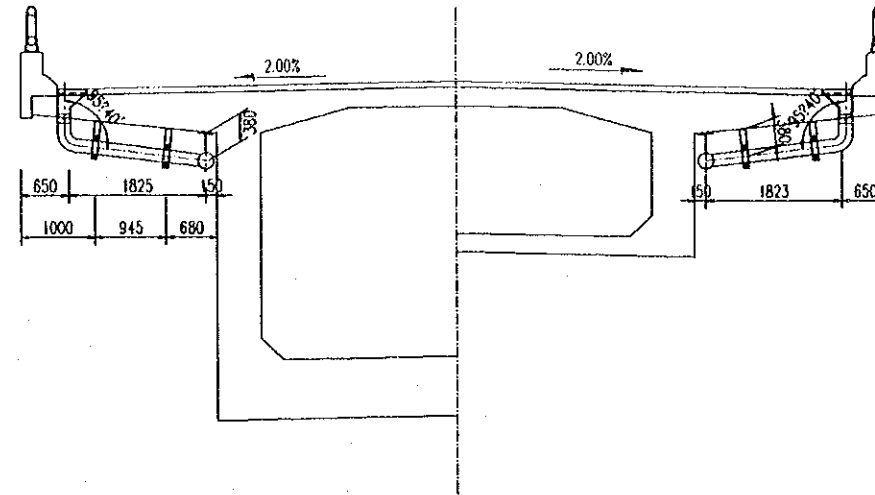


**DRAINAGE TYPE C**

SCALE 1:100  
 (D9) - (D12)

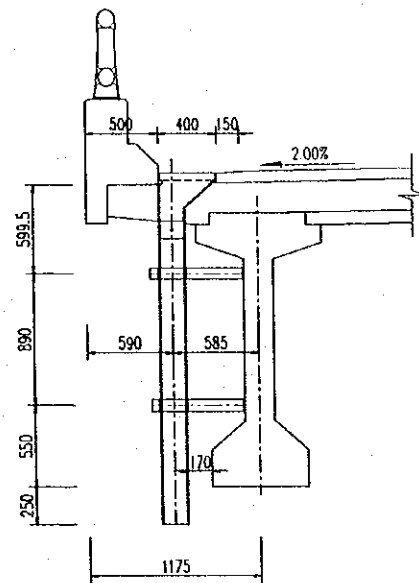
**AT SUPPORT**

**AT CENTER SPAN**



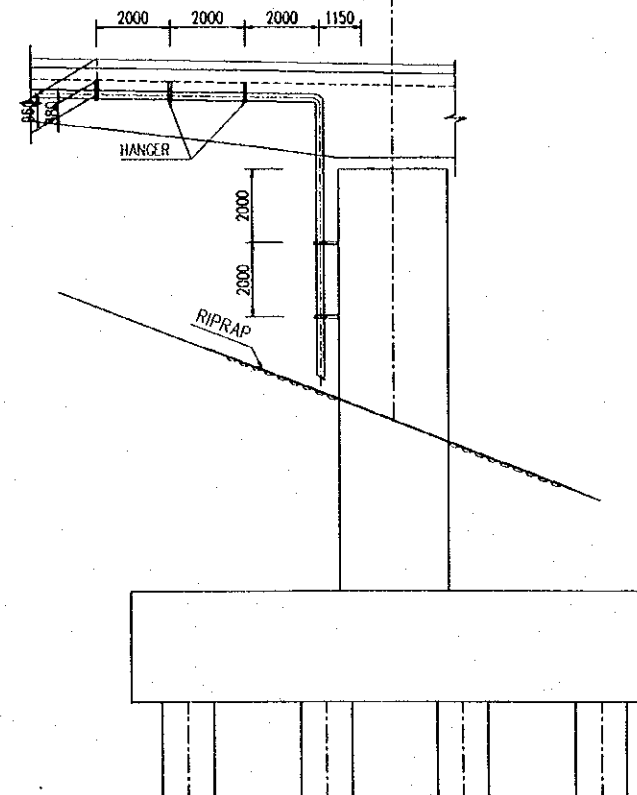
**DRAINAGE TYPE A**

SCALE 1:50  
 (D1) - (D8)



**DRAINAGE AT PIER 5**

SCALE 1:200



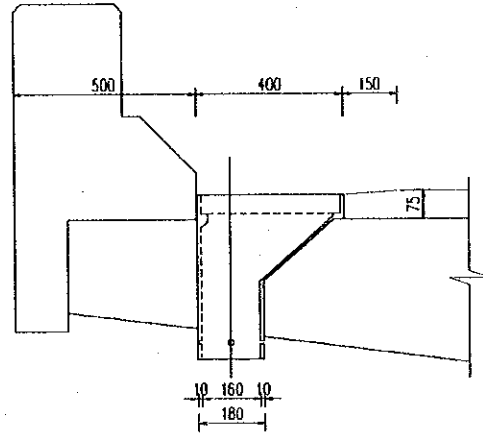
**NOTES:**

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P1/BR3/0030

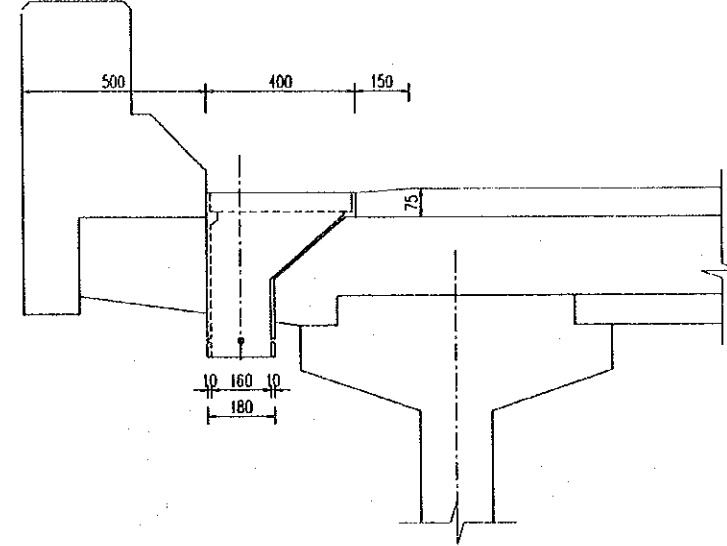
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME: T. Kametani SIGNATURE: [Signature] DATE: 20/9/2000	K. Matsumoto [Signature] 29/9/2000	K. Enomoto [Signature] 5/10/2000	TRA ON BRIDGE MISCELLANEOUS DRAINAGE DETAILS - SHEET 1	P1/BR3/0950

**LOCATION OF DRAIN**  
SCALE 1:20

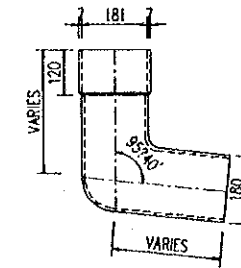
**MAIN BRIDGE**



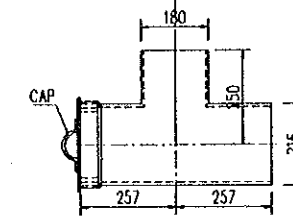
**APPROACH BRIDGE**



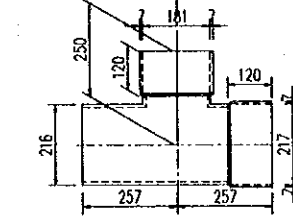
**BEND PIPE**  
SCALE 1:20



**TEE (Ø=200mm)**  
(STYLE 1)  
SCALE 1:20

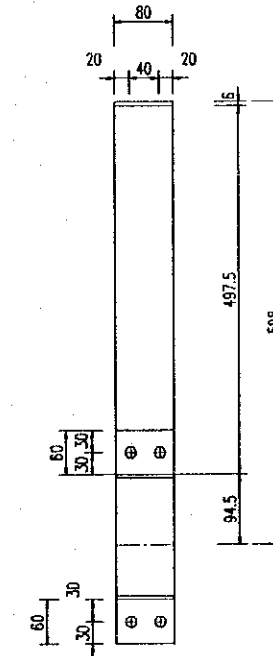
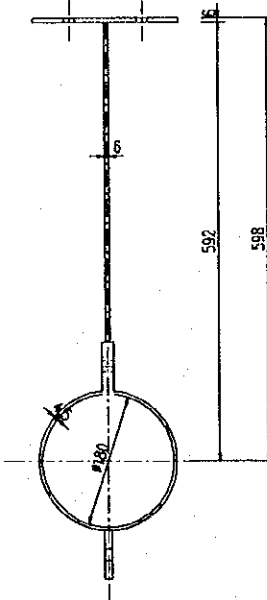
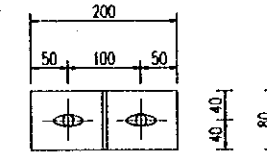


**TEE (Ø=200mm)**  
(STYLE 2)  
SCALE 1:20

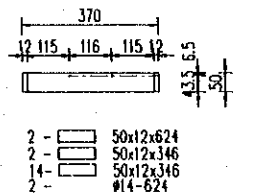
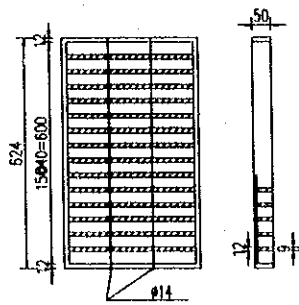


**HANGER**

(SCALE 1:10)

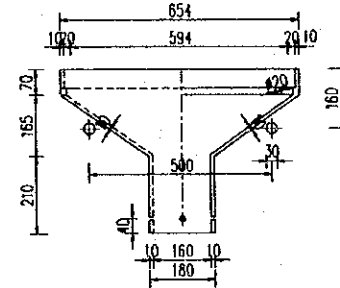
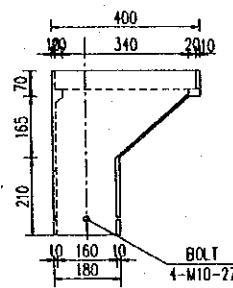


**SCREEN**  
SCALE 1:20

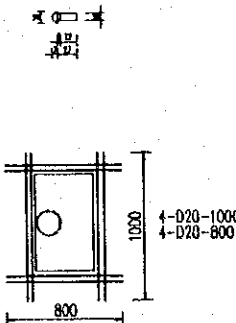


- 2 - 50x12x624
- 2 - 50x12x346
- 14 - 50x12x346
- 2 - #14-624

**DRAIN BOX**  
SCALE 1:20



**BOLT**  
SCALE 1:10



**NOTES:**

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P1/BR3/0030

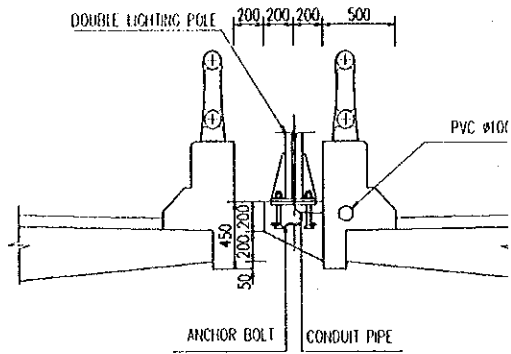
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	T. Kametani	K. Matsumoto	K. Enomoto	TRA ON BRIDGE MISCELLANEOUS DRAINAGE DETAILS - SHEET 2	P1/BR3/0960
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	



## DETAILS OF LIGHTING POLES' BASE

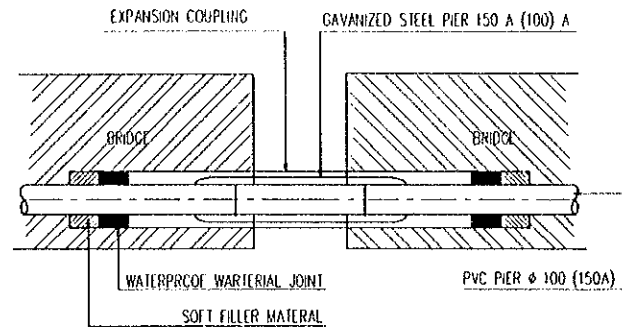
### CROSS SECTION

(SCALE: 1:50)



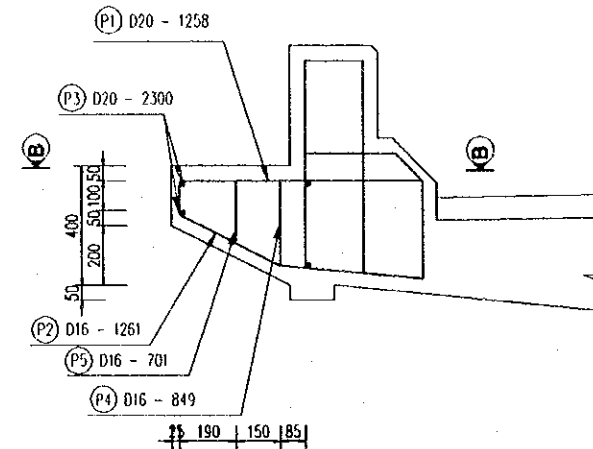
### CONDUIT EXPANSION JOINT FOR BRIDGE

(SCALE 1:25)



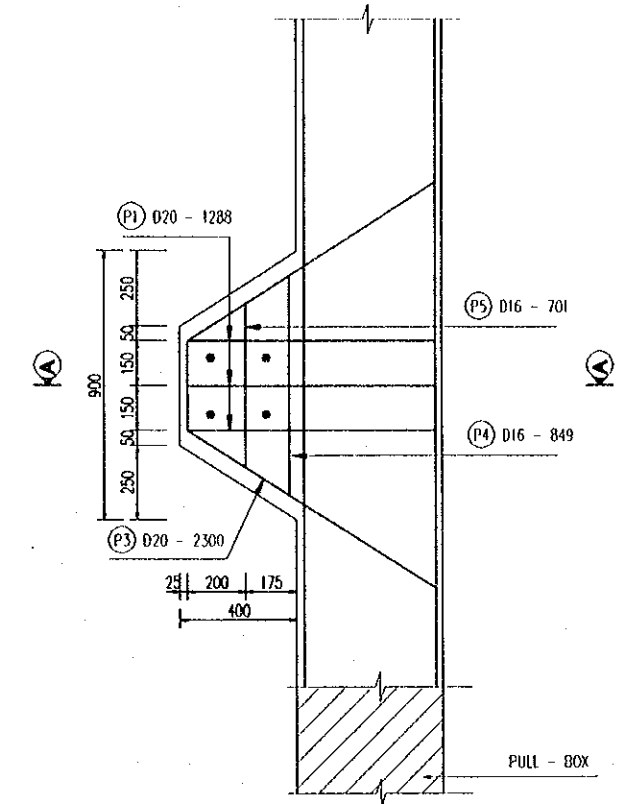
### SECTION A-A

(SCALE 1:25)



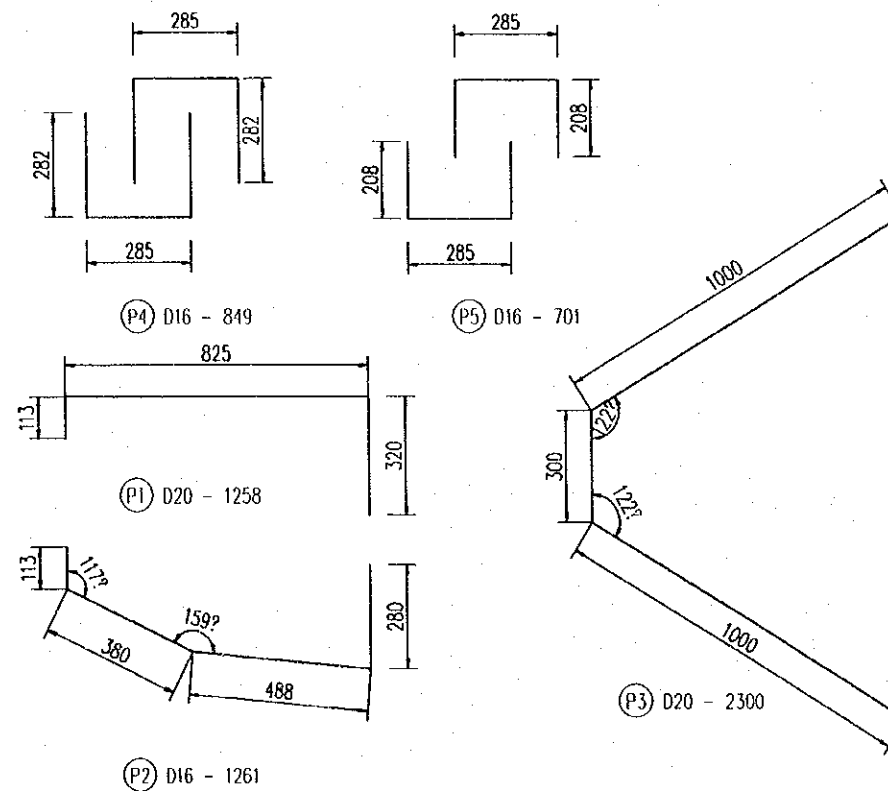
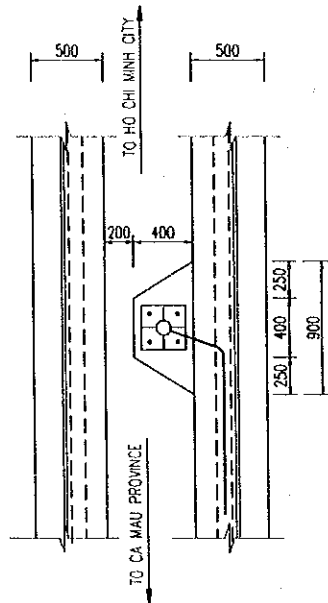
### SECTION B-B

(SCALE 1:25)



### PLAN

(SCALE: 1:50)



### LIST OF REINFORCEMENT

REIN NO	DIAMETER (mm)	LENGTH (mm)	U.WEIGHT (kg/m)	NUMBER	WEIGHT (Kg)
P1	D 20	1258	2.466	3	9.31
P2	D 16	1261	1.578	3	5.97
P3	D 20	2300	2.466	2	11.34
P4	D 16	849	1.578	2	2.68
P5	D 16	701	1.578	2	2.21
TOTAL :					31.51 kg
D16					10.86 kg
D20					20.65 kg
CONCRETE					0.078 m <sup>3</sup>



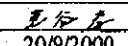
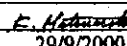
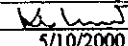
### NOTES

- FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P1/BR3/0030.
- ANCHOR BOLTS AND CONDUIT PIPES SHALL BE PLACED PRIOR TO CASTING CONCRETE
- DETAILS OF PULL-BOX SHALL BE SHOWN IN THE SHOP DRAWING TO BE SUBMITTED FOR THE ENGINEER'S APPROVAL

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME: T. Kametani SIGNATURE: [Signature] DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE: [Signature] DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: [Signature] DATE: 5/10/2000	TRA ON BRIDGE MISCELLANEOUS LIGHTING POLES' BASE DETAILS	P1/BR3/0970

QUANTITY TABLE OF MISCELLANEOUS

ITEM	WORK ITEM	UNIT	QUANTITY	REMARKS
CONCRETE CLASS E	LOGHT- BASE	m3	0.62	
	RAILING	m3	267.28	
	TOTAL	m3	267.90	
REINFORCEMENT	LOGHT- BASE	ton	0.22	
	RAILING	ton	41.50	
	TOTAL	ton	41.72	
DRAINAGE	POT	SET	38.00	
	PIPE \$180	m	135.90	
STEEL RAIL		m	1040.00	

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	 NIPPON KOEI CO.,LTD.	NAME: T. Kametani SIGNATURE:  DATE: 20/9/2000	NAME: K. Matsumoto SIGNATURE:  DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE:  DATE: 5/10/2000	TRA ON BRIDGE MISCELLANEOUS QUANTITY TABLE OF MISCELLANEOUS	P1/BR3/0980