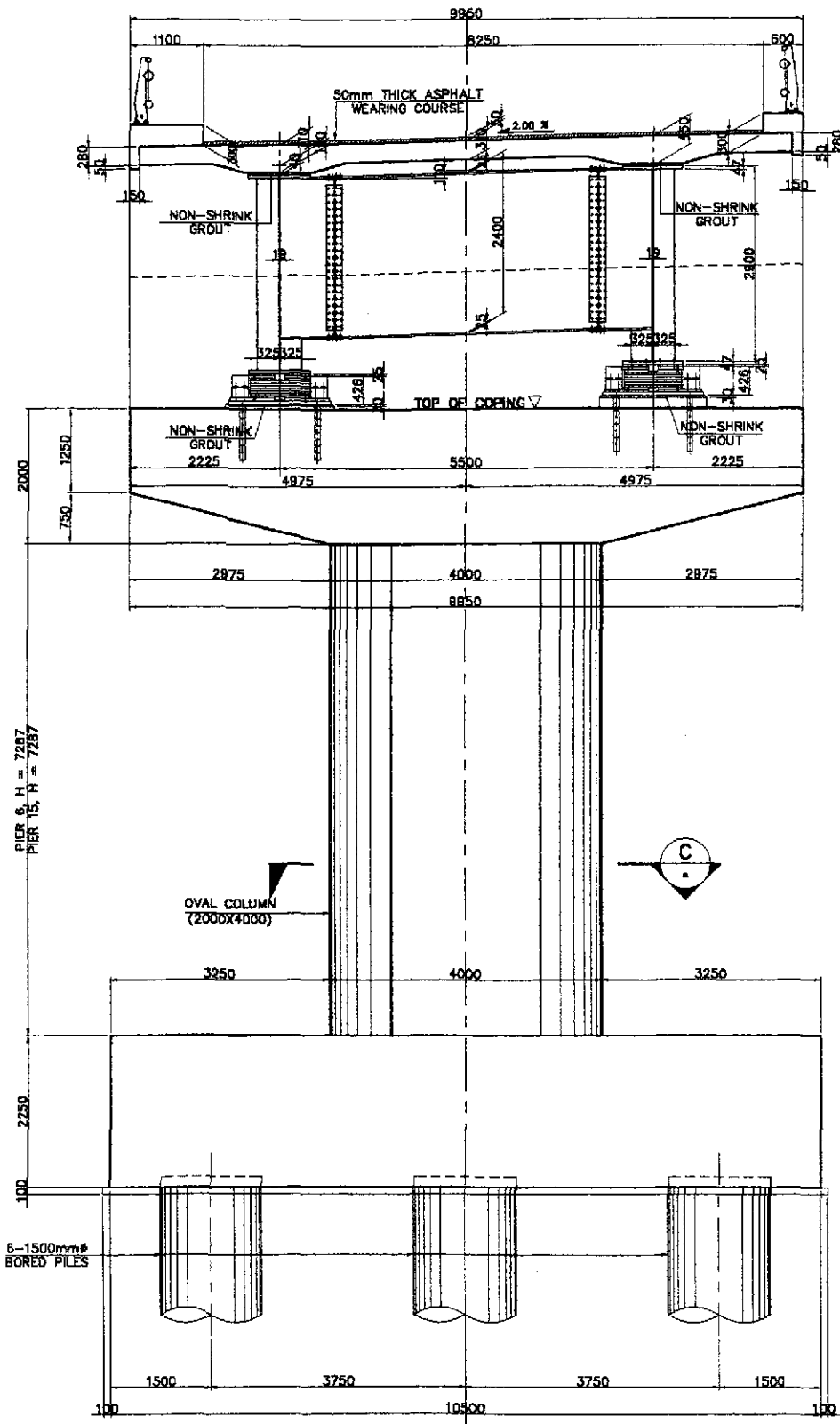
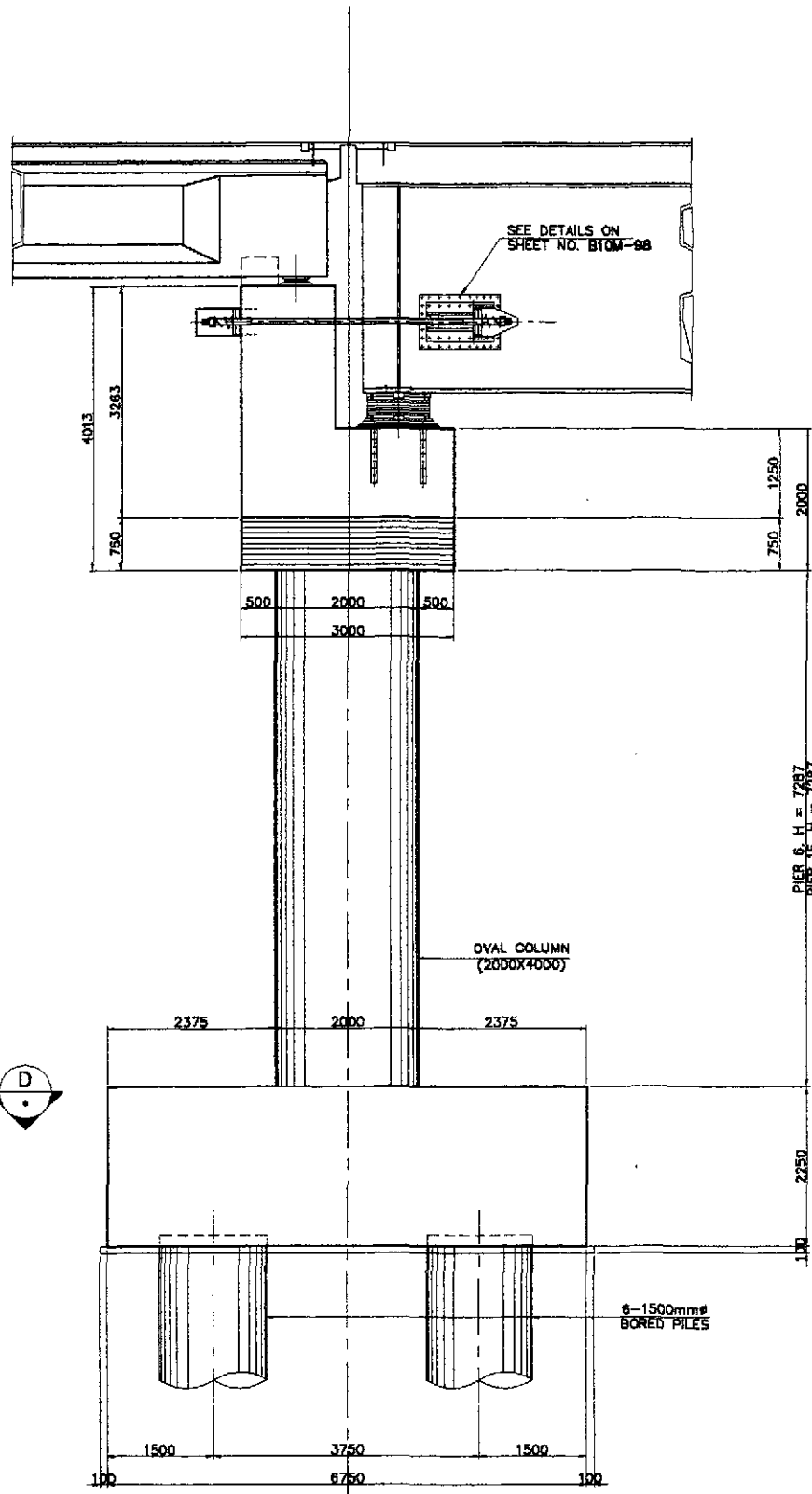


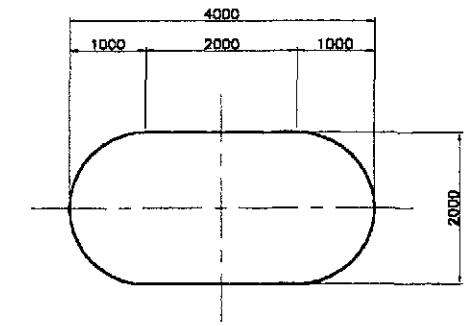
SUBSTRUCTURE



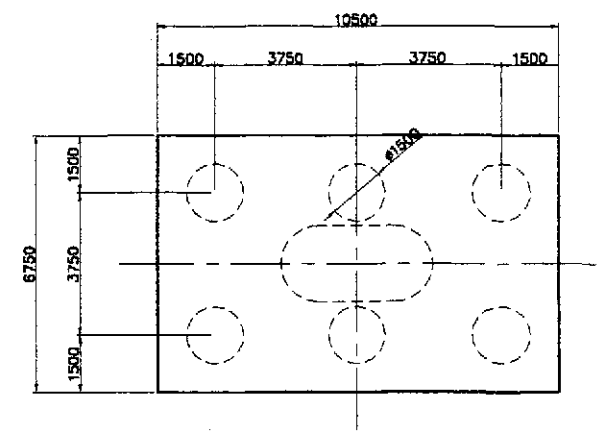
A FRONT ELEVATION
SCALE 1:50



B SIDE ELEVATION
SCALE 1:50



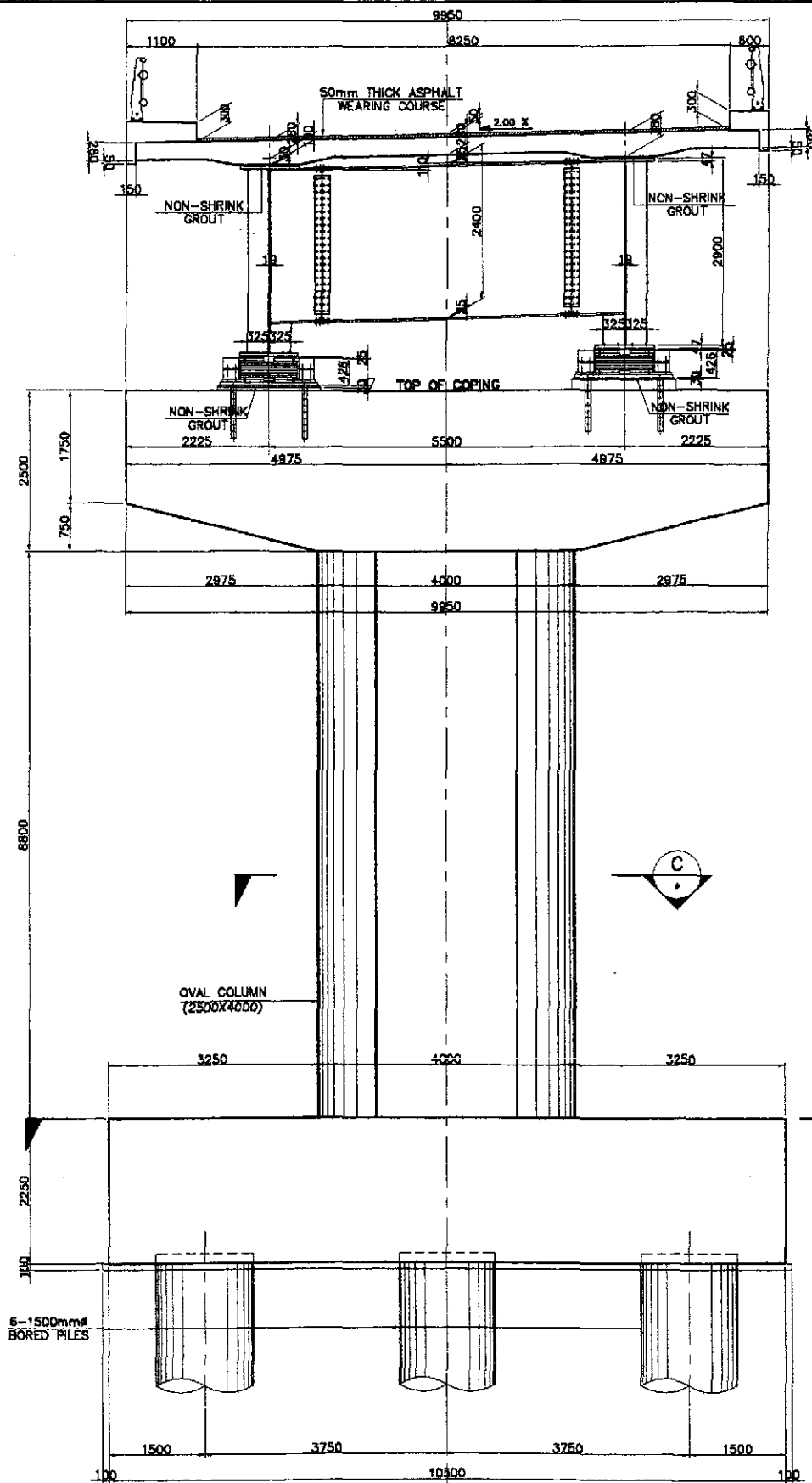
C SECTION
SCALE 1:50



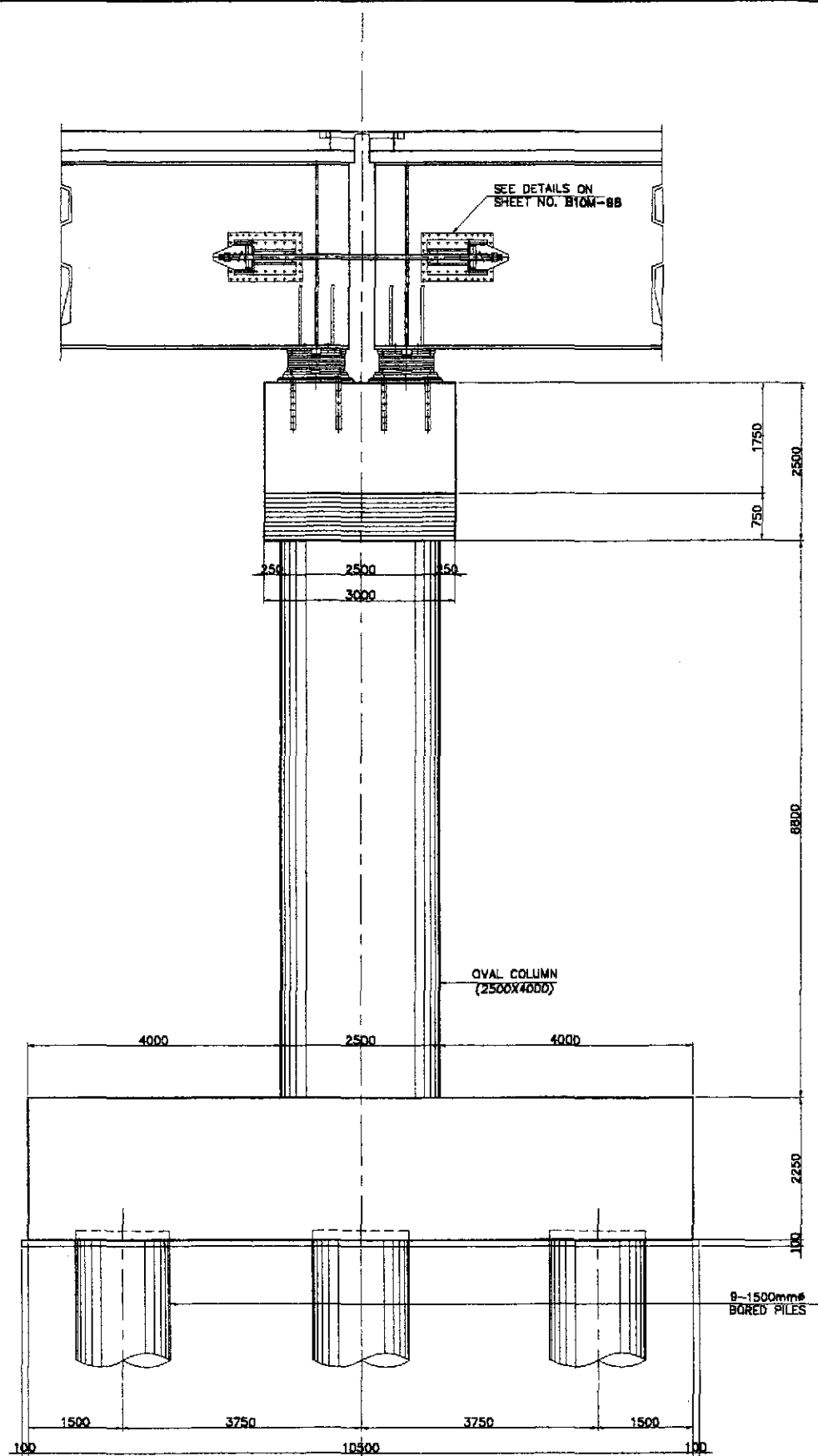
D SECTION
SCALE 1:100

1 PIER LAYOUT AND DIMENSION (PIER 6 AND PIER 15)
SCALE AS SHOWN

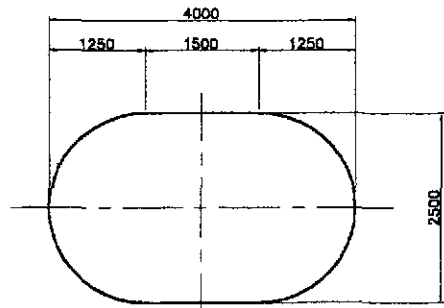
	DESIGNED	DATE	SIGNATURE	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE PIER LAYOUT AND DIMENSIONS (PIER 6 & PIER 15) (ULTIMATE STAGE)	SHEET NO. : B10M-51
	CHECKED	10/17/02	J. C. SANTOS	BUREAU OF DESIGN Submitted By: DANILLO C. TRAJANO (Project Director) Reviewed By: ADRIANO M. DOROS (Chief, Bridge Division) Recommended By: GILBERTO S. REYES (Director IV (OC)) Office of the Secretary Recommended By: MANUEL M. BONDAN (Undersecretary) Approved By: SIMEON A. DATUMANONG (Secretary)							
	SUBMITTED	10/19/02	M. R. RUI								



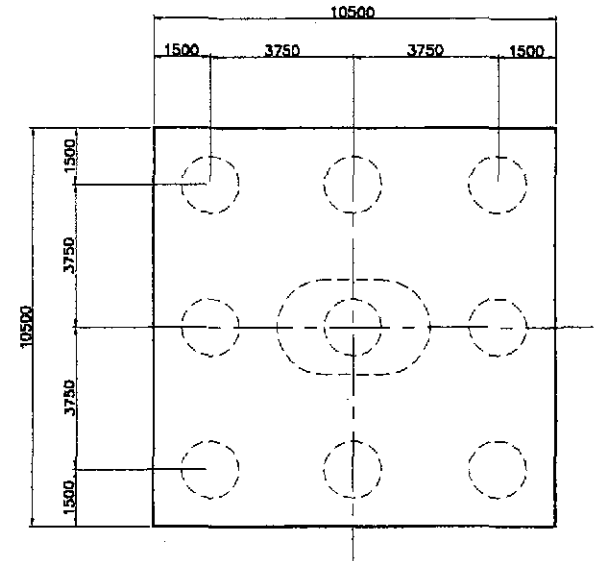
A FRONT ELEVATION
SCALE 1:50



B SIDE ELEVATION
SCALE 1:50



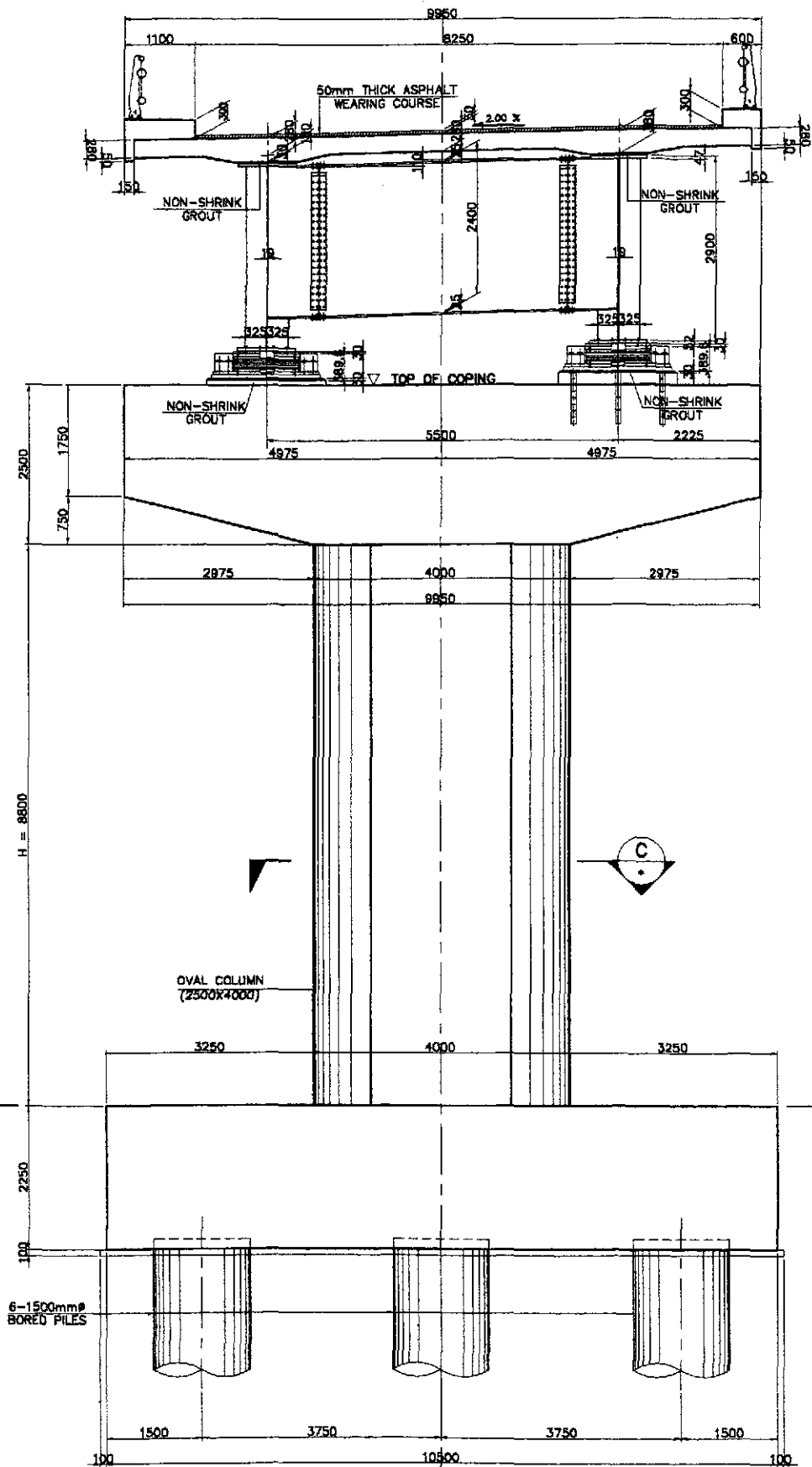
C SECTION
SCALE 1:50



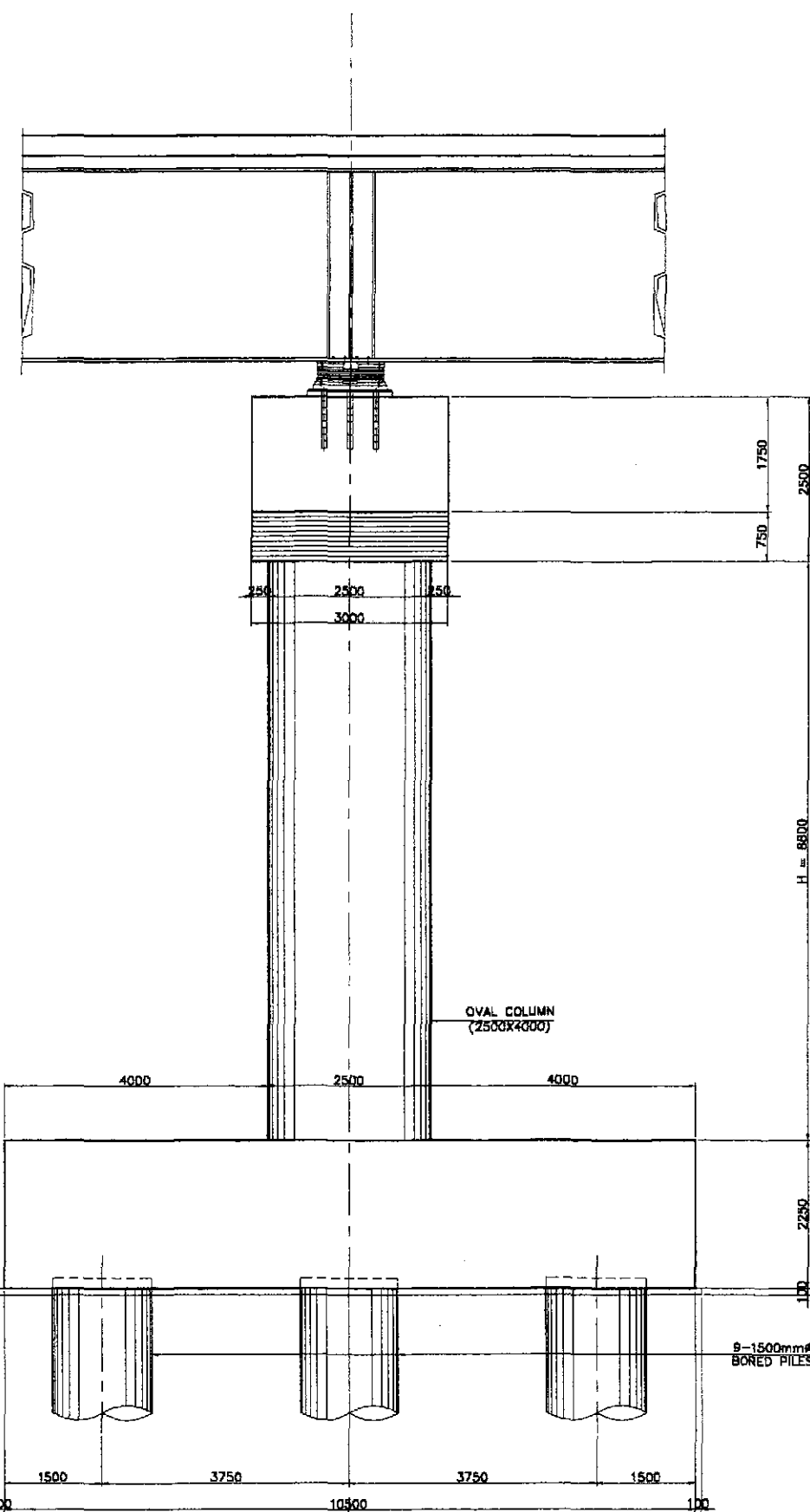
D SECTION
SCALE 1:100

1 PIER LAYOUT AND DIMENSION (PIER 11)
SCALE AS SHOWN

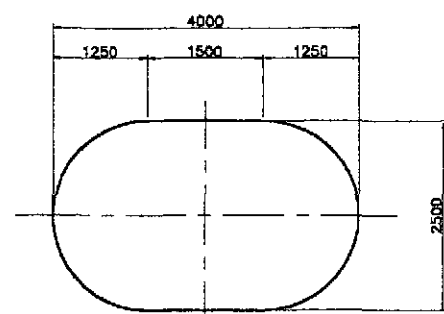
	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES			PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE PIER LAYOUT AND DIMENSION (PIER 11) (ULTIMATE STAGE)	SHEET NO. : B10M-52
	CHECKED	16/11/02	F. W. SALAS		DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS						
	SUBMITTED	10/11/02	J. C. SANTOS	BUREAU OF DESIGN			OFFICE OF THE SECRETARY				
			TEAM LEADER	DANILLO C. TRAJANO Chief, Bridge Division			ADRIANO M. DOROS Chief, Bridge Division	GILBERTO S. REYES Director IV (EC)	MANUEL M. BONGCAN Undersecretary	SIMON A. DATUMANONG Secretary	



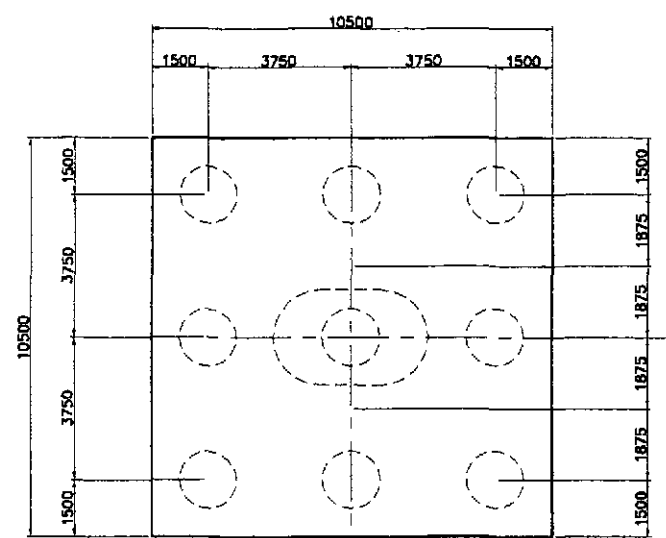
A FRONT ELEVATION
SCALE 1:50



B SIDE ELEVATION
SCALE 1:50



C SECTION
SCALE 1:60

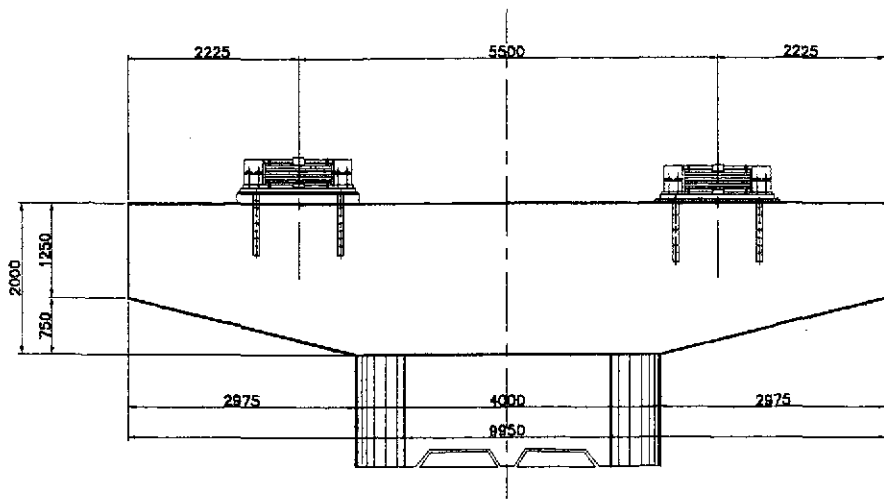


D SECTION
SCALE 1:100

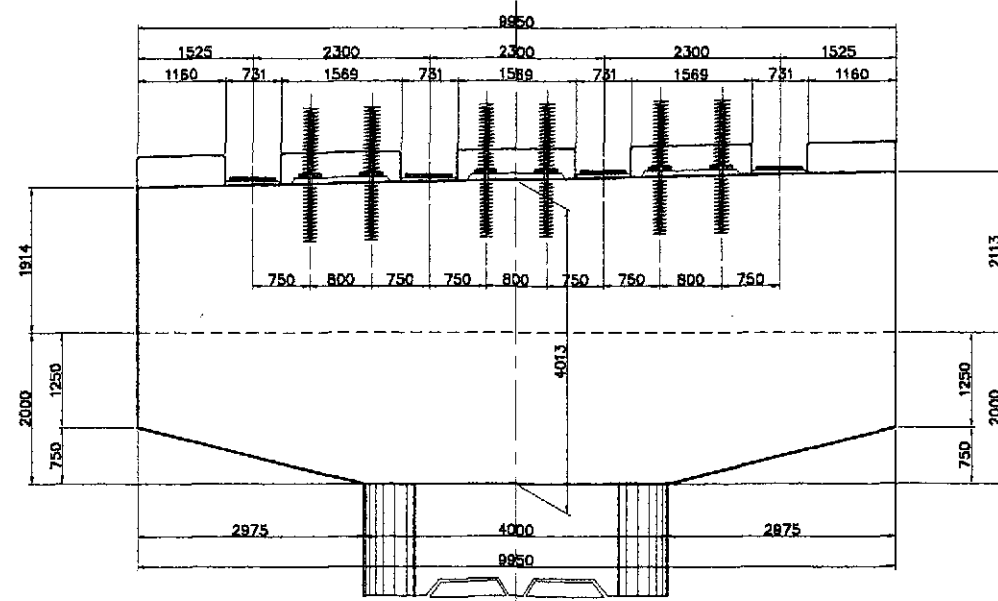
SCHEDULE OF DIMENSIONS	
LOCATION	H
PIER 7	8800
PIER 8	8800
PIER 9	8800
PIER 10	8800
PIER 12	8800
PIER 13	8800
PIER 14	8800

1 PIER LAYOUT AND DIMENSION (PIER 7 to PIER 10 AND PIER 12 to PIER 14)
SCALE AS SHOWN

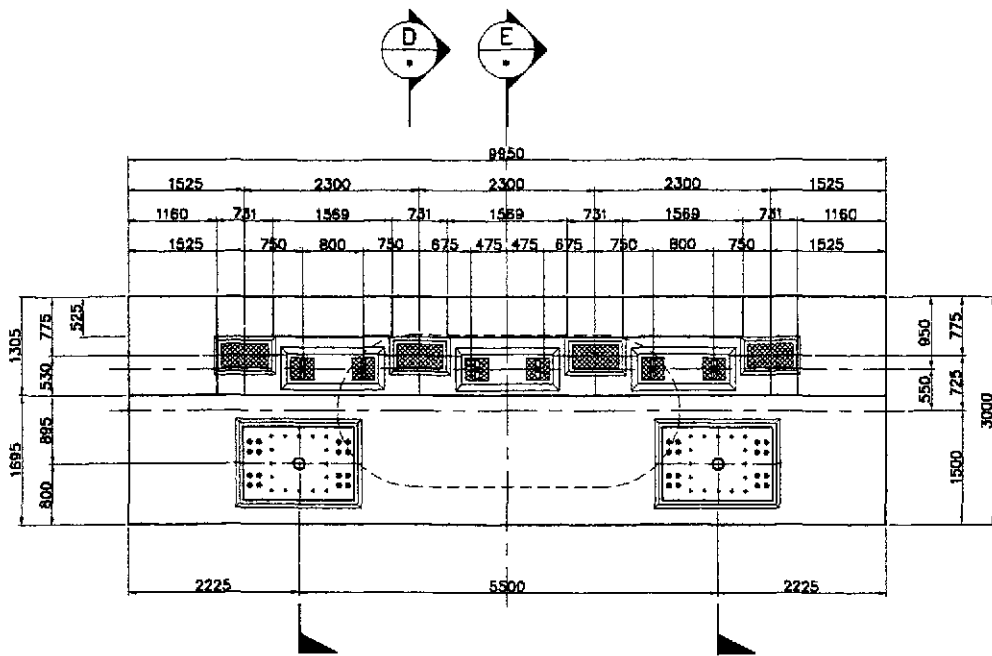
	DATE: 10/16/02 DESIGNED: [Signature] CHECKED: 10/17/02 SUBMITTED: 10/19/02	SIGNATURE: [Signature] F. M. SALAS Submitted By: DANILLO C. TRAJANO Project Director	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BUREAU OF DESIGN Reviewed By: ADRIANO M. DORDY Chief, Bridge Division	OFFICE OF THE SECRETARY Recommended By: GILBERTO S. REYES Director IV (D/C) Recommended By: MANUEL M. BONOAN Undersecretary	Approved By: SIMEON A. DATUMANONG Secretary	PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE PIER LAYOUT AND DIMENSIONS (P7 to P10 & P12 to P14) (ULTIMATE STAGE)	SHEET NO. : B10M-53
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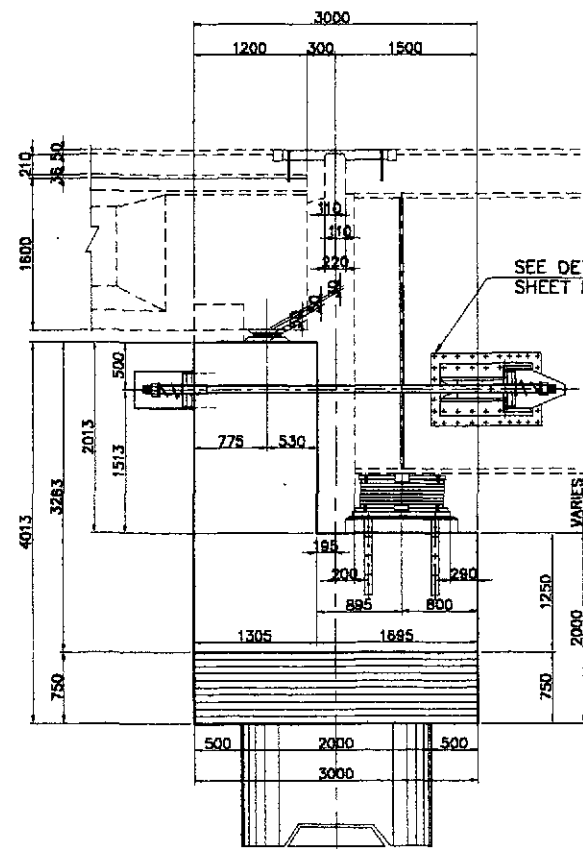
B ELEVATION @ PLATE GIRDER SIDE
SCALE 1:50



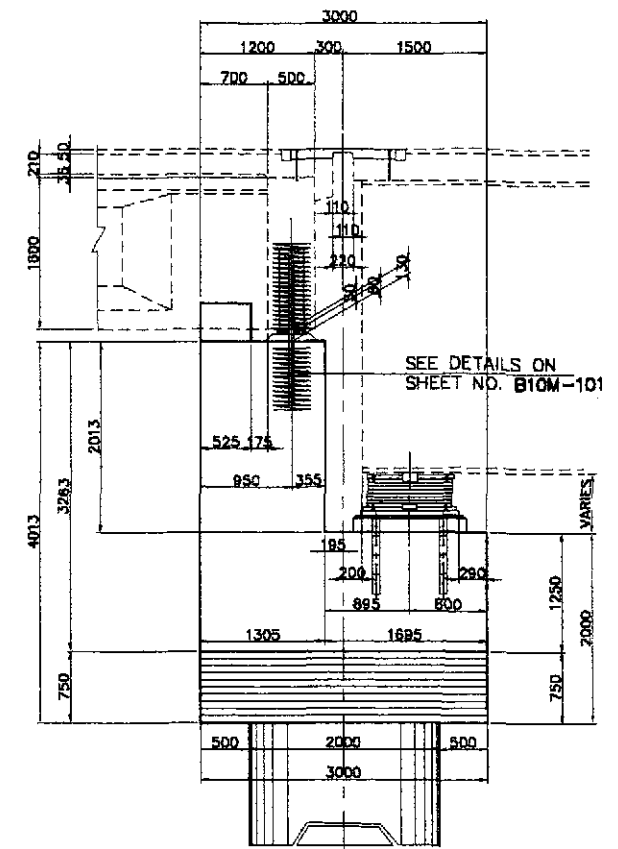
C ELEVATION @ AASHTO GIRDER SIDE
SCALE 1:50



A COPING PLAN
SCALE 1:50



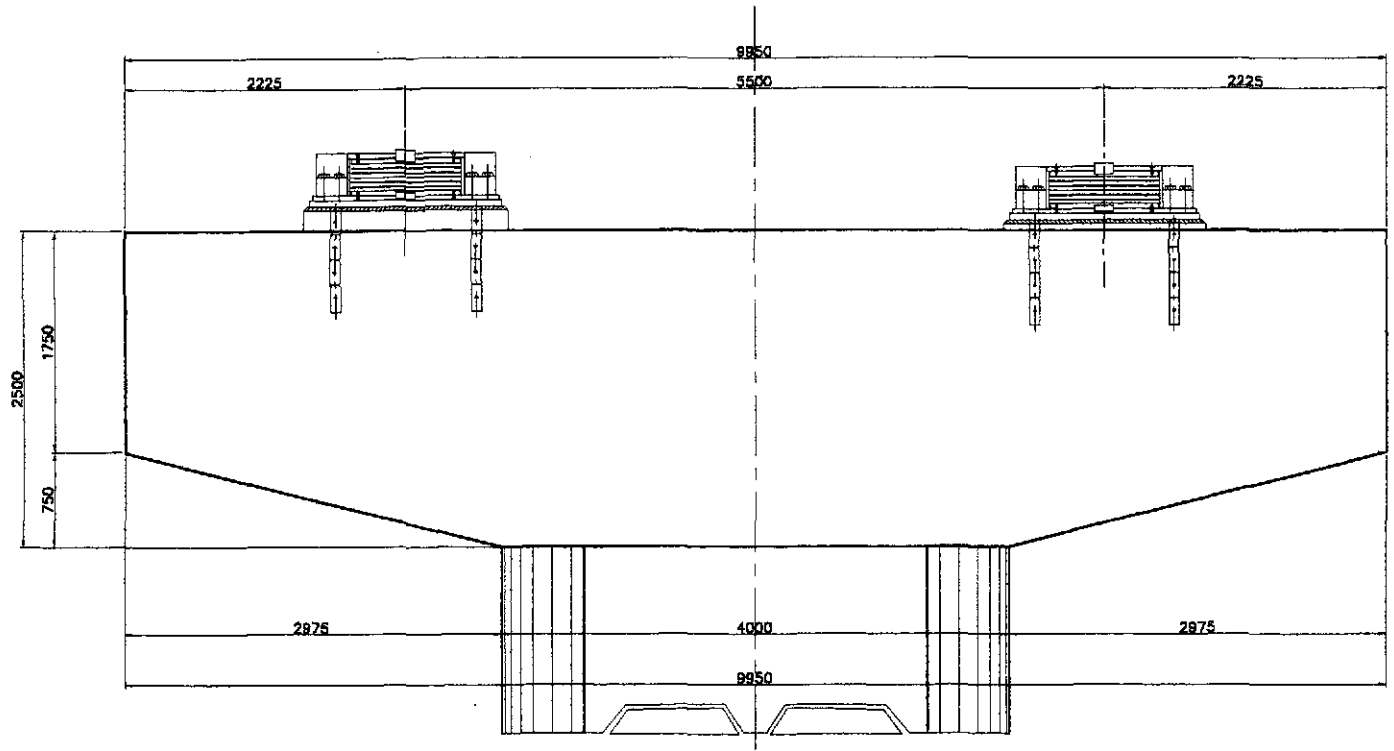
D SECTION
SCALE 1:40



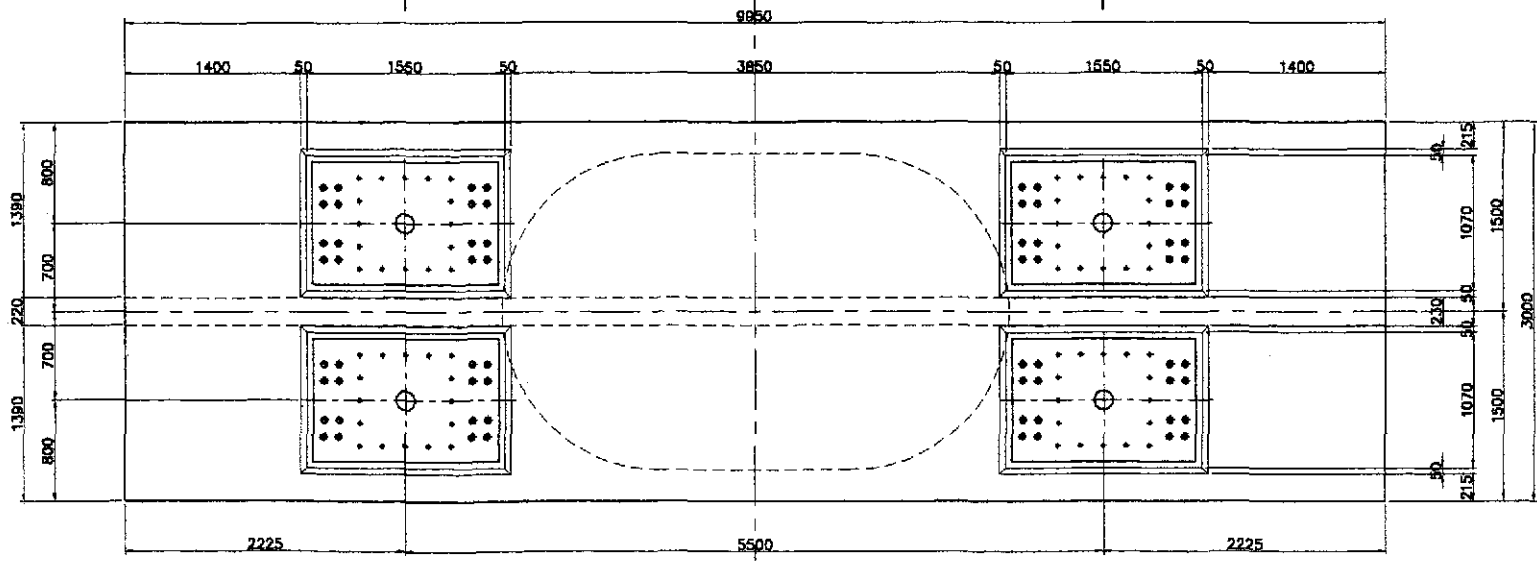
E SECTION
SCALE 1:40

1 COPING LAYOUT AND DIMENSIONS (PIER 6 & PIER 15)
SCALE AS SHOWN

	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE COPING LAYOUT AND DIMENSIONS (PIER 6 & PIER 15) (ULTIMATE STAGE)	SHEET NO. : B10M-54
	CHECKED	10/17/02	J. SANTOS		BUREAU OF DESIGN Submitted By: DANILLO C. TRAJANO Project Director	Reviewed By: ADRIANO M. DORIO Chief, Bridges Division	Recommended By: GILBERTO S. REYES Director IV (B/C)				

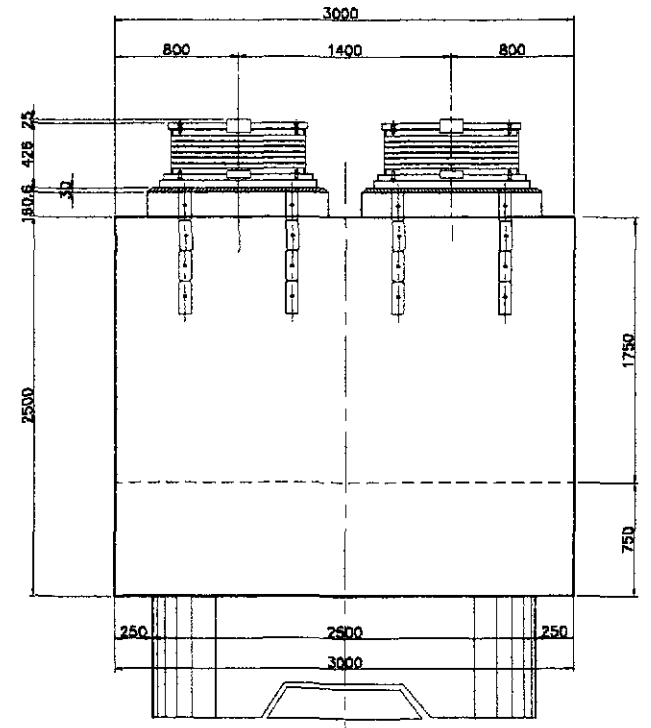


B ELEVATION
SCALE 1:30

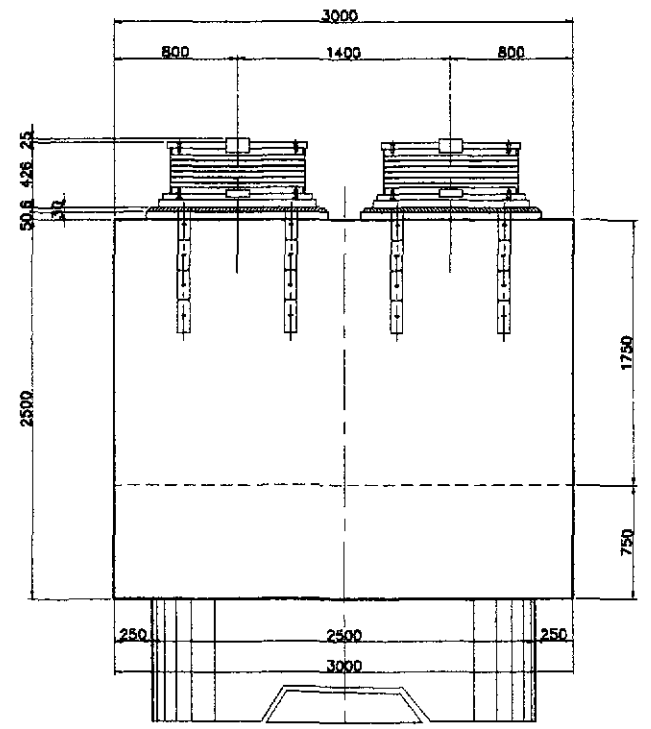


A COPING PLAN
SCALE 1:30

1 COPING LAYOUT AND DIMENSIONS (PIER 11)
SCALE AS SHOWN

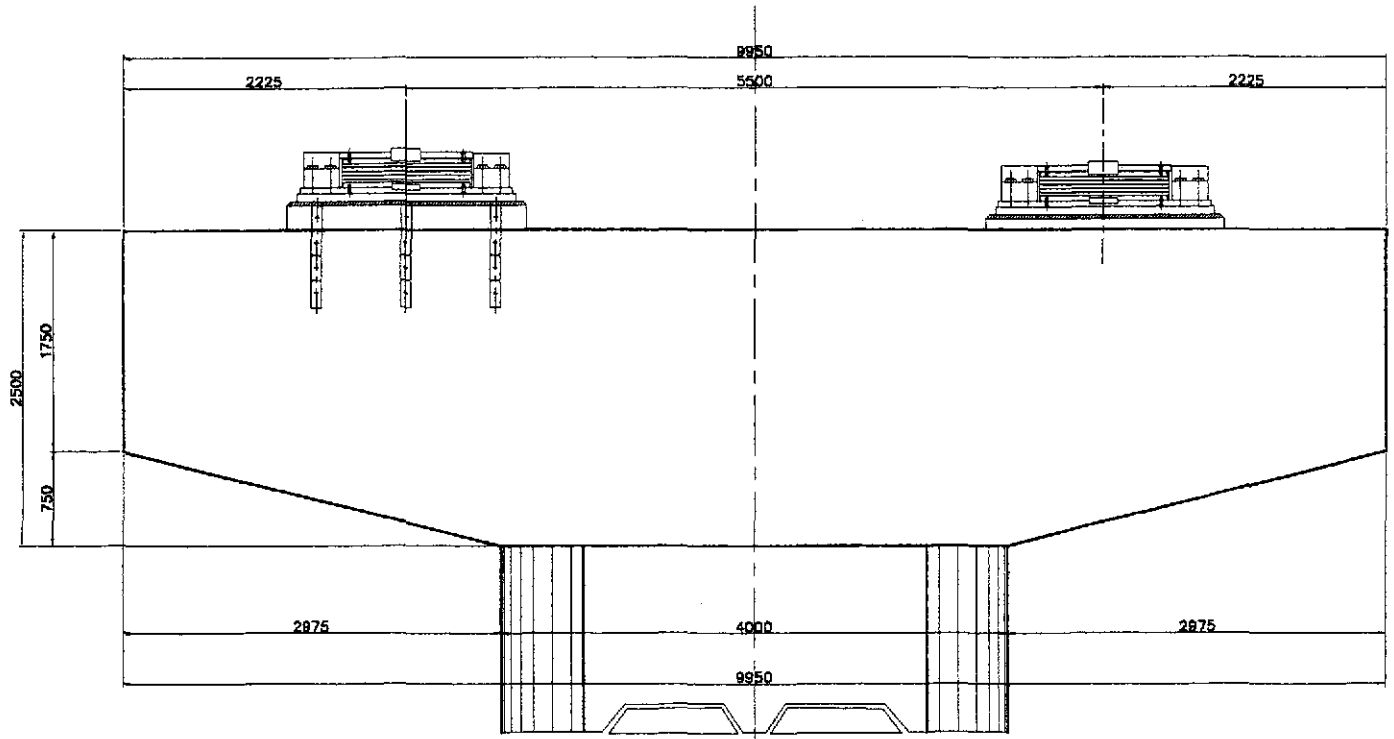


C SECTION
SCALE 1:25

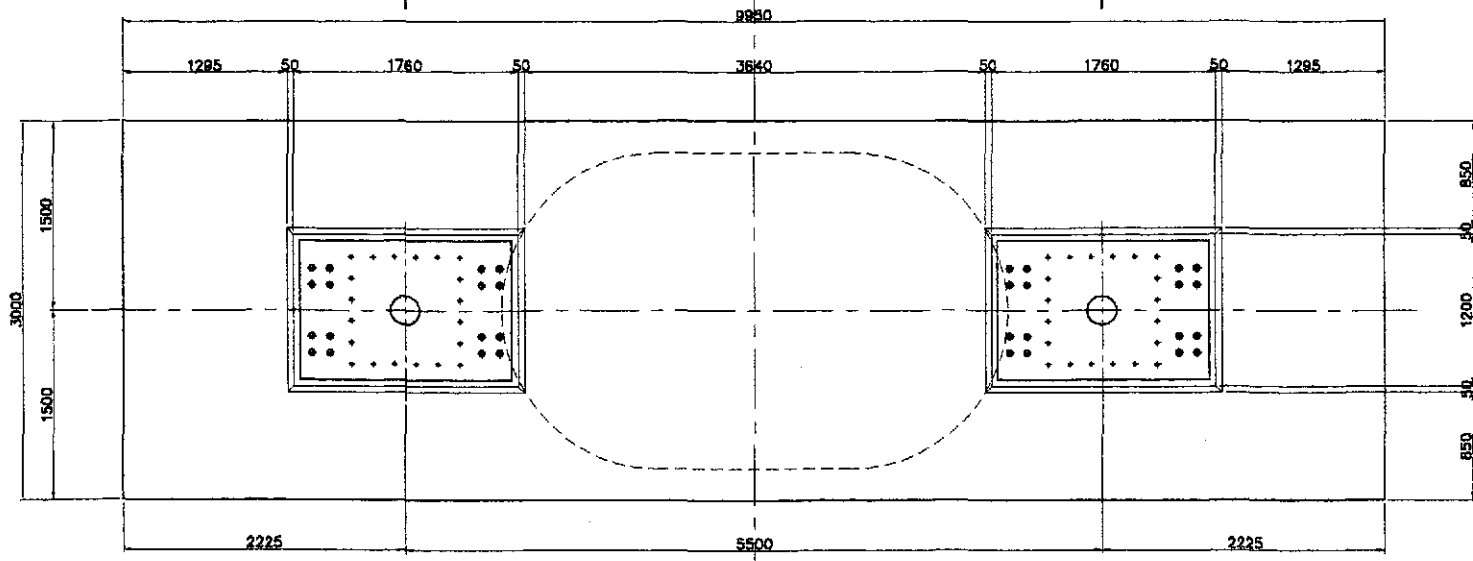


D SECTION
SCALE 1:25

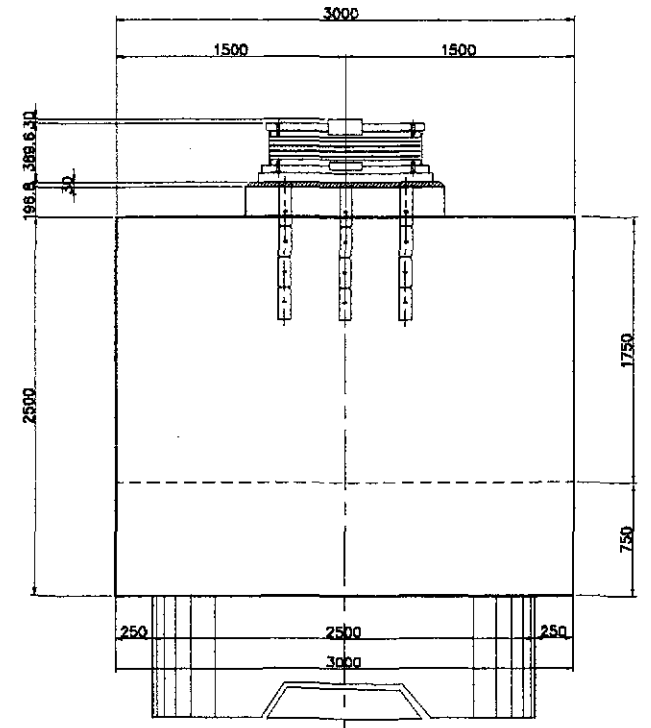
	DESIGNED	DATE	SIGNATURE	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	10/17/02	F. M. BALAS	PUHL - PMO Submitted By:	BUREAU OF DESIGN Reviewed By:	OFFICE OF THE SECRETARY Recommended By:	THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses)	AS SHOWN	BRIDGE NO. 10 PAMPANGA RIVER BRIDGE COPING LAYOUT AND DIMENSIONS (PIER 11) (ULTIMATE STAGE)	B10M-55
SUBMITTED	10/19/02	J. C. SANTOS	DANILLO C. TRAJANO Project Director	ADRIANO M. DOROY Chief, Bridge Division	GILBERTO S. REYES Director IV (D/C)	MANUEL M. BONDAN Undersecretary	CABANATUAN BYPASS - CONTRACT PACKAGE III	FULL SIZE A1		



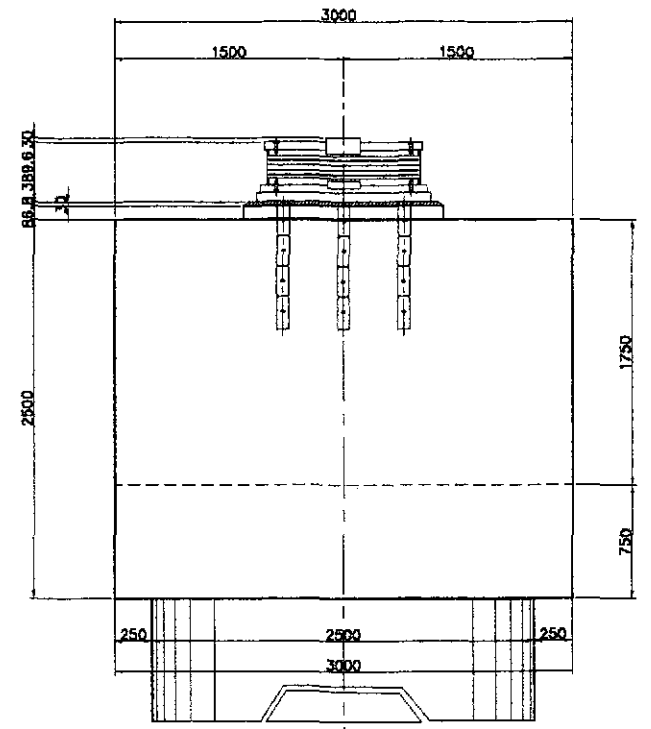
B ELEVATION
SCALE 1:30



A COPING PLAN
SCALE 1:30



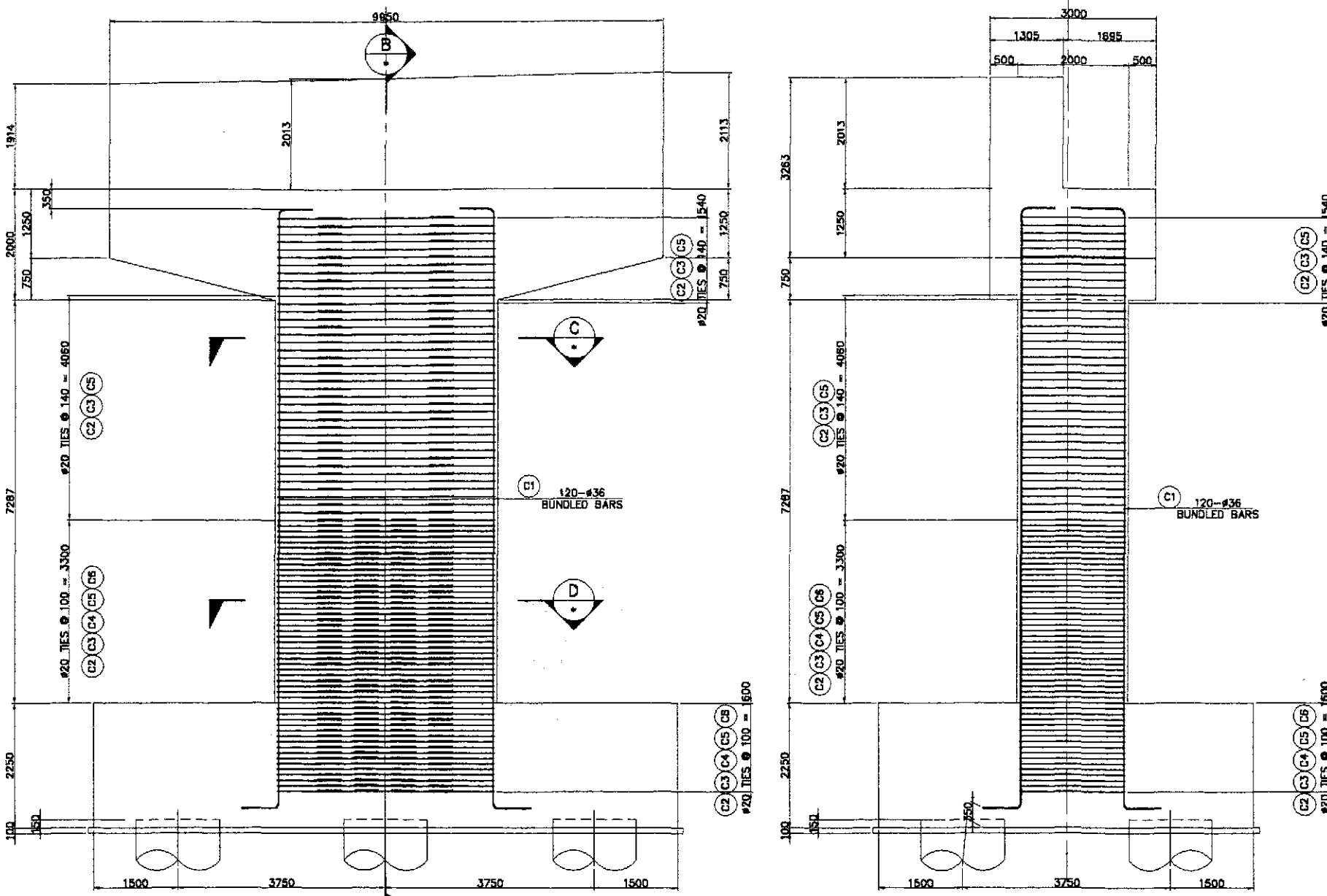
C SECTION
SCALE 1:25



D SECTION
SCALE 1:25

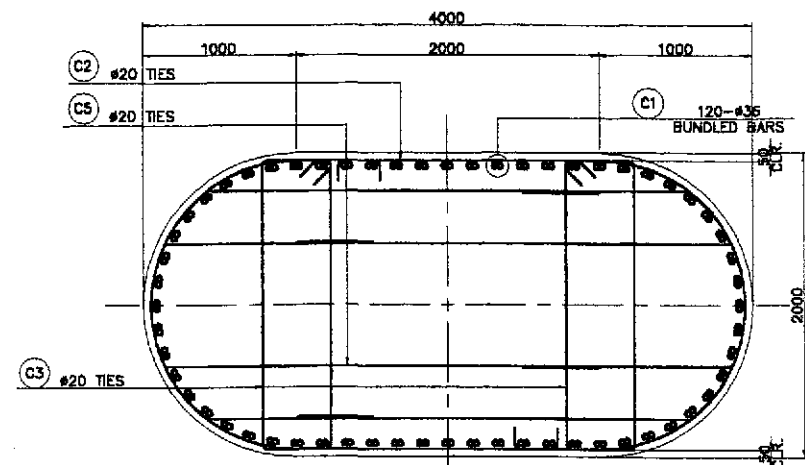
1 COPING LAYOUT AND DIMENSIONS (FIXED PIERS)
SCALE AS SHOWN

	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS					PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pirafel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE COPING LAYOUT AND DIMENSIONS (P7 to P10 & P12 to P14) (ULTIMATE STAGE)	SHEET NO. : B10M-56
	CHECKED	10/17/01	F. M. SALAS		Submitted By: DANILLO C. TRAJANO Project Director	Reviewed By: ADRIANO M. DOROY Chief, Bridge Division	Recommended By: GILBERTO S. REYES Director IV (GIC)	Recommended By: MANUEL M. BONDAN Undersecretary	Approved By: SIMEON A. DATUMANONG Secretary				
	SUBMITTED	10/19/01	 TEAM LEADER										

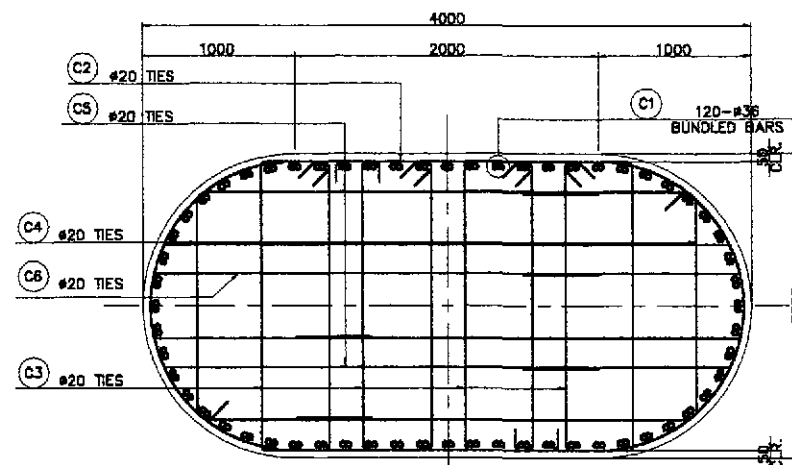


A ELEVATION
SCALE 1:50

B SECTION
SCALE 1:50

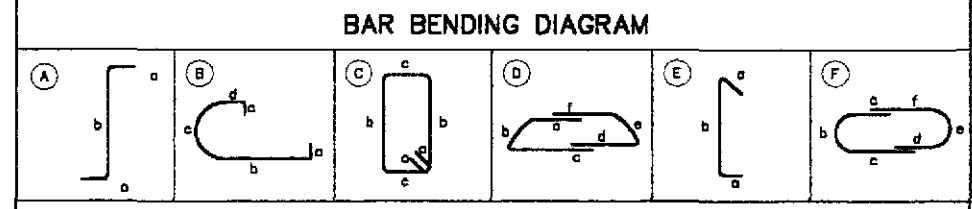


C SECTION
SCALE 1:25



D SECTION
SCALE 1:25

1 COLUMN REINFORCEMENT DETAILS (PIER 6 & PIER 15-EXP. PIERS)
SCALE AS SHOWN



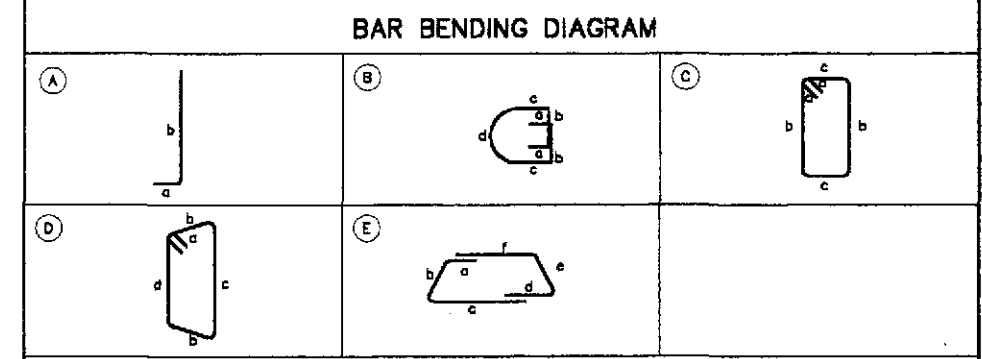
SCHEDULE OF REINFORCEMENT

LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION(mm) OUT TO OUT						LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (kg)	GRADE 60
				a	b	c	d	e	f					
PIER 6 & P15	C1	36	A	625	10750					12000	120	7.991	11507.04	
	C2	20	B	400	1850	3000	425			6075	186	2.466	2786.46	
	C3	20	C	260	1900	450				5220	372	2.466	4788.60	
	C4	20	E	260	1600	480				4380	102	2.466	1101.71	
	C5	20	F	1500	630	2900	1500	630	2900	10060	186	2.466	4614.28	
	C6	20	D	2800	400	1200	2800	400	1200	8800	51	2.466	1106.74	
TOTAL WEIGHT PER PIER =											25,904.83	Kgs.		
TOTAL WEIGHT FOR (2) PIERS =											51,809.66	Kgs.		

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

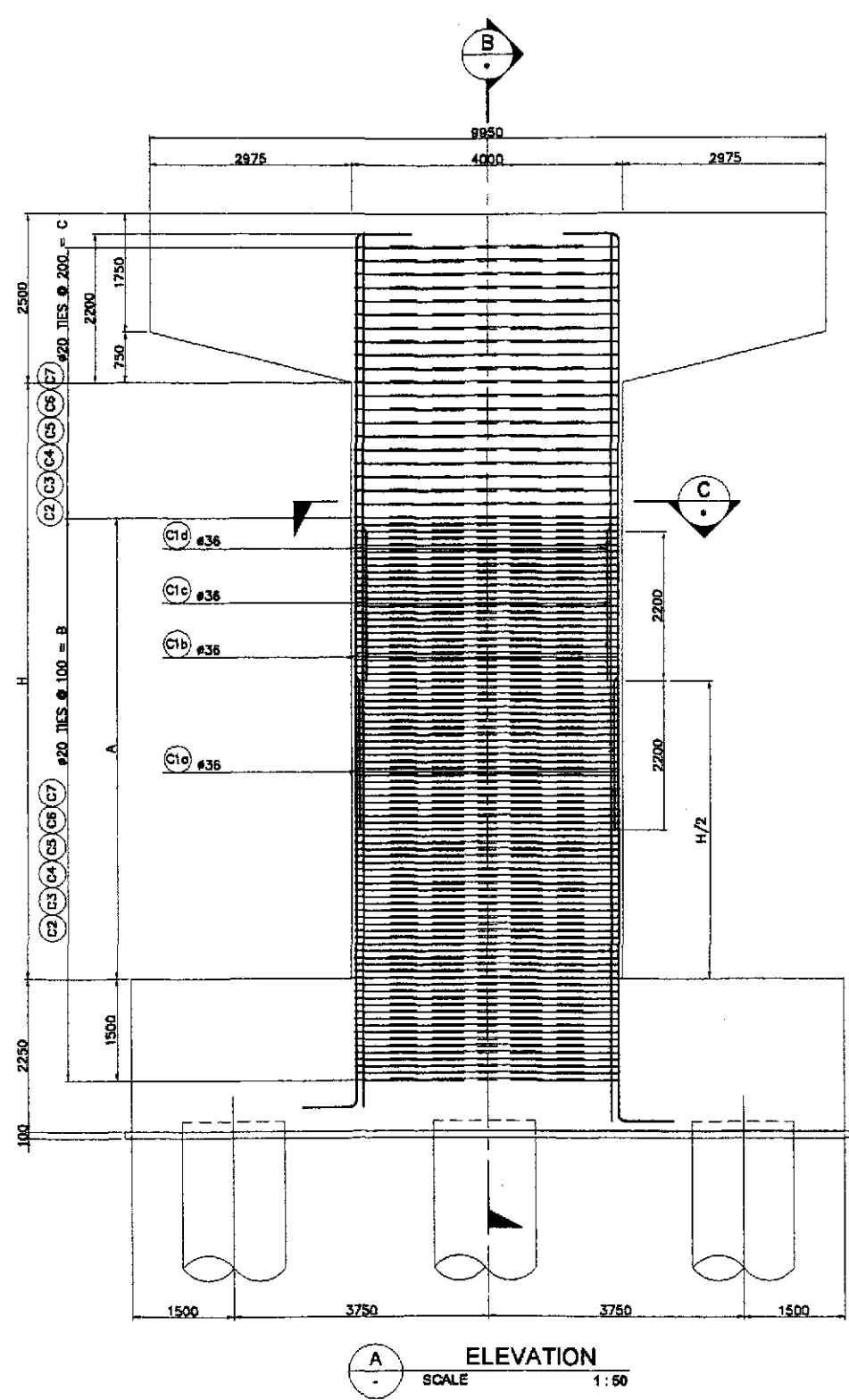
	DESIGNED	DATE	SIGNATURE	<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>	PROJECT AND LOCATION :			SCALE :	SHEET CONTENTS :	SHEET NO. :			
	CHECKED	10/17/02	J. M. SANTOS		THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)			AS SHOWN	BRIDGE NO. 10 PAMPANGA RIVER BRIDGE COLUMN REINFORCEMENT DETAILS (PIER 6 & PIER 15) (ULTIMATE STAGE)	B10M-57			
	SUBMITTED	10/19/02	TEAM LEADER		CABANATUAN BYPASS - CONTRACT PACKAGE III			FULL SIZE A1					
DANILLO C. TRAJANO Project Director				ADRIANO M. DOROY Chief, Bridge Division			GILBERTO S. REYES Director IV (OC)			MANUEL M. BONDAN Undersecretary		SIMON A. DATUMANONG Secretary	

SCHEDULE OF DIMENSIONS				
PIER	H (mm)	A (mm)	B (mm)	C (mm)
PIER 7	8800	6800	8300	4000
PIER 8	8800	8800	8300	4000
PIER 9	8800	8800	8300	4000
PIER 10	8800	6800	8300	4000
PIER 11	8800	6800	8300	4000
PIER 12	8800	6800	8300	4000
PIER 13	8800	6800	8300	4000
PIER 14	8800	6800	8300	4000

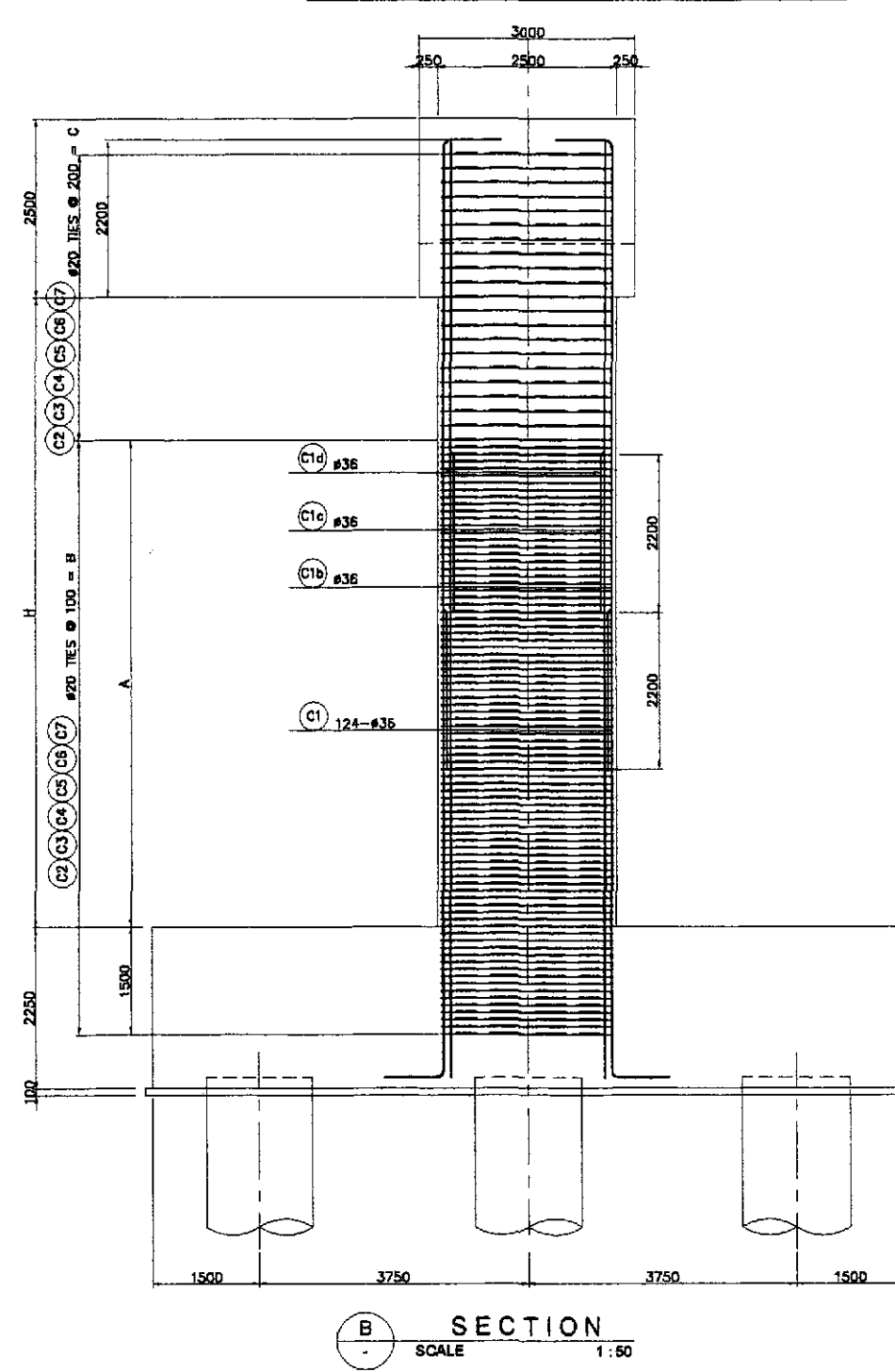


SCHEDULE OF REINFORCEMENT													
LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION (mm) OUT TO OUT						LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (kg)
				a	b	c	d	e	f				
PIER 7, 8, 9, 10, 12, 13, 14	C1a	36	A	700	5300					7000	62	7.990	3,468
	C1b	36	A	700	8800					9500	62	7.990	4,707
	C1c	36	A	700	8500					9200	62	7.990	4,558
	C1d	36	A	700	8600					7300	62	7.990	3,617
	C2	20	B	350	2000	400	3700			9200	208	2.466	4,719
	C3	20	C	280	2350	300				5820	208	2.466	1,493
	C4	20	C	260	2350	1650	2000			8520	208	2.466	2,186
C5	20	D	260	400	2300				5620	208	2.466	2,883	
C6	20	E	1800	450	2500	1800	450	2500	9500	208	2.466	4,873	
C7	20	E	1350	400	2300	1800	450	2000	8050	208	2.466	4,130	
TOTAL WEIGHT (1 PIER) =											36,834	Kgs.	
TOTAL WEIGHT (7 PIERS) =											258,438	Kgs.	
PIER 11	C1a	36	A	700	6300					7000	62	7.990	3,468
	C1b	36	A	700	8800					9500	62	7.990	4,707
	C1c	36	A	700	8500					9200	62	7.990	4,558
	C1d	36	A	700	8600					7300	62	7.990	3,617
	C2	20	B	350	2000	400	3700			9200	208	2.466	4,719
	C3	20	C	280	2350	300				5820	208	2.466	1,493
	C4	20	C	260	2350	1650	2000			8520	208	2.466	2,186
C5	20	D	260	400	2300				5620	208	2.466	2,883	
C6	20	E	1800	450	2500	1800	450	2500	9500	208	2.466	4,873	
C7	20	E	1350	400	2300	1800	450	2000	8050	208	2.466	4,130	
TOTAL WEIGHT (1 PIER) =											36,834	Kgs.	

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

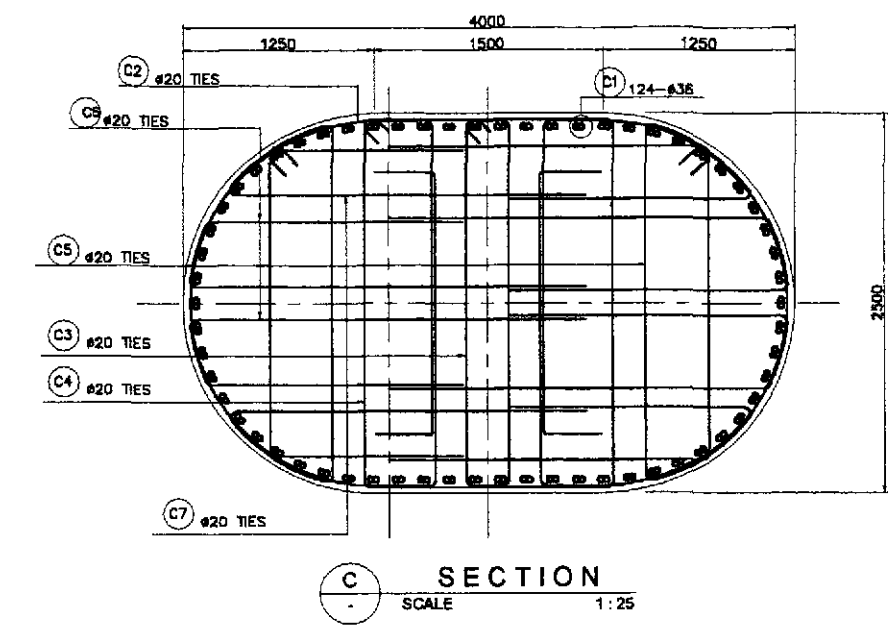


A ELEVATION
SCALE 1:50



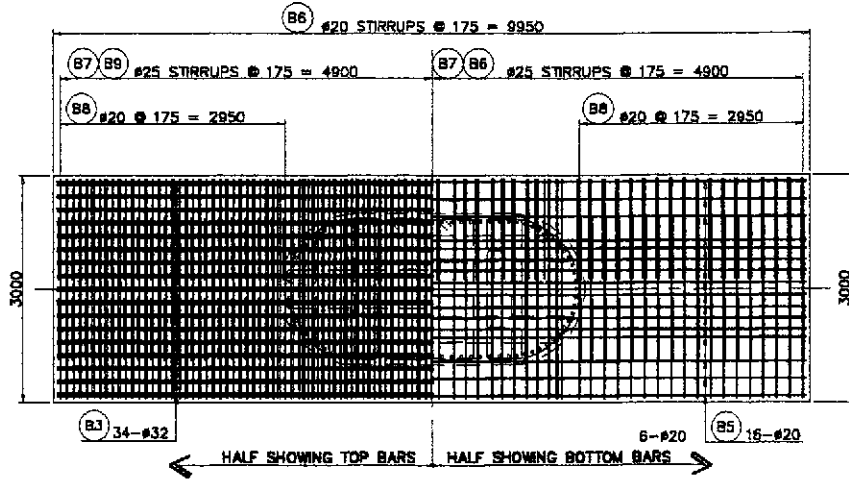
B SECTION
SCALE 1:50

1 COLUMN REINFORCEMENT DETAILS (PIER 7 TO PIER 14)
SCALE AS SHOWN

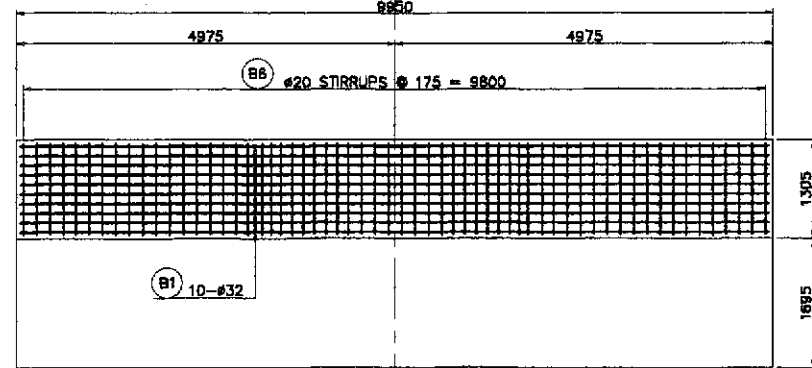


C SECTION
SCALE 1:25

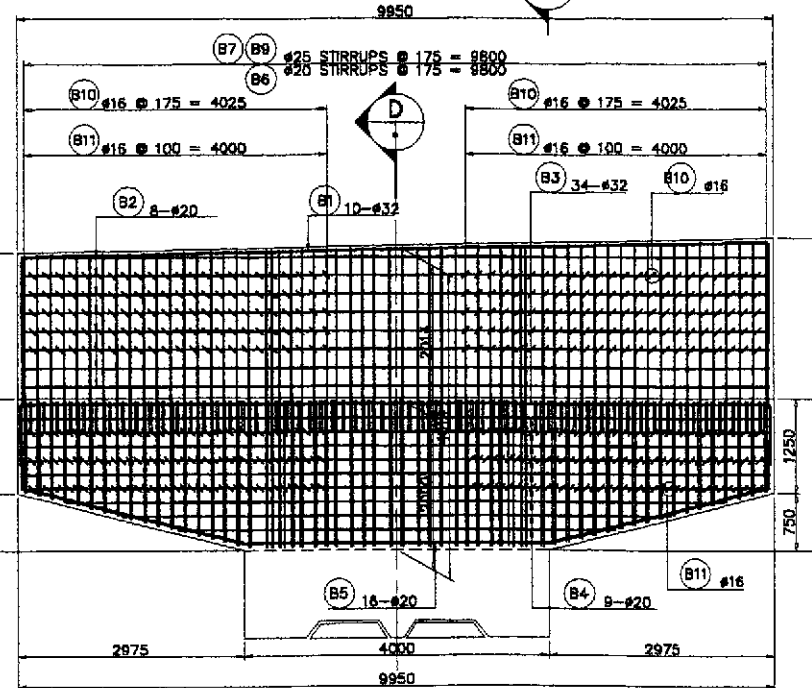
	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE COLUMN REINFORCEMENT DETAILS (PIER 7 to PIER 14) (ULTIMATE STAGE)	SHEET NO. : B10M-58
	CHECKED	10/17/07	J. C. SANTOS		BUREAU OF DESIGN Submitted By: DANIL C. TRAJANO Project Director	OFFICE OF THE SECRETARY Recommended By: ADRIANO M. DORAY Chief, Bridges Division	Approved By: GILBERTO S. REYES Director IV (DC)				



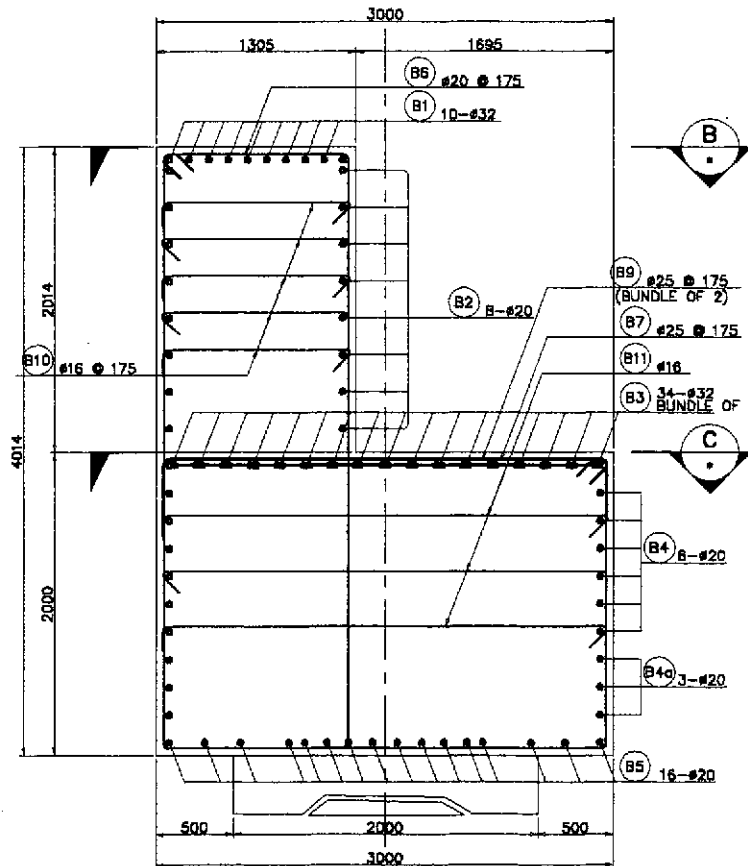
C PLAN
SCALE 1:50



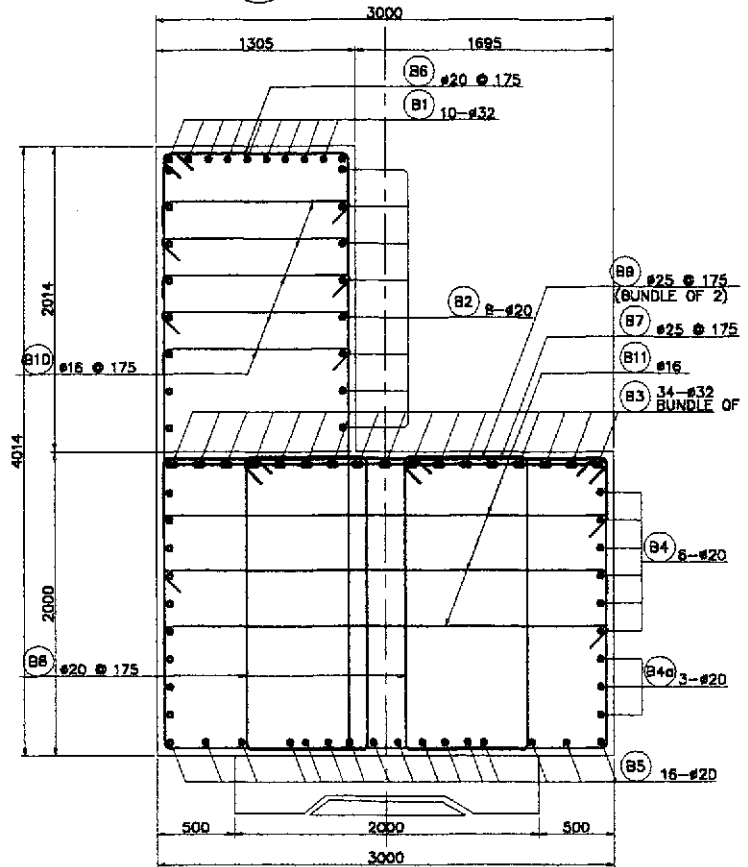
B PLAN
SCALE 1:50



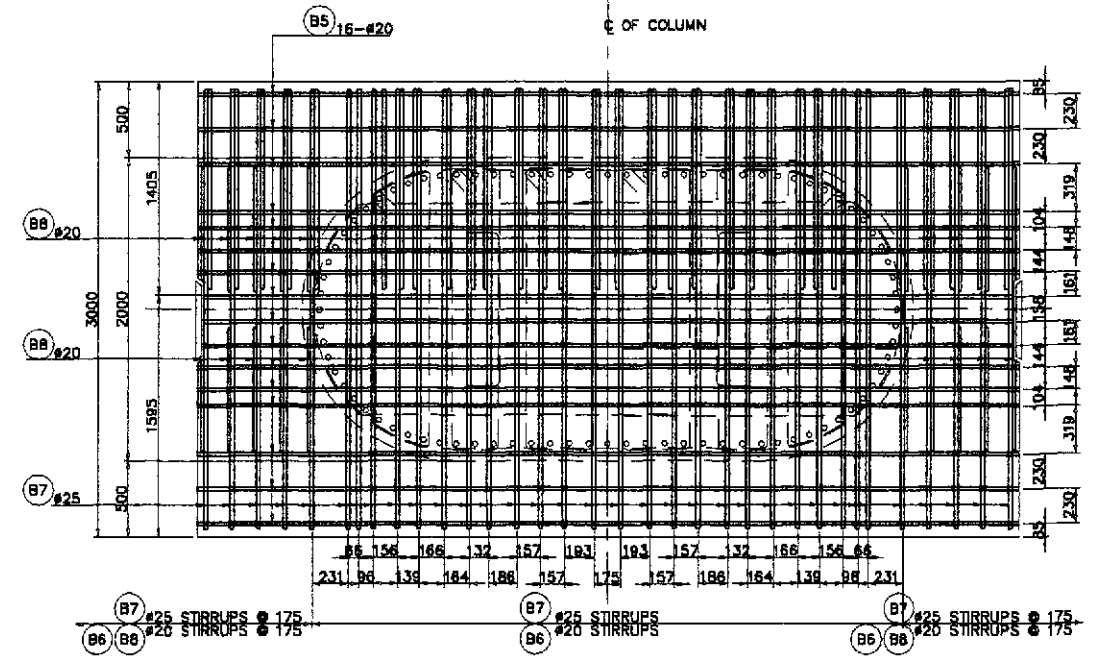
A ELEVATION
SCALE 1:50



D SECTION
SCALE 1:25



E SECTION
SCALE 1:50

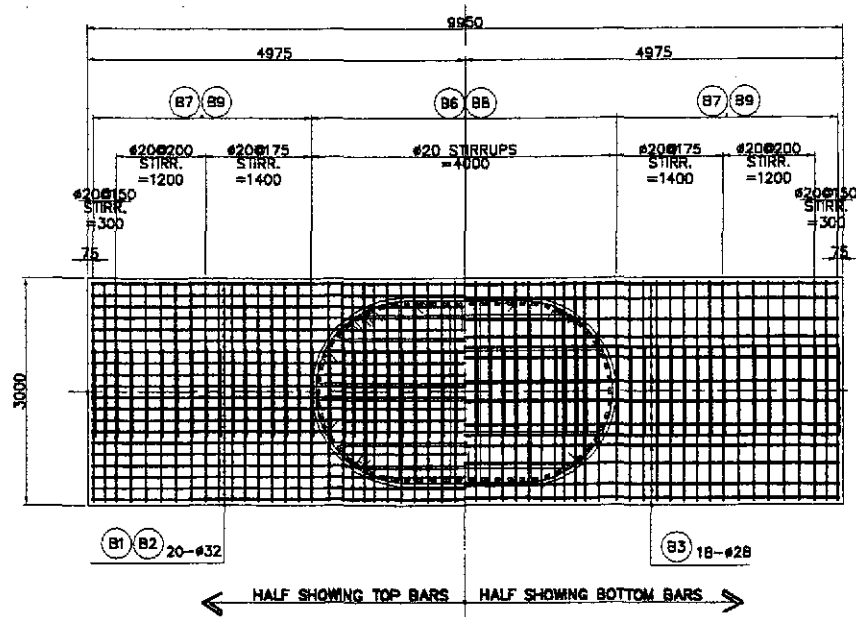


F DETAIL
SCALE 1:25

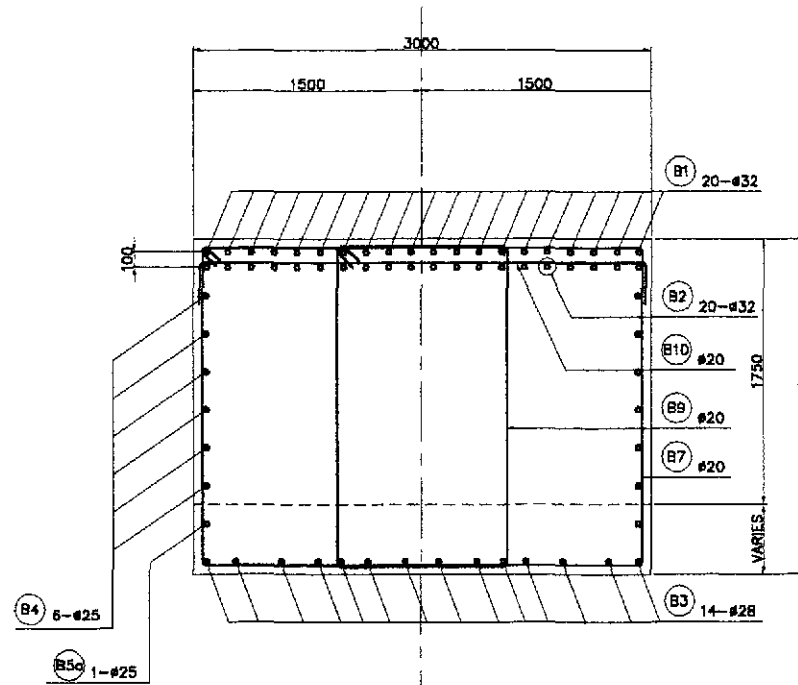
1 COPING REINFORCEMENT DETAILS (PIER 6 & PIER 15)
SCALE AS SHOWN

BAR BENDING DIAGRAM															
A	B	C	D	E											
SCHEDULE OF REINFORCEMENT															
LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION (mm) OUT TO OUT						LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (Kg.) GRADE 60	WEIGHT (Kg.) GRADE 40	
				a	b	c	d	e	f						
PIER 6 & PIER 15 COPING	B1	32	C	1000	9850	1150					12000	10	6.313	757.56	
	B2	20	STR	9830							9830	14	2.466	339.37	
	B3	32	A	1000	9830	1000					11830	34	6.313	2839.21	
	B4	20	STR	9830							9830	12	2.466	290.89	
	B4c	20	STR	7400	(AVE.)						7400	6	2.466	109.49	
	B5	20	B	1000	4470	1000					8470	16	2.466	255.28	
	B6	20	D	200	1320	3750(ave)					10540	57	2.466	1481.52	
	B7	25	D	200	2800	1550(ave)					9300	57	3.854	2043.00	
	B8	20	D	200	1150	1550(ave)					5800	68	2.466	972.60	
	B9	25	A	400	2800						3700	114	3.854	1825.62	
	B10	16	E	200	1150	200					1560	285	1.579		697.52
B11	16	E	200	2900	200					3300	242	1.579		1261.00	
												WEIGHT FOR GRADE 40 =	1,958.52 Kgs.		
												WEIGHT FOR GRADE 60 =	10,414.54 Kgs.		
												TOTAL WEIGHT FOR 2 PIERS :		3,917.04 Kgs.	
												WEIGHT FOR GRADE 40 =		20,828.08 Kgs.	
												WEIGHT FOR GRADE 60 =		20,828.08 Kgs.	
THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.															

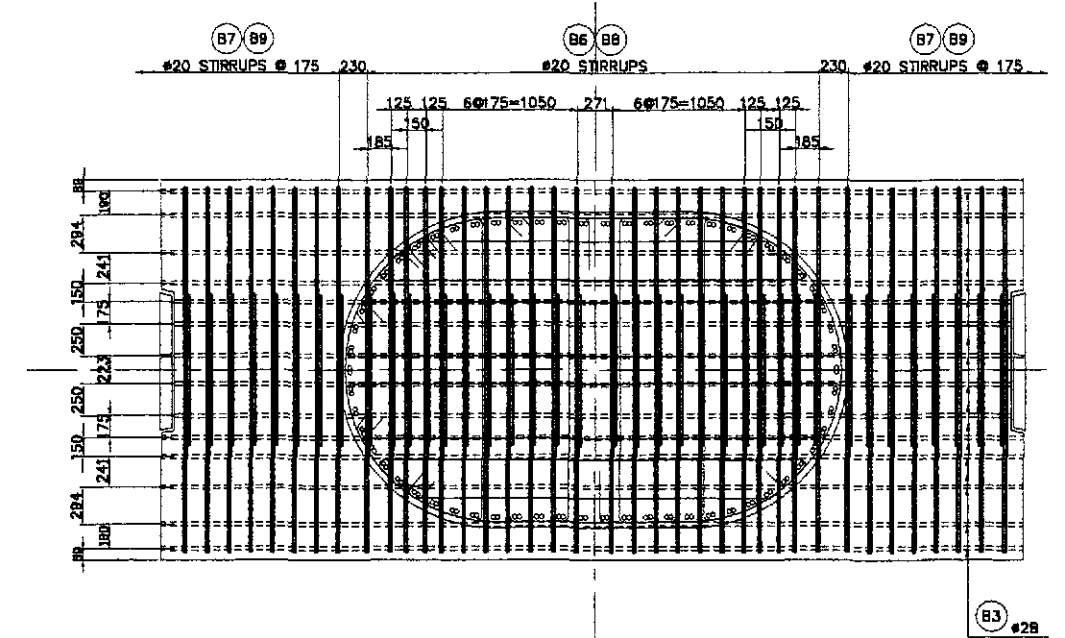
		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses)		SCALE : AS SHOWN	SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE COPING REINFORCEMENT DETAILS (PIER 6 & PIER 15) (ULTIMATE STAGE)	SHEET NO. : B10M-59	
DESIGNED	DATE	SIGNATURE	FUHL - PMO BUREAU OF DESIGN		OFFICE OF THE SECRETARY		CABANATUAN BYPASS - CONTRACT PACKAGE III				
CHECKED	DATE	SIGNATURE	Submitted By:	Reviewed By:	Recommended By:	Approved By:					
SUBMITTED	DATE	SIGNATURE	DANILO C. TRAJANO Project Director	ADRIANO M. DOROS Chief, Bridge Division	GILBERTO S. REYES Director N (CIC)	MANUEL M. BONDAN Undersecretary	SIMEON A. DATUMANONG Secretary				



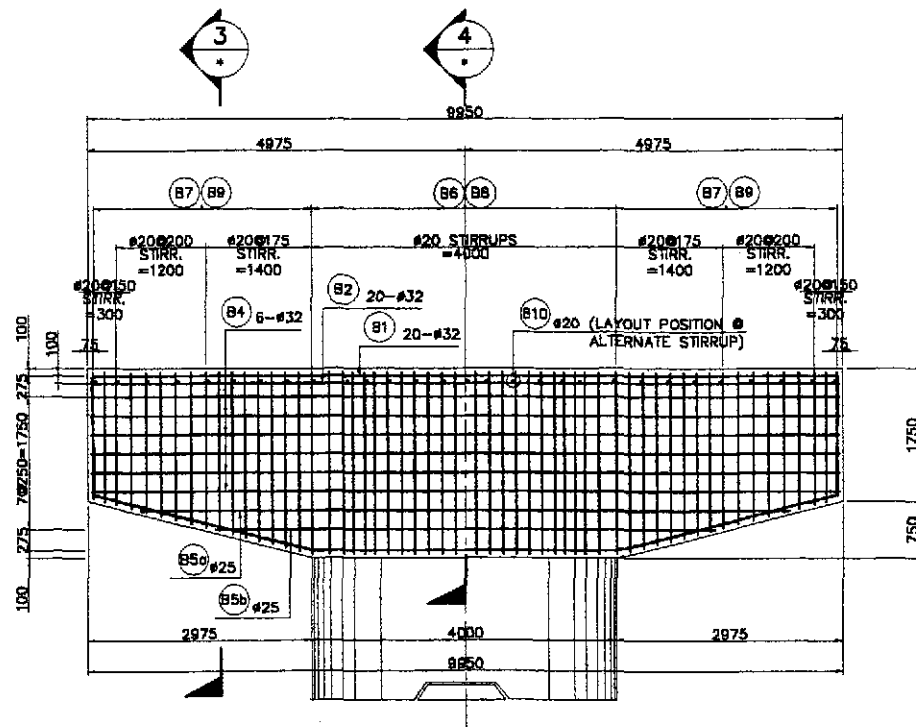
1 PLAN
SCALE 1:50



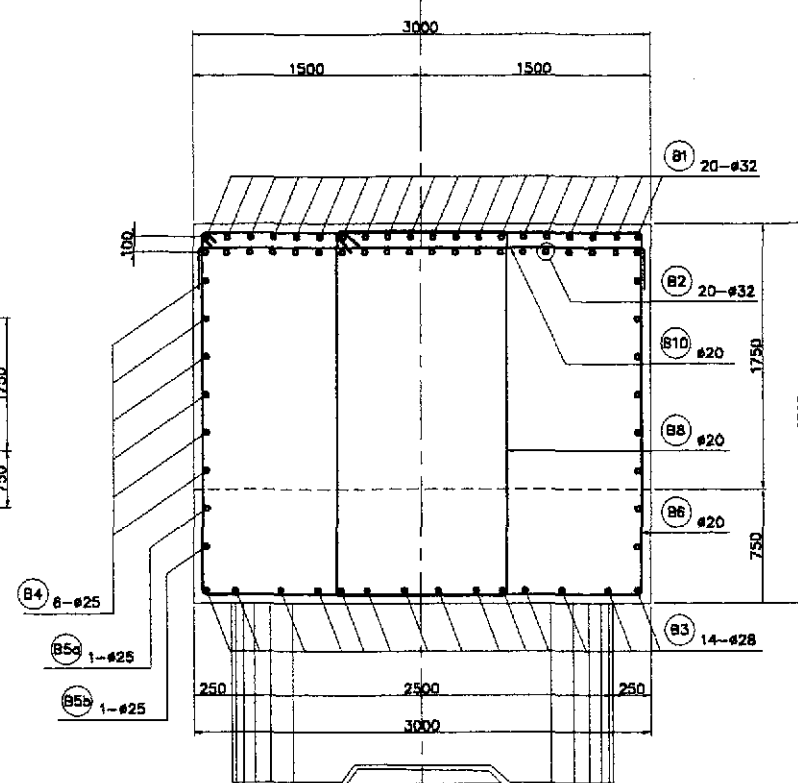
3 SECTION
SCALE 1:25



5 DETAIL
SCALE 1:30



2 ELEVATION
SCALE 1:50



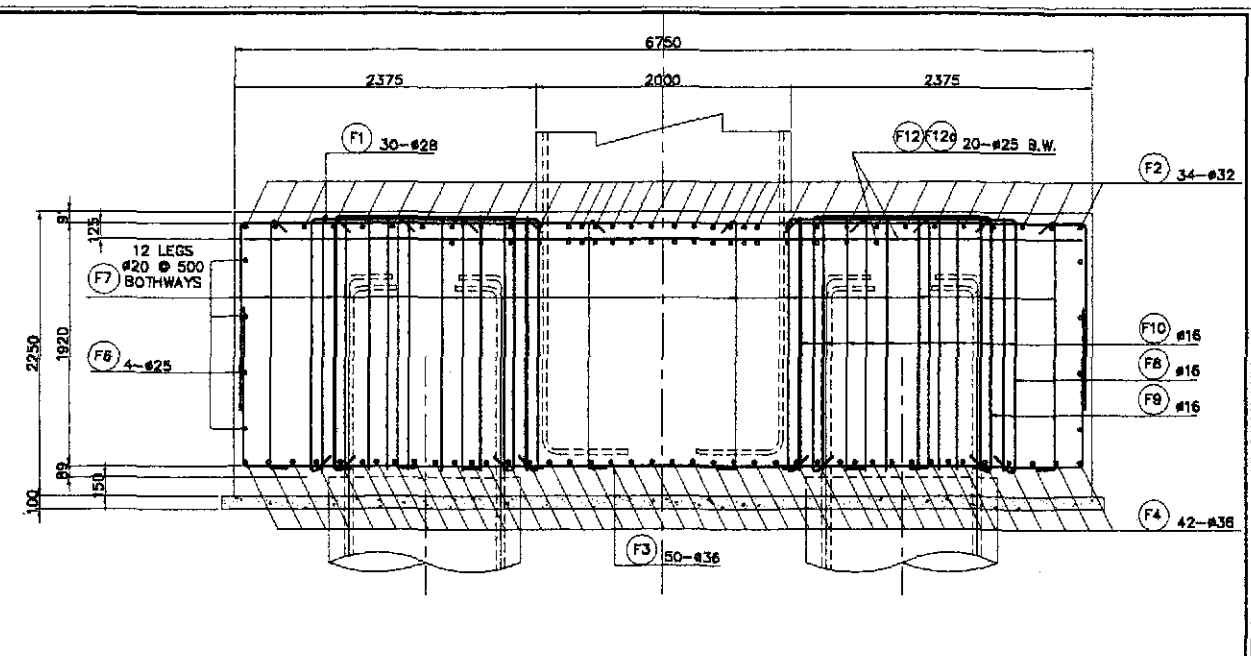
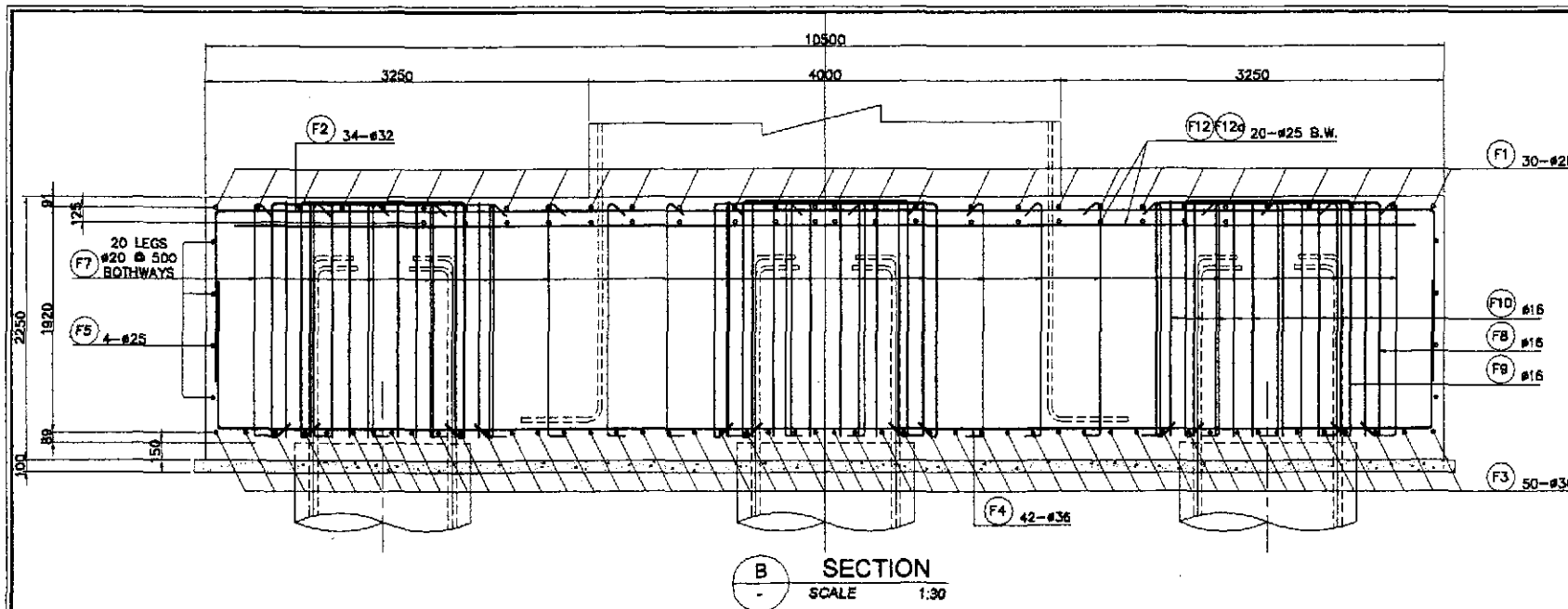
4 SECTION
SCALE 1:25

BAR BENDING DIAGRAM														
A	B	C	D											
SCHEDULE OF REINFORCEMENT														
LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION (mm) OUT TO OUT						LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (Kg/m)	WEIGHT (kg)	REMARKS
				a	b	c	d	e	f					
PIER 7 TO PIER 14 COPING	B1	32	A	600	9800					11000	20	6.314	1,390	Quantities for one (1) coping only.
	B2	32	B	9800						9800	20	6.314	1,238	
	B3	28	C	600	2995	4000				11200	14	4.834	758	
	B4	25	B	9800						9800	12	3.854	454	
	B5a	25	B	8300						8300	2	3.854	64	
	B5b	25	B	6250						6300	2	3.854	49	
	B6	20	D	100	2880	2300				10600	24	2.466	628	
	B7	20	D	100	2880	2300				9850	32	2.466	778	
	B8	20	D	100	1100	2300				7000	24	2.466	415	
	B9	20	D	100	1100	2300				6300	32	2.466	488	
B10	20	A	300	2850					3450	29	2.466	247		
TOTAL WEIGHT (1 PIER) =											6,518			
TOTAL WEIGHT (8 PIERS) =											52,152			

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

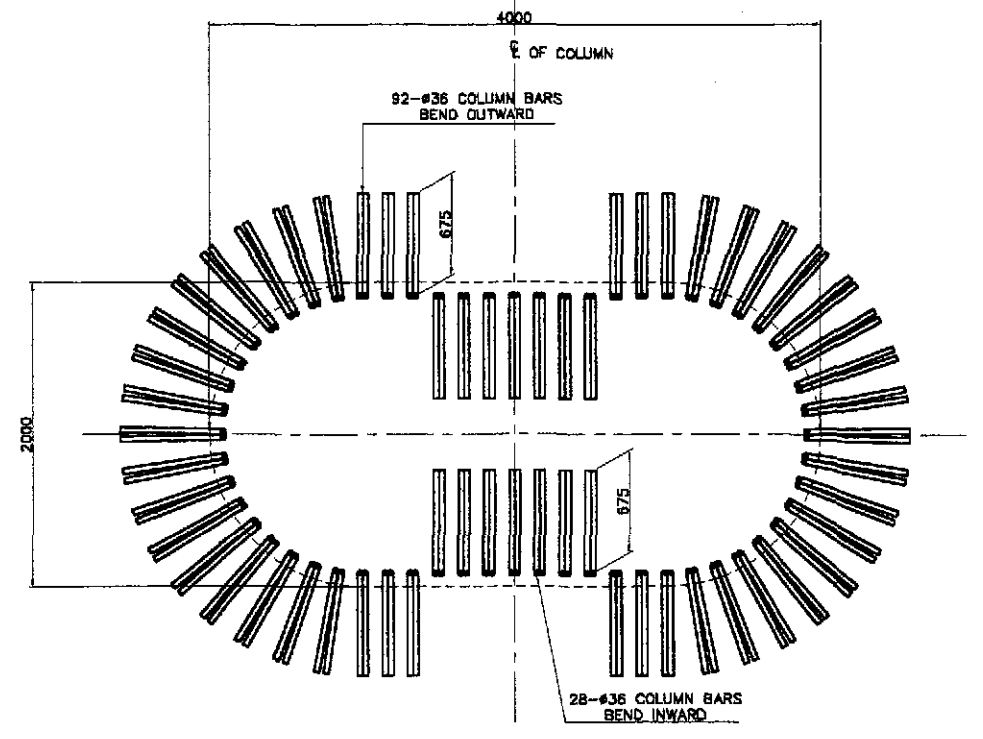
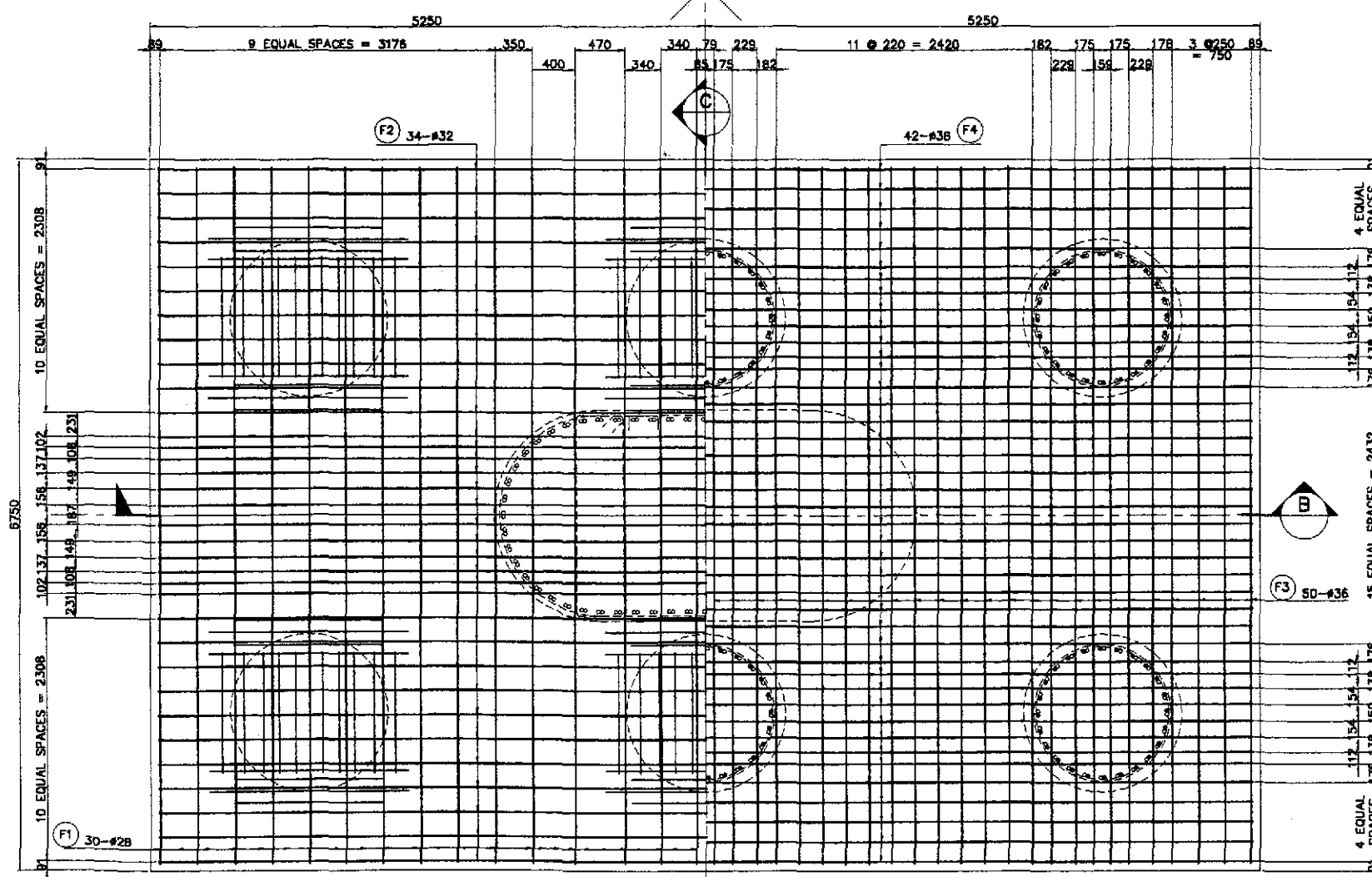
1 COPING REINFORCEMENT DETAILS (PIER 7 TO PIER 14)
SCALE AS SHOWN

<p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>		<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS</p>		<p>PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses)</p>		<p>SCALE : AS SHOWN</p>		<p>SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE COPING REINFORCEMENT DETAILS (PIER 7 to PIER 14) (ULTIMATE STAGE)</p>		<p>SHEET NO. : B10M-60</p>			
DESIGNED	DATE	SIGNATURE	F.U.H. - PMO	BUREAU OF DESIGN	OFFICE OF THE SECRETARY								
CHECKED	DATE	SIGNATURE	Submitted By:	Reviewed By:	Recommended By:	Approved By:							
SUBMITTED	DATE	SIGNATURE	DANILO C. TRAJANO Project Director	ADRIANO M. DORJOY Chief, Bridges Division	GILBERTO S. REYES Director IV (CIC)	MANUEL M. BONGAN Undersecretary	SIMEON A. DATUMANONG Secretary						



B SECTION
SCALE 1:30

C SECTION
SCALE 1:30



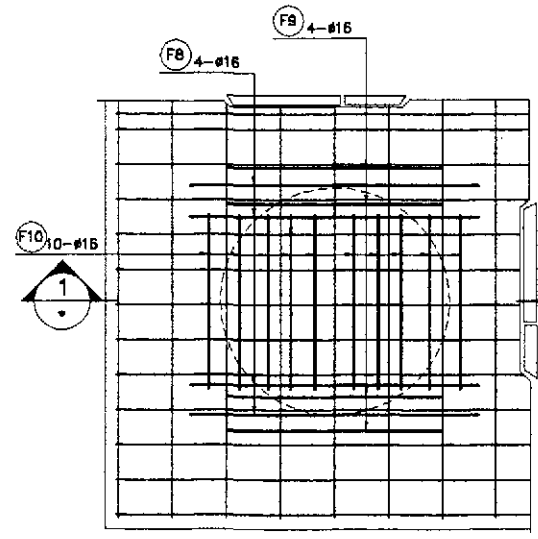
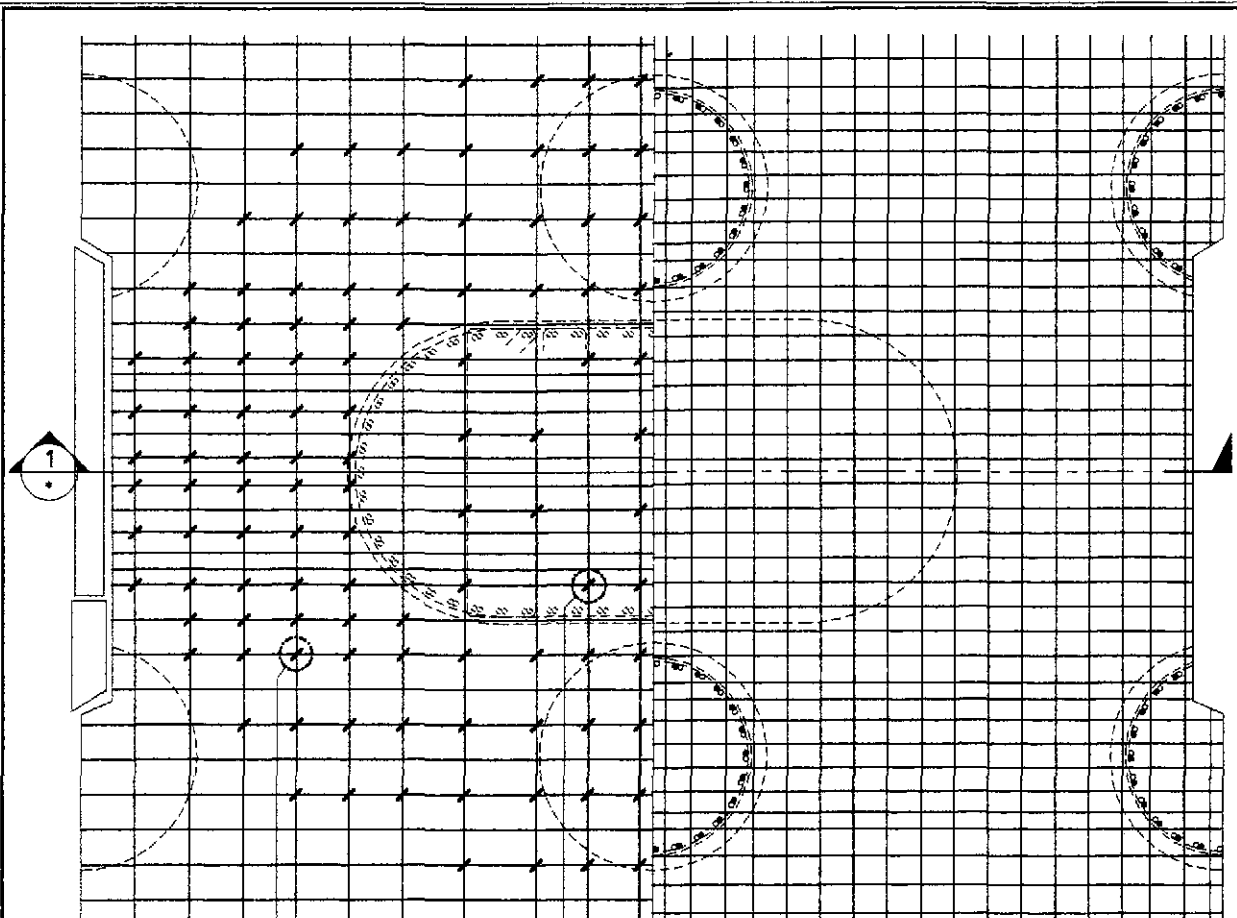
B DETAIL OF COLUMN MAIN BAR ARRANGEMENT @ BOTTOM
SCALE 1:25

← HALF SHOWING TOP BARS HALF SHOWING BOTTOM BARS →

A PLAN
SCALE 1:30

1 PILECAP REINFORCEMENT DETAILS
SCALE AS SHOWN

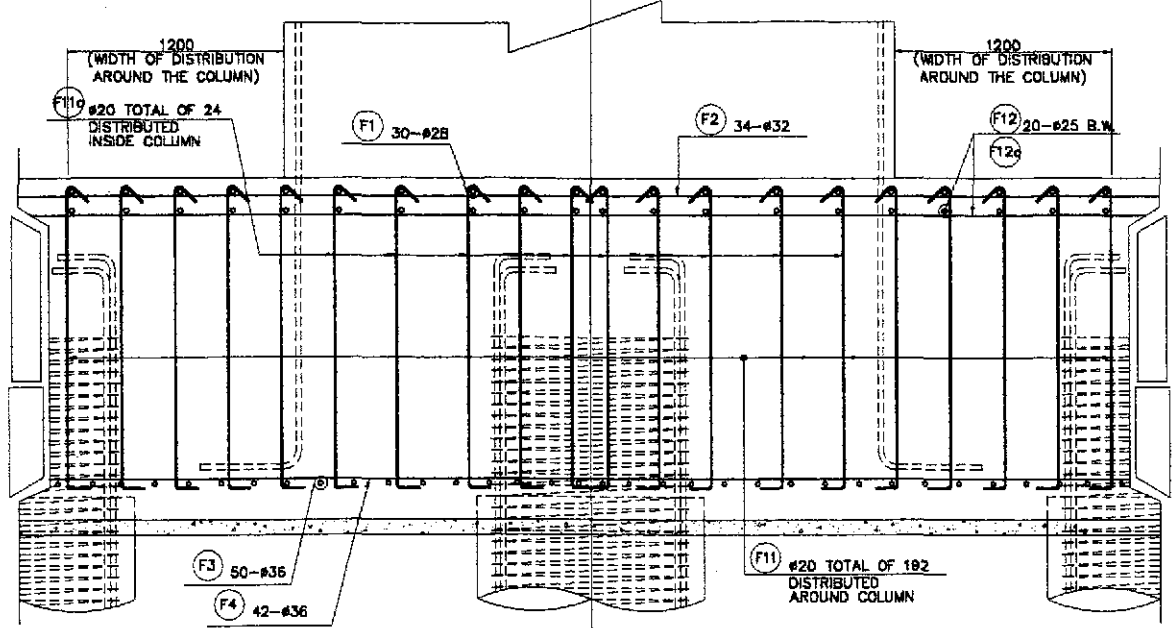
	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS				PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE PILE CAP REINFORCEMENT DETAILS (PIER 6 & PIER 15) - 1 of 2 (ULTIMATE STAGE)	SHEET NO. : B10M-61
	CHECKED	10/17/02	J.C. SANTOS		BUREAU OF DESIGN	OFFICE OF THE SECRETARY	Approved By: (See cover sheet for Signature/Approval) SIMON A. DATUMANONG Secretary					
SUBMITTED	10/19/02	M. K. ...	TEAM LEADER	DANILLO C. TRAJANO Project Director	ADRIANO M. DORCY Chief, Bridge Division	GILBERTO S. REYES Director IV (CIC)	MANUEL M. BONDAN Undersecretary	Approved By: (See cover sheet for Signature/Approval)				



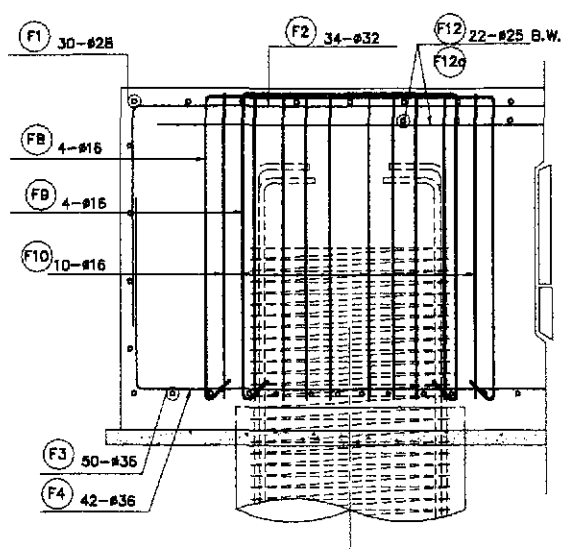
TYPICAL ON PILE-PILECAP CONNECTION

B PLAN SCALE 1:25

PLAN SCALE 1:25
 HALF SHOWING TOP BARS HALF SHOWING BOTTOM BARS



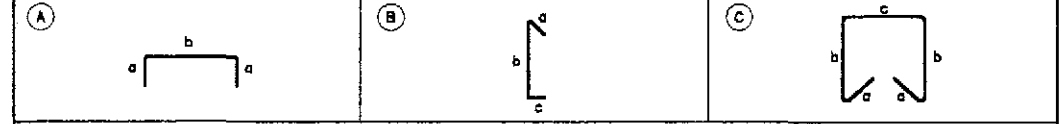
1 SECTION SCALE 1:25



2 SECTION SCALE 1:25

PILE CAP REINFORCEMENT DETAILS AS SHOWN

BAR BENDING DIAGRAM

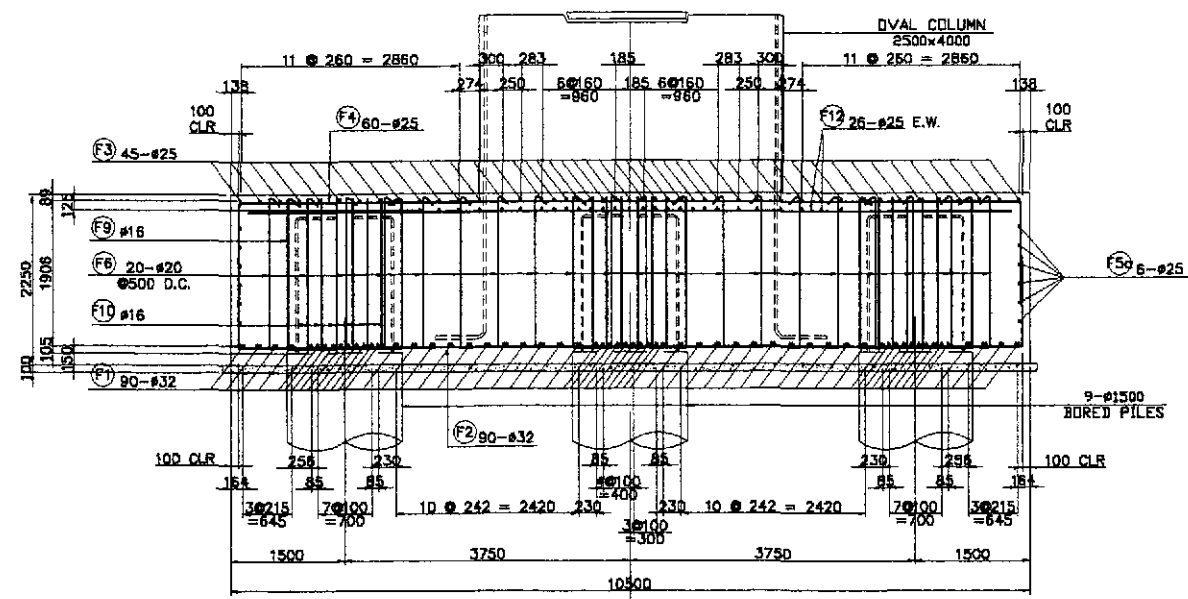


SCHEDULE OF REINFORCEMENT

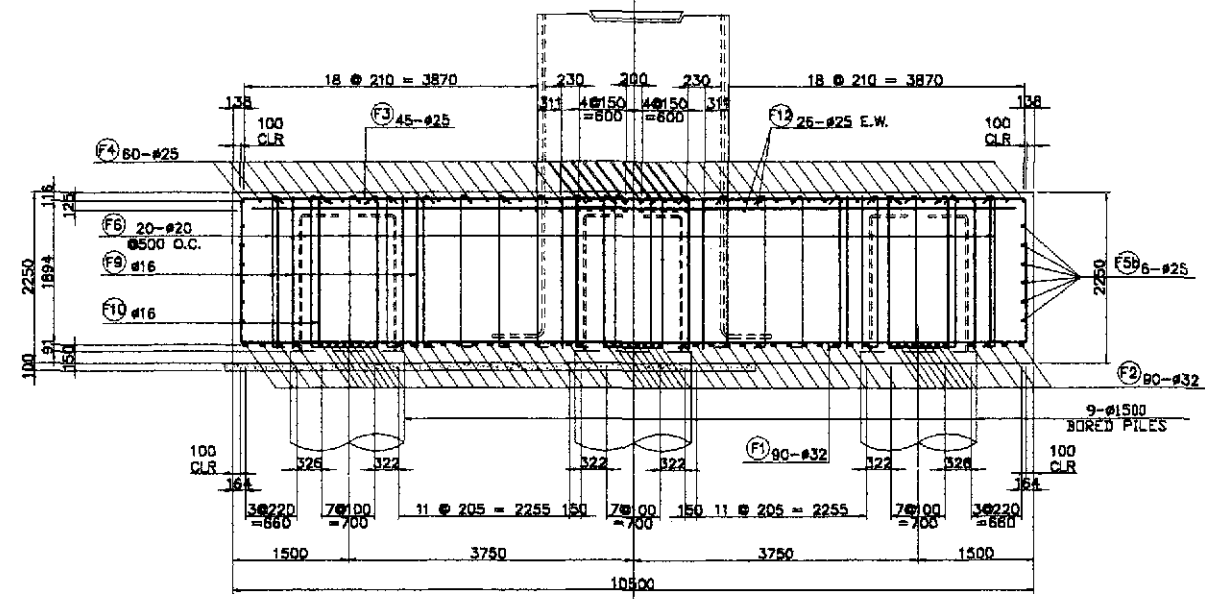
LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION (mm) OUT TO OUT						LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (Kg.) GRADE 60	WEIGHT (Kg.) GRADE 40
				a	b	c	d	e	f					
PIER P6 & P15	F1	25	A	1600	6600					9800	50	3.854	1888.46	
	F2	32	A	800	10350					11850	42	6.313	3168.49	
	F3	32	A	1800	6600					8800	34	6.313	2103.49	
	F4	32	A	800	10350					11850	30	6.313	2263.21	
	F5	25	STR	6600						6600	8	3.854	203.49	
	F6	25	STR	10350						10350	8	3.854	319.112	
	F7	20	B	260	1950					2470	280	2.466	1705.49	
	F8	16	C	100	1950	1500				5600	24	1.578		212.22
	F9	16	C	100	1950	1250				5350	24	1.578		202.74
	F10	16	C	100	1950	1100				5200	36	1.578		295.58
	F11	20	B	260	1950					2470	192	2.466	1169.48	
	F11a	20	B	260	1950					2470	24	2.466	146.18	
F12	25	STR	10350						10350	20	3.854	797.78		
F12a	25	STR	6600						6600	20	3.854	508.73		
											WEIGHT FOR GRADE 40 =	0	710.55 Kgs.	
											WEIGHT FOR GRADE 60 =		14,273.01 Kgs.	0

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

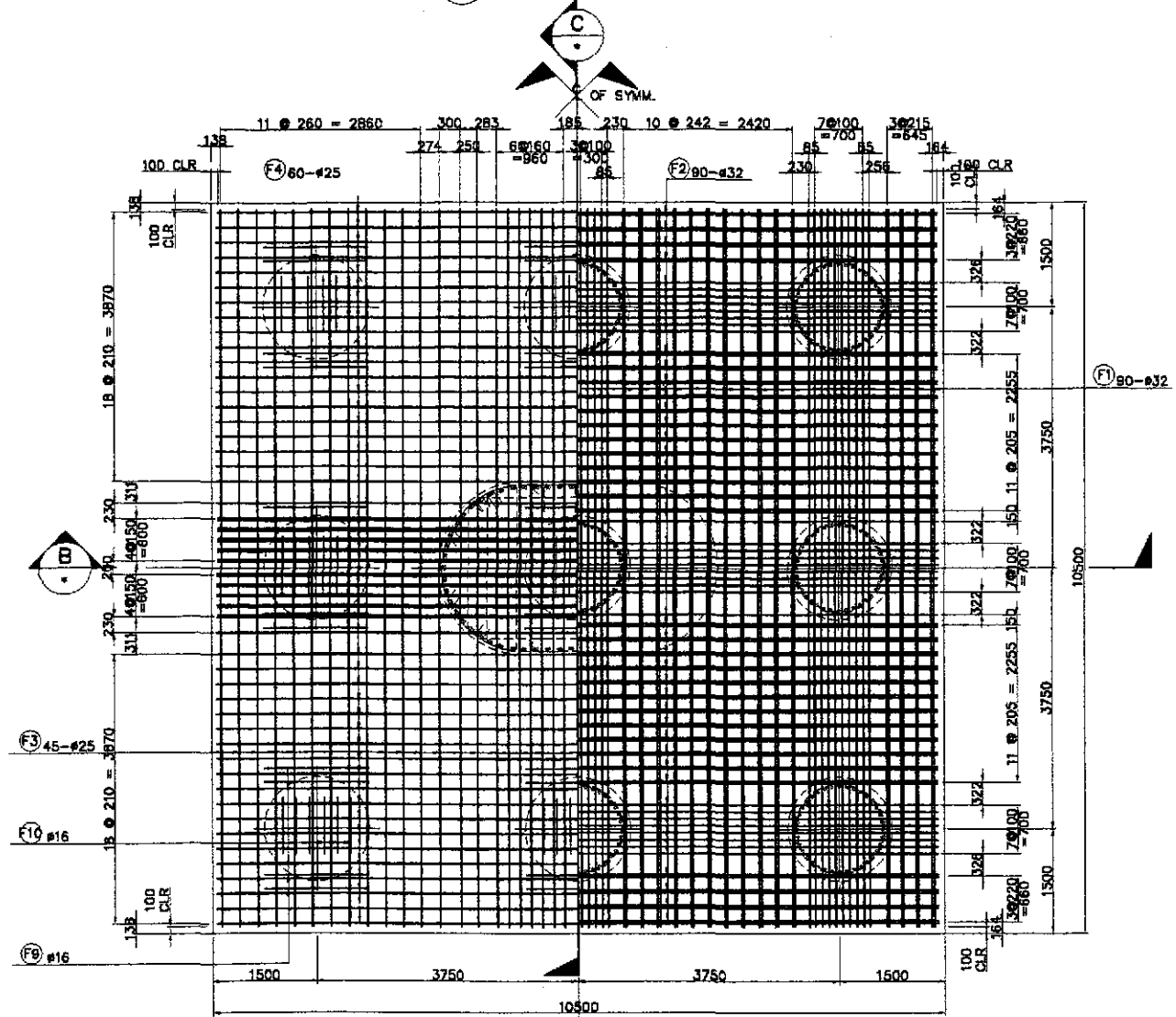
		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BUREAU OF DESIGN				PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Floridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III		SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE PILE CAP REINFORCEMENT DETAILS (PIER 6 & PIER 15) - 2 of 2 (ULTIMATE STAGE)	SHEET NO. : B10M-62
DESIGNED	DATE	SIGNATURE	SUBMITTED BY	REVIEWED BY	RECOMMENDED BY	APPROVED BY				
CHECKED	10/17/02	J. E. SANTOS	DANILO C. TRAJANO	ADRIANO M. DORDY	GILBERTO S. REYES	MANUEL M. BONDAN				
SUBMITTED	10/19/02	M. R. RANCI	Project Director	Chief, Bridge Division	Director N (OIC)	Undersecretary				



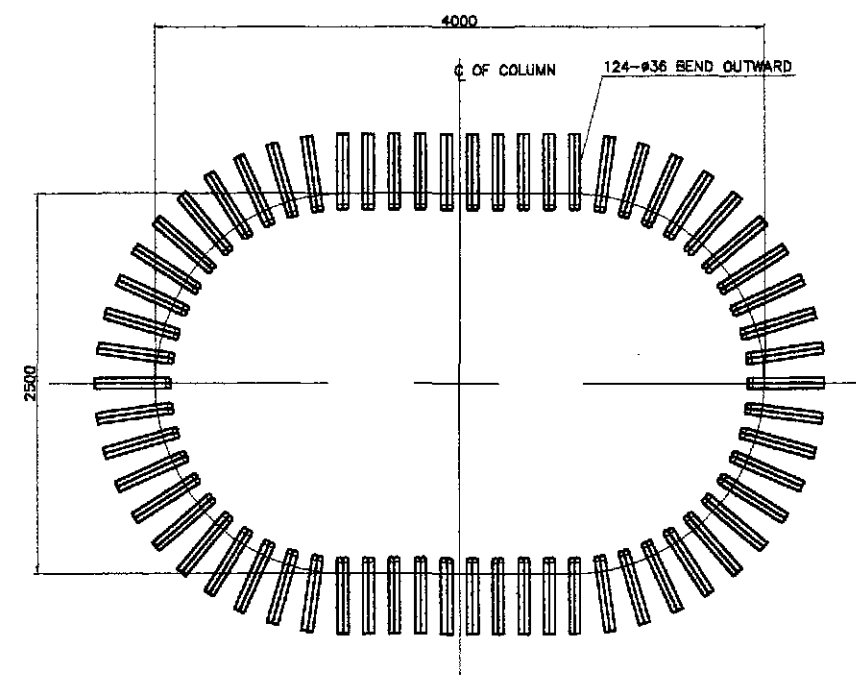
B SECTION
SCALE 1:50



C SECTION
SCALE 1:50



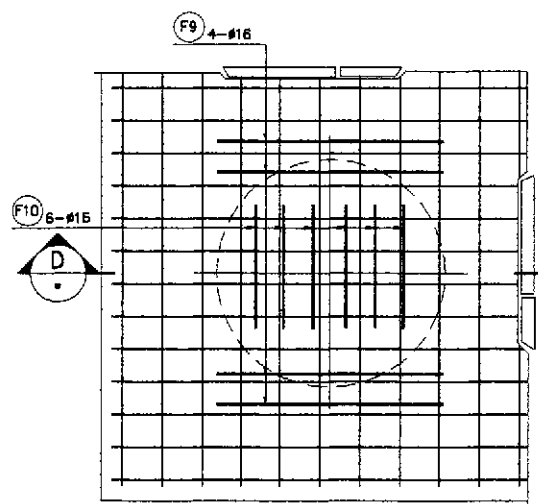
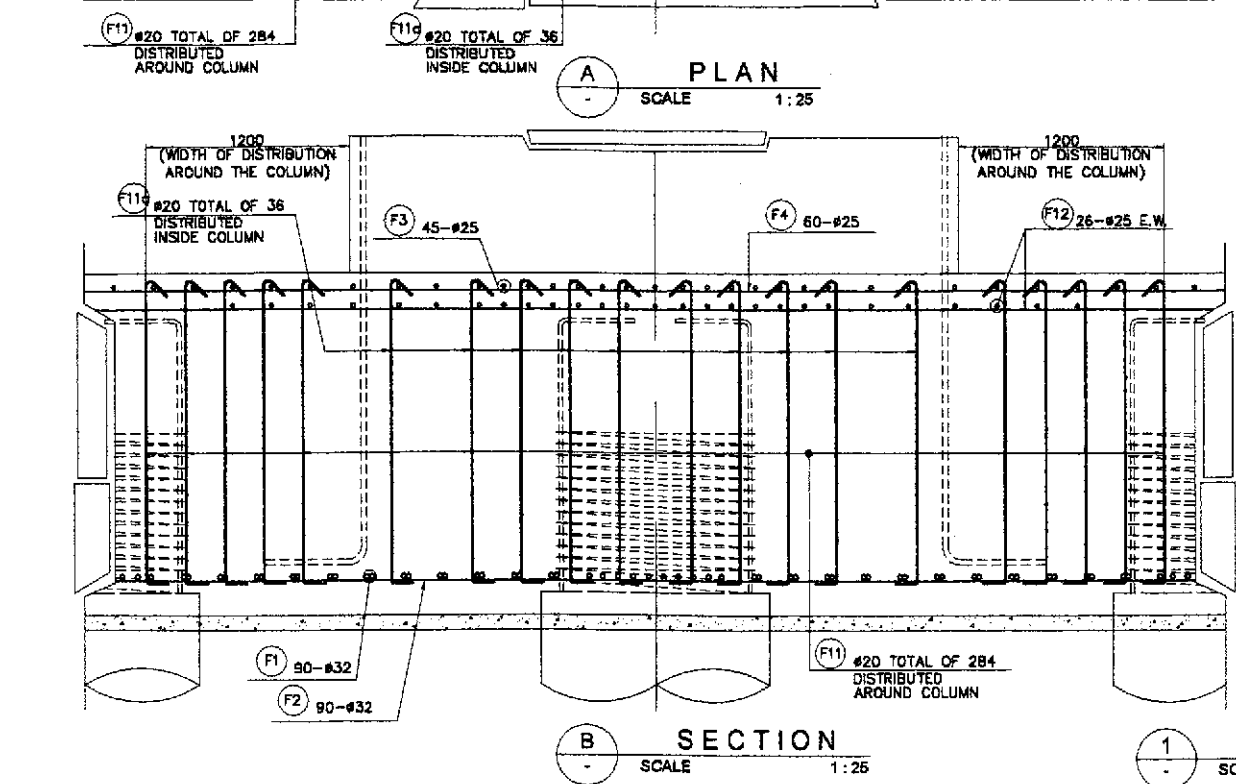
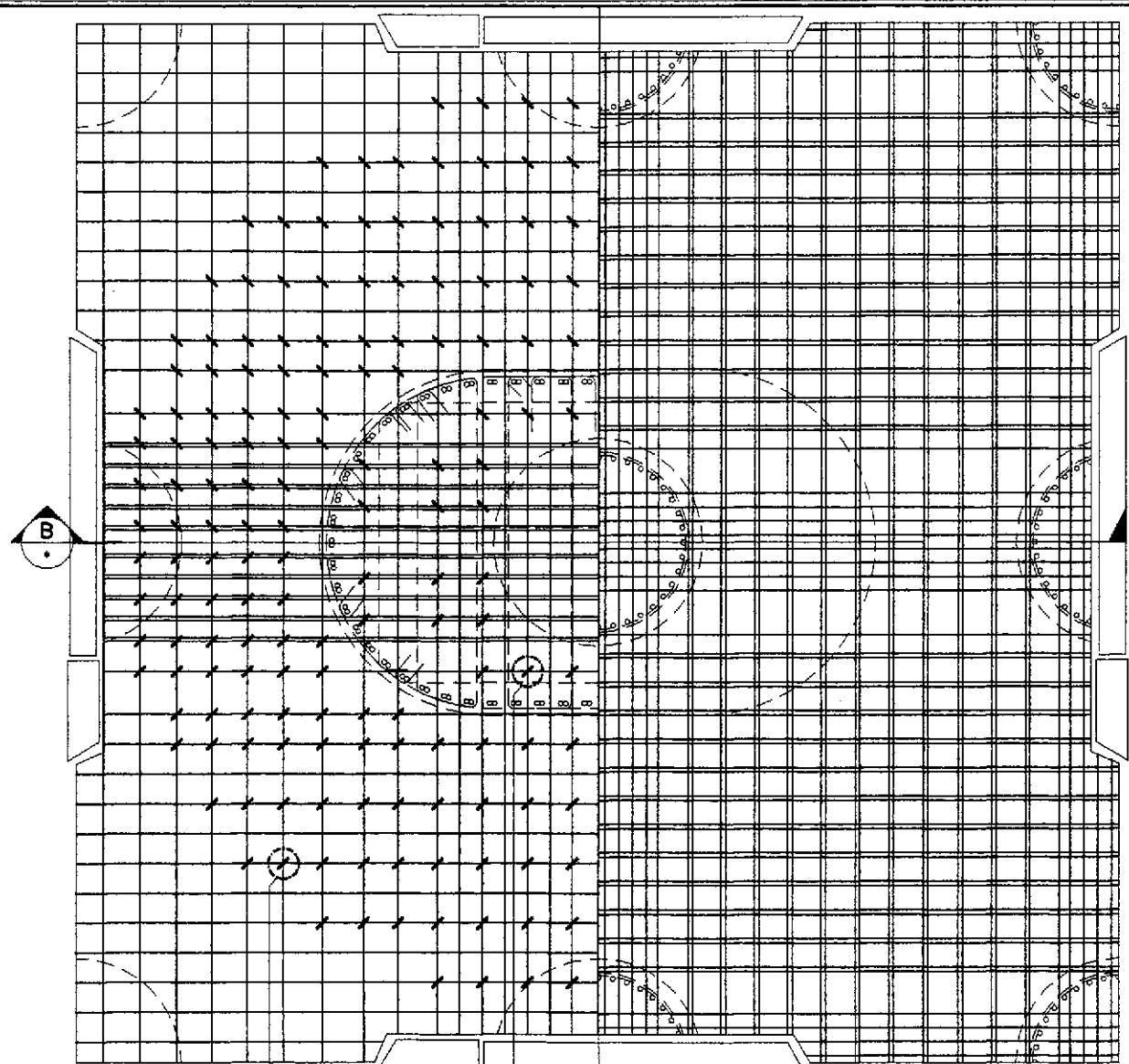
A PLAN
SCALE 1:50



B DETAIL OF COLUMN MAIN BAR ARRANGEMENT @ BOTTOM
SCALE 1:25

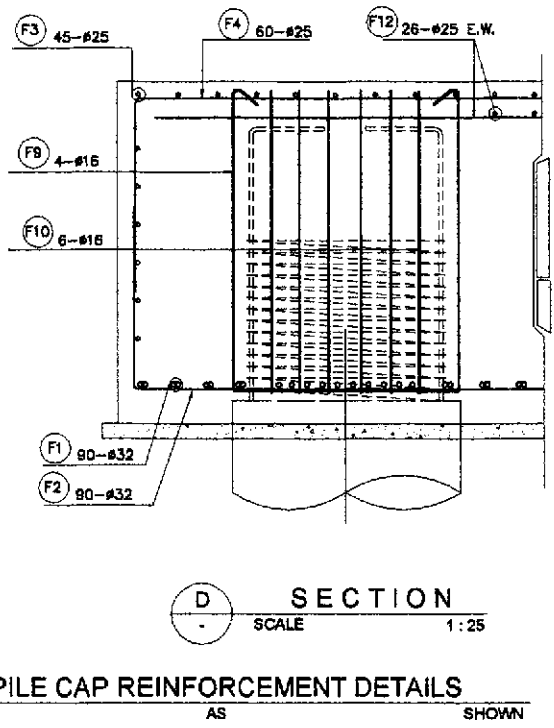
1 PILECAP REINFORCEMENT DETAILS
SCALE AS SHOWN

	DESIGNED: <i>[Signature]</i> DATE: 10/17/02 CHECKED: <i>[Signature]</i> SUBMITTED: 10/19/02	SIGNATURE: <i>[Signature]</i> F. M. SALAS TEAM LEADER	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	PROJECT AND LOCATION: THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE: AS SHOWN FULL SIZE A1	SHEET CONTENTS: BRIDGE NO. 10 PAMPANGA RIVER BRIDGE PILE CAP REINFORCEMENT DETAILS (PIER 7 to PIER 14) - 1 of 2 (ULTIMATE STAGE)	SHEET NO.: B10M-63
	BUREAU OF DESIGN Submitted By: DANILO C. TRAJANO, Project Director Reviewed By: ADRIANO M. BORJOY, Chief, Bridge Division Recommended By: GILBERTO S. REYES, Director IV (CIC) Office of the Secretary Recommended By: MANUEL M. BONDAN, Undersecretary Approved By: SIMON A. DATUMANONG, Secretary			PROJECT AND LOCATION (continued): CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE (continued): AS SHOWN FULL SIZE A1	SHEET CONTENTS (continued): BRIDGE NO. 10 PAMPANGA RIVER BRIDGE PILE CAP REINFORCEMENT DETAILS (PIER 7 to PIER 14) - 1 of 2 (ULTIMATE STAGE)	SHEET NO. (continued): B10M-63
	JICA JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL YEO YACHYO ENGINEERING CO., LTD.			DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	PROJECT AND LOCATION (continued): CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE (continued): AS SHOWN FULL SIZE A1	SHEET CONTENTS (continued): BRIDGE NO. 10 PAMPANGA RIVER BRIDGE PILE CAP REINFORCEMENT DETAILS (PIER 7 to PIER 14) - 1 of 2 (ULTIMATE STAGE)



TYPICAL ON PILE-PILECAP CONNECTION

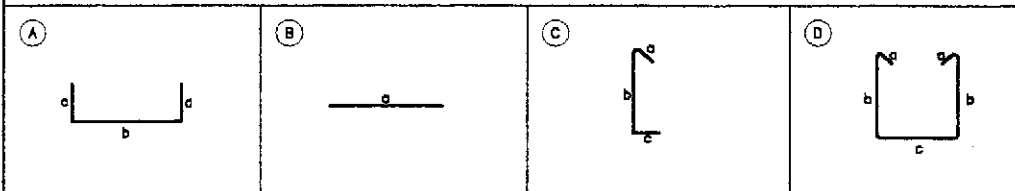
PLAN SCALE 1:25



SECTION SCALE 1:25

PILE CAP REINFORCEMENT DETAILS AS SHOWN

BAR BENDING DIAGRAM

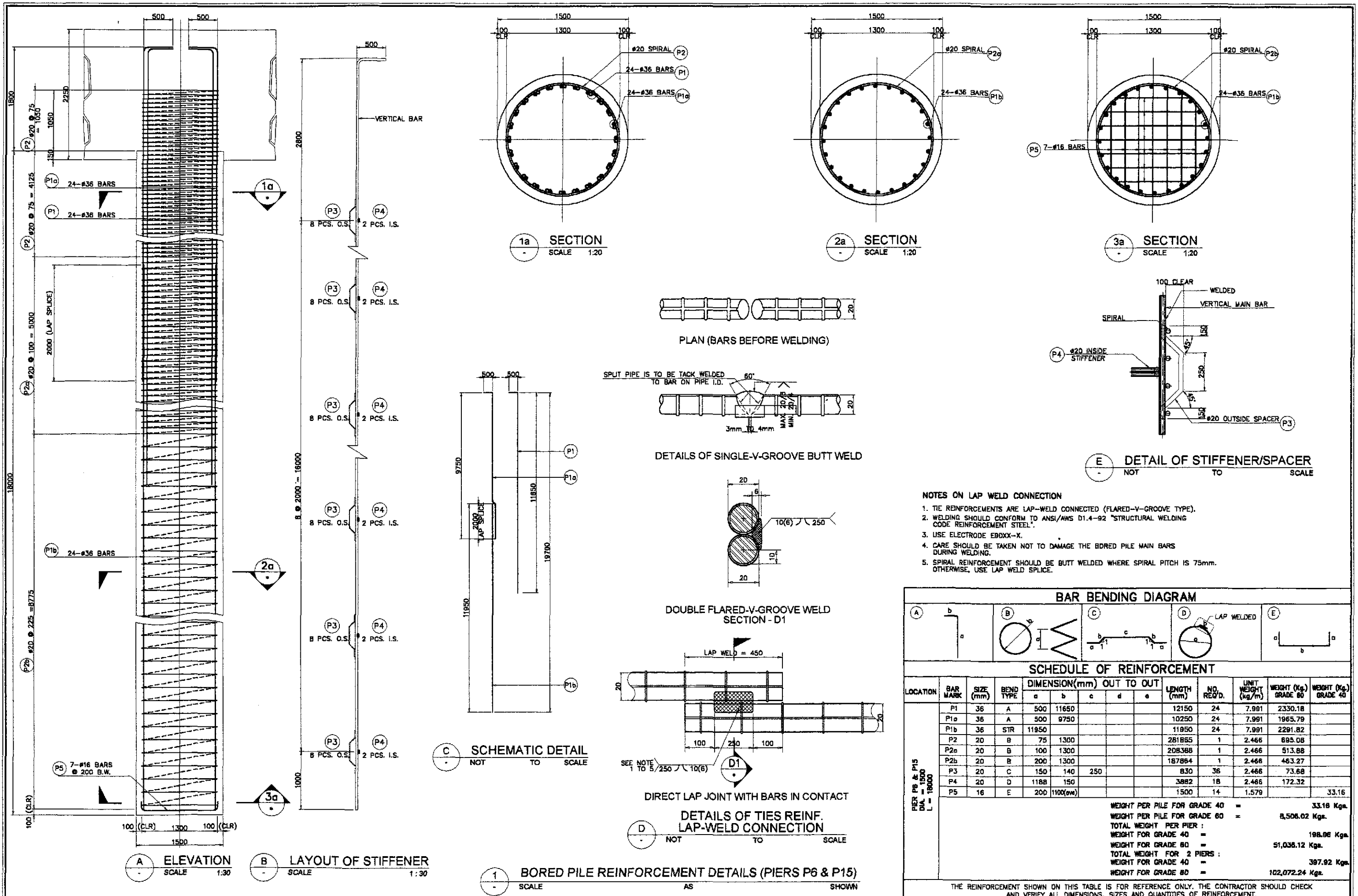


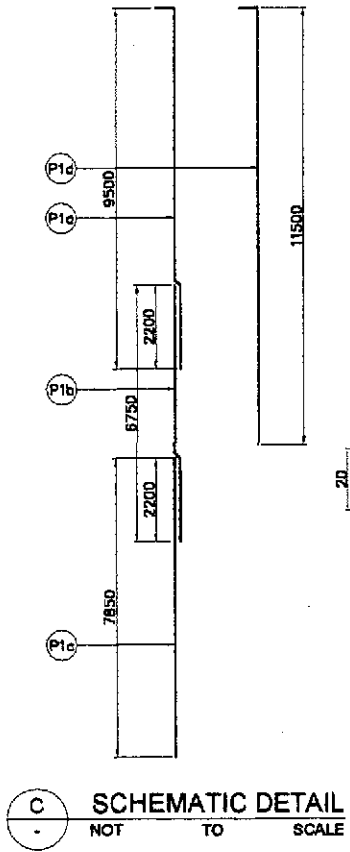
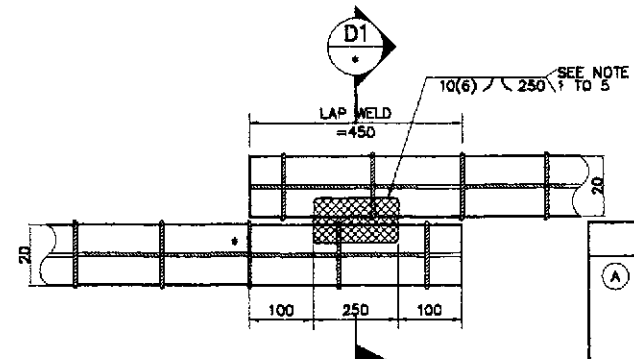
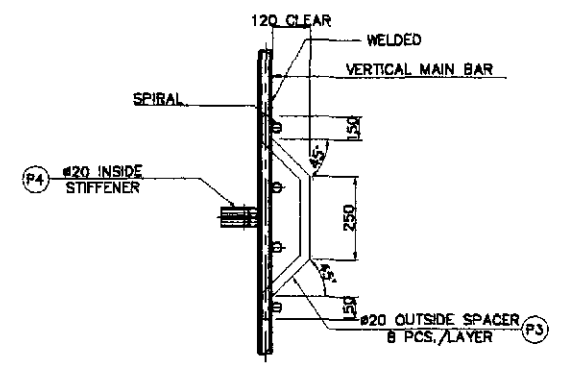
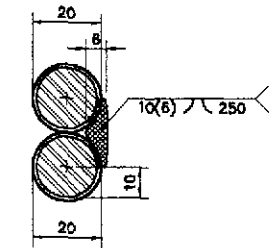
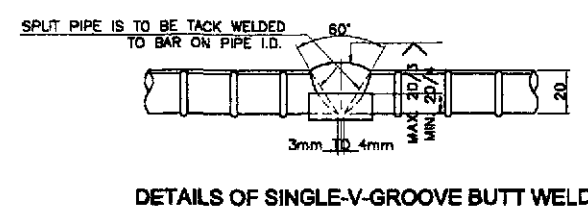
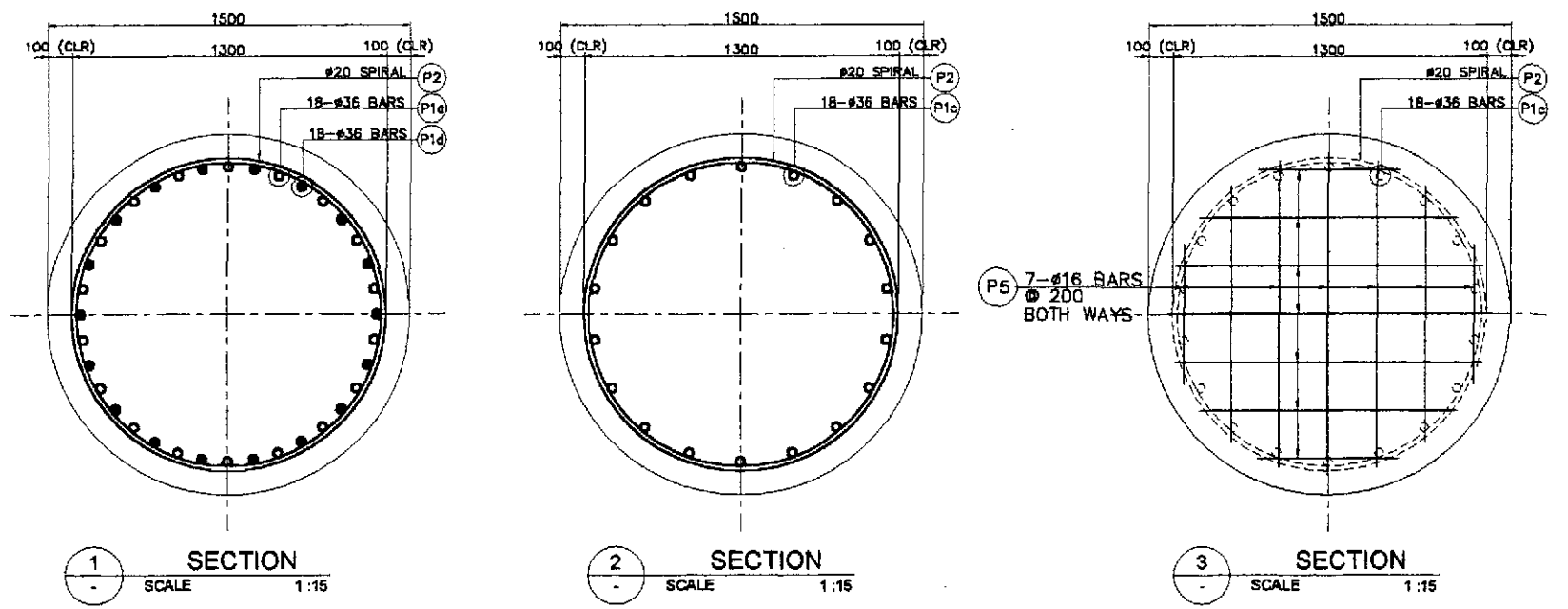
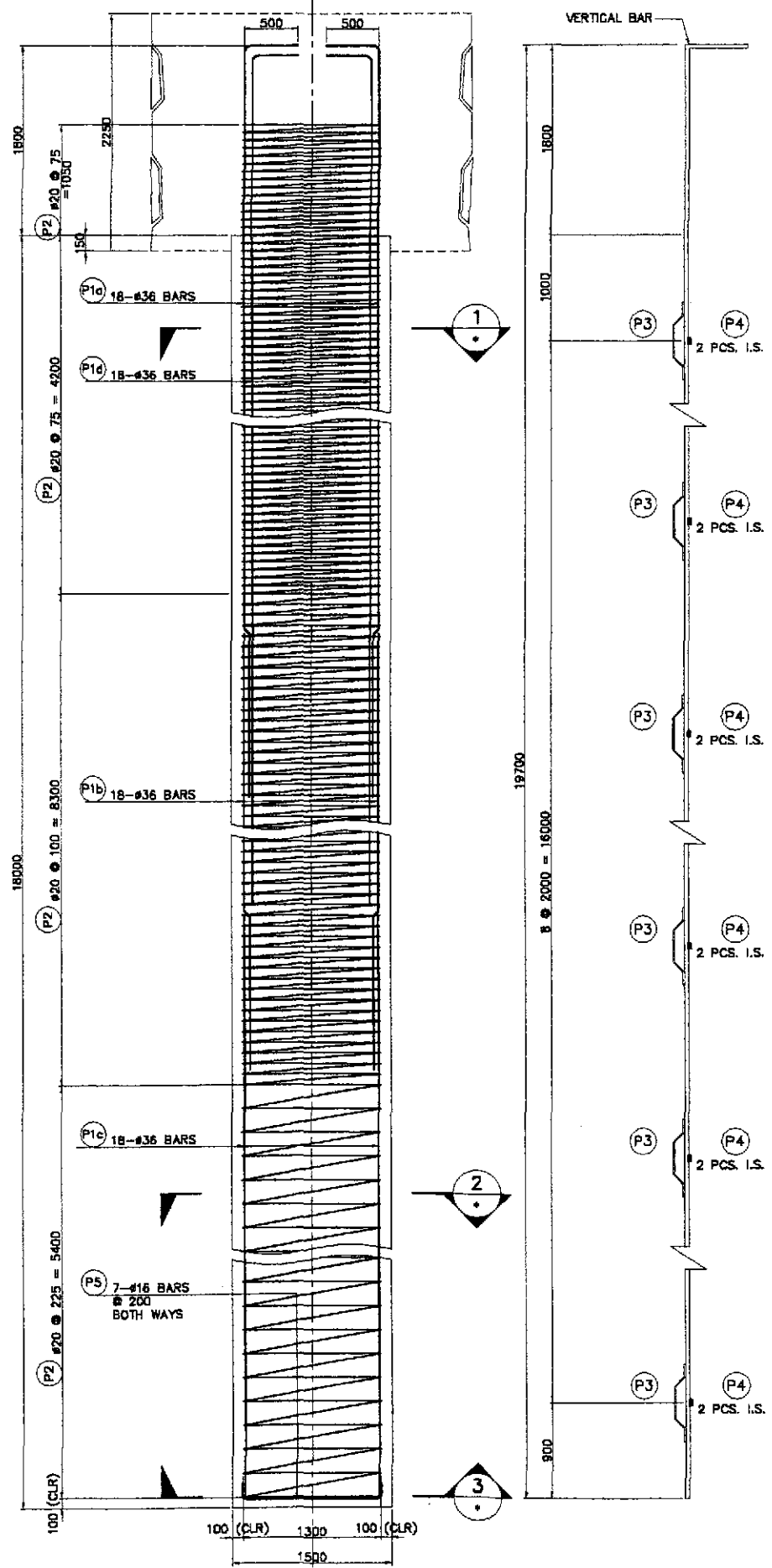
SCHEDULE OF REINFORCEMENT

LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION(mm) OUT TO OUT						LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (kg)		
				a	b	c	d	e	f				GRADE 40	GRADE 60	
PIER 7, 8, 9, 10, 11, 12, 13 & 14	F1	32	A	1000	10350						12350	90	6.314		7,019
	F2	32	A	1000	10350						12350	90	6.314		7,019
	F3	25	A	1000	10350						12350	45	3.854		2,142
	F4	25	A	1000	10350						12350	60	3.854		2,856
	F5a	25	B	10350							10350	12	3.854		479
	F5b	25	B	10350							10350	12	3.854		479
	F6	20	C	300	2100	350					2750	400	2.468		2,713
	F7	16	D	300	2100	1500					6300	5	1.579	50	
	F8	16	D	300	2100	2950					7750	4	1.579	49	
	F9	16	D	300	2100	1500					6300	32	1.579	319	
	F10	16	D	300	2100	800					5600	48	1.579	425	
	F11a	20	C	300	2100	350					2750	284	2.468		1,926
F11b	20	C	300	2100	350					2750	36	2.468		245	
F12	25	B	10350							10350	52	3.854		2,075	
TOTAL WEIGHT											=	853	28,953		
TOTAL WEIGHT (B PIERS)											=	6,824	215,624		

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

	DESIGNED	DATE	SIGNATURE		REPUBLIC OF THE PHILIPPINES			PROJECT AND LOCATION :		SCALE :	SHEET CONTENTS :	SHEET NO. :
	CHECKED	14/11/02	F. M. SALAS		DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Pinaridel, Cabanatuan and San Jose Bypasses)		AS SHOWN	BRIDGE NO. 10 PAMPANGA RIVER BRIDGE PILE CAP REINFORCEMENT DETAILS (PIER 7 TO PIER 14) - 2 OF 2 (ULTIMATE STAGE)	B10M-64
SUBMITTED	10/14/01	J. Z. SANTOS	TEAM LEADER	BUREAU OF DESIGN			CABANATUAN BYPASS - CONTRACT PACKAGE III		FULL SIZE A1			
				OFFICE OF THE SECRETARY								
				Submitted By:			Recommended By:					
				DANILO C. TRAJANO Project Director			ADRIANO M. DOROS Chief, Bridge Section					
				GILBERTO S. REYES Director IV (CIC)			MANUEL M. BONGHAN Undersecretary					
				SIMEON A. DATUMANGING Secretary								





- NOTES ON LAP WELD CONNECTION**
1. TIE REINFORCEMENTS ARE LAP-WELD CONNECTED (FLARED-V-GROOVE TYPE).
 2. WELDING SHOULD CONFORM TO ANSI/AWS D1.4-82 "STRUCTURAL WELDING CODE REINFORCEMENT STEEL".
 3. USE ELECTRODE E60XX-X.
 4. CARE SHOULD BE TAKEN NOT TO DAMAGE THE BORED PILE MAIN BARS DURING WELDING.
 5. SPIRAL REINFORCEMENT SHOULD BE BUTT WELDED WHERE SPIRAL PITCH IS 75mm. OTHERWISE, USE LAP WELD SPLICE.

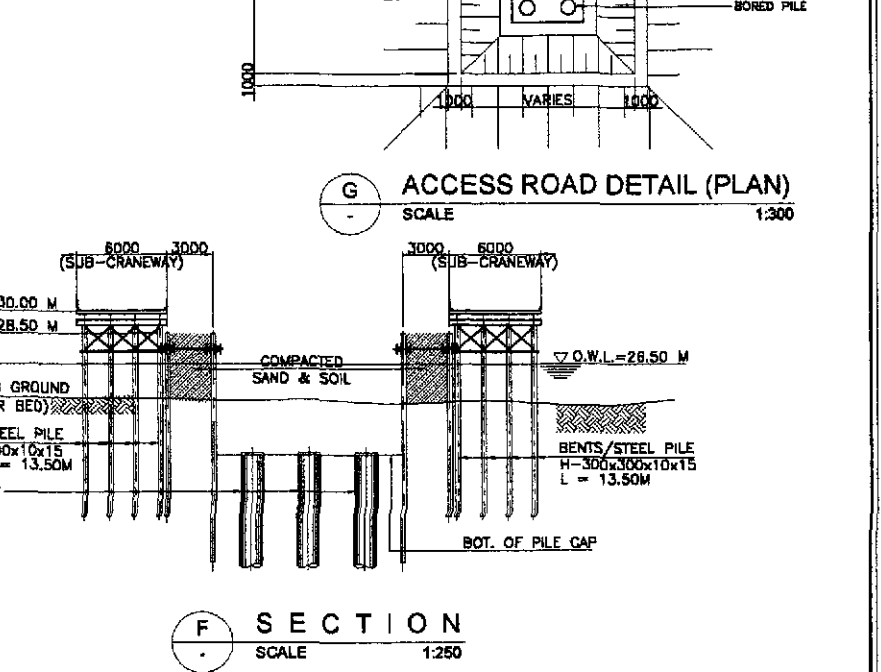
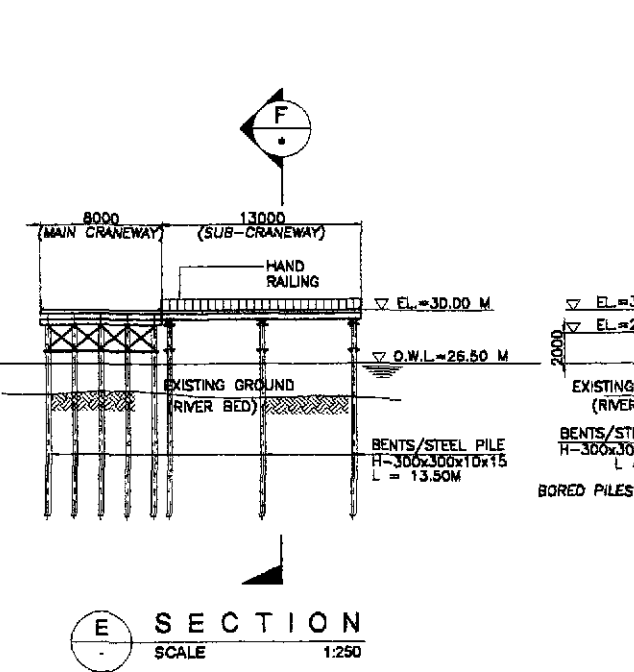
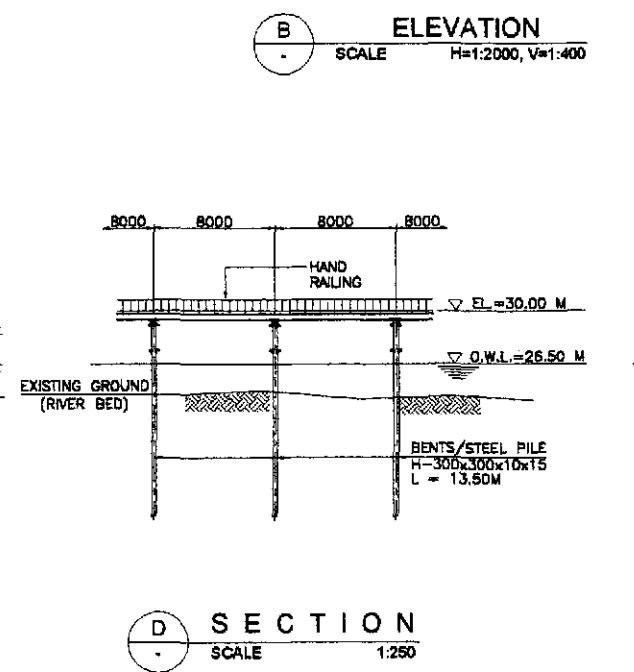
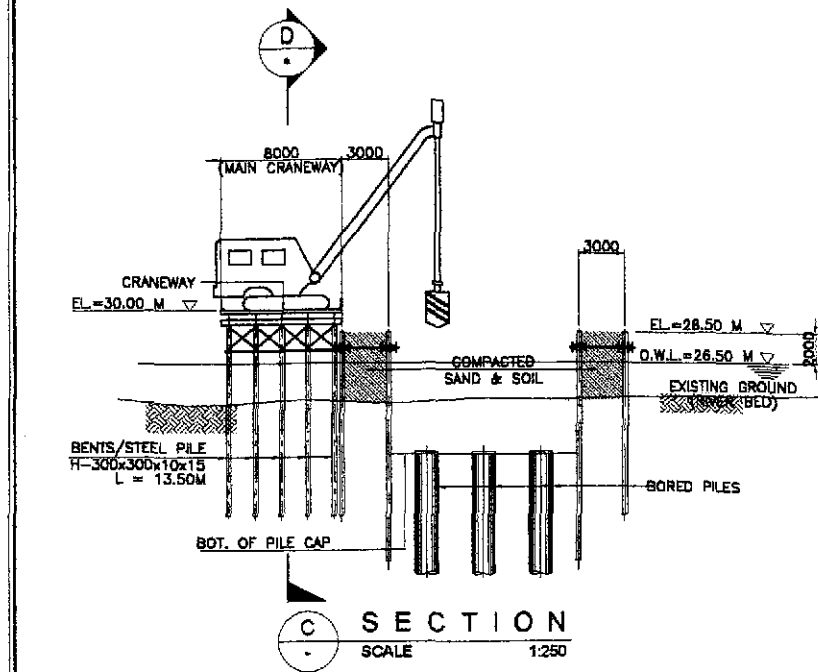
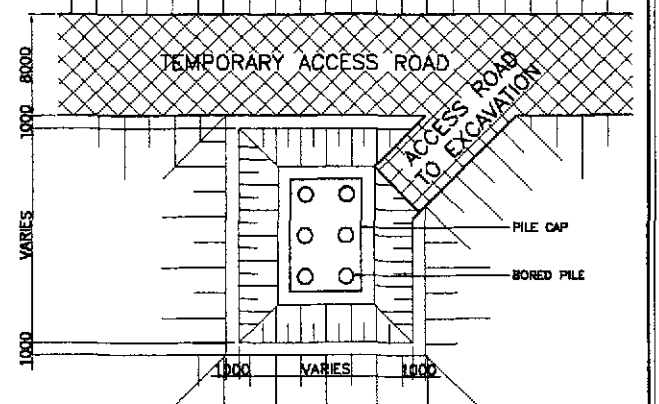
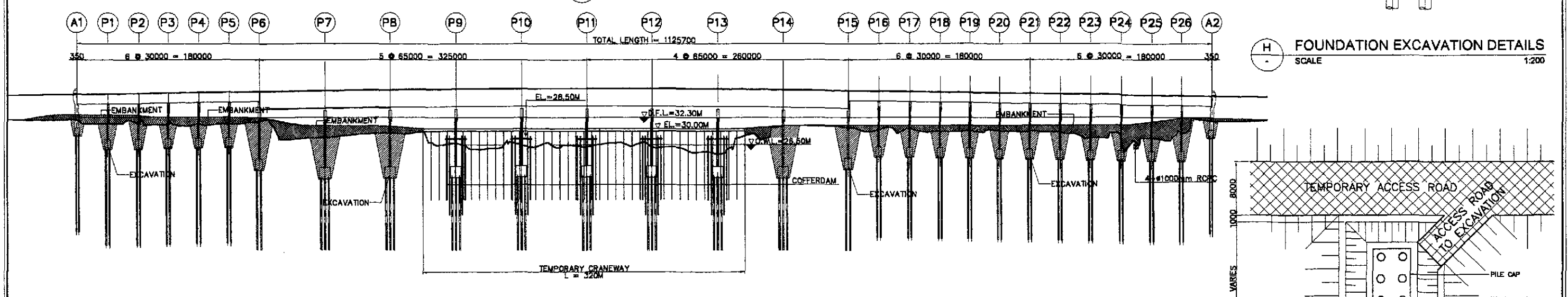
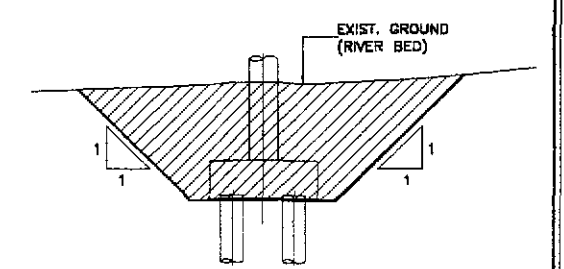
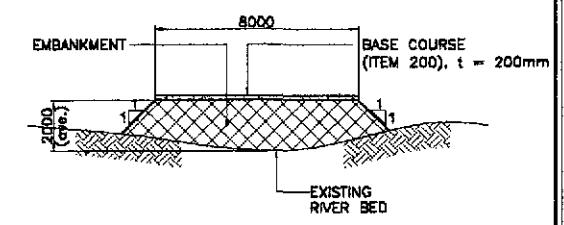
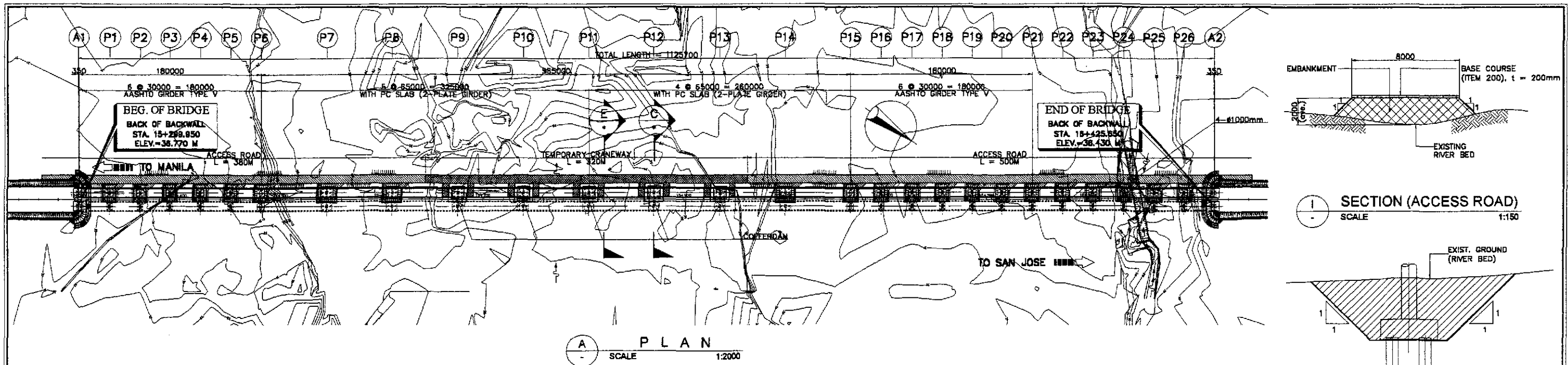
BAR BENDING DIAGRAM

SCHEDULE OF REINFORCEMENT

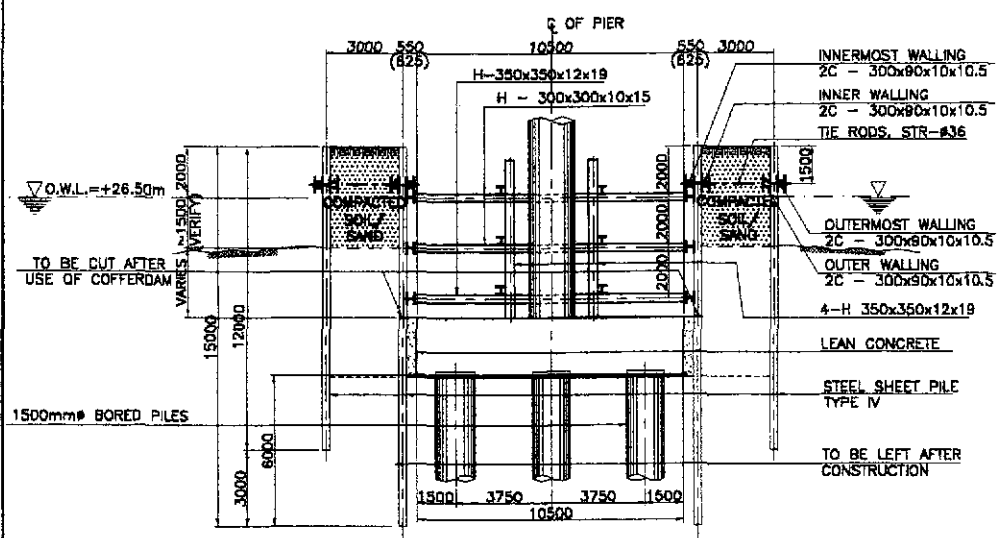
LOCATION	BAR MARK	SIZE (mm)	BEND TYPE	DIMENSION(mm) OUT TO OUT				LENGTH (mm)	NO. REQ'D.	UNIT WEIGHT (kg/m)	WEIGHT (kg)		
				a	b	c	d				GRADE 40	GRADE 80	
PIER 7 TO PIER 14	P1a	36	A	500	9500			10000	18	7.981	1439		
	P1b	36	STR	6750				6750	18	7.981	971		
	P1c	36	STR	7850				7850	18	7.981	1130		
	P1d	36	A	500	11500			12000	18	7.981	1727		
	P2a	20	B	75	1300			285890	1	2.466	705		
	P2b	20	B	100	1300			338980	1	2.466	836		
	P2c	20	B	225	1300			98020	1	2.466	242		
	P3	20	C	150	170	250		890	72	2.466	158		
	P4	20	D	1188	300			4040	18	2.466	180		
	P5	16	E	200	1090	(AVE)		1300	14	1.579	29		
	TOTAL WEIGHT										= 29	7,389	
	TOTAL WEIGHT (1 PIER)										= 281	66,501	
	TOTAL WEIGHT (8 PIERS)										= 2,088	532,008	

THE REINFORCEMENT SHOWN ON THIS TABLE IS FOR REFERENCE ONLY. THE CONTRACTOR SHOULD CHECK AND VERIFY ALL DIMENSIONS, SIZES AND QUANTITIES OF REINFORCEMENT.

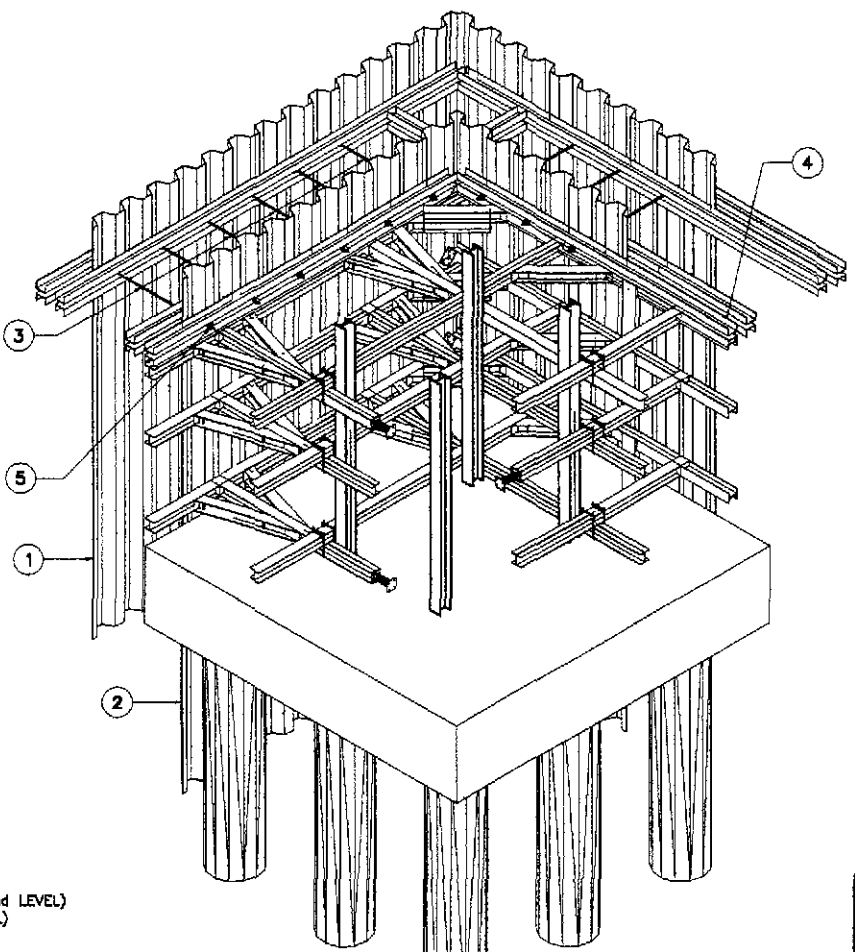
CONSTRUCTION WORKS



		REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BUREAU OF DESIGN				PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III		SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE TEMPORARY CRANEWAY BRIDGE AND COFFERDAMS - 1 of 2 (ULTIMATE STAGE)	SHEET NO. : B10M-71
DESIGNED	DATE	SIGNATURE	Submitted By:	Reviewed By:	Recommended By:	Recommended By:	Approved By:			
CHECKED	10/1/02	F. M. SALAS	DANILO C. TRAJANO Project Director	ADRIANO M. DOROY Chief, Bridges Division	GILBERTO S. REYES Director IV (DC)	MANUEL M. BONDAN Undersecretary	SIMEON A. DATUMANONG Secretary			
SUBMITTED	10/19/01	J. C. SINTOS TEAM LEADER								



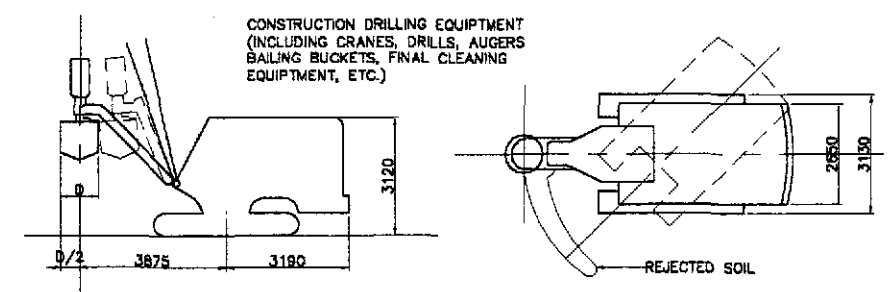
A SECTION
SCALE 1:300



COFFERDAM SCHEDULE

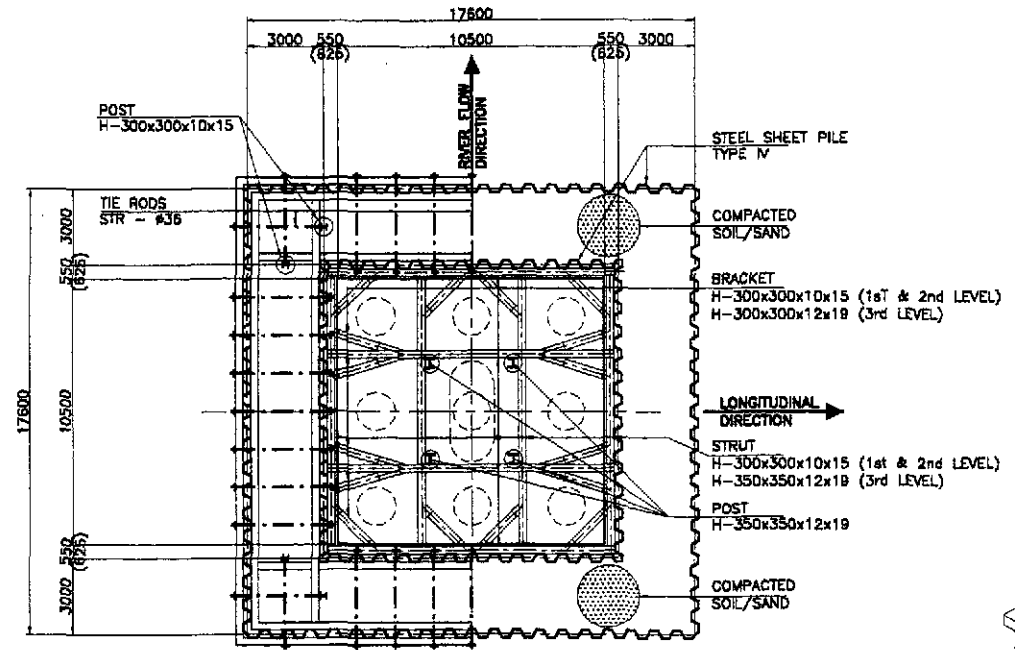
TYPE	PILE CAP SIZE	LOCATION	QUANTITY
2	10500 x 10500	PIER 9 & PIER 13	5

C ISOMETRIC VIEW
NOT TO SCALE

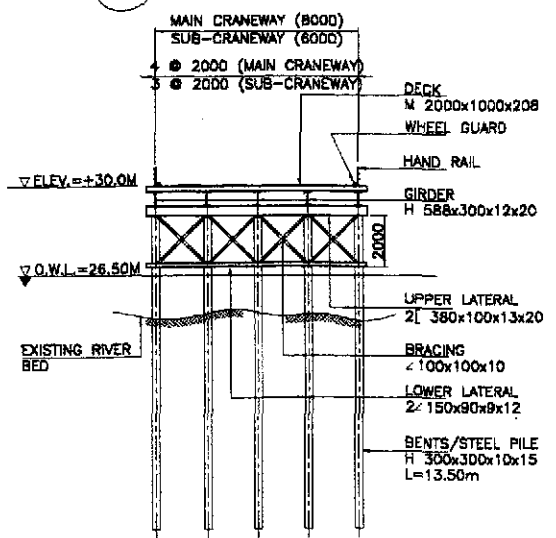


SECTION PLAN

D EARTH DRILL MACHINE
NOT TO SCALE



B PLAN
SCALE 1:300



B CRANEWAY SECTION (MAIN BRIDGE)
SCALE 1:300

- LEGEND :**
- ① OUTER SHEET PILE
 - ② INNER SHEET PILE
 - ③ TIE RODS
 - ④ WALLING
 - ⑤ NUTS AND WASHER
 - ⑥ HAND RAIL
 - ⑦ DECK PLATE
 - ⑧ MAIN GIRDER

MATERIAL LIST OF TEMPORARY COFFERDAM (PER PIER)

MATERIAL NAME	SIZE	LENGTH (m)	NO. (PCS)	UNIT	UNIT WT. (kg/m)	QUANTITY	REMARKS
TYPE 2 (10.5 x 10.5)							
Steel Sheet Pile (inner)	IV	15.00	116	kg	76.10	132,414.00	
Steel Sheet Pile (outer)	IV	12.00	176	kg	76.10	160,724.00	
Steel Strut, 1st & 2nd Level	H-300x300x10x15	10.60	16	kg	94.00	15,943.00	
Steel Strut, 3rd Level	H-350x350x12x19	10.60	8	kg	137.00	11,618.00	
Steel Waling (Inner)	C-300x90x10x10.5	17.20	8	kg	43.80	6,027.00	
Steel Waling (Innermost)	C-300x90x10x10.5	11.20	8	kg	43.80	3,925.00	
Steel Waling (outer)	C-300x90x10x10.5	17.20	8	kg	43.80	6,027.00	
Steel Waling (outermost)	C-300x90x10x10.5	18.00	8	kg	43.80	6,308.00	
Steel Post	H-350x350x12x19	15.00	4	kg	137.00	8,220.00	
Steel Post	H-300x300x10x15	12.00	8	kg	94.00	9,024.00	
Steel Bracket, 1st&2nd Level	H-300x300x10x15	2.00	32	kg	94.00	6,016.00	
Steel Bracket, 3rd Level	H-350x350x12x19	2.00	16	kg	137.00	4,384.00	
Tie Rods	STR - #36	3.50	36	kg	7.99	1,007.00	
Sand/Soil	Barrow Materials			m ³		744.00	Selected Materials

MATERIAL LIST OF TEMPORARY CRANEWAY

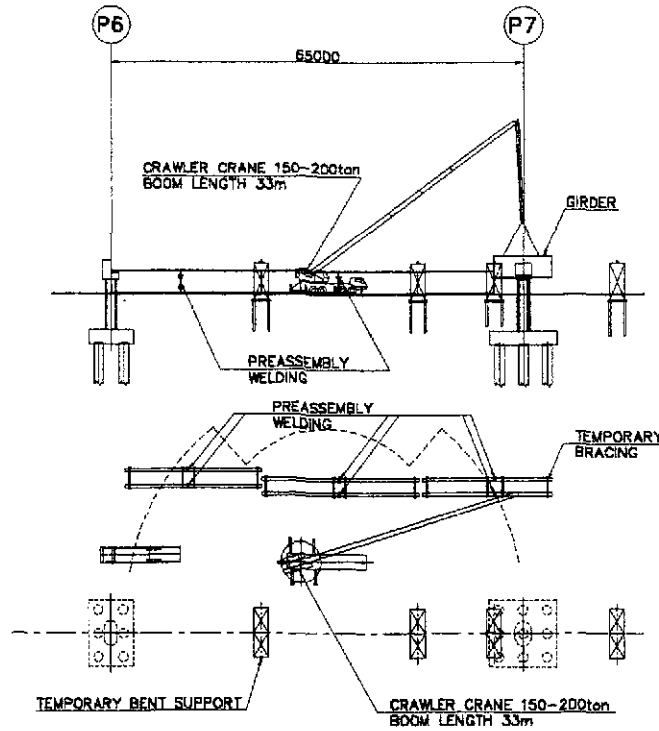
A) MAIN CRANEWAY, L = 320 000 mm							
Steel Pile (Bents)							
Lower Lateral	L-150 x 90 x 9 x 12	9.30	82	kg	16.40	12,507.00	
Upper Lateral	C-380 x 100 x 13 x 20	9.30	82	kg	67.30	51,323.00	
Bracing	L-100 x 100 x 10	2.90	328	kg	14.90	14,173.00	
Girder	H-588 x 300 x 12 x 20	8.00	200	kg	147.00	235,200.00	
Deck Plate	2000 x 1000 x 208			m ²		2,560.00	
Hand Railing				m		640.00	
Wheel Guard				m		640.00	
B) SUB CRANEWAY, L = 130 000 mm							
Steel Pile (Bents)							
Lower Lateral	L-150 x 90 x 9 x 12	7.30	80	kg	16.40	7,184.00	
Upper Lateral	C-380 x 100 x 13 x 20	7.30	80	kg	67.30	28,478.00	
Bracing	L-100 x 100 x 10	2.90	80	kg	14.90	2,593.00	
Girder	H-588 x 300 x 12 x 20	13.00	40	kg	147.00	76,440.00	
Deck Plate	2000 x 1000 x 208			m ²		780.00	
Hand Railing				m		260.00	
Wheel Guard				m		260.00	

MATERIAL LIST OF ACCESS ROAD

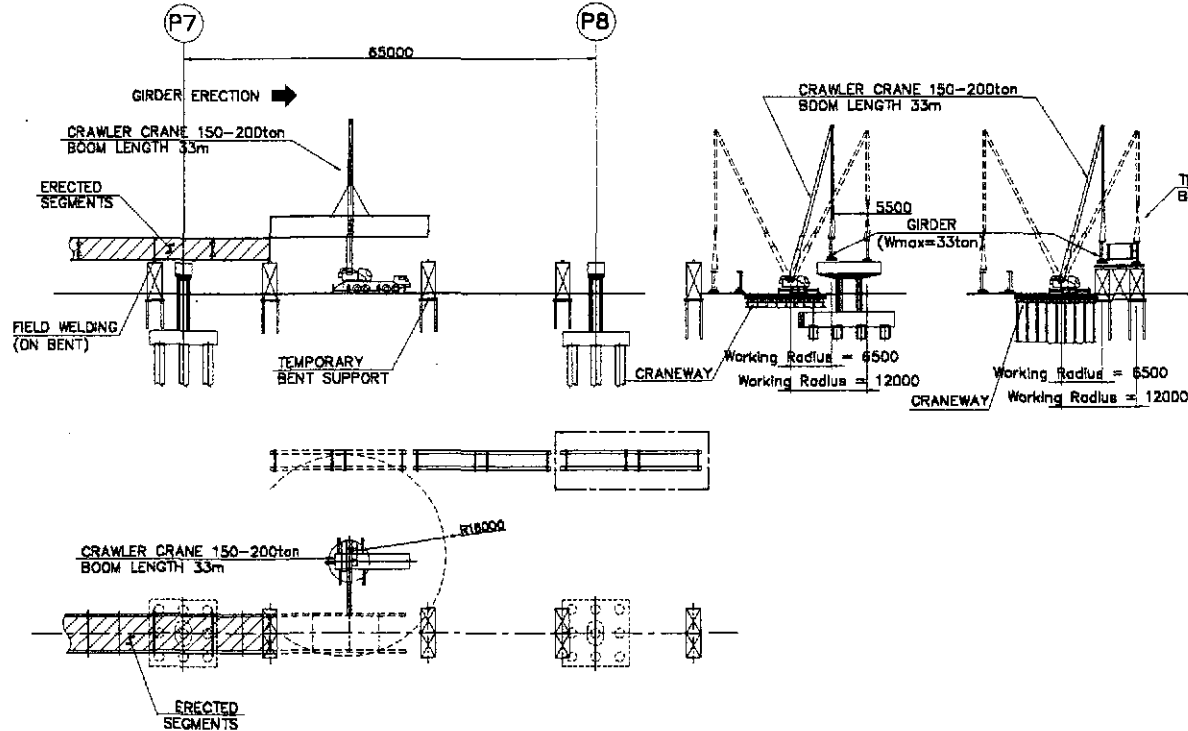
Base Course, t = 200 mm	880.00	m ³	1444.00
Embankment	880.00	m ³	12260.00

	DATE: 10/14/02 DESIGNED: [Signature] CHECKED: [Signature] SUBMITTED: 10/19/02	SIGNATURE: [Signature] DATE: 10/14/02	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BUREAU OF DESIGN OFFICE OF THE SECRETARY	PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE TEMPORARY CRANEWAY BRIDGE AND COFFERDAMS - 2 of 2 (ULTIMATE STAGE)	SHEET NO. : B10M-72
	Submitted By: DANILLO C. TRAJANO Project Director	Reviewed By: ADRIANO M. DOROY Chief, Bridge Division	Recommended By: GILBERTO S. REYES Director IV (OC)	Recommended By: MANUEL M. BONOAN Undersecretary	Approved By: SIMEON A. DATUMANONG Secretary		
	JICA JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL YEO YACHIYO ENGINEERING CO., LTD.						

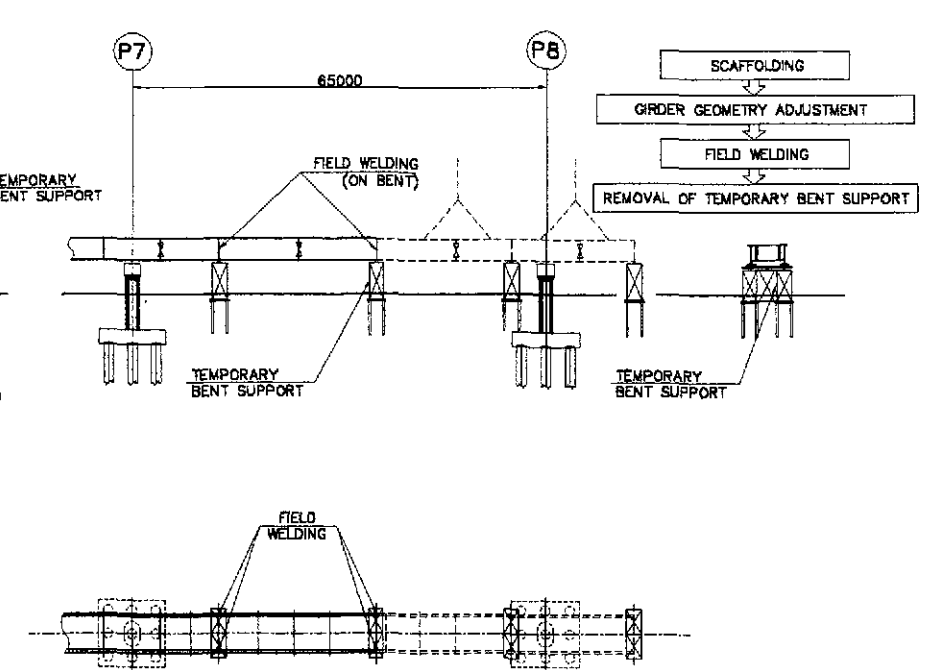
SEQUENCE 1
MAIN GIRDER ASSEMBLY AND TEMPORARY SUPPORT WORKS
SCALE 1:600



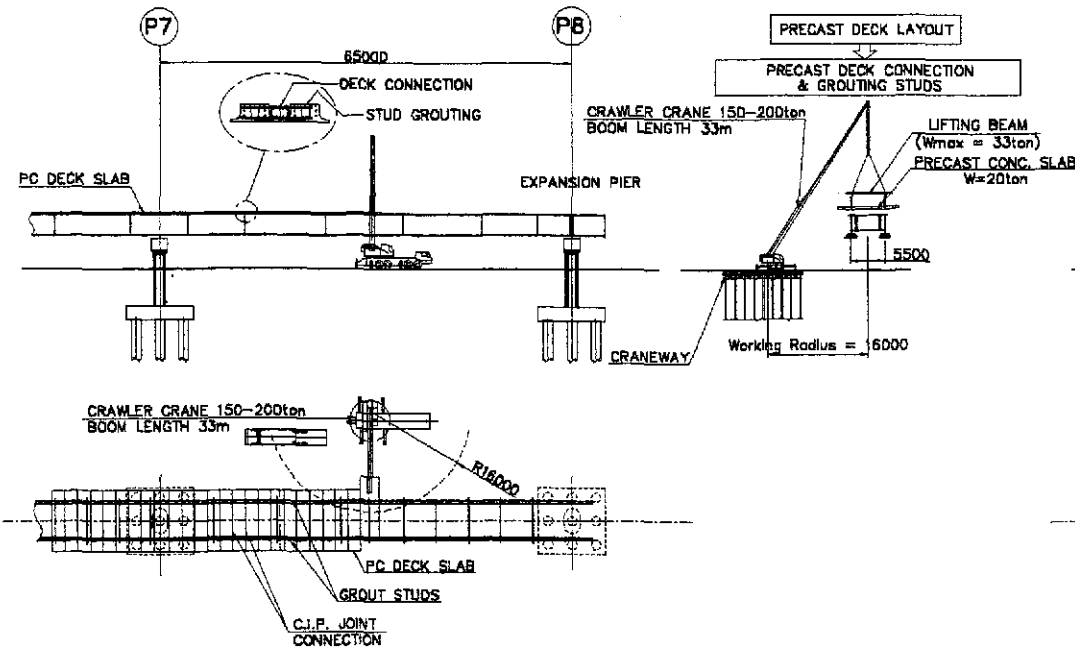
SEQUENCE 2
ERECTION OF MAIN GIRDER
SCALE 1:600



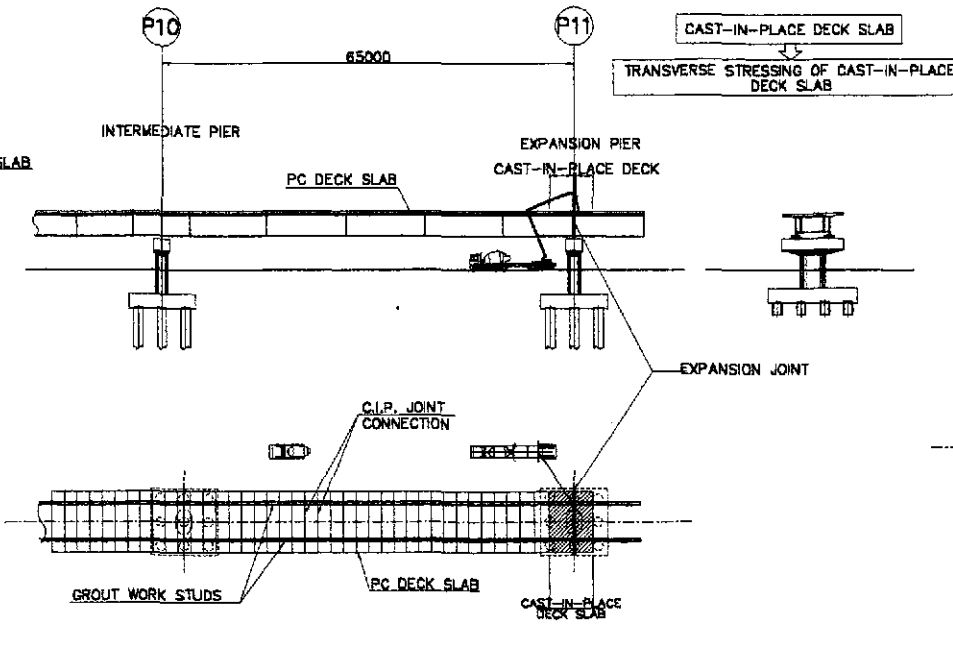
SEQUENCE 3
GEOMETRIC CONTROL AND FIELD WELDING
SCALE 1:600



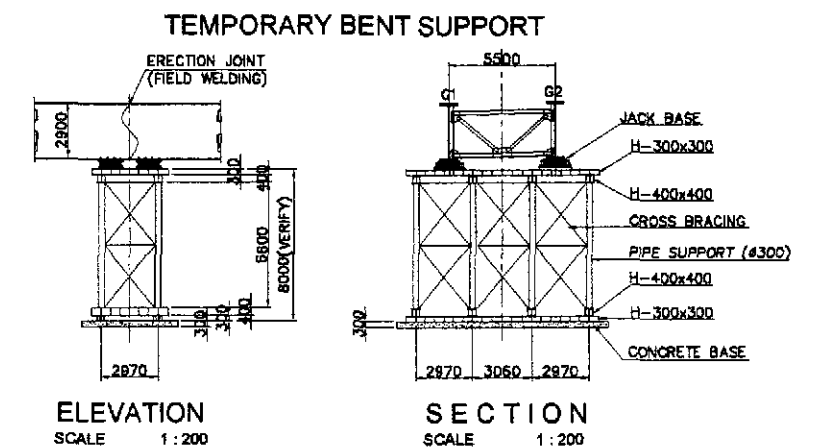
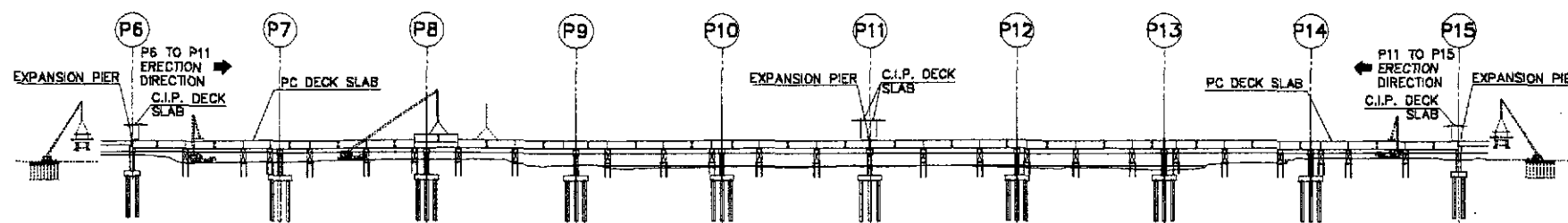
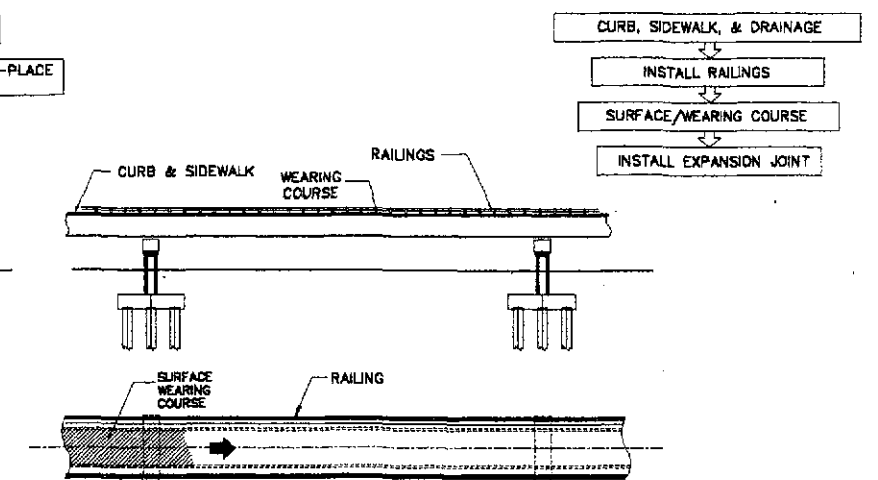
SEQUENCE 4
ERECTION OF PRECAST PC DECKS & DECK CONNECTION
SCALE 1:600



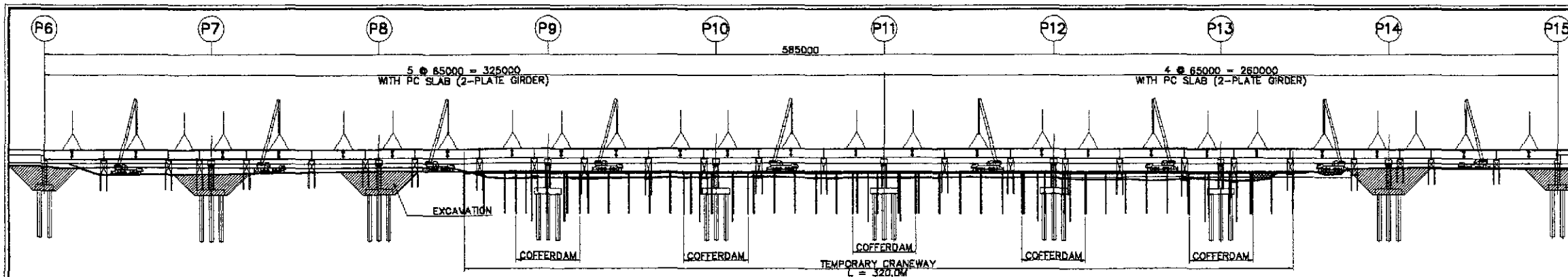
SEQUENCE 5
CAST IN-SITU PC DECKS
SCALE 1:600



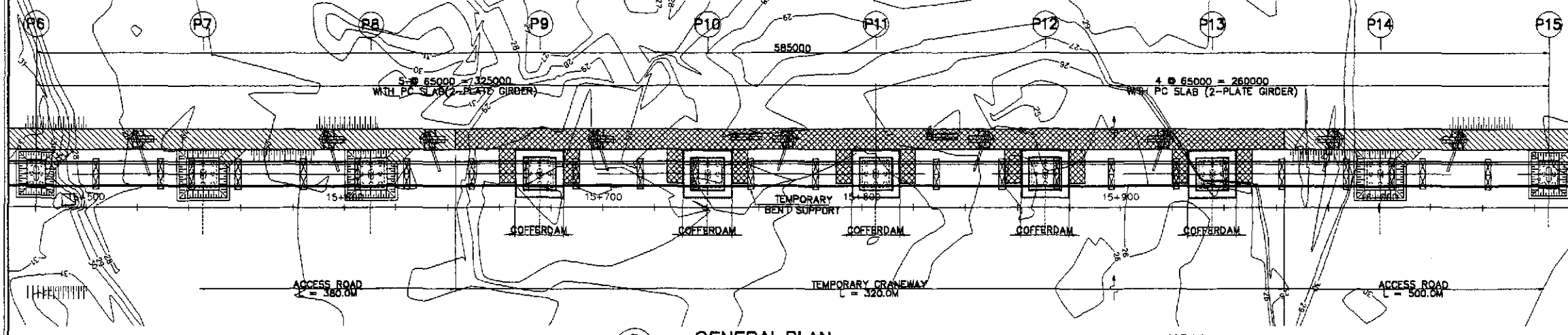
SEQUENCE 6
FINISHING WORKS
SCALE 1:600



	DATE	SIGNATURE	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS			PROJECT AND LOCATION : THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE III	SCALE : AS SHOWN FULL SIZE A1	SHEET CONTENTS : BRIDGE NO. 10 PAMPANGA RIVER BRIDGE CONSTRUCTION SEQUENCE (ULTIMATE STAGE)	SHEET NO. : B10M-73	
	DESIGNED	<i>[Signature]</i>	BUREAU OF DESIGN	OFFICE OF THE SECRETARY	Approved By: <i>[Signature]</i> SWEON A. DATUMANONG Secretary					
	CHECKED	<i>[Signature]</i>	Reviewed By:	Recommended By:						Approved By: <i>[Signature]</i> MANUEL M. BONOAN Undersecretary
	SUBMITTED	<i>[Signature]</i>	DANILO C. TRAJANO Project Director	ADRIANO M. DOROY Chief, Bridge Division						



A GENERAL ELEVATION
SCALE 1:1000

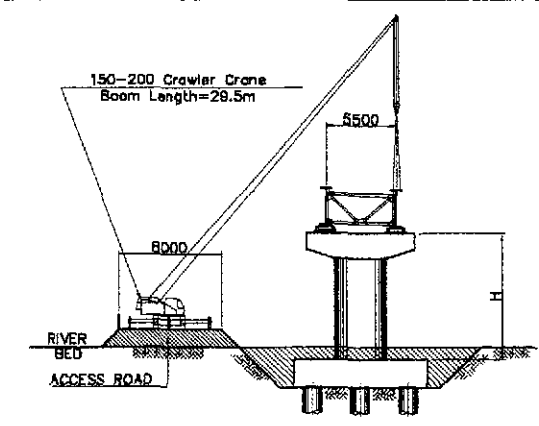


B GENERAL PLAN
SCALE 1:1000

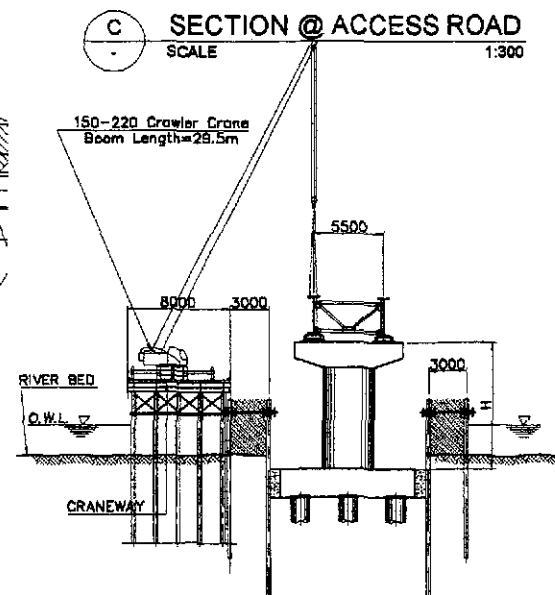
CONSTRUCTION SCHEDULE OF PAMPANGA RIVER BRIDGE
BRIDGE LENGTH = 1125m (6@30 + 5@65 + 4@65 + 6@30 + 6@30)

ITEM NO.	WORK ITEMS	QTY.	UNIT	MONTH - YEAR 1												MONTH - YEAR 2												MONTH - YEAR 3			
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1.0	MOBILIZATION AND PREPARATORY WORKS	1	LDT	[Gantt chart bars]																											
2.0	ERECTION OF TEMPORARY FACILITIES AND PLANTS	1	LOT	[Gantt chart bars]																											
3.0	CONSTRUCTION OF APPROACH SPANS			[Gantt chart bars]																											
3.1	MANILA SIDE (6 @ 30)			[Gantt chart bars]																											
3.1.1	CONSTRUCTION OF ACCESS ROAD	1880	Sq.M.	[Gantt chart bars]																											
3.1.2	ABUTMENT 1	1	UNIT	[Gantt chart bars]																											
3.1.3	BORED PILE CONSTRUCTION	570	LM	[Gantt chart bars]																											
3.1.4	CONSTRUCTION OF PILE CAP	5	PCS	[Gantt chart bars]																											
3.1.5	CONSTRUCTION OF COLUMNS	3	PCS	[Gantt chart bars]																											
3.1.6	CONSTRUCTION OF COPINGS	5	PCS	[Gantt chart bars]																											
3.1.7	FABRICATION OF PC AASHTO GIRDERS	24	PCS	[Gantt chart bars]																											
3.1.8	LAUNCHING OF PC AASHTO GIRDERS	24	PCS	[Gantt chart bars]																											
3.1.9	DECK SLAB WORKS	1737	Sq.M.	[Gantt chart bars]																											
3.2	SAN JOSE SIDE (6 @ 30 + 6 @ 30)			[Gantt chart bars]																											
3.2.1	CONSTRUCTION OF ACCESS ROAD	1	UNIT	[Gantt chart bars]																											
3.2.2	ABUTMENT 2	1056	L.M.	[Gantt chart bars]																											
3.2.3	BORED PILE CONSTRUCTION	11	PCS	[Gantt chart bars]																											
3.2.4	CONSTRUCTION OF PILE CAP	11	PCS	[Gantt chart bars]																											
3.2.5	CONSTRUCTION OF COLUMNS	11	PCS	[Gantt chart bars]																											
3.2.6	CONSTRUCTION OF COPING	11	PCS	[Gantt chart bars]																											
3.2.7	FABRICATION OF PC AASHTO GIRDERS	48	PCS	[Gantt chart bars]																											
3.2.8	LAUNCHING OF PC AASHTO GIRDERS	48	PCS	[Gantt chart bars]																											
3.2.9	DECK SLAB WORKS	116	Sq.M.	[Gantt chart bars]																											
4.0	MAIN SPAN (5 @ 65 + 4 @ 65)			[Gantt chart bars]																											
4.1	CONSTRUCTION OF ACCESS ROAD AND CRANEWAY	5460	Sq.M.	[Gantt chart bars]																											
4.2	BORED PILE CONSTRUCTION	1512	L.M.	[Gantt chart bars]																											
4.3	CONSTRUCTION OF PILE CAP	10	PCS	[Gantt chart bars]																											
4.4	CONSTRUCTION OF COLUMNS	10	PCS	[Gantt chart bars]																											
4.5	CONSTRUCTION OF COPING	10	PCS	[Gantt chart bars]																											
4.6	FABRICATION OF STEEL PLATE GIRDERS	1170	L.M.	[Gantt chart bars]																											
4.7	FABRICATION OF PC DECK SLAB	5645	Sq.M.	[Gantt chart bars]																											
4.8	LAUNCHING OF STEEL PLATE GIRDERS	1170	L.M.	[Gantt chart bars]																											
4.9	LAUNCHING OF PC DECK SLAB & JOINT CONCRETING	5645	Sq.M.	[Gantt chart bars]																											
4.10	CAST-IN-PLACE SLAB	320	Cu.M.	[Gantt chart bars]																											
4.11	MISCELLANEOUS WORKS			[Gantt chart bars]																											
5.0	RAILING WORKS			[Gantt chart bars]																											
5.1	MANILA SIDE RAILING CONSTRUCTION	360	L.M.	[Gantt chart bars]																											
5.2	SAN JOSE SIDE RAILING CONSTRUCTION	520	L.M.	[Gantt chart bars]																											
5.3	MAIN SPAN RAILING INSTALLATION	1170	L.M.	[Gantt chart bars]																											
6.0	BRIDGE SURFACE WORKS			[Gantt chart bars]																											
6.1	ASPHALT OVERLAY - MANILA SIDE	1485	Sq.M.	[Gantt chart bars]																											
6.2	ASPHALT OVERLAY - SAN JOSE SIDE	2870	Sq.M.	[Gantt chart bars]																											
6.3	ASPHALT OVERLAY - MAIN SPAN	4827	Sq.M.	[Gantt chart bars]																											
7.0	RIVER AND PIER PROTECTION WORKS	1	LOT	[Gantt chart bars]																											
8.0	FINISHING WORKS/MISCELLANEOUS	1	LOT	[Gantt chart bars]																											
9.0	CLEANING AND DEMOBILIZATION	1	LOT	[Gantt chart bars]																											

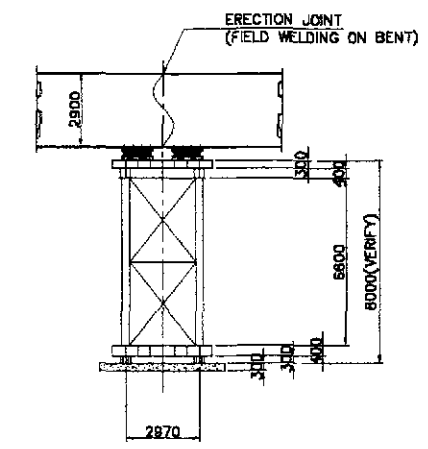
NOTE :
THIS CONSTRUCTION SCHEDULE IS USED FOR REFERENCE ONLY. THE CONTRACTOR SHOULD PREPARE A MORE DETAILED CONSTRUCTION SCHEDULE CONSIDERING PLANT CAPACITIES, EQUIPMENT CAPACITY, AVAILABILITY, LABOR CONDITIONS, CLIMATE, WORKING DAYS, ETC. FOR THE APPROVAL OF THE ENGINEER.



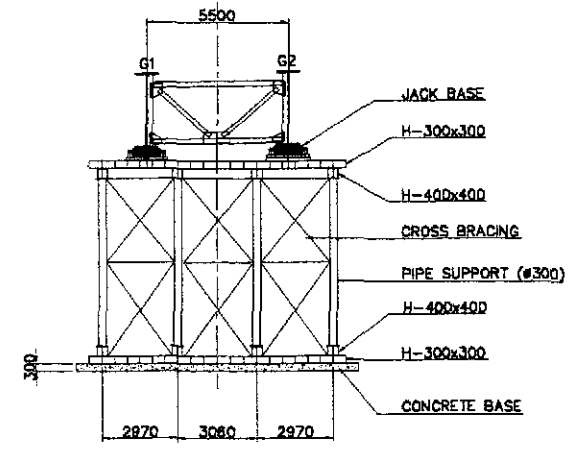
C SECTION @ ACCESS ROAD
SCALE 1:300



D SECTION @ CRANEWAY
SCALE 1:300



ELEVATION



SECTION

LEGEND :
 - COFFERDAM
 - CRANEWAY
 - ACCESS ROAD

E TEMPORARY BENT SUPPORT
SCALE 1:150

NOTE :
FOR COFFERDAM DETAILS SEE DWG. NOS. B10M-71 & B10M-72

ITEM NO.	DESCRIPTION	UNIT	INITIAL STAGE	ULTIMATE STAGE	TOTAL
SPL B.4a	CRANEWAY/JETTY (8.0 m WIDTH)	l.m.	320	320	640
SPL B.4b	CRANEWAY/JETTY (6.0 m WIDTH)	l.m.	130	130	260
SPL B.4c	ACCESS ROAD (8.0 m WIDTH)	l.m.	880	880	1760

JICA
JAPAN INTERNATIONAL COOPERATION AGENCY

KAI KATAHIRA & ENGINEERS INTERNATIONAL
YEO YACHIYO ENGINEERING CO., LTD.

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

DESIGNED: [Signature]
CHECKED: [Signature]
SUBMITTED: [Signature]

PROJECT DIRECTOR: DANILLO C. TRAJANO
Chief, Bridge Division

REVIEWED BY: ADRIANO M. DORCY (Chief, Bridge Division), GILBERTO S. REYES (Director IV (OC)), MANUEL M. BONDAN (Undersecretary), SIMEDON A. DATUMANONG (Secretary)

PROJECT AND LOCATION :
THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)
CABANATUAN BYPASS - CONTRACT PACKAGE III

SCALE : AS SHOWN / FULL SIZE A1

SHEET CONTENTS :
BRIDGE NO. 10 PAMPANGA RIVER BRIDGE CONSTRUCTION PLAN, ELEVATION AND SCHEDULE (ULTIMATE STAGE)

SHEET NO. : **B10M-74**