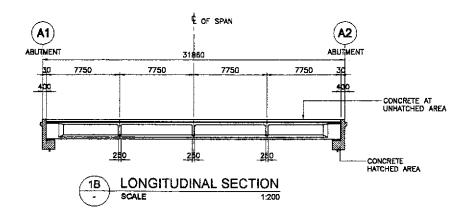


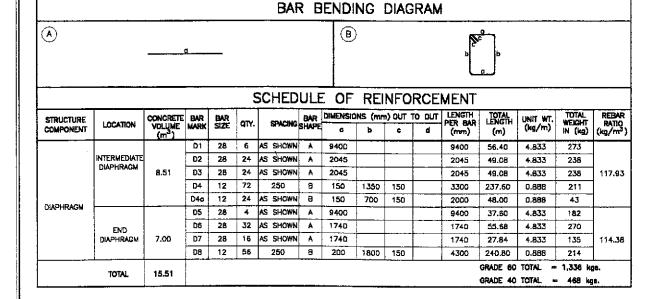
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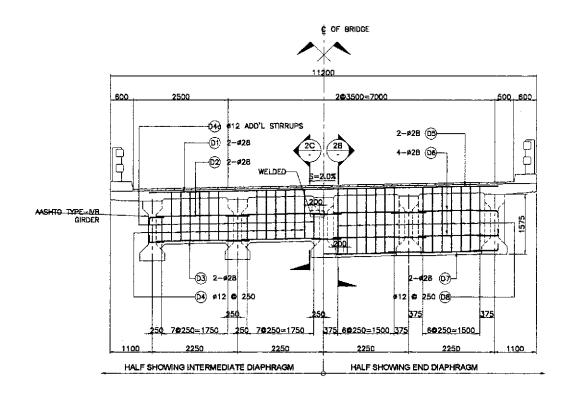
- CONCRETE AT HATCHED AREAS SHALL BE PLACED AT LEAST TWENTY ONE (21) DAYS AHEAD OF CONCRETE AT UNHATCHED AREAS.
- SEE GIRDER DETAIL FOR SPACING OF #28 DOWELS.



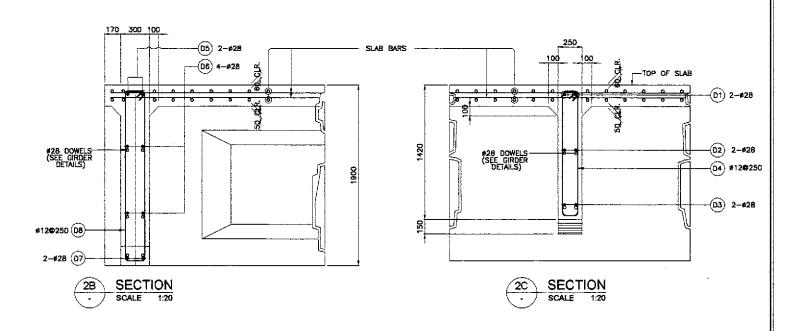


CONCRETE POURING SEQUENCE 1: 200



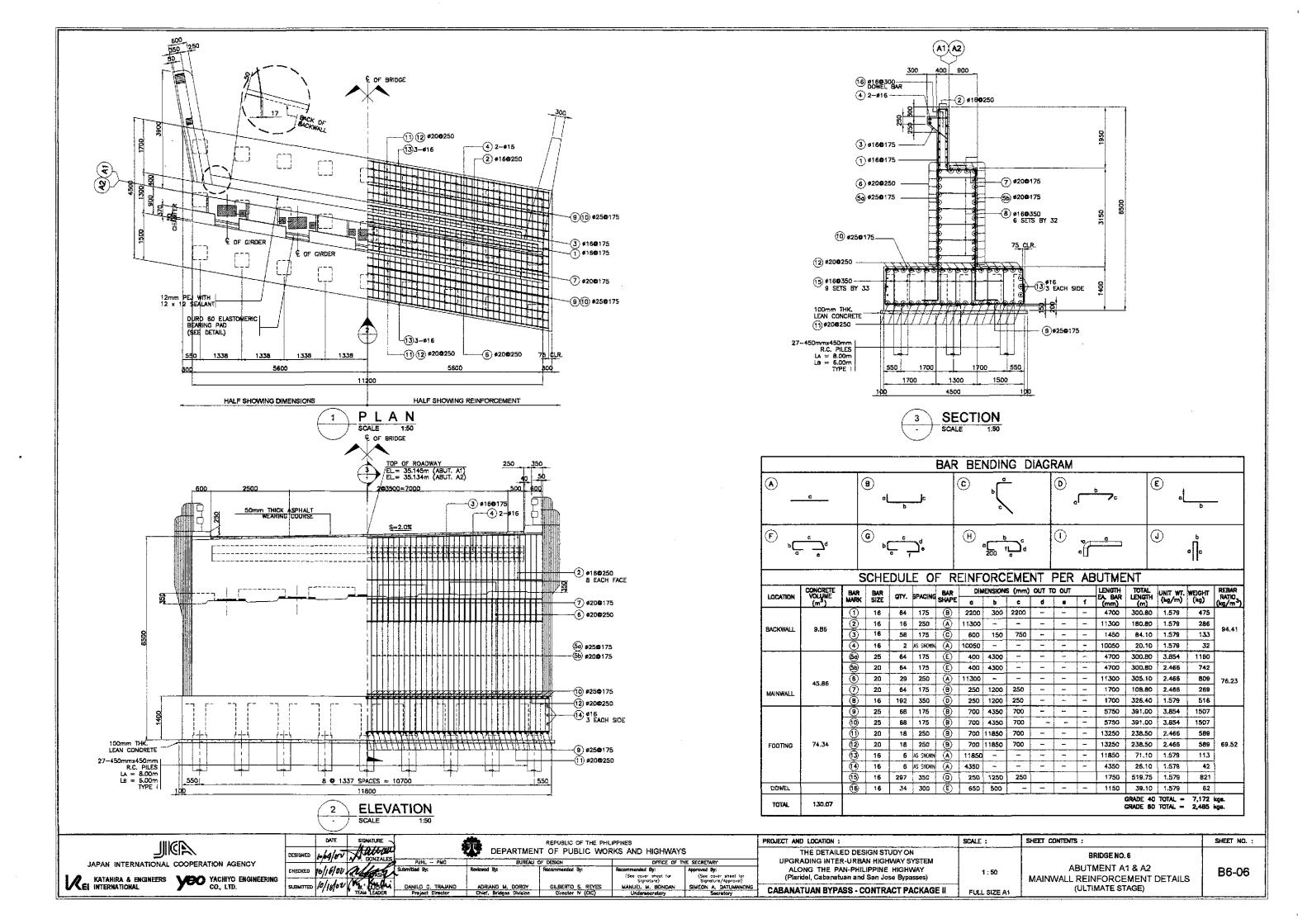


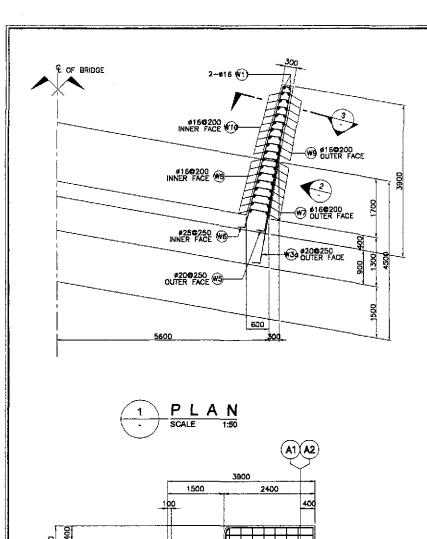


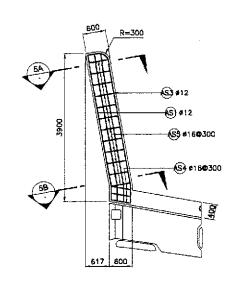


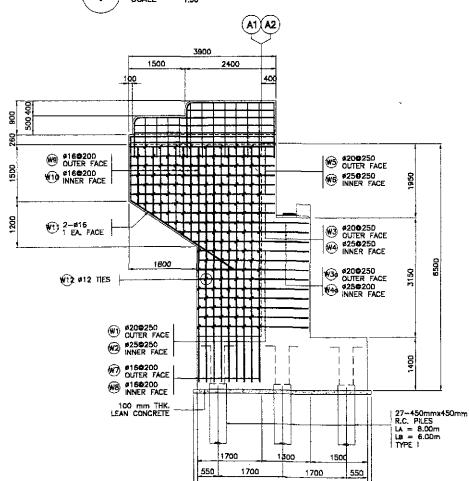
2 DETAIL OF END & INTERMEDIATE DIAPHRAGM - SCALE AS SHOWN



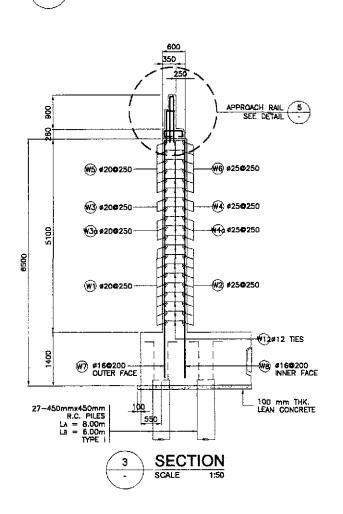




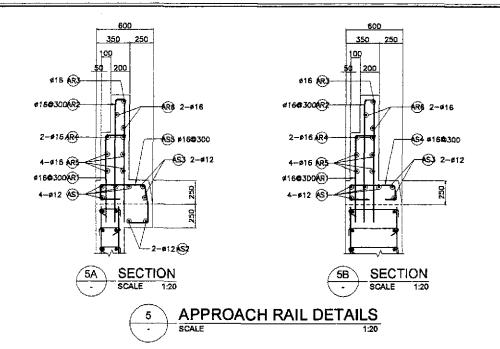


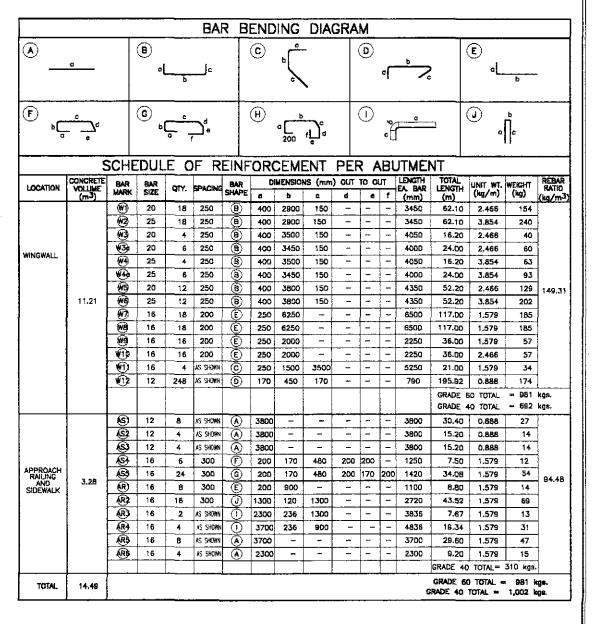


WINGWALL ELEVATION



SIDEWALK DETAIL

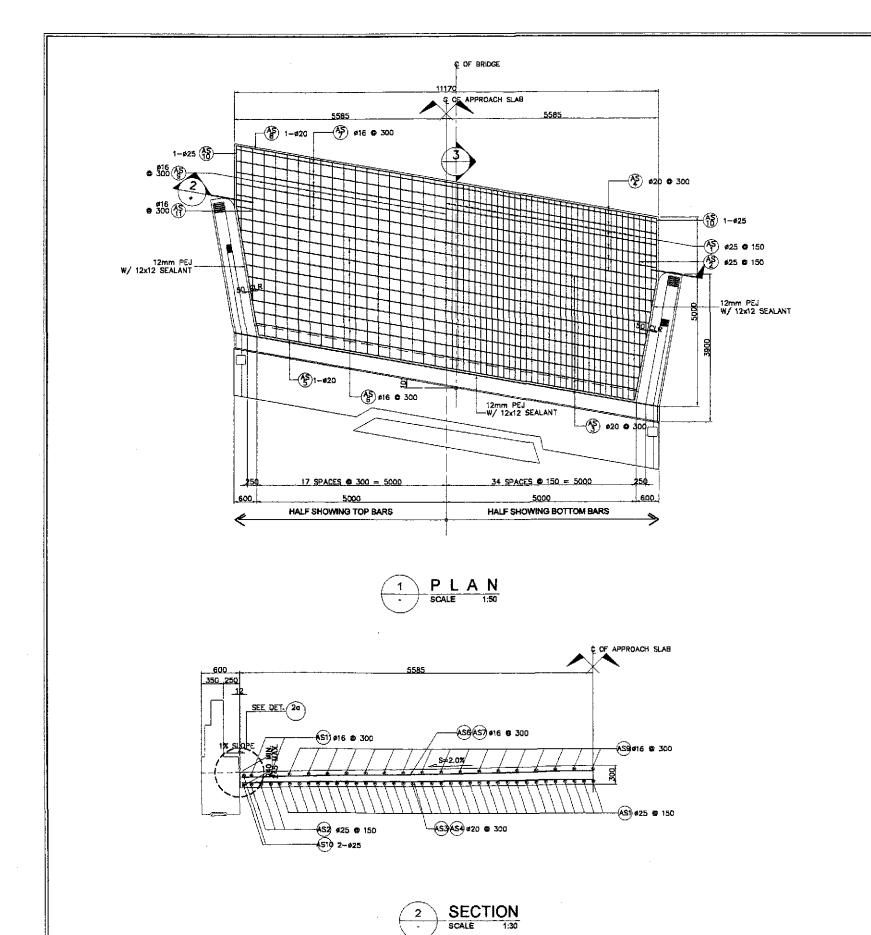


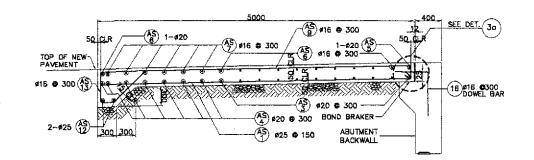




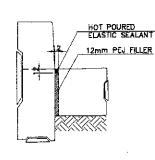
	ESIGNED	DATE 0 6 4 02	SIGNATURE		DEPARTMEN	REPUBLIC OF THE PHIL T OF PUBLIC WOR	IPPINES RKS AND HIGHWAYS	6
[CHECKED	10/16/02	solfethe	PJHL — PMO Submitted By:	BUREAU (Reviewed By:	F DESKSN Recommended By:	Recommended By: (See cover sheet for	Approved By: (See cover sheet for
5	UBMITTED	10/18/02	TEAN LEADER	DANILO C. TRAJANO Project Director	ADRIANO M. DOROY Chief, Bridges Division	GILBERTO S. REYES Director IV (CIC)	Signoture) MANUEL M. BONOAN Undersacratory	Signature/Approval) SIMEON A. DATUMANONG Secretary

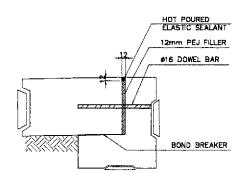
ROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM	_	BRIDGE NO. 6	
ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)	AS SHOWN	ABUTMENT A1 & A2 WINGWALL REINFORCEMENT DETAILS	B6-07
CARANATUAN BYPASS - CONTRACT PACKAGE II	E. K. I. 617E A4	(ULTIMATE STAGE)	





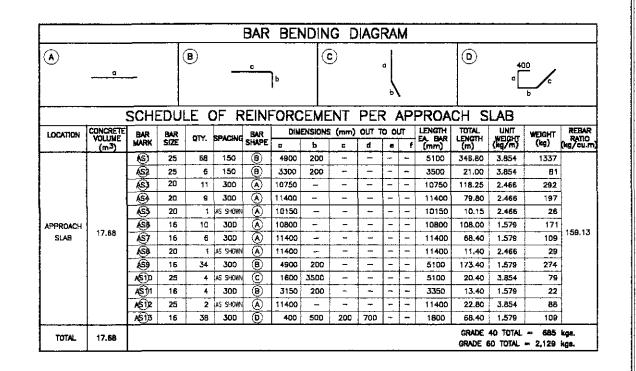


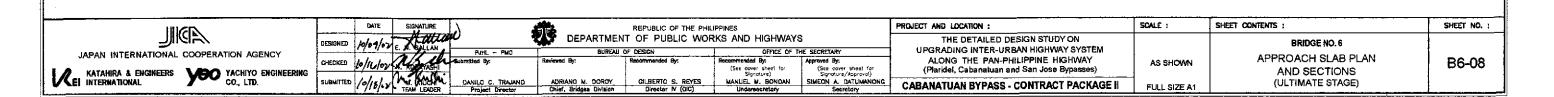


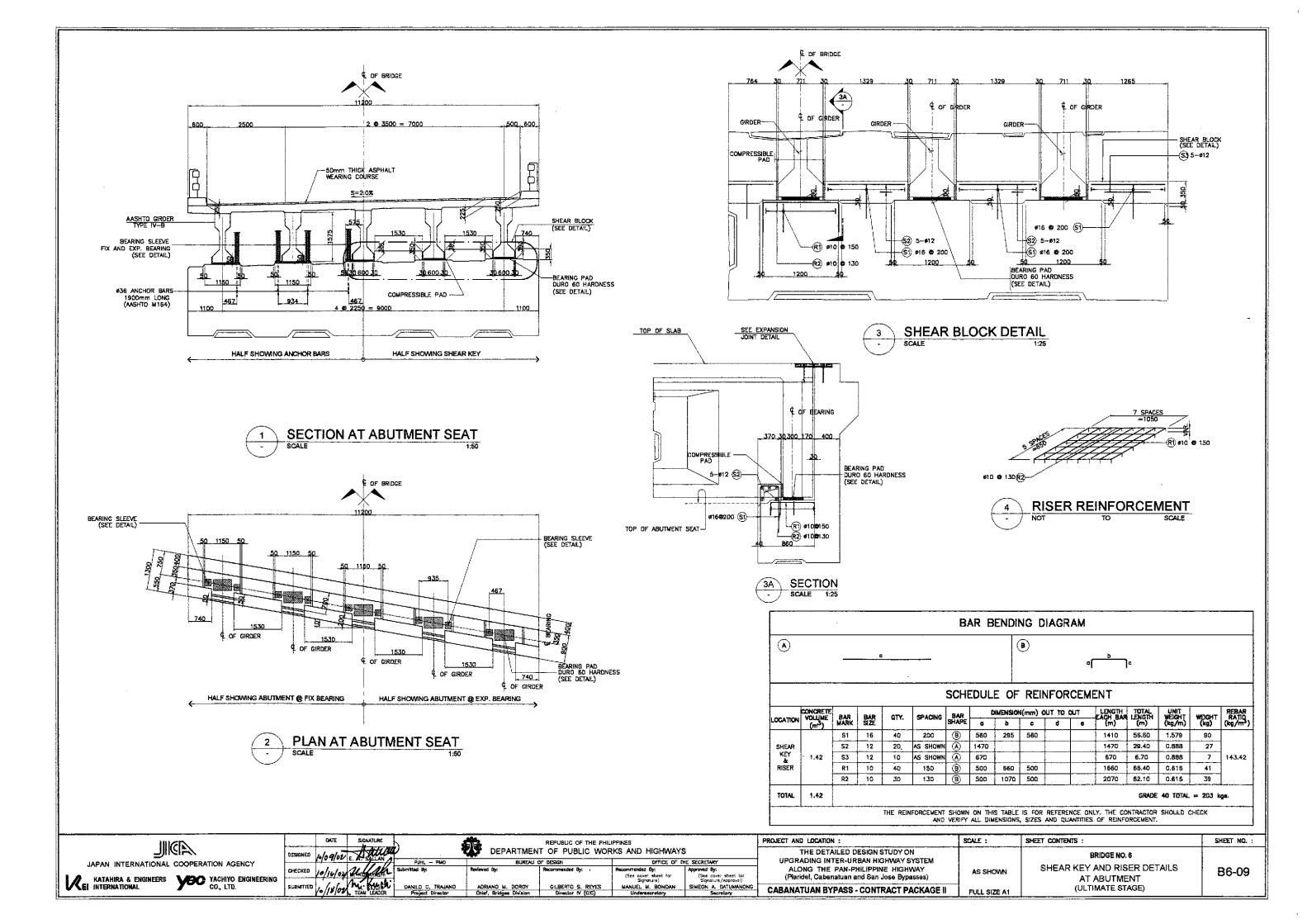


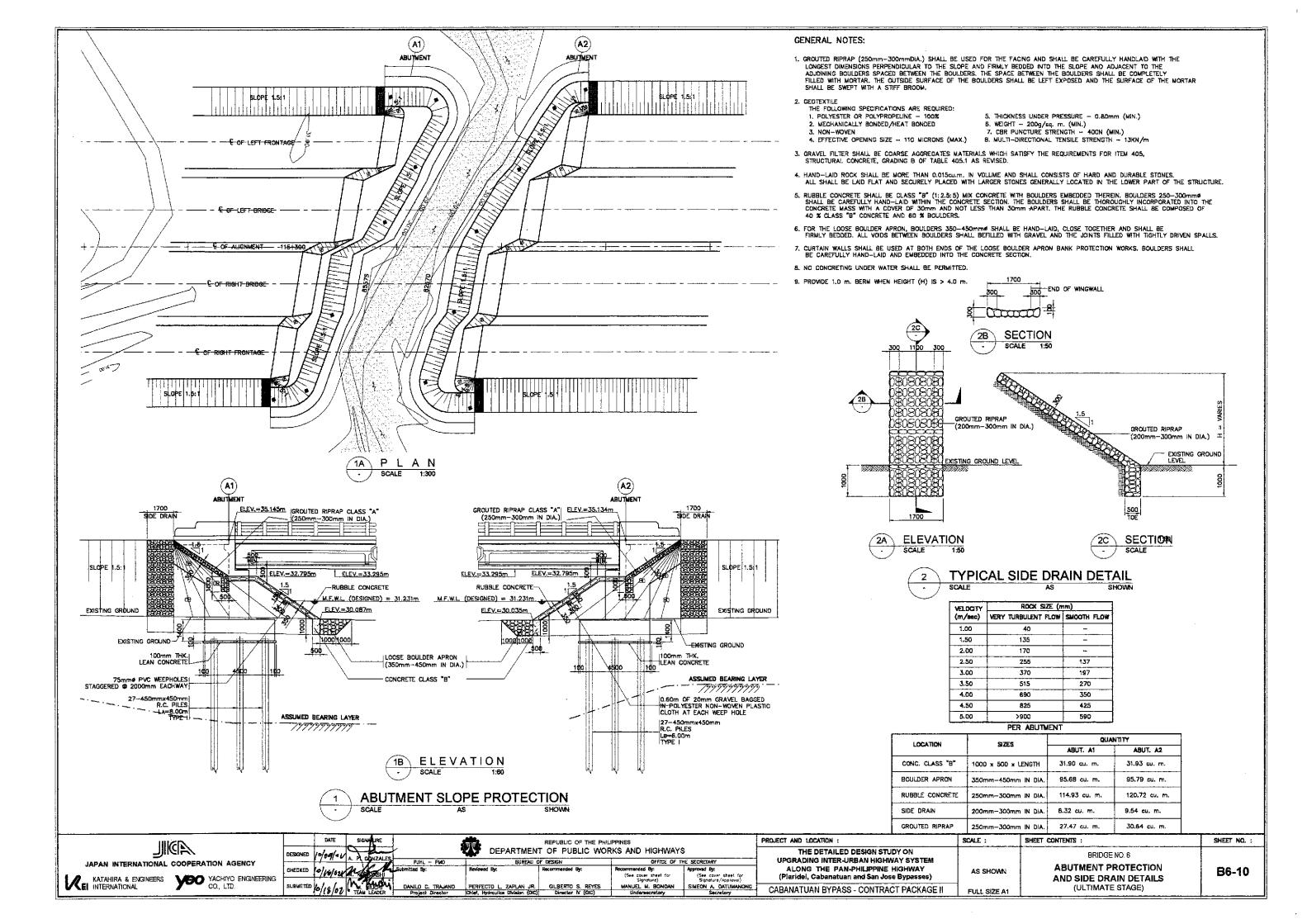


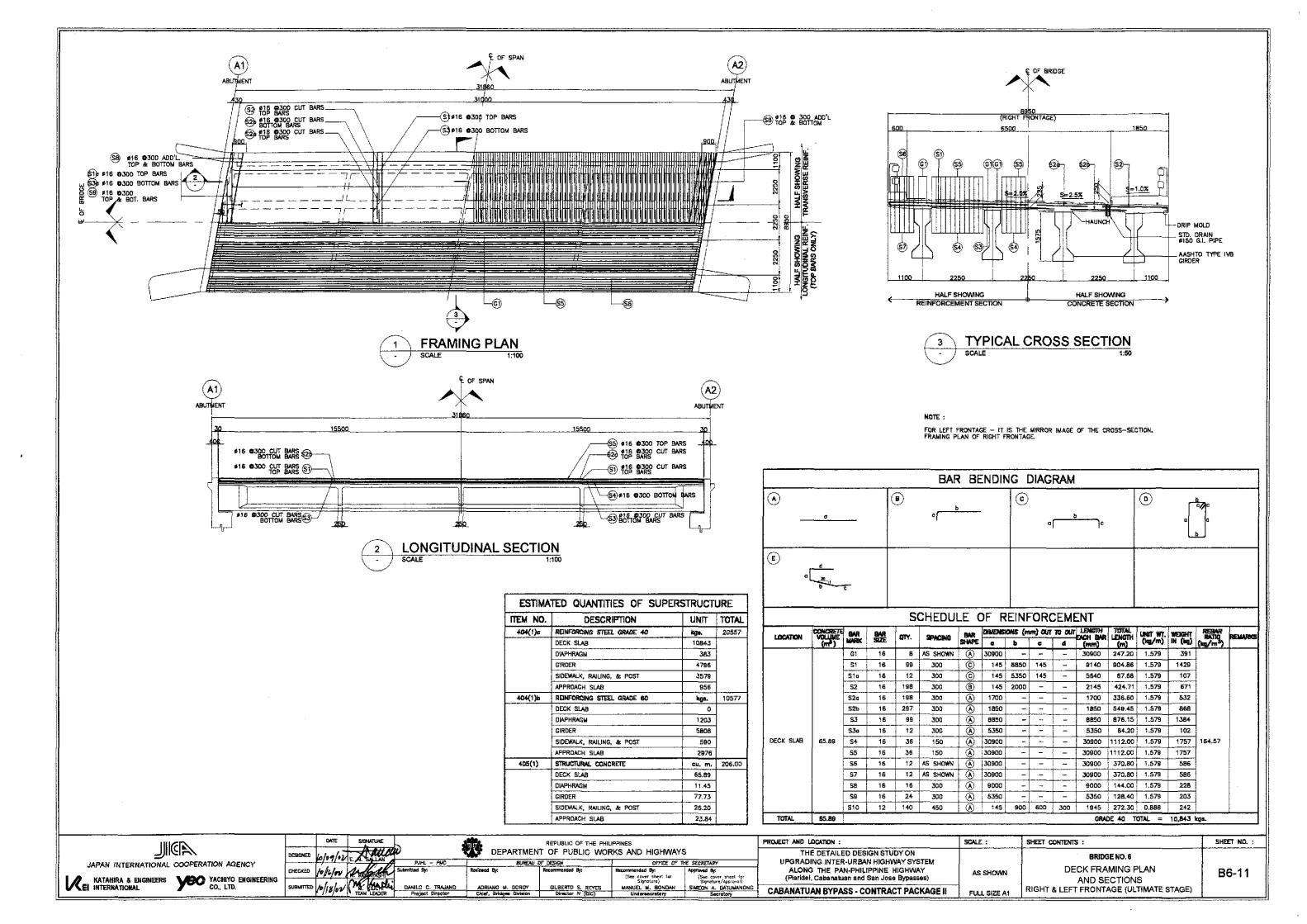


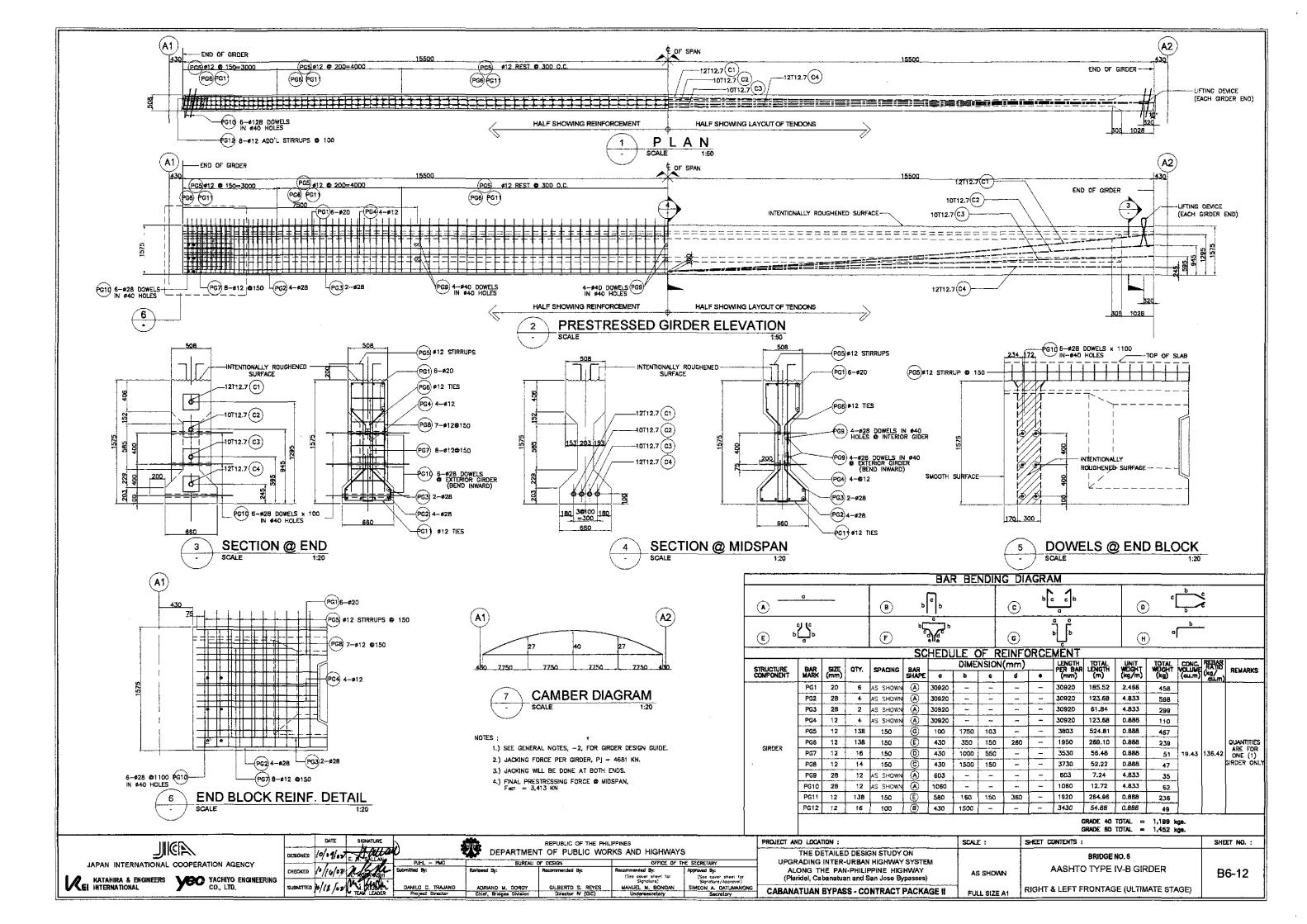


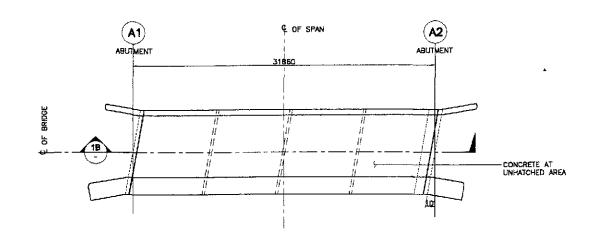








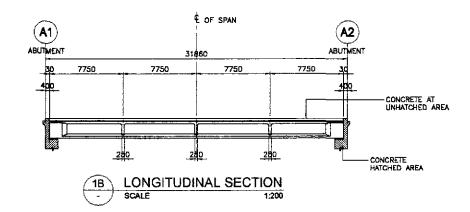




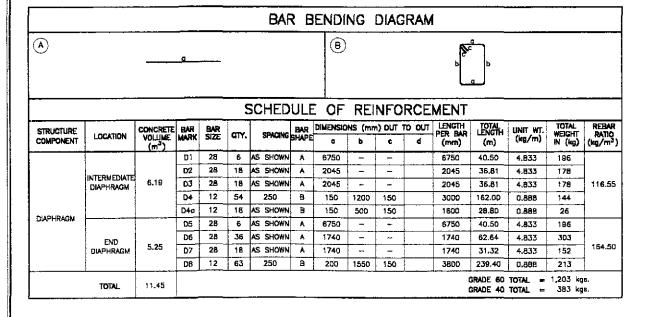
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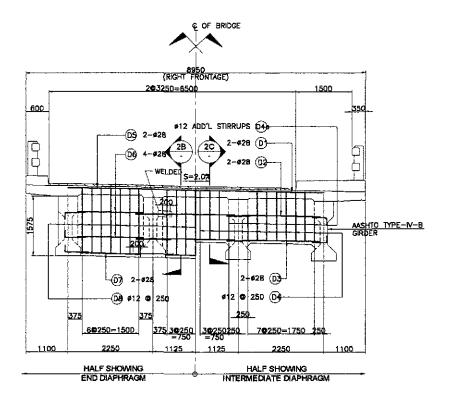
- CONCRETE AT HATCHED AREAS SHALL
 BE PLACED AT LEAST TWENTY ONE (21) DAYS
 AHEAD OF CONDRETE AT UNHATCHED AREAS.
- 2. SEE GIRDER DETAIL FOR SPACING OF #28 DOWELS.



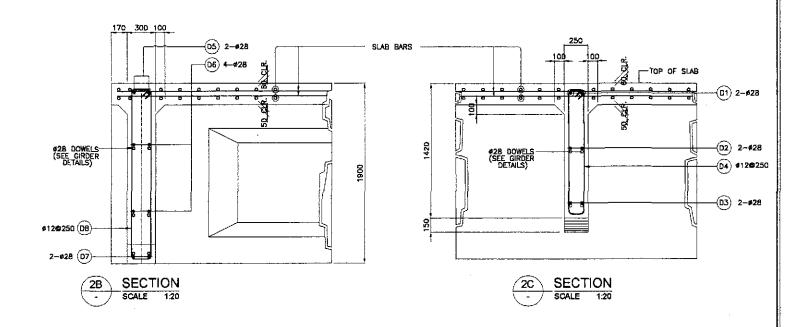


CONCRETE POURING SEQUENCE 1:200





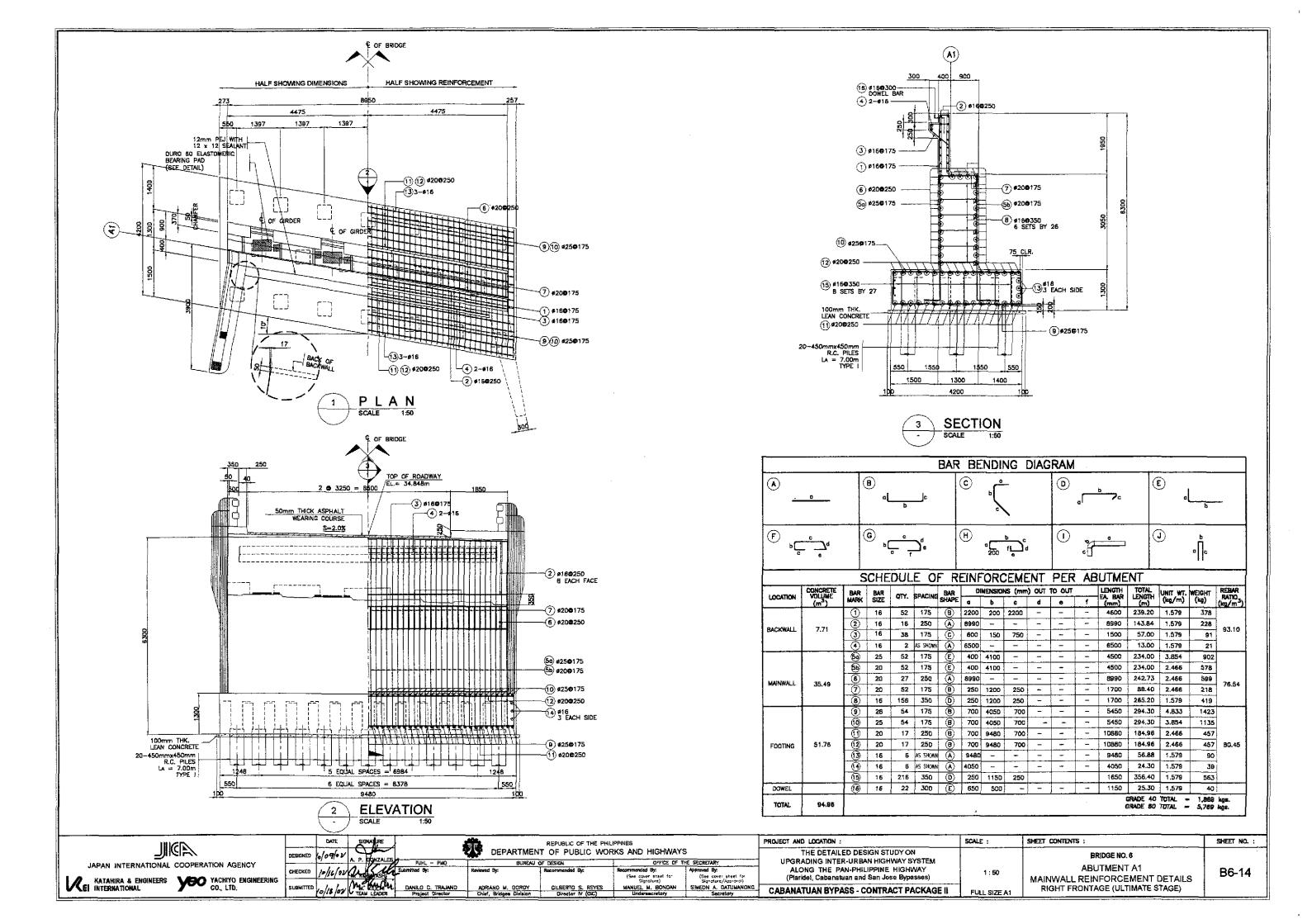
2A ELEVATION SCALE 1:50

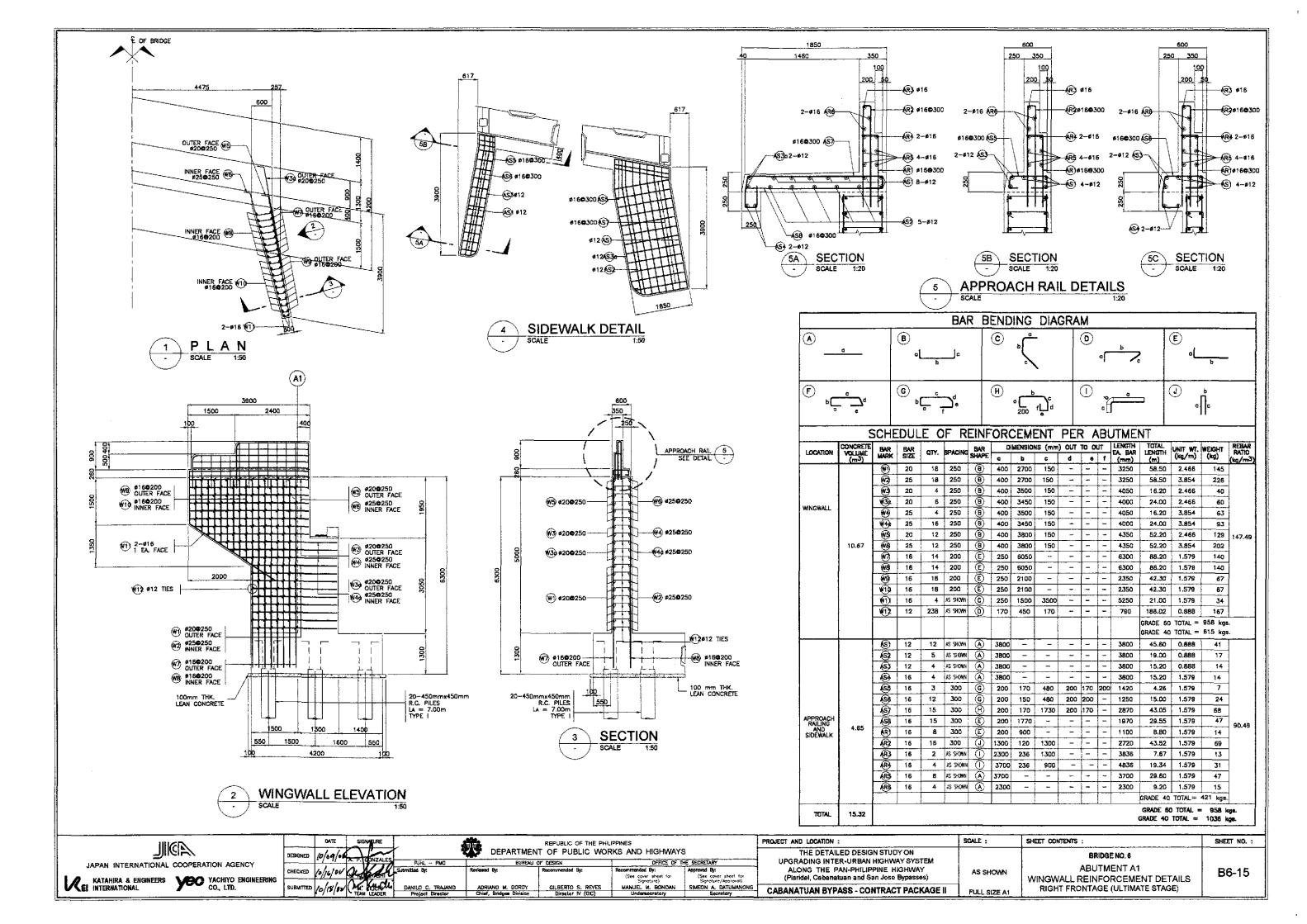


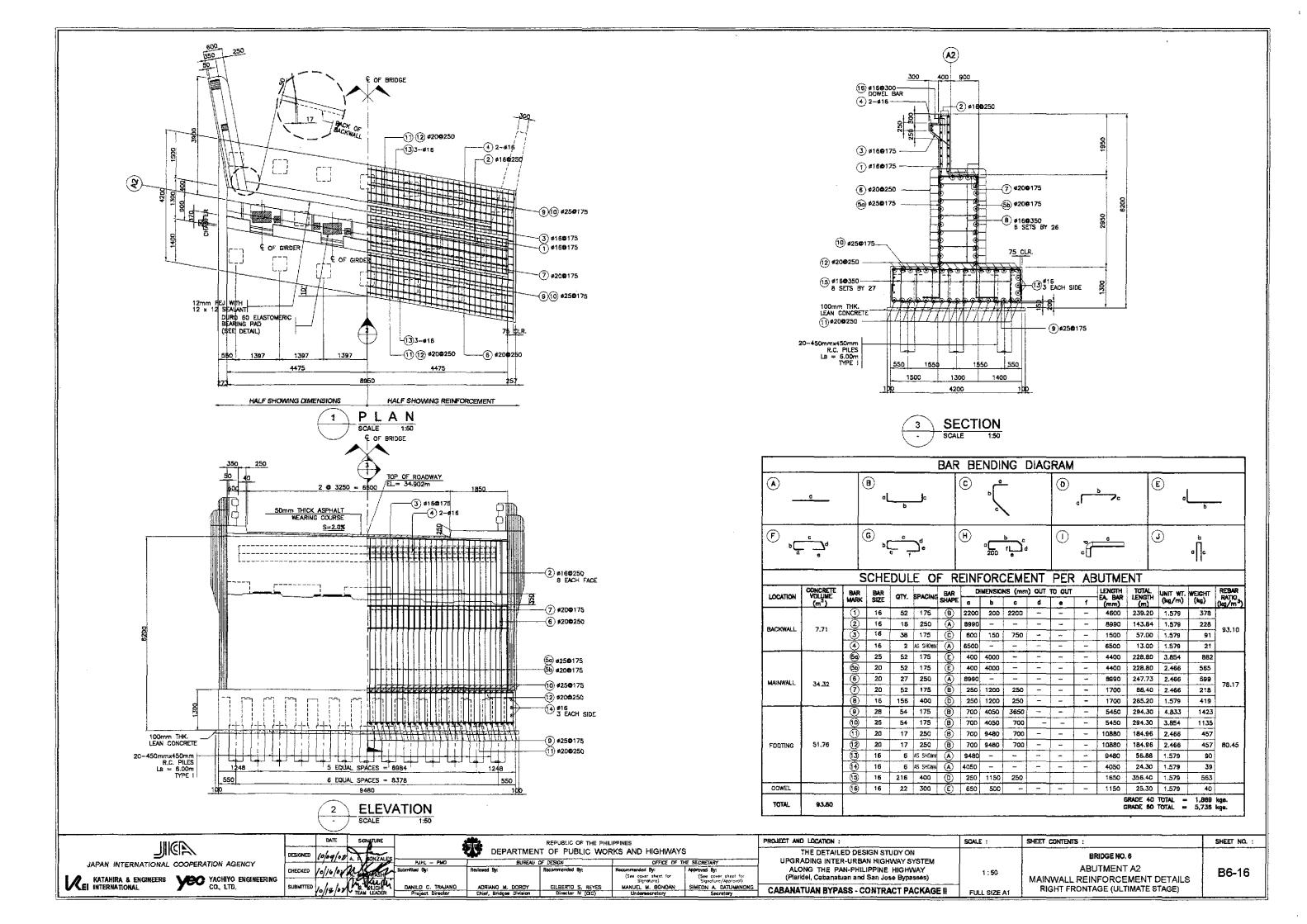
2 DETAIL OF END & INTERMEDIATE DIAPHRAGM
- SCALE AS SHOWN

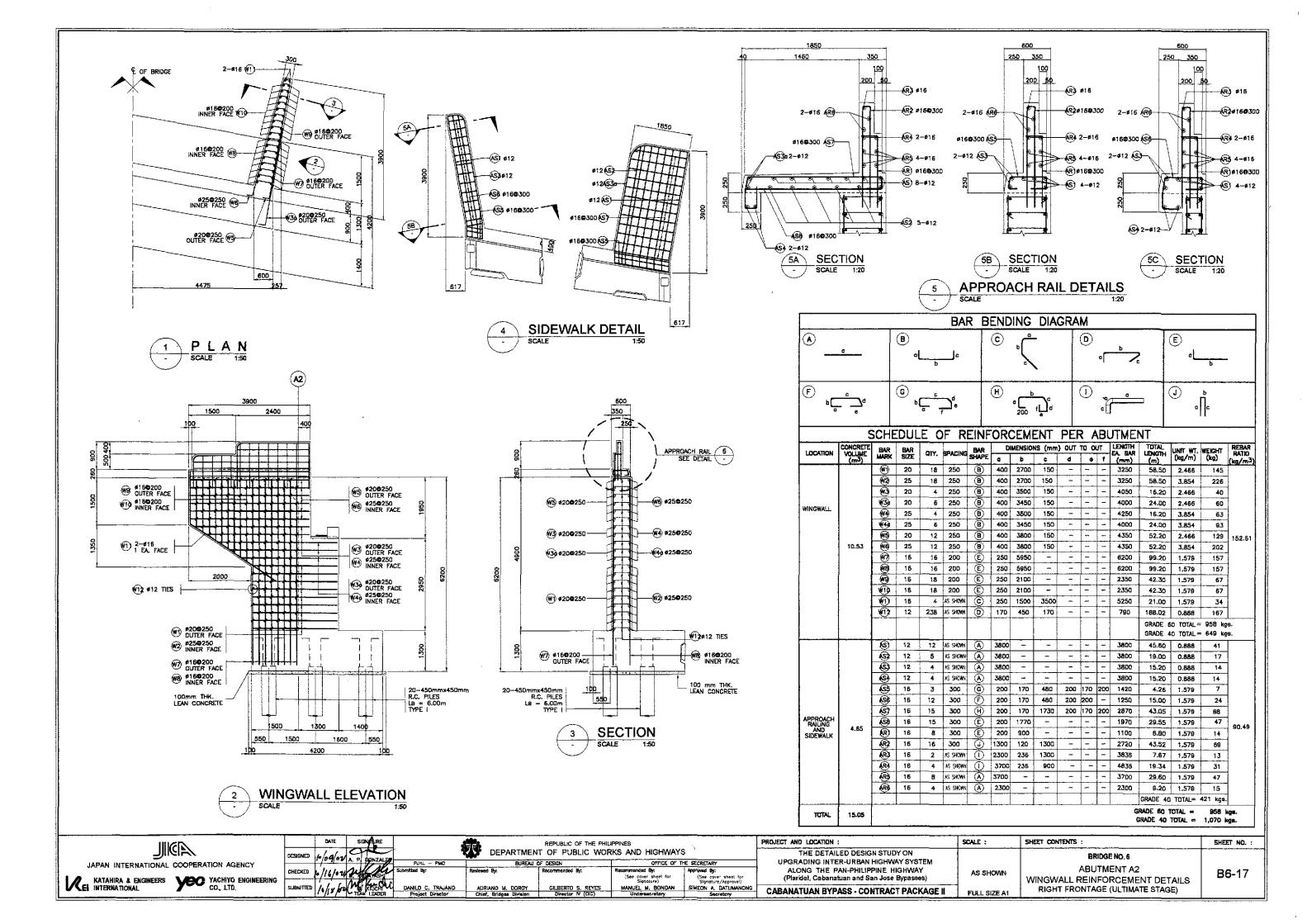
NOTE: FOR LEFT FRONTAGE — IT IS THE MIRROR IMAGE OF THE PLAN, ELEVATION OF RIGHT FRONTAGE.

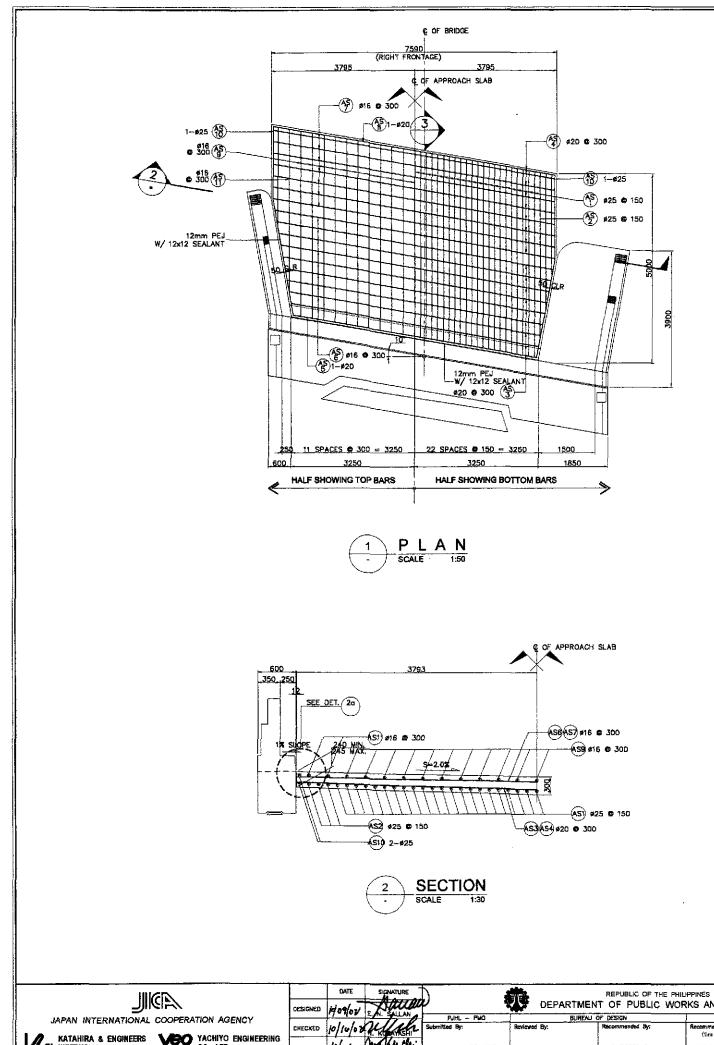
DINGES L	DATE	SIGNATURE		REPUBLIC OF THE PHI			PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	SIGNED (-/04/	102 E. A. SALAN		IT OF PUBLIC WOL			THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM		BRIDGE NO. 6	
	HECKED O/6/s	Submitted By:	Reviewed By:	OF DESIGN Reconstrended By:	Recommended By:	THE SECRETARY Approved By:	ALONG THE PAN-PHILIPPINE HIGHWAY	AS SHOWN	CONCRETE POURING SEQUENCE	B6-13
KATAHIRA & ENGINEERS YEO YACHIYO ENGINEERING SU	JENITTED /p/s/s	AN PAR CHACLE BANKO C. TRAJANG	ADRIAND M. DOROY	GILBERTO S. REVES	(See cover sheet for Signature) MANUEL M. BONDAN	(See cover sheet for Signature/Approval) SIMEON A DATUMANONG	(Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE II	FULL SIZE A1	AND DIAPHRAGM DETAILS RIGHT & LEFT FRONTAGE (ULTIMATE STAGE)	

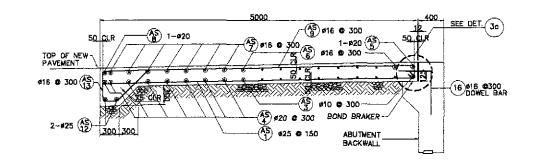




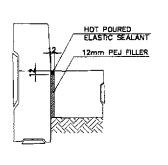


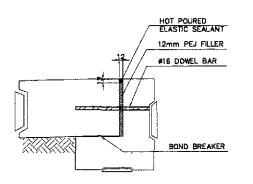










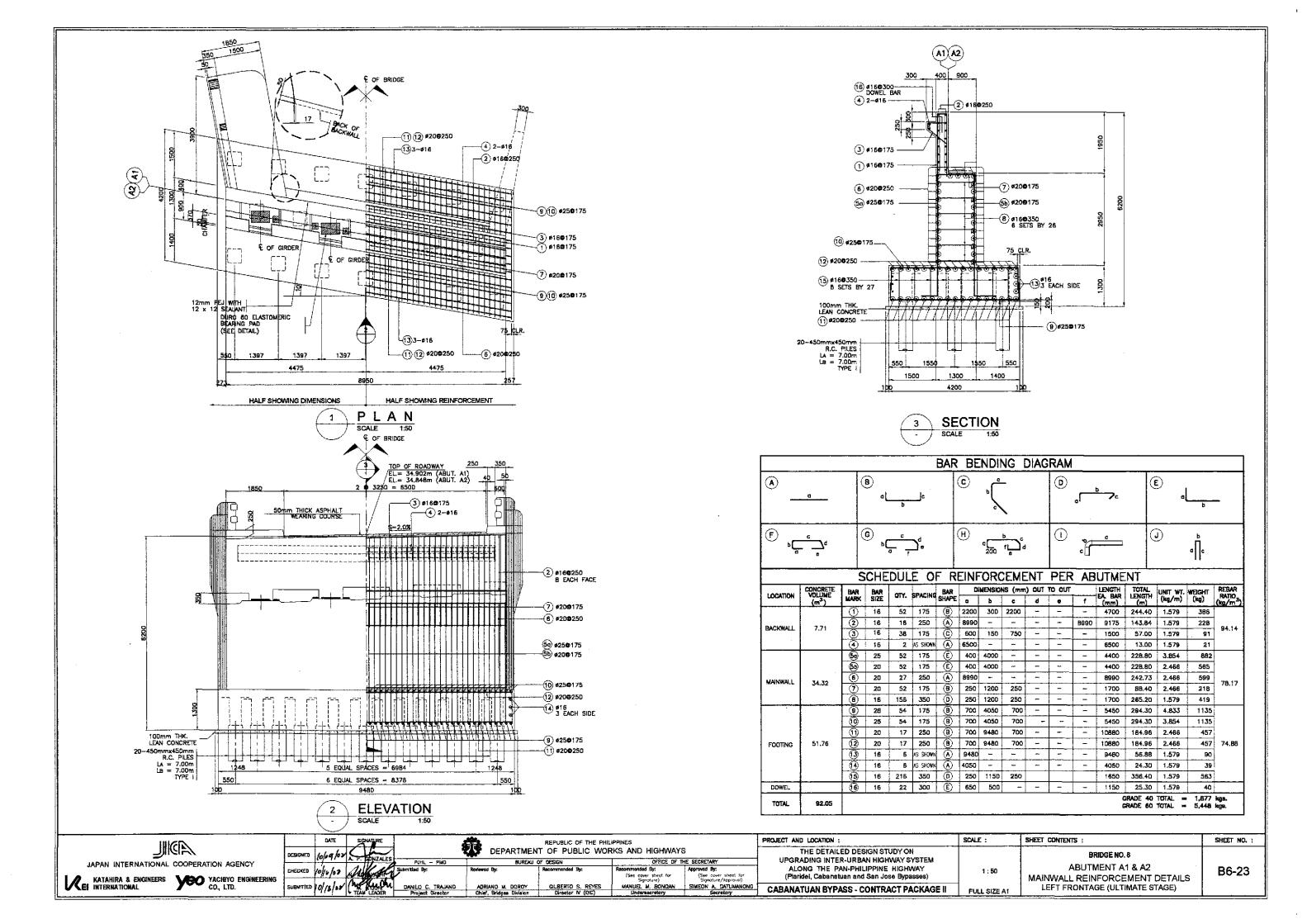


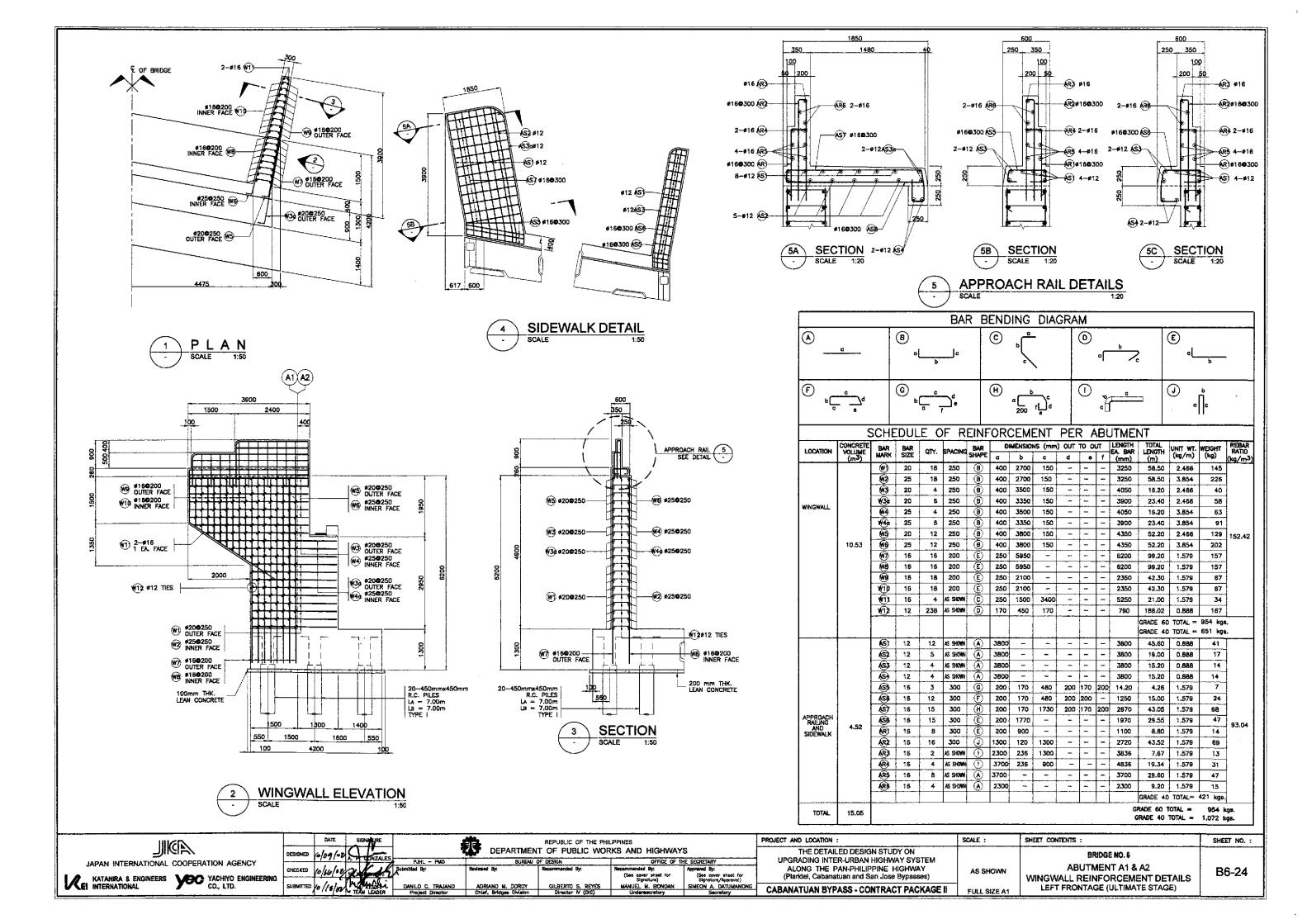


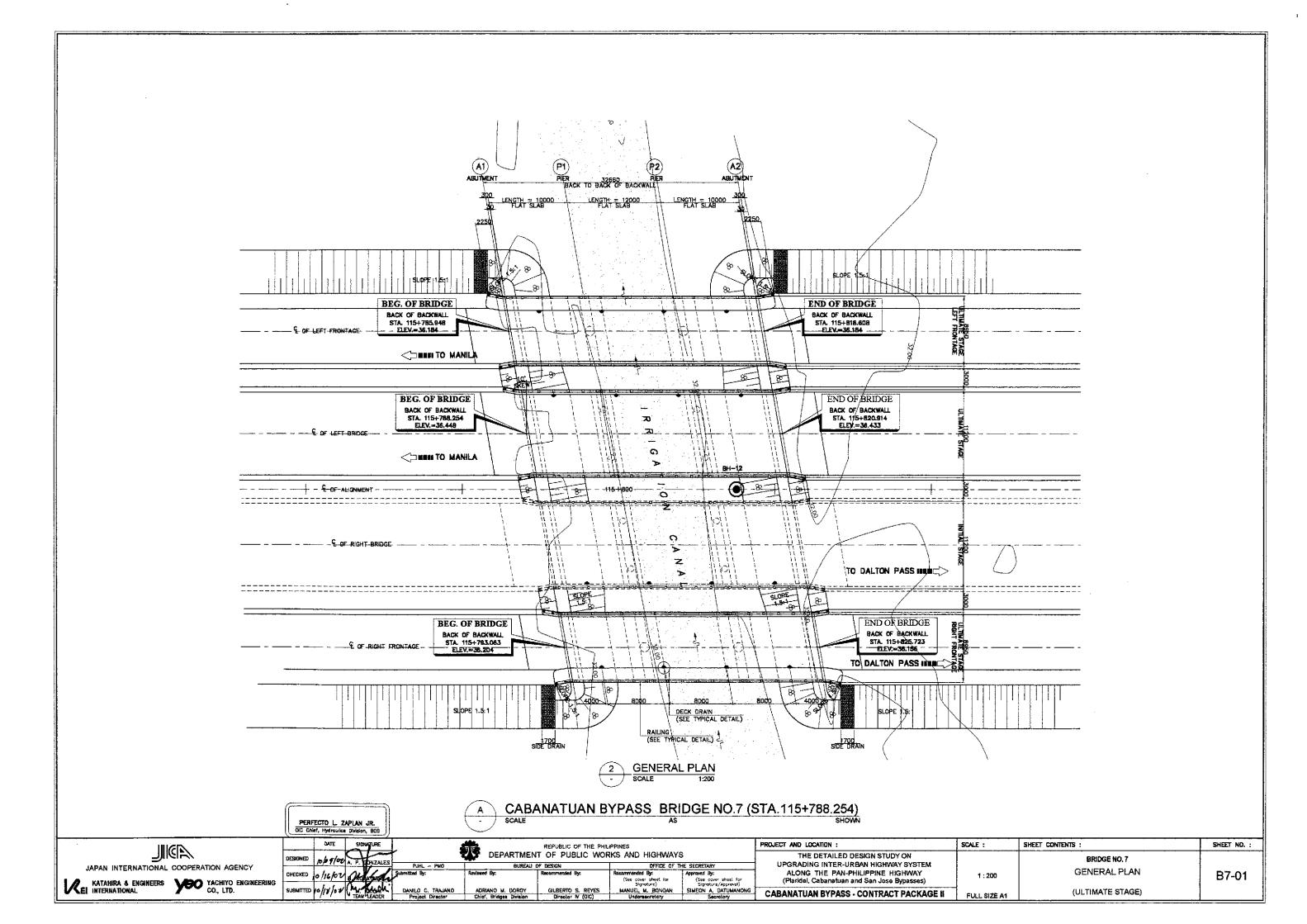


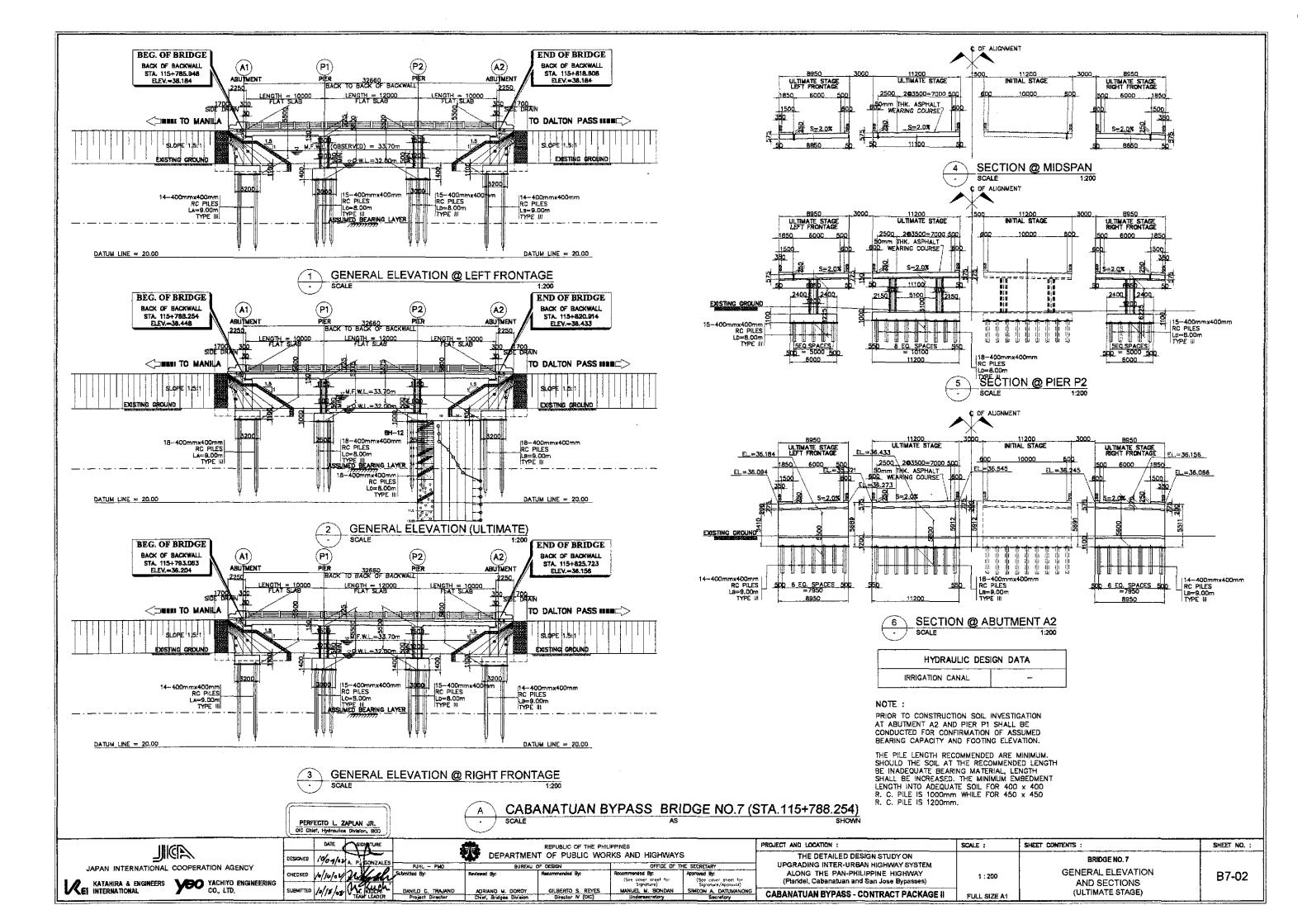
						BAR	BEI	<u>NDIN</u>	G D	IAG	RA	M					
(A)	<u> </u>			B		a	Ь	(B		١			٥	Þ	<u>-</u>	
		SCH	EDU	LE (OF R	EINE	ORC	EME	ENT	PEF	₹ ,	ĄΡ	PROA	CH S	LAB	•	
LOCATION	CONCRETE VOLUME (m3)	BAR MARK	BAR SIZE	QTY.	SPACING	BAR SHAPE	DIM	ENSION:	s (mm)	OUT 1	0 0	UT f	LENGTH EA. BAR (mm)	TOTAL LENGTH (m)	UNIT WEIGHT (kg/m)	WEIGHT (kg)	REBA RATIO
		(S)	25	46	150	B	4900	200	-	-	-	-	5100	234.60	3.854	905	-
	ł	(3)	25	6	150	B	3550	200	-	-		-	375D	22.50	3.854	87	1
		(5)	20	10	300	(A)	7000	~	_	-	-	-	700D	70.00	2.466	173]
		(S)	20	8	300	(A)	7600	_	-		-	-	7600	60.80	2.466	150	
	1	(S 5	20	1	AS SHOWN		6500		-		-	-	6500	6.50	2.466	17	
APPROACH	11.92	ÆS6	16	9	300	<u>(A)</u>	7050	-	_	-	-	-	7050	63.4 5	1.579	101	164.94
SLAB	11.92	(S)	16	7	300	A	7600	-			-	_	7600	53.20	1.579	85	104.9
		₽\$	20	1	AS SHOWN		7600	_		_		<u> </u>	7600	7.60	2,456	19	
		AS9	15	24	300	₿	4900	200			-	-	5100	122.40	1.579	194	
	1	ASTO	25	4	AS SHOWN		2100	2900			<u> -</u>	-	5000	20.00	3.854	7B	
	1	AS)1	16	4	300	₿	345D	200			<u> -</u>	-	3650	14.60	1.579	24	
	1	A\$12	25	2	AS SHOWN	<u>(A)</u>	7600			<u> </u>	-	_	7600	15.20	3.854	59	1
		A \$13	16	26	300	(b)	400	500	200	700	-	-	1800	46.80	1,579	74	
TOTAL	11.92														40 TOTAL 60 TOTAL		

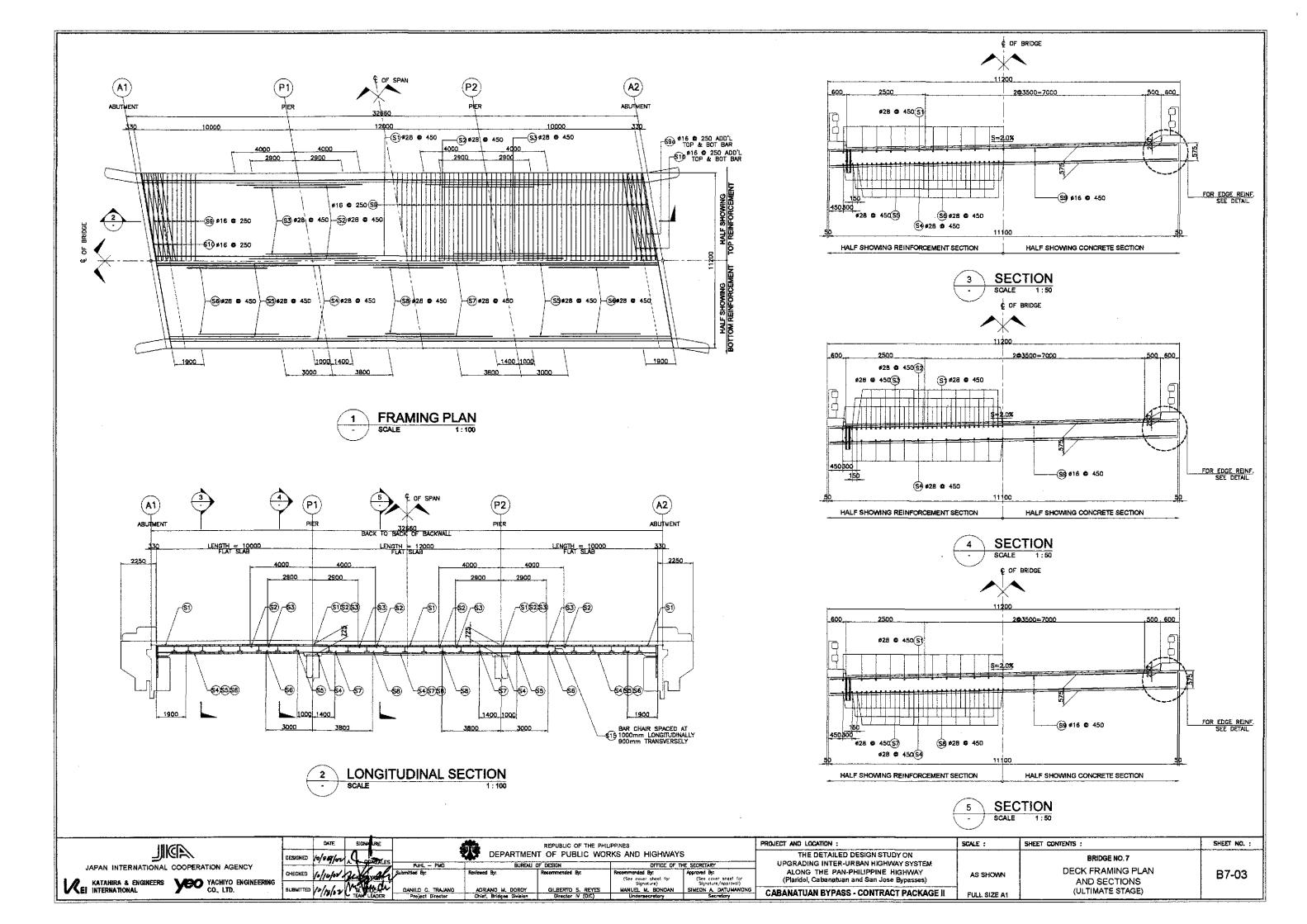
	DATE	SIGNATURE		REPUBLIC OF THE PHI			PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
JAPAN INTERNATIONAL COOPERATION AGENCY	DESIGNED HOPON E	M. SALLAN PUHL PMO	BUREAU C	F DESIGN		THE SECRETARY	THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM		BRIDGE NO. 6	
KATAHIRA & ENGINEERS YOU YACHIYO ENGINEERING CO., LTD.	CHECKED 10/10/07	Submitted By:		·	Recommended By: (See cover sheet for Signature)	Approved By: (See cover sheet for Signoture/Approval)	ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)	AS SHOWN	APPROACH SLAB PLAN AND SECTIONS	B6-18
CO., LTD.	SUBMITTED / //8/01	TEAN LEADER Project Director	ADRIANO M. DOROY Chief, Bridges Division	GILBERTO S. REYES Director V (OIC)	MANUEL M. BONOAN Undersecretory	Secretory	CABANATUAN BYPASS - CONTRACT PACKAGE II	FULL SIZE A1	RIGHT & LEFT FRONTAGE(ULTIMATE STAGE)	

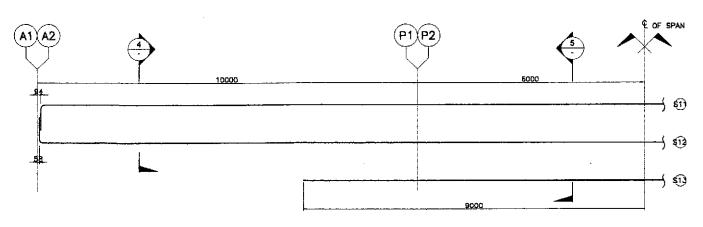




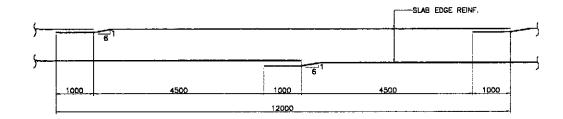




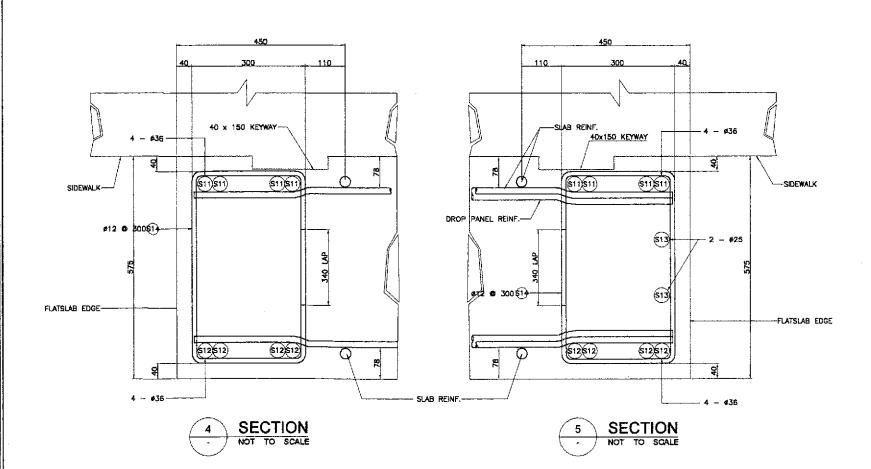


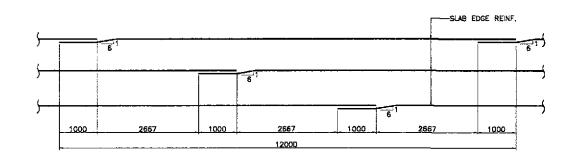


SCHEMATIC LAYOUT OF FLATSLAB EDGE REINF. 1:50 1:50



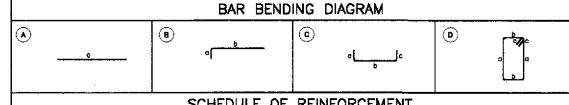
2 TYPICAL SPLICE LAYOUT OF 2-BAR BUNDLE 1:50





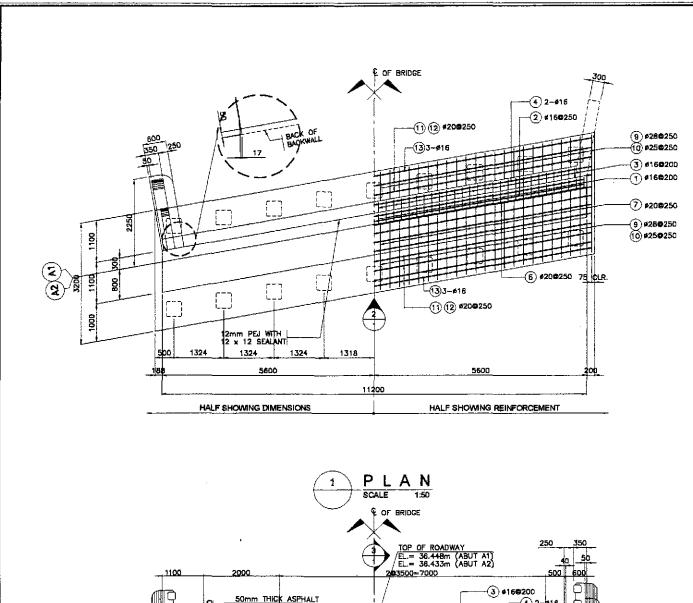
TYPICAL SPLICE LAYOUT OF 3-BAR BUNDLE 1:50

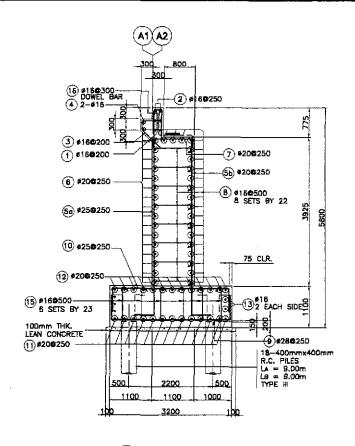
ESTIMA:	TED QUANTITIES OF SUPERST	RUCTU	RE
ITEM NO.	DESCRIPTION	UNIT	TOTAL
404(1)a	REINFORCING STEEL GRADE 40	luge.	10200
·	DECK SLAB	6320	
	SIDEWALK, RAILING, & POST	2556	
	APPROACH SLAB	1324	
404(1)b	REINFORCING STEEL GRADE 60	kgs.	24019
	DECK SLAB	19233	
	SIDEWALK, RAILING, & POST	590	
	APPROACH SLAB	4196	
405(1)	STRUCTURAL CONCRETE	cu. m.	257.40
	DECK SLAB	206.13	
	SIDEWALK, RAILING, & POST	16.97	
	APPROACH SLAB	34.3	



LOCATION	CONCRETE	BAR	BAR	0TV	CDAGING	BAR	DIMENS	ONS (m	m) OUT	TO OUT	LEWZTH	TOTAL	UNIT WT.	WEIGHT	REBAR
LOCATION	CONCRETE VOLLIME (m²)	MARK	SIZE	QTY.	SPACING	SWE	6	b	G	d	EACH BAR (mm)	LENGTH (m)	(leg/m)		(kg/m ³
		51	28	23	450	0	450	31900	450	-	32800	754.40	4.B33	3647	
		52	28	44	450	(A)	8000	-		_	8000	352.00	4.833	1702	1
		\$3	28	44	450	(A)	5800				5800	255.20	4.833	1234	1
	1	S4	28	23	450	©	450	31900	450	-	32800	754.40	4.833	3647	
		S5	28	44	450	∄	450	8950		_	9400	413.60	4.833	1999	
		56	28	44	450	(A)	5100	-	-	-	5100	224.40	4.833	1085	1
		57	28	22	450	(A)	9200	-	-	-	9200	202.40	4.B33	979	1
DECK SLAB	191.45	58	28	22	450	A	4400	-	-	***	4400	96.80	4.833	468	128.87
		59	16	258	250	(A)	11100	-		-	11100	2863,80	1.579	4522	
		SBa	16	32	250	A	6150	-	-	-	6150	196.80	1,579	311	
		S10	16	24	250	A	11275	+	-	-	11275	270.60	1.579	428	
		S11	36	2	AS SHOWN	0	450	31900	450	-	32800	262.40	7.991	2097	
		512	36	8	AS SHOWN	©	450	31900	450	-	32800	262.40	7.991	2097	
		513	25	4	AS SHOWN	(A)	1800	-	-		18000	72.00	3.854	278	
	}	\$14	12	214	300	(D)	500	220	150	_	1740	372.36	0.888	331	1
	<u> </u>	S15	16	384	AS SHOWN	(E)	150	415	70		1200	460.8	1.579	72B	<u> </u>
TOTAL	191.45										GRADE 40 RADE 60	TOTAL .	- 6,320 - 19,233		

	IIIGD	DATE	SIGNATURE			REPUBLIC OF THE PHIL	IPPINES		PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
		DESIGNED V-159/-1	A P GONZALES	9		T OF PUBLIC WOR			THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM		BRIDGE NO.7	
	JAPAN INTERNATIONAL COOPERATION AGENCY	CHECKED 10/16/2/	2 Ksle	PUHL — PMG Submitted By:	Roviewed By:	Recommended By:	OFFICE OF T Recommended By: (See cover sheet for	HE SECRETARY Approved By: (See cover sheet for	ALONG THE PAN-PHILIPPINE HIGHWAY	AS SHOWN	EDGE REINFORCEMENT FOR FLATSLAB	B7-04
	KATAHIRA & ENGINEERS YOU YACHYO ENGINEERING CO, LTD.	SUBNITTED /0/14/2/	Mr. Buch	DANILO C. TRAJANO	ADRIANG M. DORDY	GILBERTO S. REYES	Signature) MANUEL M. BONDAN	Signature/Approval) SIMEON A. DATUMANONG	(Plaridel, Cabanatuan and San Jose Bypasses) CABANATUAN BYPASS - CONTRACT PACKAGE II	E111 0175 14	ON COLUMN BENT BRIDGE (ULTIMATE STAGE)	
إل		1	TEAN LEADER	Project Director	Chief, Eriogea Division	Director N (OIC)	Undersecretory	Secretory	CADAMATORIC DIT AGG - CONTINACT PACIONOL II	FULL SIZE A1		<u> </u>







THE DETAILED DESIGN STUDY ON

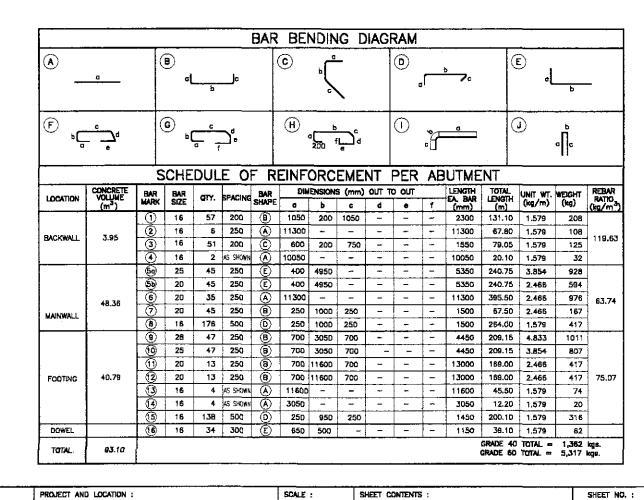
UPGRADING INTER-URBAN HIGHWAY SYSTEM

ALONG THE PAN-PHILIPPINE HIGHWAY

(Plaridel, Cabanatuan and San Jose Bypasses

CABANATUAN BYPASS - CONTRACT PACKAGE II

SIMEON A. DATUMANONG



1:50

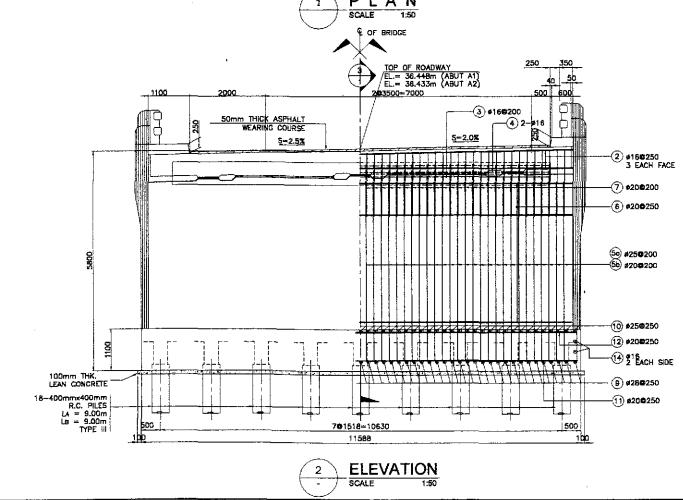
FULL SIZE A1

BRIDGE NO. 7

ABUTMENT A1 & A2

MAINWALL REINFORCEMENT DETAILS (ULTIMATE STAGE)

B7-05



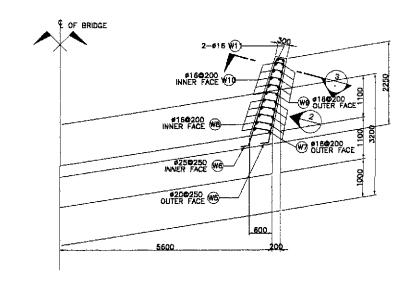
10/09/02 RA DAZALES
10/16/02 AND PROPERTY OF THE LEADER

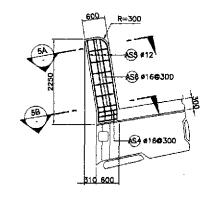
JAPAN INTERNATIONAL COOPERATION AGENCY

KATAHIRA & ENGINEERS YOU YACHIYO ENGINEERING CO., LTD.

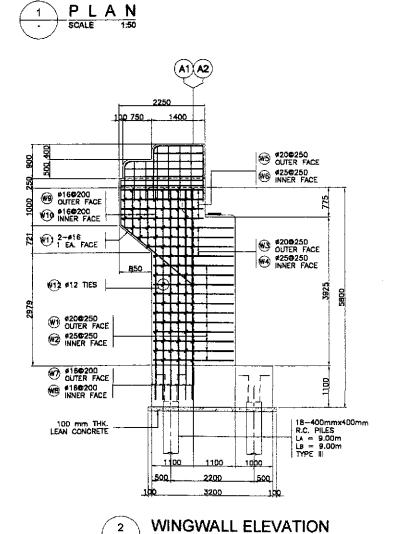
REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

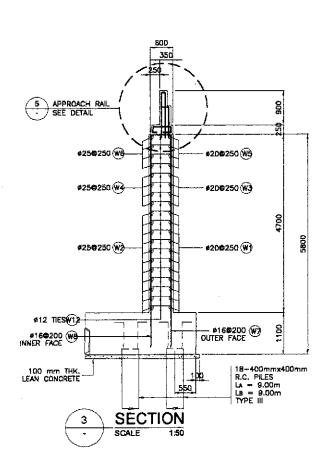
MANUEL M. BONDAN

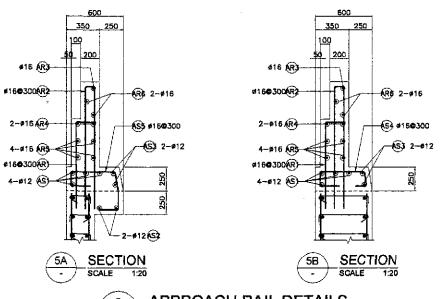










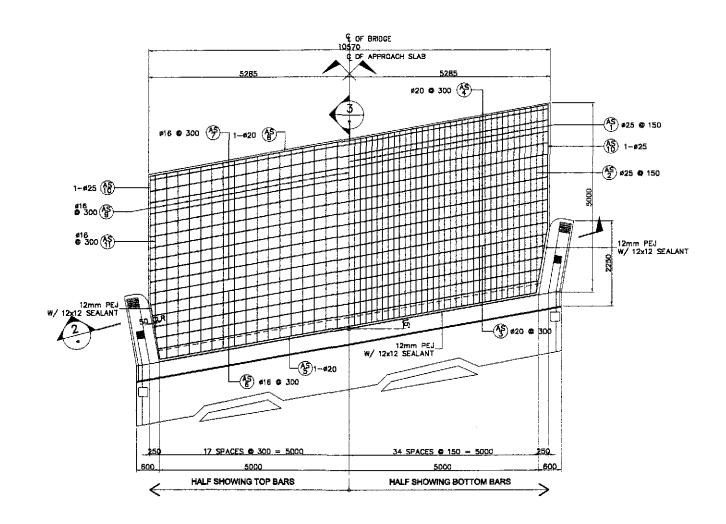


5 APPROACH RAIL DETAILS
1:20

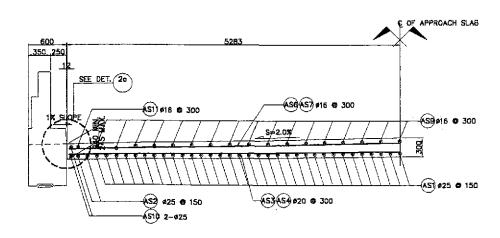
	BAR	BENDING DIAGR	AM	
<u> </u>	B	0 (©	(E)
F c c	© "-,"	H 5	1	a
SCH CONCRETE DAS	IEDULE OF REIN	NFORCEMENT PI		UNIT WT. WEIGHT REBAR

VOLUME					BAR) our			EA. BAR	LENGTH	UNIT WT.		RATIO
(m^3)	MARK	SIZE	QTY.	SPACING	SHAPE	6	Ţ	C	d	0	1	(mm)	(m)	(kg/m)	(log)	(kg/m
	®	20	22	250	(a)	400	2100	150		-	-	2650	58.30	2.466	144	
[€	25	22	250	(400	2100	150			-	2650	58.30	3.854	225	
	(43)	20	8	250	(B)	400	2400	150			-	2950	23.60	2.466	59	
	₩4	25	8	250	(B)	400	2400	150		_	-	2950	23.60	3.854	91	
	₩5	20	8	250	(B)	400	2150	150		-	-	2700	21.60	2.466	54	
	₩B	25	8	250	(B)	400	2150	150		1	-	2700	21.60	3.854	84	
[6	16	10	200	Œ	250	5550	-		-	-	5800	58.00	1.579	92	176.68
5.69	₩	16	10	200	(E)	250	5550	-	-	-	-	5800	58.00	1.579	92	
Ī	₩9	15	10	200	E	250	1350	-		· –	-	1600	16.00	1.579	26	
ĺ	V 10	1B	10	200	Œ	250	1350	-	-	. –	-	1600	16.00	1.579	25	
Ī	10	15	4	AS SHOWN	0	250	1000	2500	_	<u> </u>	-	3750	15.00	1.579	24	
	(1)	12	126	AS SHOWN	0	170	450	170	-	-	-	790	99.54	0.888	89	l
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ľ	AS2	12	4	as shown	(A)	2150	_	-		-	<u> </u>	2150	8.60	0.888	8	
Ī		12	4	AS SHOWN	(A)	2150	-		~	-	-	2150	8.60	0.888	-B	
Ī		16	6	300	Ē	200	170	480	200	200	-	1250	7.50	1.579	12	
		15	12	300	©	200	170	480	200	170	200	1420	17.04	1.579	27	98.19
1,89		18	4	300	E	200	900	~	_	-	-	1100	4.40	1.579	7	Julia
ľ		16	10	300	Ū	1300	120	1300		-	-	2720	27.20	1.579	43	
	Æ3	16	2	as shown	0	1300	236	1300	-	-	-	2836	5.67	1.579	9	
	Æ}	16	4	AS SHOWN	0	2050	236	900		-	-	3186	12.74	1.579	21	
j	R 5	18	8	as shówn	(A)	2050		-	_	-	-	2050	16.40	1.579	26	
Ţ	₽	16	4	as shown	A	1300		- 1	-	-	-	1300	5.20	1.579	9	
Ì	-												GRADE 40	TOTAL=	186 kgs.	
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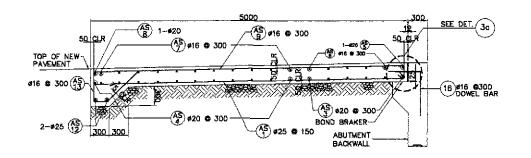
IIIGD	DATE SIGNATURE		REPUBLIC OF THE PI			PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
JAPAN INTERNATIONAL COOPERATION AGENCY	DESIGNED /409/00 A. P. GONZALES	PJHL - PMO	DEPARTMENT OF PUBLIC WO	OFFICE OF T	HE SECRETARY	THE DETAILED DESIGN STUDY ON UPGRADING INTER-URBAN HIGHWAY SYSTEM		BRIDGE NO.7 ABUTMENT-A1 & A2	
KATAHIRA & ENGINEERS YACHIYO ENGINEERING CO., LTD.	CHECKED 10/10/02 AND BURNERS	Submitted By: Reviewed B	Recommended By: IO M. DORDY GILBERTO S. REYES	(See cover sheet for Signature)	Approved By: (See cover sheet for Signature/Approvat) SIMEON A. DATUMANONG	ALONG THE PAN-PHILIPPINE HIGHWAY (Plaridel, Cabanatuan and San Jose Bypasses)	AS SHOWN	WINGWALL REINFORCEMENT DETAILS	B7-06
CO., LTD.	SUBMITTED 0//4/02 TEAM LEADER	Project Director Chief, E	Fridges Division Cirector IV (CIC)	Undersecratory	Secretary	CABANATUAN BYPASS - CONTRACT PACKAGE II	FULL SIZE A1	(ULTIMATE STAGE)	



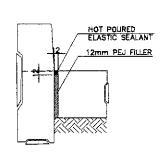


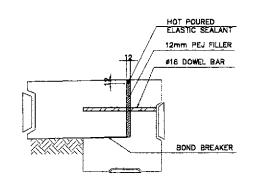










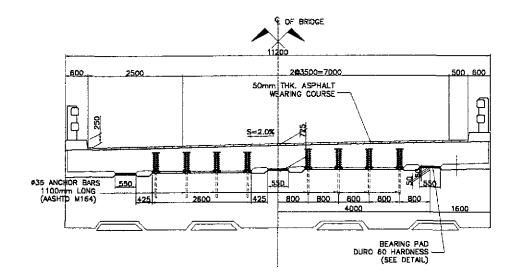




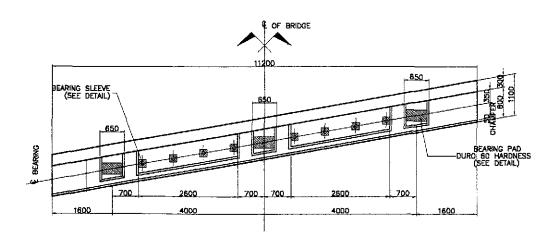


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		SCHE	DU	LE C)FR	EINF	ORC	EME	NT	PEF	? /	\PI	PROA	CH S			
LOCATION	CONCRETE VOLUME (m3)	BAR MARK	BAR SIZE	QTY.	SPACING	BAR SHAPE	DIM e	ENSIONS b	(mm)	OUT T	0 O	Л	LENGTH EAL BAR (mm)	TOTAL LENGTH (m)	WEIGHT (kg/m)	WEIGHT (kg)	REBAR RATIO (kg/cu.n
		(S)	25	68	150	(B)	4900	200	-	_	-	-	5100	346.80	3.854	1337	
		Æ\$≱	25	4	150	B	4400	200	-	-	-	-	4800	18.80	3.654	7 1	1
		(S)	20	6	300	(<u>A</u>)	10450	-	-	i	-	-	10450	62.70	2.466	155]
		Æ S}	20	12	300	A	10800	_		-	-	_	10800	129.60	2.466	320]
		Æ\$	20	1	AS SHOWN	A	10150			-	_	_	10150	10.15	2.466	26]
APPROACH	17.15	€S\$	16	5	300	(A)	10500	-	-	-	_	_	10500	52,50	1.579	83	160.98
SLAB	17-13	S)	16	11	300	(A)	10800	-	-	_	-	_	10800	118.80	1.579	188	190.90
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		S	16	34	300	(8)	4900	200	-	-	_	<u> </u> -	5100	173.40	1.579	274	_
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		AS13	16	38	300	(D)	400	500	200	700	-	_	1800	64.80	1.579	103	1
TOTAL	17.15														40 TOTAL 80 TOTAL		

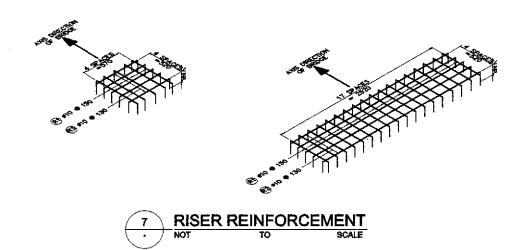
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		MATE	SIGNATURE.) 4		REPUBLIC OF THE PHIL			PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NU. :
	DESIGNED	10/09/02	Auco	*	DEPARTMEN	IT OF PUBLIC WO	RKS AND HIGHWAY	8	THE DETAILED DESIGN STUDY ON	1	BRIDGE NO. 7	1
JAPAN INTERNATIONAL COOPERATION AGENCY		, ,	- II	PJHL - PMO		OF DESIGN		HE SECRETARY	UPGRADING INTER-URBAN HIGHWAY SYSTEM		APPROACH SLAB PLAN	
	CHECKED	10/16/02	N NO ANGEL	Sulfmitted By:	Reviewed By:	Recommended By:	Recommended By: (See cover sheet for	Approved By: (See cover sheet for	ALONG THE PAN-PHILIPPINE HIGHWAY (Planidel, Cabanatuan and San Jose Bypasses)	AS SHOWN		B7-07
KATAHIRA & ENGINEERS YEO YACHIYO ENGINEERING CO, LTD.	ni ini ini	191.1.1	March		**************************************	CII BEOTO S DEVES	Signature)	Signofure/Approval)			AND SECTIONS	
CO, LTD.	POSMITTED	מסועוןש <i>י</i> ן	TEAM LEADER	DANILO C. TRAJANO Project Director	ADRIANO M. DORCY Chief, Bridges Division	Director M (OIC)	MANUEL M. BONOAN Undersecretary	SIMEON A. DATUMANONG Secretary	CABANATUAN BYPASS - CONTRACT PACKAGE II	FULL SIZE A1	(ULTIMATE STAGE)	

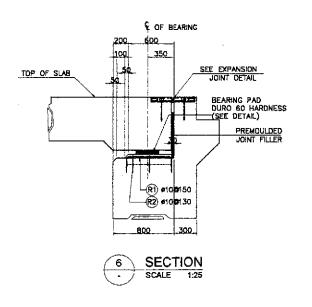


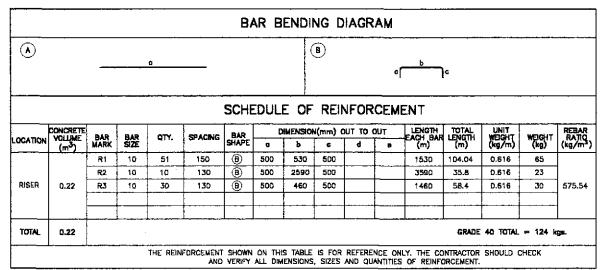
SECTION AT ABUTMENT SEAT 1:50

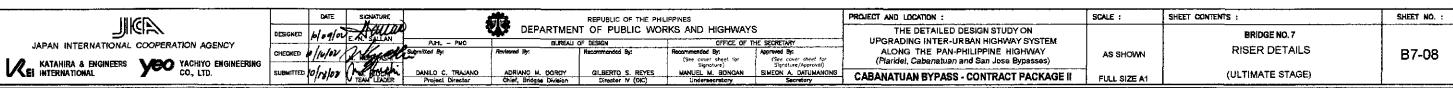


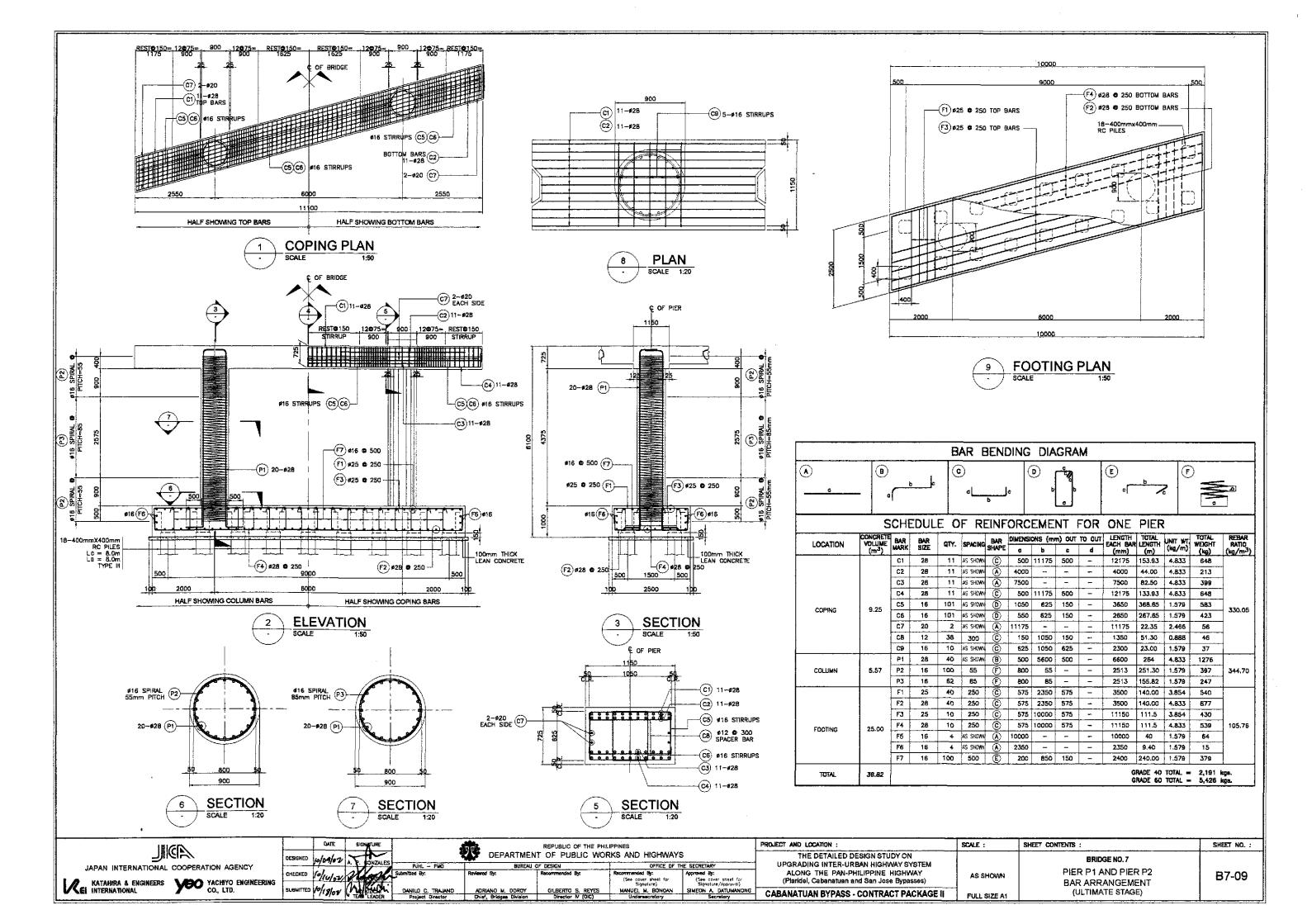
PLAN AT ABUTMENT SEAT

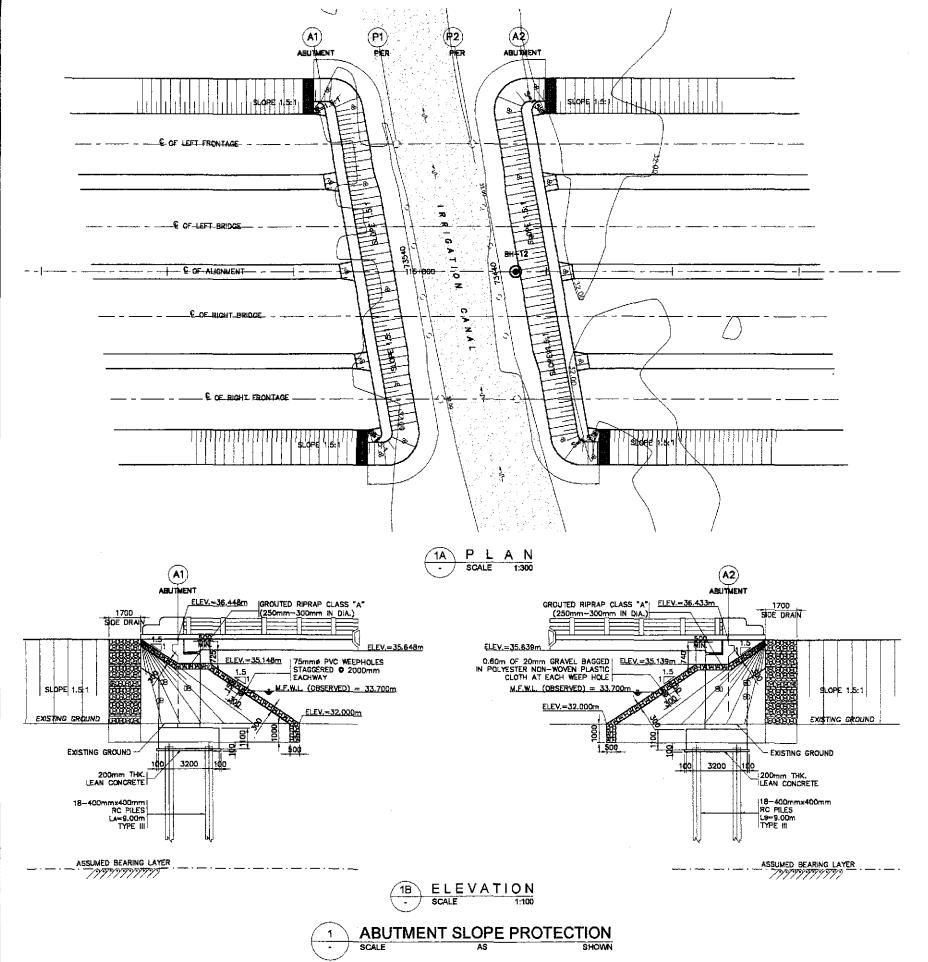










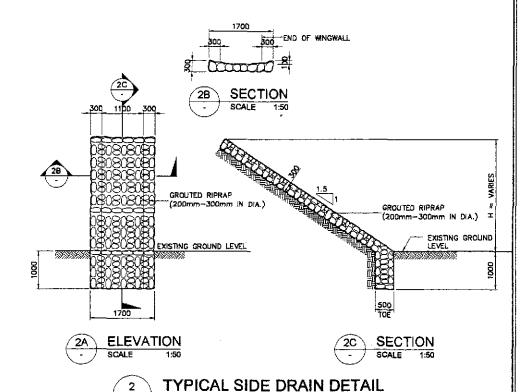


GENERAL NOTES:

- 1. GROUTED RIPRAP (250mm-300mmDIA.) SHALL BE USED FOR THE FACING AND SHALL BE CAREFULLY HANDLAID WITH THE CONCEST DIMENSIONS PERPENDICULAR TO THE SLOPE AND FIRMLY BEDDED INTO THE SLOPE AND ADJACENT TO THE ADJAINING BOULDERS SPACED BETWEEN THE BOULDERS. THE SPACE BETWEEN THE BOULDERS SHALL BE COMPLETELY FILLED WITH MORTAR. THE OLITSIDE SURFACE OF THE BOULDERS SHALL BE LEFT EXPOSED AND THE SURFACE OF THE MORTAR SHALL BE SWEPT WITH A STIFF BROOM.
- 2. GEOTEXTILE
- THE FOLLOWING SPECIFICATIONS ARE REQUIRED:
- 1, POLYESTER OR POLYPROPELINE 100% 2. MECHANICALLY BONDED/HEAT BONDED
- 4. EFFECTIVE OPENING SIZE 110 MICRONS (MAX.)
- 8. WEIGHT 200g/sq. m. (MIN.) 7. CBR PUNCTURE STRENGTH 400N (MIN.) B. MULTI-DIRECTIONAL TENSILE STRENGTH - 13KN/m

5. THICKNESS UNDER PRESSURE - 0.80mm (MIN.)

- 3. GRAVEL FILTER SHALL BE COARSE AGGREGATES MATERIALS WHICH SATISFY THE REQUIREMENTS FOR ITEM 405, STRUCTURAL CONCRETE, GRADING B OF TABLE 405.1 AS REVISED.
- 4. NO CONCRETING UNDER WATER SHALL BE PERMITTED.
- 5. PROVIDE 1.0 m BERM WHEN HEIGHT (H) IS > 4.0 m.



VELOCITY	ROCK SIZE (mm)							
(m/sec)	VERY TURBULENT FLOW	SMOOTH FLOW						
1.00	40	_						
1.50	135	_						
2.00	170	_						
2.50	255	137						
3.00	370	197						
3.50	515	270						
4,00	690	350						
4.50	825	425						
5.00	>900	590						

SCALE

PER ABUTMENT

	7				
LOCATION	SIZES	QUANTITY			
LOCATION	SIES	ABUT. A1	ABUT, A2		
SIDE DRAIN	200mm-300mm IN DIA.	6.56 cu. m.	8.56 cu. m.		
GROUTED RIPRAP	250mm-300mm IN DIA.	139.80 cu, m.	138.47 cu. m.		

HIGE		DATE	SIGNATURE			REPUBLIC OF THE PH			PROJECT AND LOCATION :	SCALE :	SHEET CONTENTS :	SHEET NO. :
	DESIGNED	10/0 0/02	A P MONZAI	Fe	-		rks and highwa	<u> </u>	THE DETAILED DESIGN STUDY ON		BRIDGE NO. 7	
JAPAN INTERNATIONAL COOPERATION AGENCY	—	7, 7,7 4	- Paris	PURL - PMO		OF DESIGN	OFFICE OF	THE SECRETARY	UPGRADING INTER-URBAN HIGHWAY SYSTEM	ĺ		(
	CHECKED	10/16/02	(U.S. A.	Submitted By:	Reviewed By:	Recommended By:	Recommended By:	Approved By:	ALONG THE PAN-PHILIPPINE HIGHWAY	AS SHOWN	ABUTMENT PROTECTION	B7-10
KATAHIRA & ENGINEERS VOO YACHIYO ENGINEERING		+	* * * * * * * * * *				(See cover sheet for Signoture)	(See cover sheet for Signature/Approval)	(Plaridel, Cabanatuan and San Jose Bypasses)		AND SIDE DRAIN DETAILS	D,-10
KATARIRA & ENGINEERS YACHIYO ENGINEERING CO., LTD.	SUBMITTED	Inlin la	me keed	DANILO C. TRAJANO	PERFECTO L. ZAPLAN JR.		MANUEL M. BONDAN	SIMEON A. DATUMANONG	CABANATUAN BYPASS - CONTRACT PACKAGE II	1	(ULTIMATE STAGE)	
		1 7 702 N TE	TEAM LEADER	i Project Director	Chief, Hydraulica Division (Old	Director M (QIC)	Undersecretory	Secretory	Secretary CADAMATUAN DIPASS - CONTRACT PACKAGE II	FULL SIZE A1	(52),160 (12 0), 164)	