

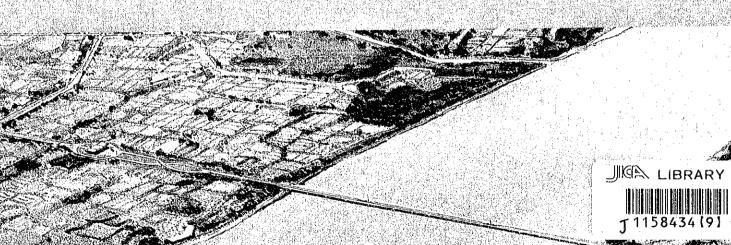




JAPAN INTERNATIONAL COOPERATION AGENCY

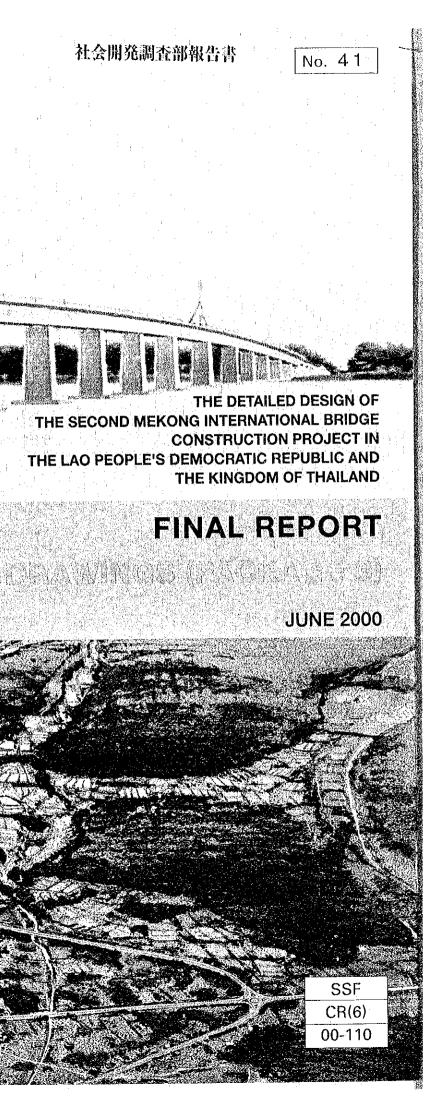
MINISTRY OF COMMUNICATION, TRANSPORT, POST AND CONSTRUCTION THE LAO PEOPLE'S DEMOCRATIC REPUBLIC DEPARTMENT OF HIGHWAYS THE KINGDOM OF THAILAND





ORIENTAL CONSULTANTS COMPANY LIMITED NIPPON KOEI CO., LTD.





JAPAN INTERNATIONAL COOPERATION AGENCY

MINISTRY OF COMMUNICATION, TRANSPORT, POST AND CONSTRUCTION THE LAO PEOPLE'S DEMOCRATIC REPUBLIC **DEPARTMENT OF HIGHWAYS** THE KINGDOM OF THAILAND





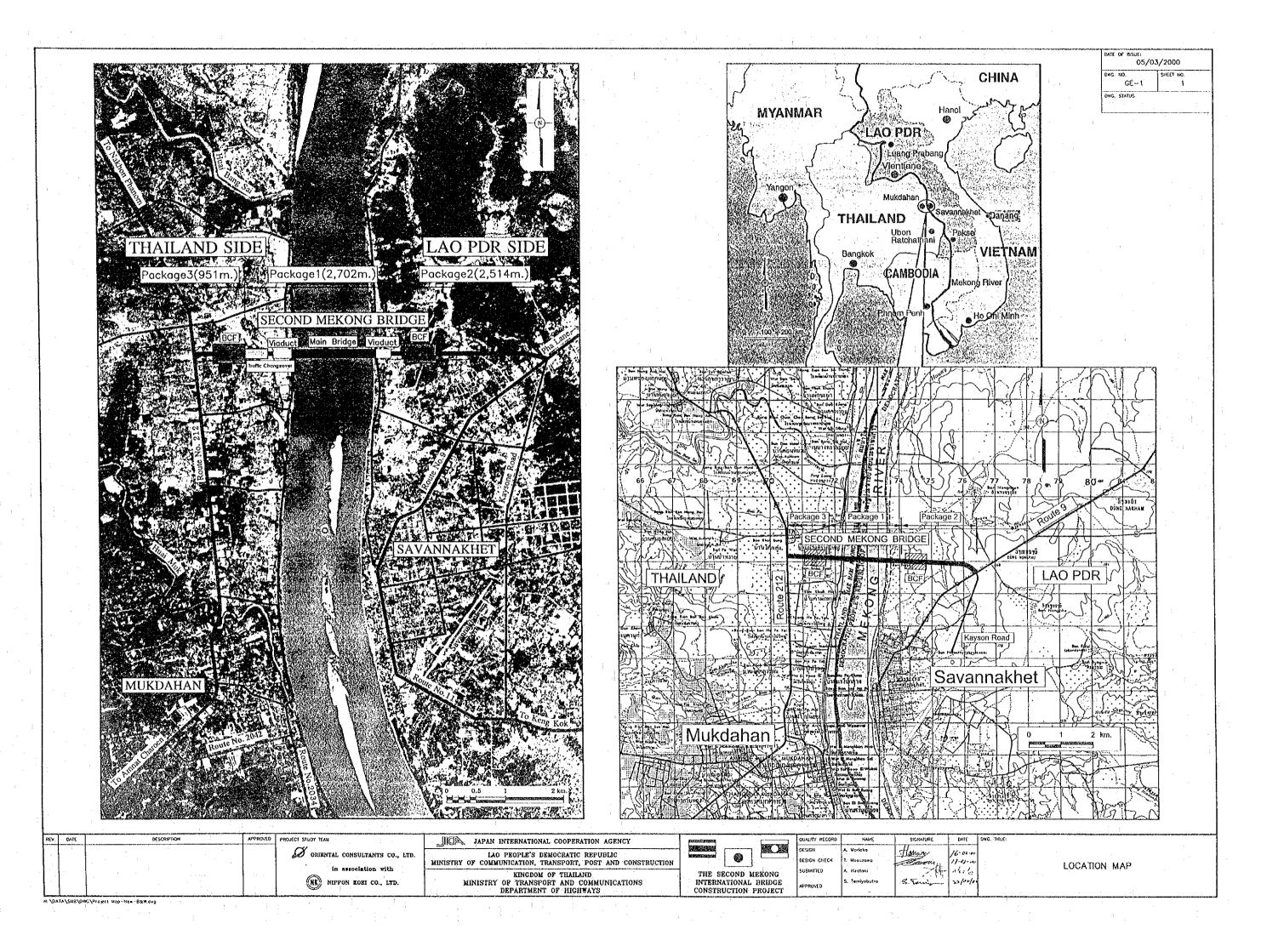
ORIENTAL CONSULTANTS COMPANY LIMITED

THE DETAILED DESIGN OF THE SECOND MEKONG INTERNATIONAL BRIDGE **CONSTRUCTION PROJECT IN** THE LAO PEOPLE'S DEMOCRATIC REPUBLIC AND THE KINGDOM OF THAILAND

## **FINAL REPORT DRAWINGS (PACKAGE 3)**

**JUNE 2000** 





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					LAO PEOPLE'S DEMOCRATIC REPUBLIC		DESIGN	H. Okito	Chillen 1	it i a
5			·····	in association with	MINISTRY OF COMMUNICATION, TRANSPORT, POST AND CONSTRUCTION		DESKIN CHECK	1. Мазигоно	Trans and the	12-00 00
3	<u> </u>			IN ANGOCIATION WITH	KINGDOM OF THAILAND	THE SECOND MEKONG	SUBHIFTED	A Hirotani		<u> 16 (a</u>
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RSV.	DATE	DESCRIPTION APPROVED PROJECT STUDY TEAM			INCTA TARA	N INTERNATIONAL COOPERATION AGENCY	[@w	ITY REC	ORD NAME	SKHATURE DATE

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TINE		DRAW	NG NO.	· .
AND FOOTING DETAILS		F	5-3	
HEDULES			S~4	
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TAVLS - 2 TAVLS - 3			S-6 S-7	
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34         MARCE MERCH, MARKE SERVICE AND MARKET SERVICE         F-+-1           35         FULMASIS WARK INC. (M. WARK SERVICE (MARKET SEX)         F-+-3           37         FULMASIS WARK INC. (M. WARK SERVICE (MARKET SEX)         F-+-3           37         FULMASIS WARK INC. (M. WARK SERVICE (MARKET SEX)         F-+-3           373         FULMASIS WARK INC. (M. WARK SERVICE (MARKET SEX)         F-+-3           374         FULMASIS WARK INC. (M. WARK SERVICE (MARKET SEX)         F-+-3           374         FULMASIS WARK INC. (M. WARK SERVICE (MARKET SEX)         F-+-3           374         FULMASIS WARK INC. (M. C) DOWNING SEX         F-+-3           374         FULMASIS WARK INC. (M. C) DOWNING SEX         F-+-3           374         FULMASIS WARK INC. (M. C) DOWNING SEX         F-+-3           374         FULMASIS WARK INC. (M. C) DOWNING SEX         F-+-3           374         FULMASIS WARK INC. (M. C) DOWNING SEX         F-+-3           375         FULMASIS WARK INC. (M. C) DOWNING SEX         F-+-3           376         FULMASIS WARK INC. (M. C) DOWNING SEX         F-+-3           376         FULMASIS WARK INC. (M. C) DOWNING SEX         F-+-3           376         FULMASIS WARK INC. (M. C) DOWNING SEX         F-+-3           376         FULMASIS WARK INC. (M. C) DOWNING SEX	233		F-E-21						
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200         Plumber box Ector, (2) ABOW, Side         F-A-5           200         Plumber box Ector, (2) ABOW, Side         F-A-5           200         Plumber box Ector, (2) ABOW, Side         F-A-5           201         Plumber box Ector, (2) ABOW, Side         F-A-5           202         Plumber box Ector, (2) ABOW, Side         F-A-5           203         Plumber box Ector, (2) ABOW, Side         F-A-5           204         Plumber box Ector, (2) ABOW, Side         F-A-5           205         Plumber box Ector, (2) ABOW, Side         F-A-5           204         Ectu, C AB ECtor, (2) ADOWNER Side         F-A-5           205         Plumber box Ector, (2) ABOW, Side         F-A-5           206         Plumber box Ector, (2) ADOWNER Side         F-A-5           207         Plumber box Ector, (2) Ectoralization in Main Ector         F-A-5           208         Plumber box Ector, (2) Ectoralization in Main Ector         F-A-5           209         Plumber box Ector, (2) Ec	236	PLUMBING WORK IN MAIN OFFICE AND PUBLIC TOILET (ARRIVAL SIDE)	FP3				:		
200         PLUGBS VOR LETAL (3) ARRAY, SHE         F-4-8           200         PLUGBS VOR LETAL (3) ARRAY, SHE         F-4-8           200         PLUGBS VOR LETAL (3) CONVENTS SHE         F-4-8           210         PLUGBS VOR LETAL, (3) CONVENTS SHE         F-4-8           212         PLUGBS VOR LETAL, (3) CONVENTS SHE         F-4-8           213         PLUGBS VOR LETAL, (3) CONVENTS SHE         F-4-12           214         PLUGBS VOR LETAL, (3) CONVENTS SHE         F-4-12           215         PLUBS CONC.DON         F-4-12         F-4-12           216         PLUBS CONC.DON         F-4-12         F-4-12           217         PLUBS CONC.DON         F-4-12         F-4-12           216         PLUBS CONC.DON         F-4-12         F-4-12           217         PLUBS CONC.PUTCE         PLUBS CONC.PUTCE         PLUBS CONC.PUTCE           216	237	PLUMBING WORK DETAIL (1) ARRIVAL SIDE	F-P-4						
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	239	PLUMBING WORK DETAIL (3) ARRIVAL SIDE	F-P-6						
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245         WWEET WILLT REFUNDED TOSTED ECTULS         F-A-12           246         PUAL MO ECTUL OF AR CONSTRUCTION IN UNIVOTEE         F-A-1           247         FULL MO ECTUL OF AR CONSTRUCTION IN UNIVOTEE         F-A-2           248         CECURE FLOOR         FULL MO ECTUL OF AR CONSTRUCTION IN UNIVOTEE           247         FULL MO ECTUL OF AR CONSTRUCTION IN UNIVOTEE         F-A-2           248         CECURE FLOOR         FULL MO ECTUL OF AR CONSTRUCTION IN UNIVOTEE           247         FULL MO ECTUL OF AR CONSTRUCTION IN UNIVOTEE         F-A-2           248         CECURE FLOOR         FULL MO ECTUL OF AR CONSTRUCTION IN UNIVOTEE           247         CECURE FLOOR         FULL MO ECTUL OF AR CONSTRUCTION IN UNIVOTEE           248         CECURE FLOOR         FULL MO ECTUL OF AR CONSTRUCTION IN UNIVOTEE           249         FULL MO ECTUL OF AR CONSTRUCTION IN UNIVOTEE         F-A-2           241         FULL MO ECTUL OF AR CONSTRUCTION IN UNIVOTEE         F-A-2           242         FULL MORE FLOOR FLOOR         FULL MORE FLOOR F	243								
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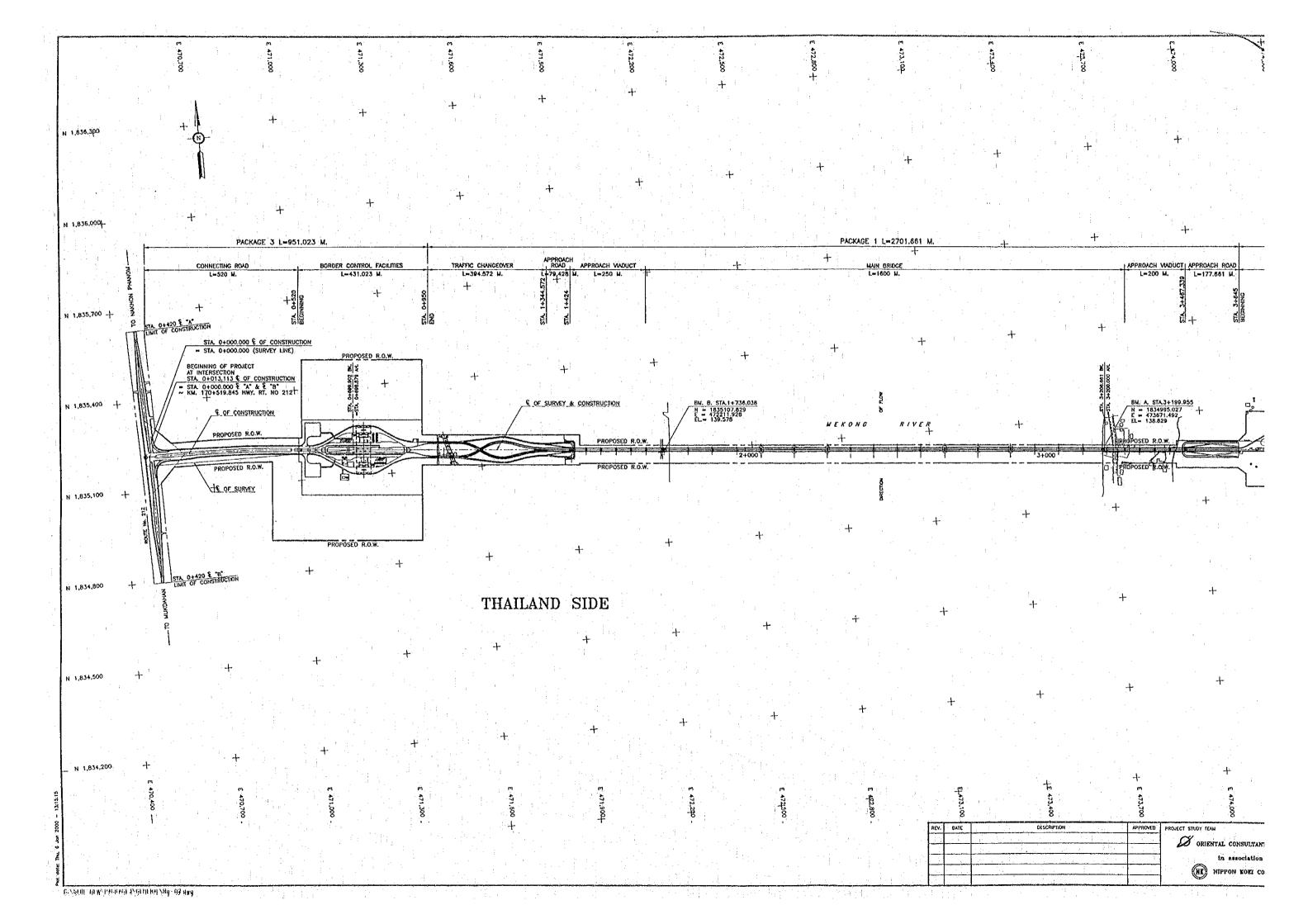
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	AGG. APPROX	AGGREGATE	M.S.L. N.	MEAN SEA LEVEL NORTH	· · · ·	SURVEY.C	TRANSIT LINE	R	PUBLIC TELEPHONE BOX	
	AH, ALT.	ALTERNATIVE	N/B NO. : .	North Bound Number	-	exist. R/W	EXISTING RAW	$\Diamond$	MAIL BOX	
	AST		О.D. Р.В.М.	OUTSIDE DIAMETER PERMANENT BENCH MARK	PF	OPOSED R/W	PROPOSED R/W	-&-		
ļ	AVG. BIT.	AVERACE BITUMINOUS	P.C.	POINT OF CURVE OR PRESTRESSED CONCRETE				Υ Υ	TRAFFIC SIGNAL	
	BX.	BACK BENCH MARK	P.C.C. P.G.	POINT OF COMPOUND CURVE PROFILE GRADE	1 : 2		PROPERTY LINE		FIRE HYDRANT	
ł	BOTT. BROG. BRC.	BOTTOM I	P.G.UNE P.I. PL	PROFILE GRADE LINE POINT OF HORIZONTAL INTERSECTION PLATE		<u> </u>	EDGE OF PROPOSED PAVEMENT	с. С. П	EXISTING PIPE CULVERT	
	C.B.R.	BEARING CALIFORNIA BEARING RATIO C TO C) CENTER TO CENTER	P.O.C. P.O.S.T.	POINT ON CURVE POINT ON SUBTANGENT			EDGE OF EXISTING PAVEMENT	<b>}</b> ⊃	(WITH OR WITHOUT HEADWALL)	—
	CL.	CLEARANCE	P.O.T. P.R.C.	POINT ON TANGENT POINT OF REVERSE CURVE					PROPOSED PIPE CULVERT (WITH OR WITHOUT HEADWALL)	
	см <sup>2</sup> С.м.Р.	SQUARE CENTIMETER CORRUGATED METAL PIPE	PROJ. P.T.	PROJECT POINT OF TANGENT			EXISTING SHOULDER LINE	) <del>(</del>	EXISTING BOX CULVERT	
	COL. CONC.	COLUWN	P.V.C. P.V.I.	POINT OF VERTICAL CURVE POINT OF VERTICAL INTERSECTION		· · · · · · · · · · · · · · · · · · ·	PROPOSED SHOULDER LINE	)======================================		н
	CONSTR C.P.	CONCRETE PIPE	P.V.R.C. P.V.T.	POINT OF VERTICAL REVERSE CURVE POINT OF VERTICAL TANGENT			· · · · · · · · · · · · · · · · · · ·	/2000000	NEW BOX CULVERT	<b></b>
ł	C.S. C/W CU.M.	CURVE – SPIRAL Carriageway Cubic meter	R. R.C. R.C.B.	RADIUS REINFORCEO CONCRETE REINFORCED CONCRETE BOX CULVERT	=	· · · · · · · · · · · · · · · · · · ·	EXISTING CURB	<u> </u>	EXISTING HIGHWAY GUARD RAIL	1SW
	D. D.8.S.T.	DEGREE OF CURVE DOUBLE BITUMINOUS SURFACE TREATMENT	R.C.P. RD,	REINFORCED CONCRETE PIPE CULVERT ROAD		· · · · · · · · · · · · · · · · · · ·	PROPOSED CURB	<b>AA</b>	PROPOSED HIGHWAY GUARO RAIL	
	DEG. DIA.	DEGREE DIAMETER	R.E. REF.	RESIDENT ENGINEER REFERENCE	-		GROUND PROFILE	ti t		2SW
	D.O.H. DWC.	DEPARTMENT OF HIGHWAYS DRAWING	REINF. REQ D	REINFORCEMENT REQUIRED				o	RAIL ROAD CROSSING SIGN	<b>ا</b> ــــبس <b>ــ</b> ـا
1	Ε.	EXTERNAL DISTANCE OF SAMPLE CURVE OR EAST	R.I.D. R.P.	ROYAL IRRIGATION DEPARTMENT REFERENCE POINT	-		EXISTING ROAD PROFILE	0 <u>*</u> 0	RAIL ROAD CROSSING SIGNAL LIGHT	1-s-c
	EL.(OR EL.(OR ENGR.	EACH ELEV.) ELEVATION ENGINEER	RT. R/W S.B.S.T.	RICHT RICHT OF WAY SINGLE BITUMINOUS SURFACE	_		EXISTING INLETS	<u>o </u>	RAIL ROAD CROSSING BARRICADE	
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	EQUIV. EXIST.	EQUIVALENT		SUPERELEVATION ec.) SECANT	-		EXISTING PIPE	QQ	GAS STATION	2-S-C
	EXP. E/B	EXPANSION EAST BOUND	SECT, SP.	SECTION SPAN	=		EXISTING DITCHES	350	INDEX CONTOUR	· []
	FTG. GL H, & F	FOOTHG GROUND LEVEL N. HUB AND RED NAL	SPG. S.R. S.R.T.	SPACING SIDE ROAD STATE RAILWAYS OF THAILAND		نم <u>نْ</u> م مر مو .	PARALLEL DITCHES		INTERMEDIATE CONTOUR	1-S-W (10)
	HDWL. HOR.	HEADWALL HORIZONTAL	S.T. STA	SPIRAL - TANGENT STATION				· · · · · · · · · · · · · · · · · · · ·		
	HP\$. H.W.L.	HIGH PRESSURE SODIUM LAMP HIGH WATER LEVEL	STD. STR.	STANDARD Straight			PIPES	··· <del>x ·· x ·· x</del> ··· ·	WOODEN OR BARBED WIRE FENCE	2-S-W (10)
:	HWY. LÓ. IN,	HIGHWAY INSIDE DIAMETER INCH	SYMH. S/8 T.	SYMMETRY OR SYMMETRICAL SOUTH BOUND TANGENT LENGHT, TON		· •	INLETS		BRIDGE, ROAD OVER STREAM	i i i i i i i i i i i i i i i i i i i
	INV. JT.	NVERT	т. Тнк. т,s.	THICKNESS TANGENT-SPIRAL			WATER & WATER VALVE		RAIL ROAD SINGLE TRACK	1-S-C (10)
	кс. Км.	KILOGRAM KILOMETER	TYP, VOL	TYPICAL						· L
	KPH. L	KILOMETER PER HOUR LENGTH OF HORIZONTAL CURVE, LENGTH	V.C. V.	LENGTH OF VERTICAL CURVE VELOCITY			UNDERGROUND TELEPHONE & MANHOLE		KHLONG OR RIVER	2-S-C (10)
	LEV. L.M. UPS.	LEVEL LINEAR METER LOW PRESSURE SODIUM LAMP	W. W/ W/B	WIDENING WITH WEST BOUND	-	<u>е</u>	ELECTRIC		OTTCH , WATERWAY	
•	L.S.	SUPERELEVATION TRANSITION LENGHT	W/O X SECT.	WITHOUT CROSS SECTION	.	O	UNDERGROUND ELECTRIC		FLOW DIRECTION	
	LT. L.V.C.	LEFT LENGTH OF VERTICAL CURVE	ê.	CENTERLINE PROPERTY LINE		— PT—— PT—	POWER TRANSMISSION LINE	<u>ــــــ بند</u>		1-S-W
	L.W.L.	LOW WATER LEVEL	\$ *	SPUR LINE OR SURVEY LINE PERCENT			WIDI STEEL TOWER		SWAMP AREA	<u> </u>
	M. <sup>2</sup> M.3 MAG A	SQUARE METER CUBIC METER MAGNETIC AZIMUTH	æ Ç	AND SPACING INCH		<b>W</b>	WOODEN ELECTRIC POLE	<u></u> WM	BILLBOARD, SINGLE FACE	2—S—W
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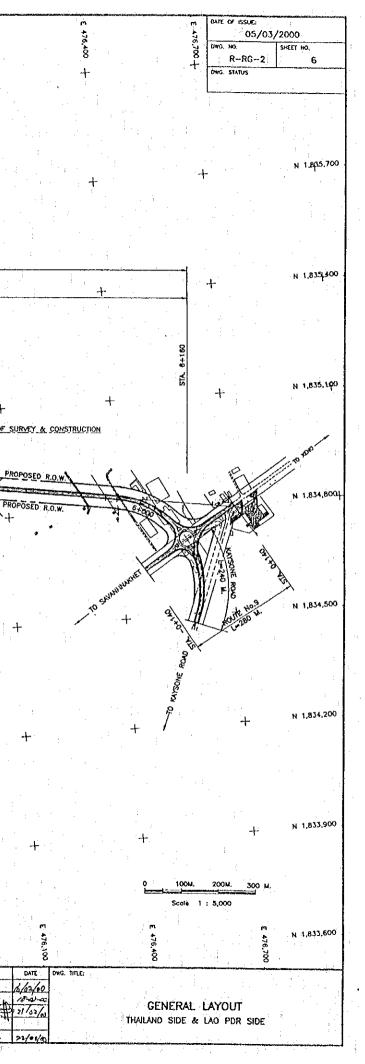
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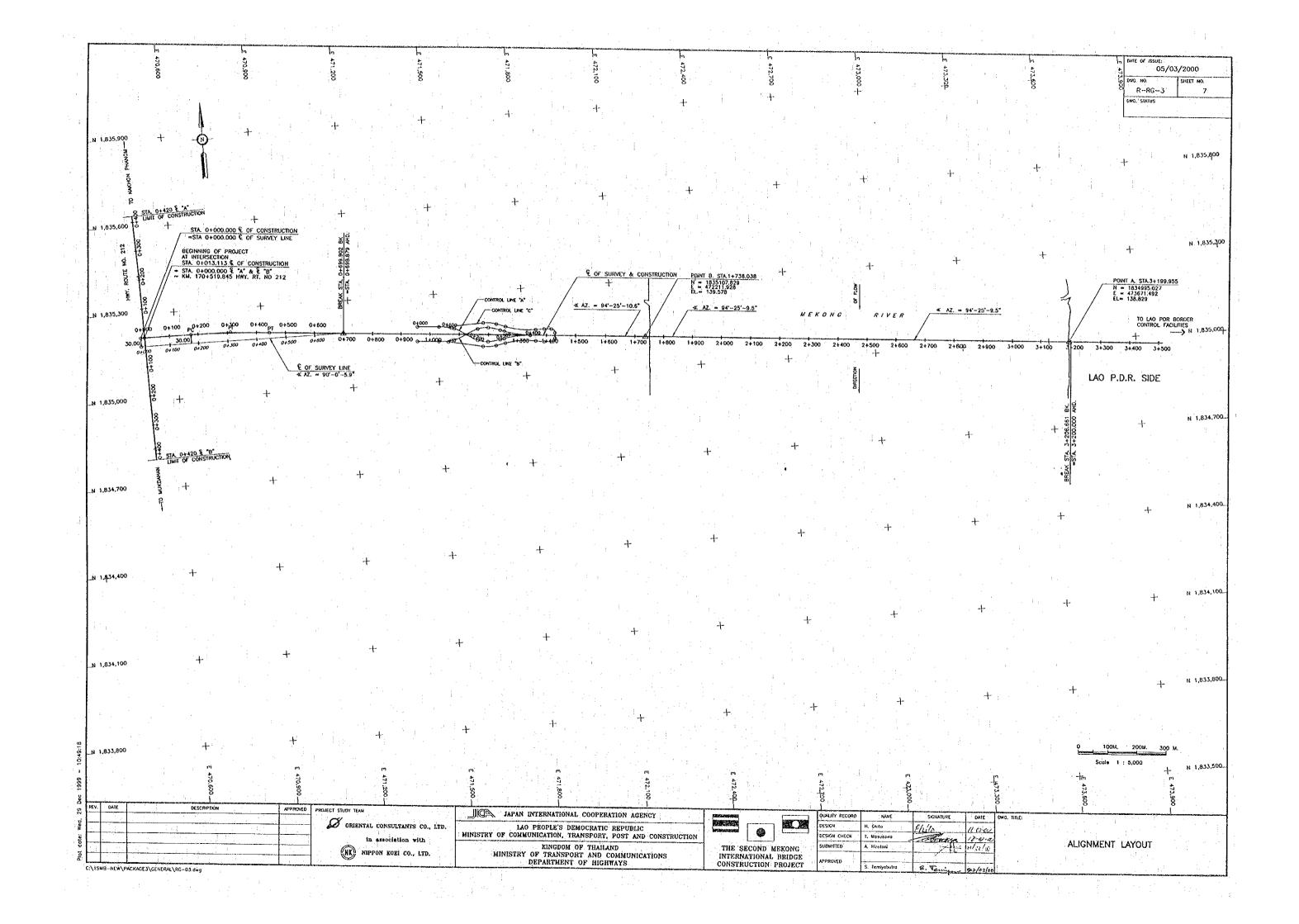
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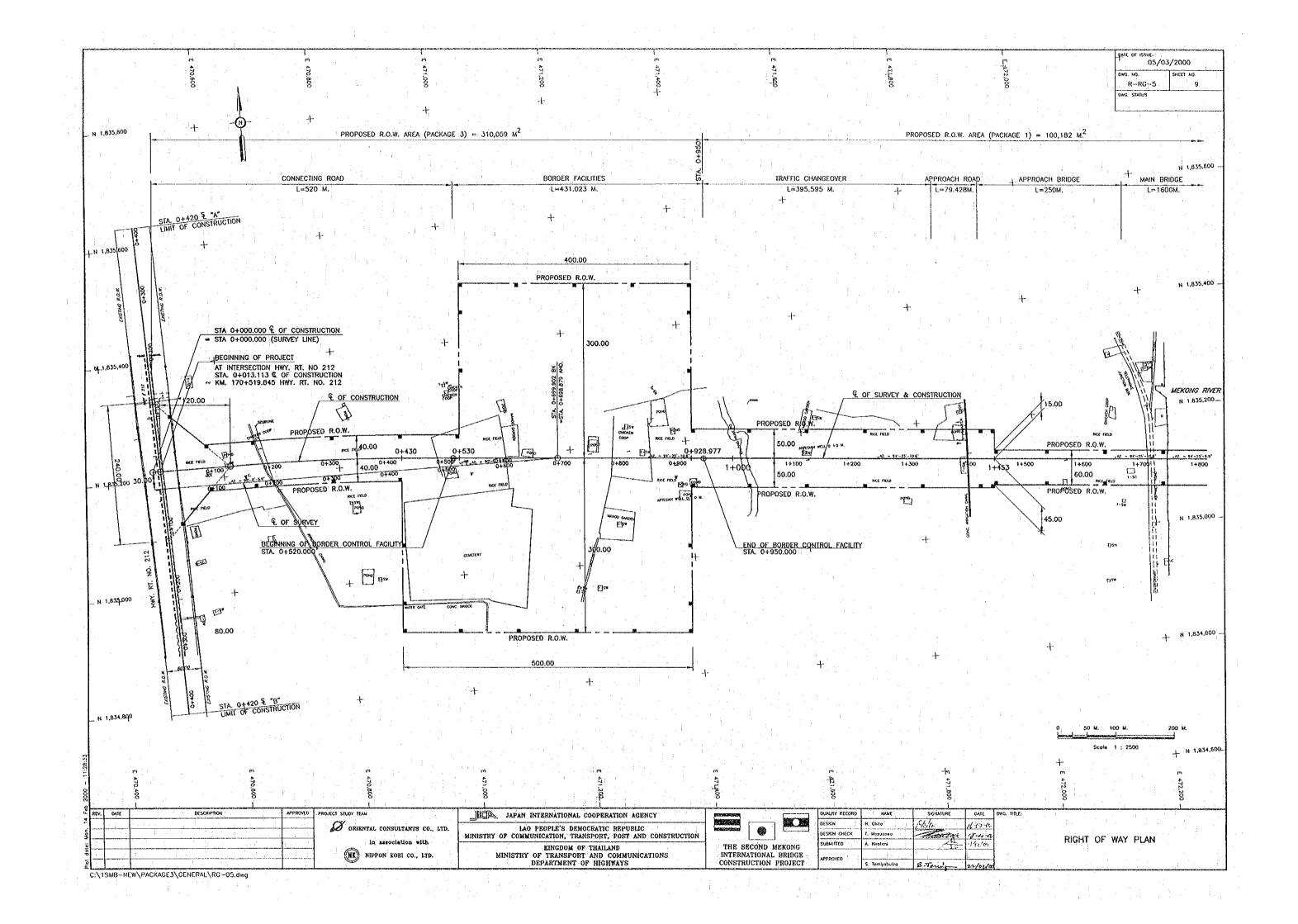


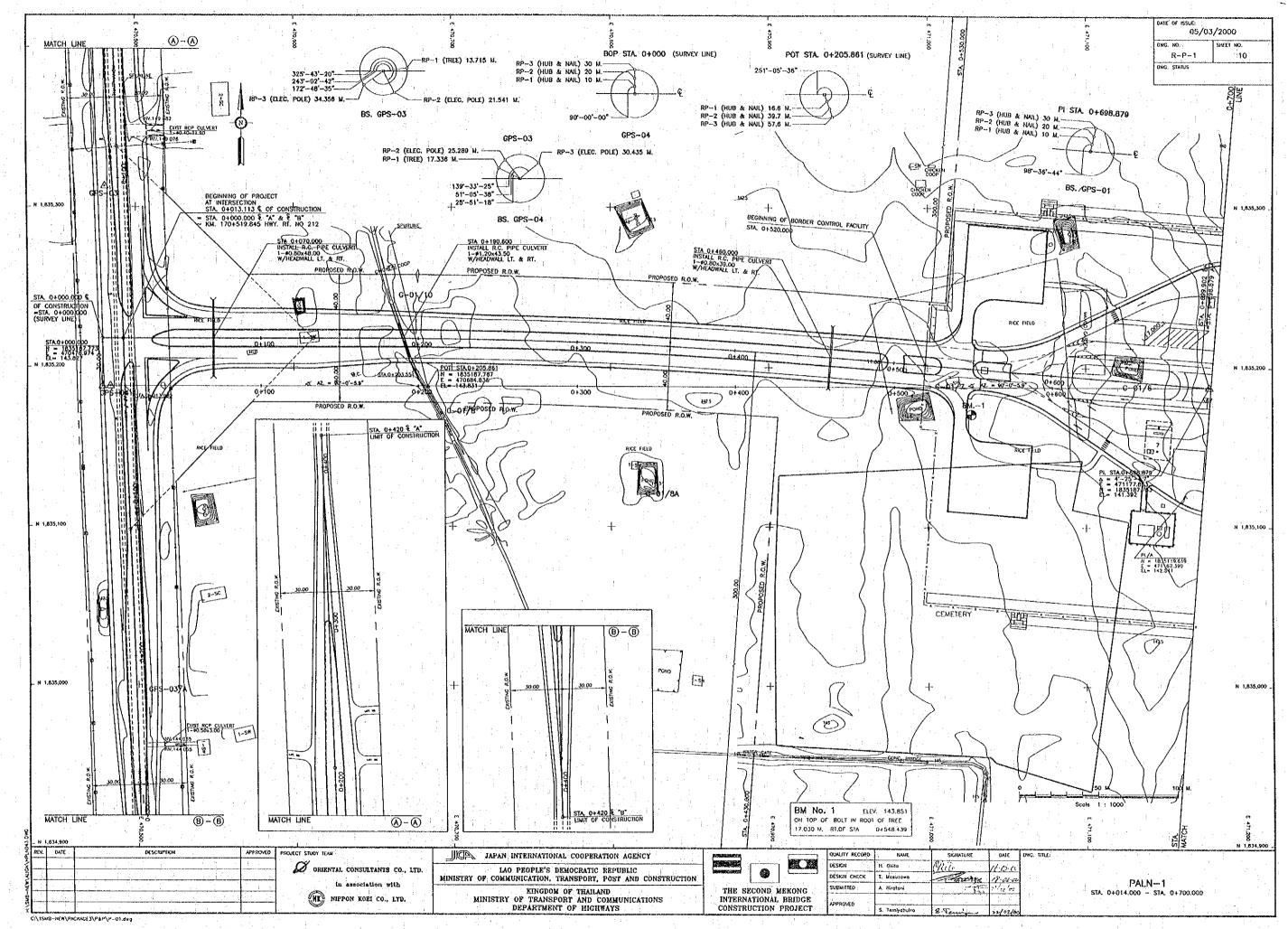
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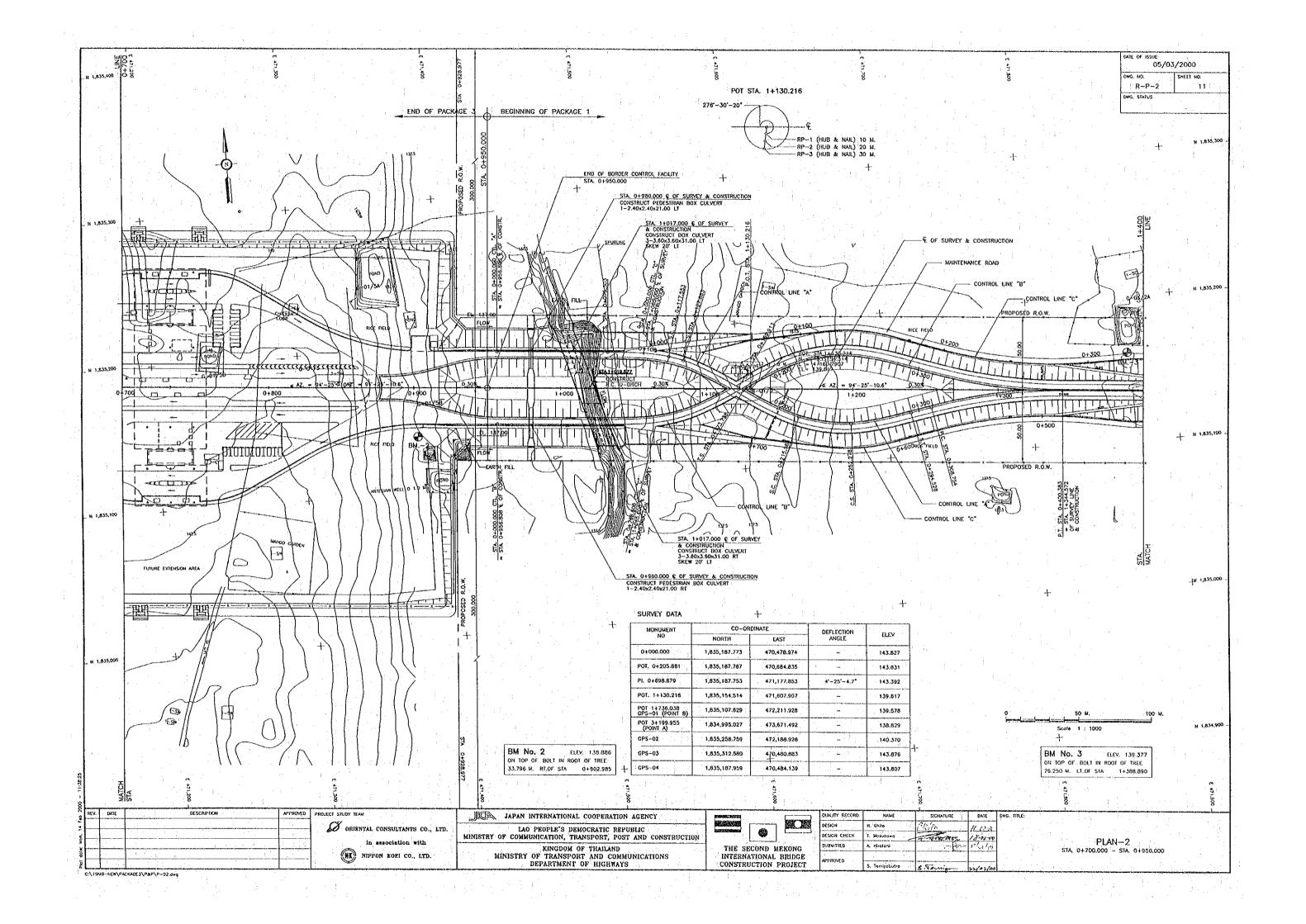
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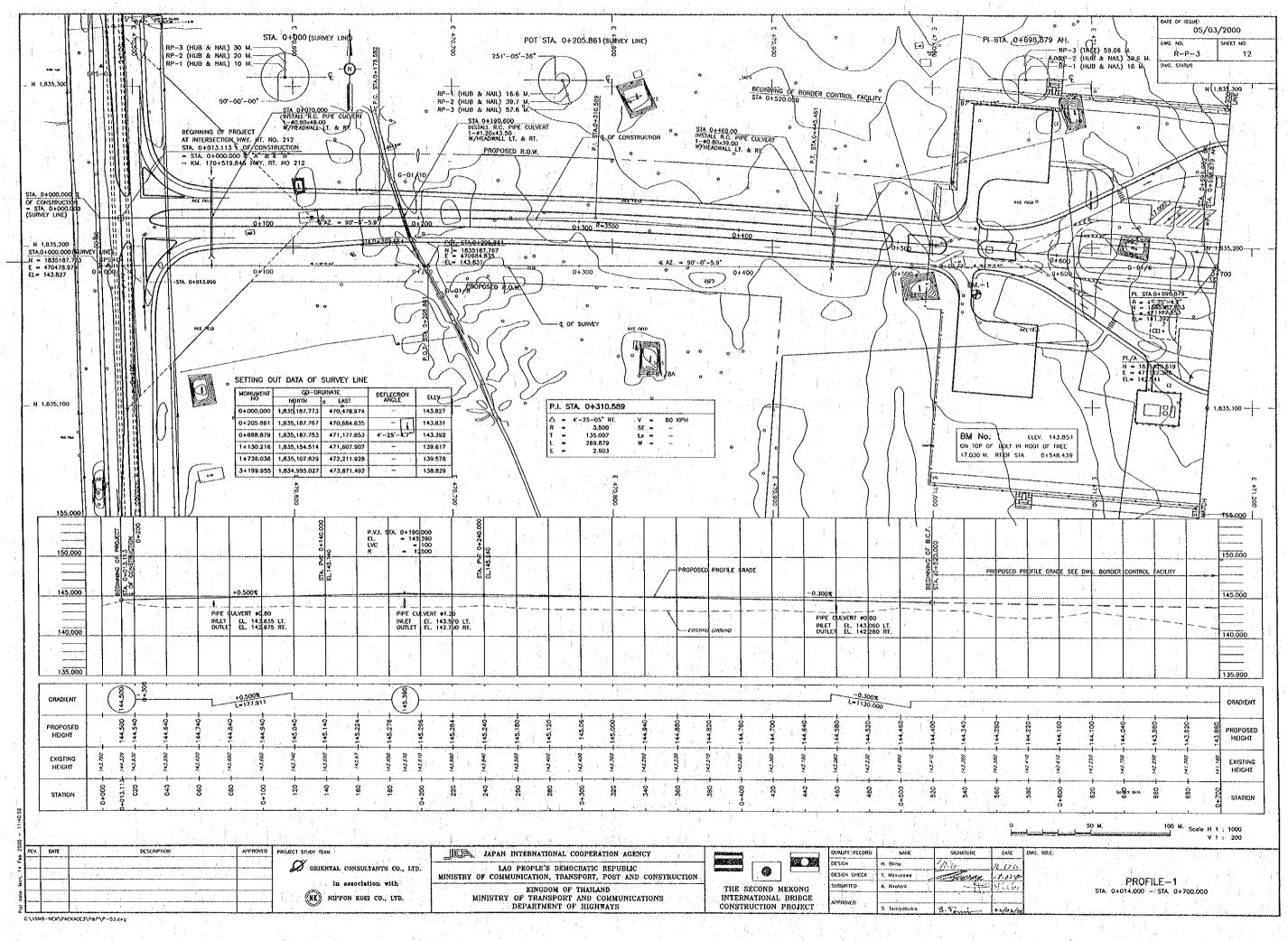
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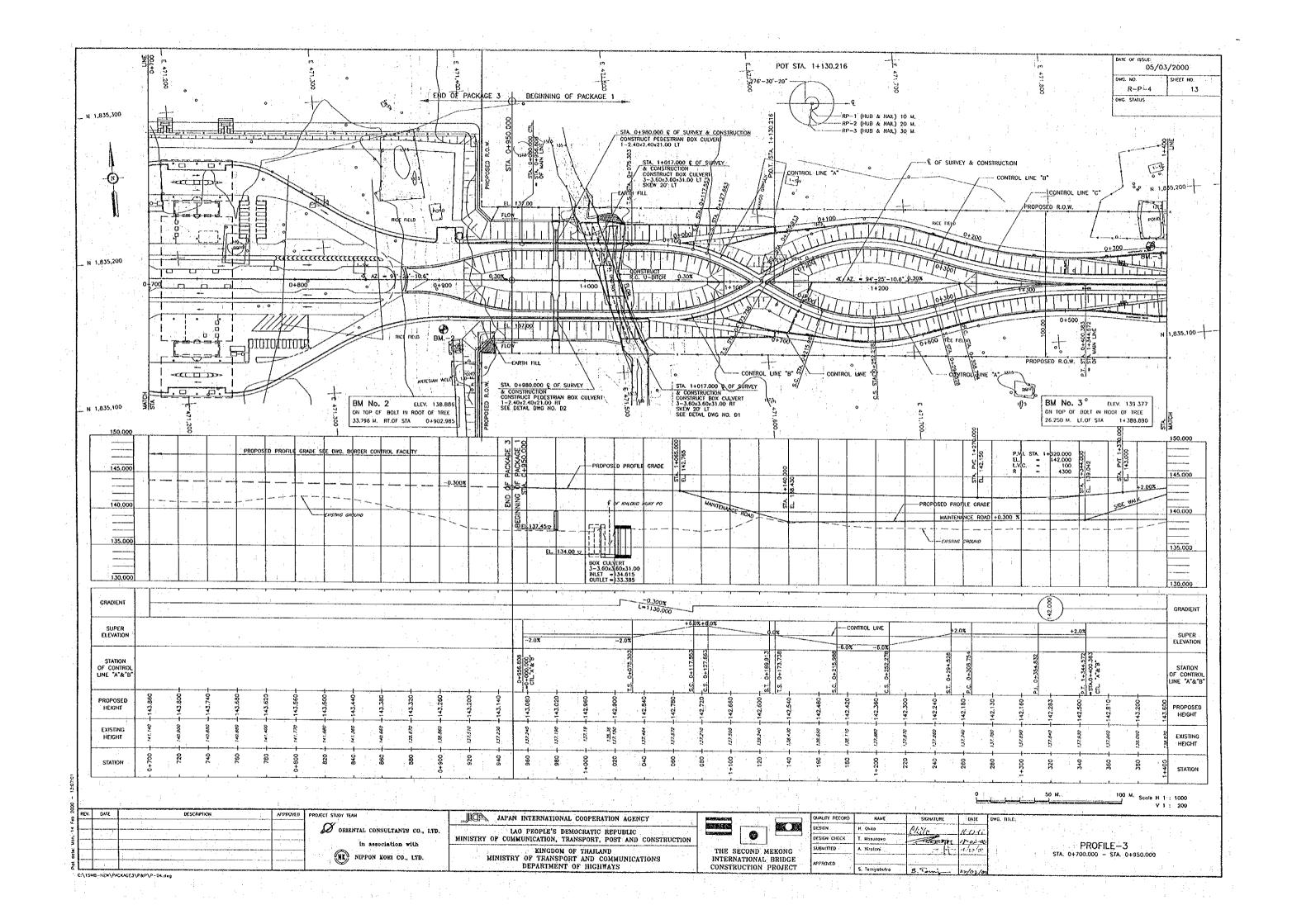


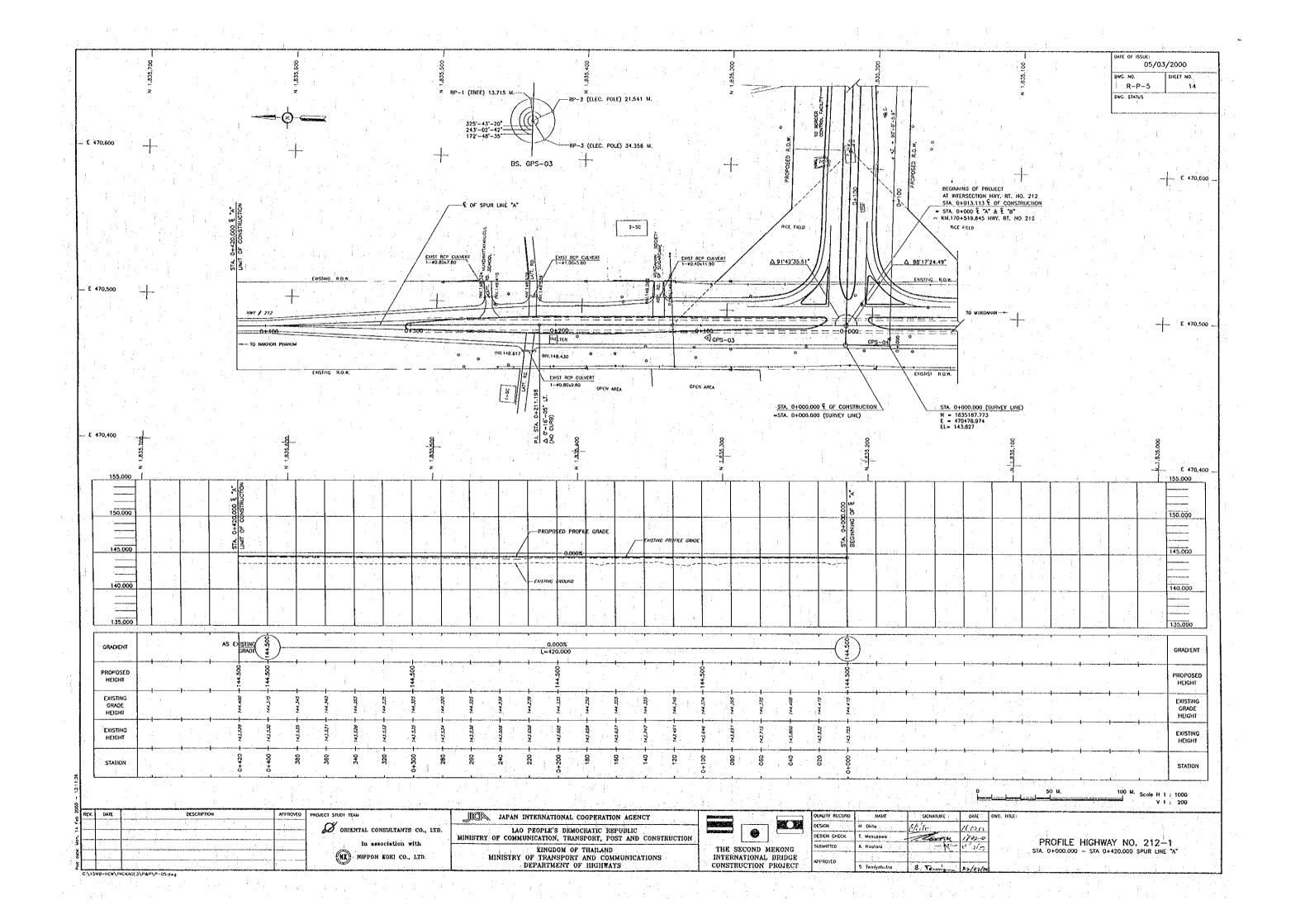


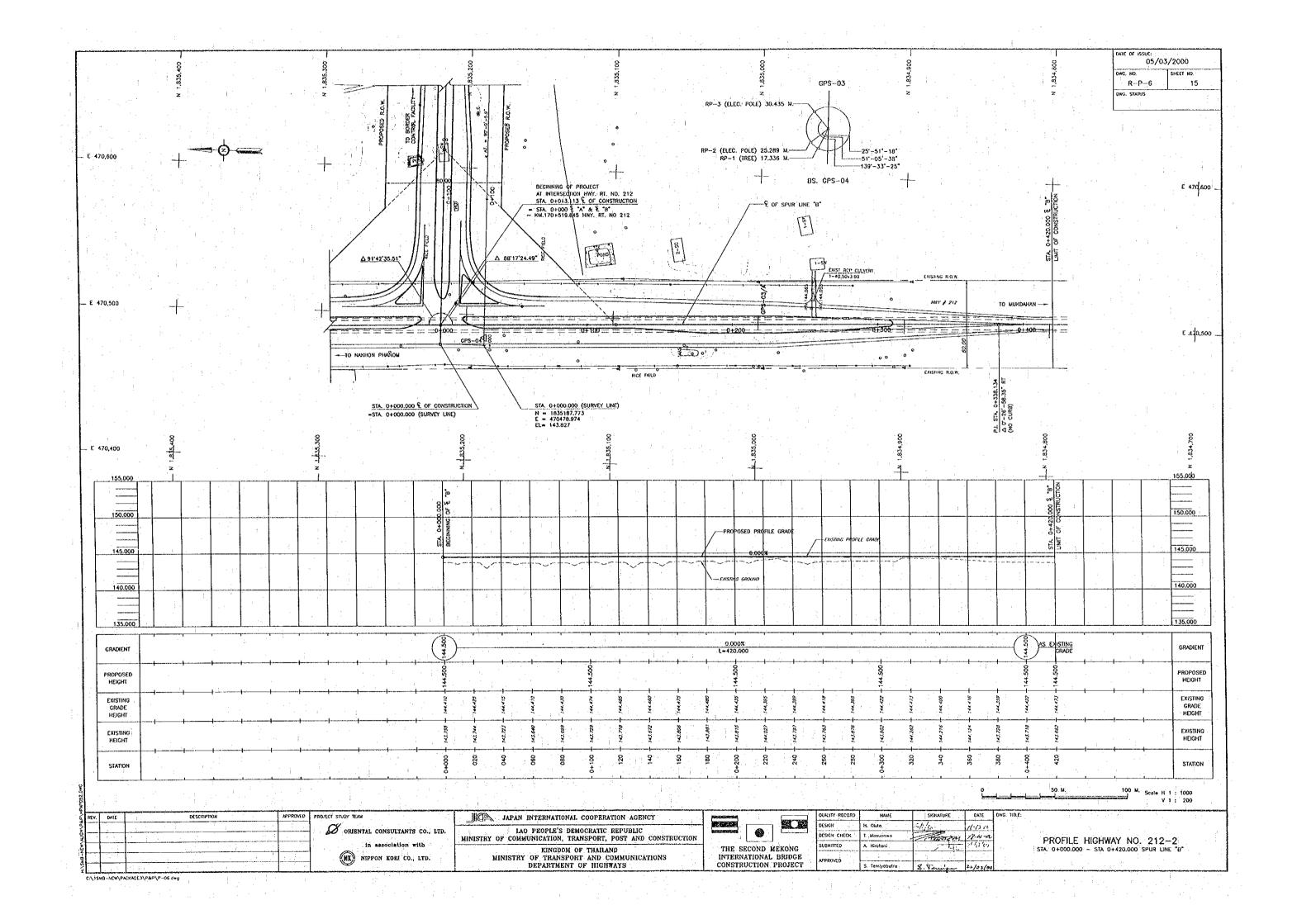
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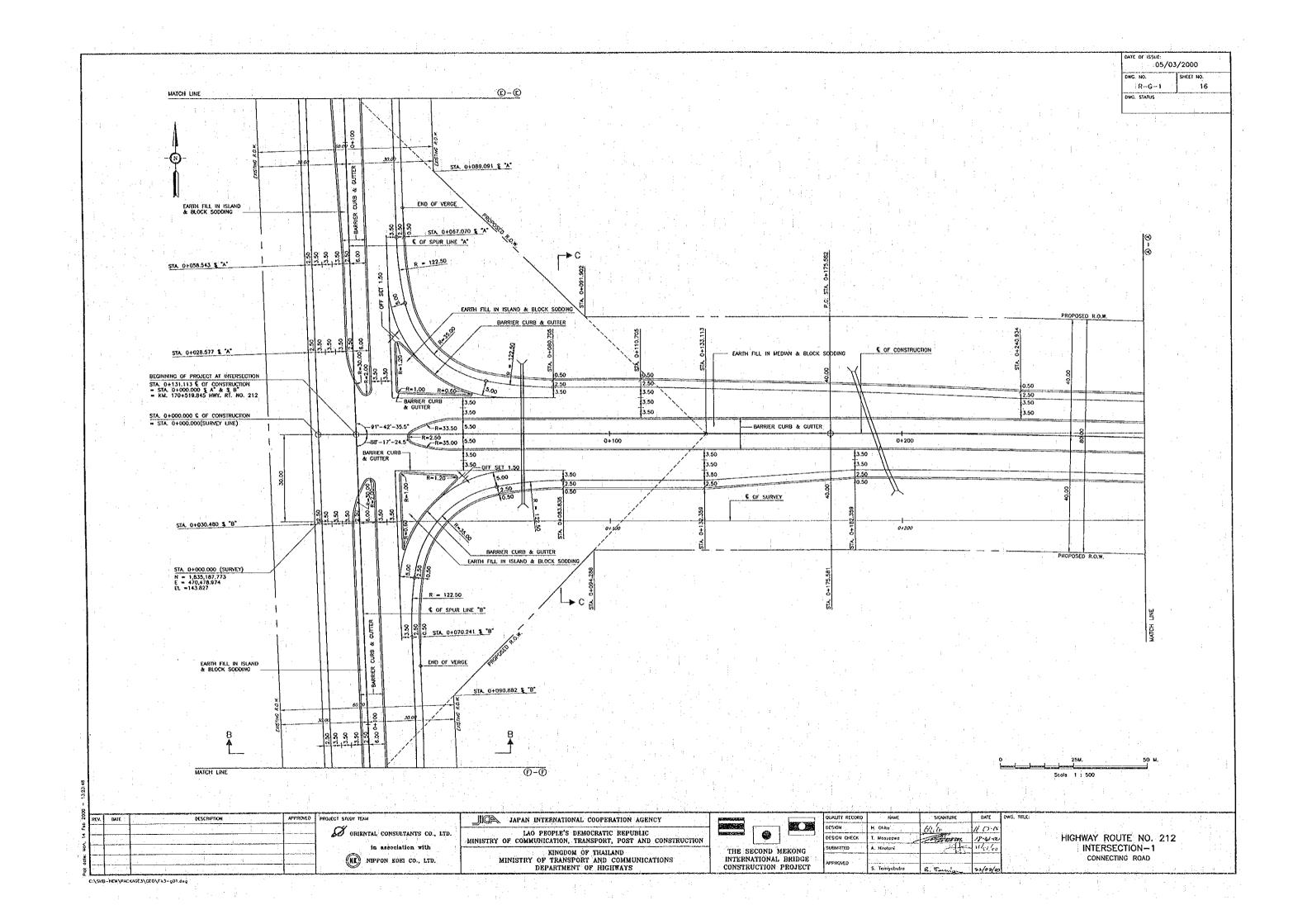




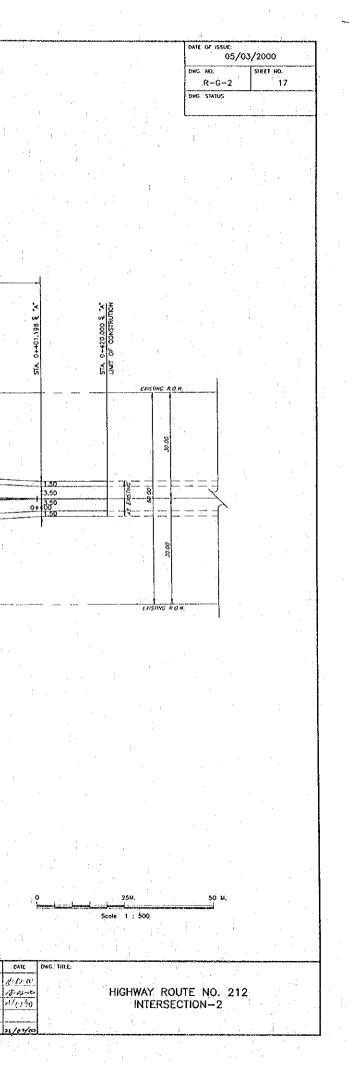






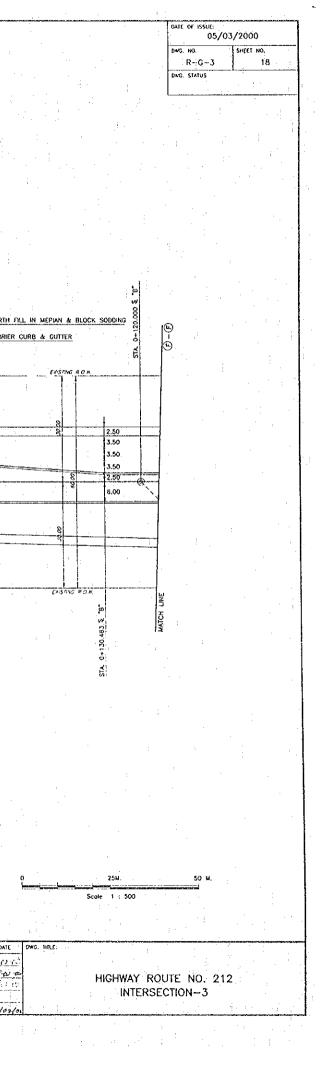


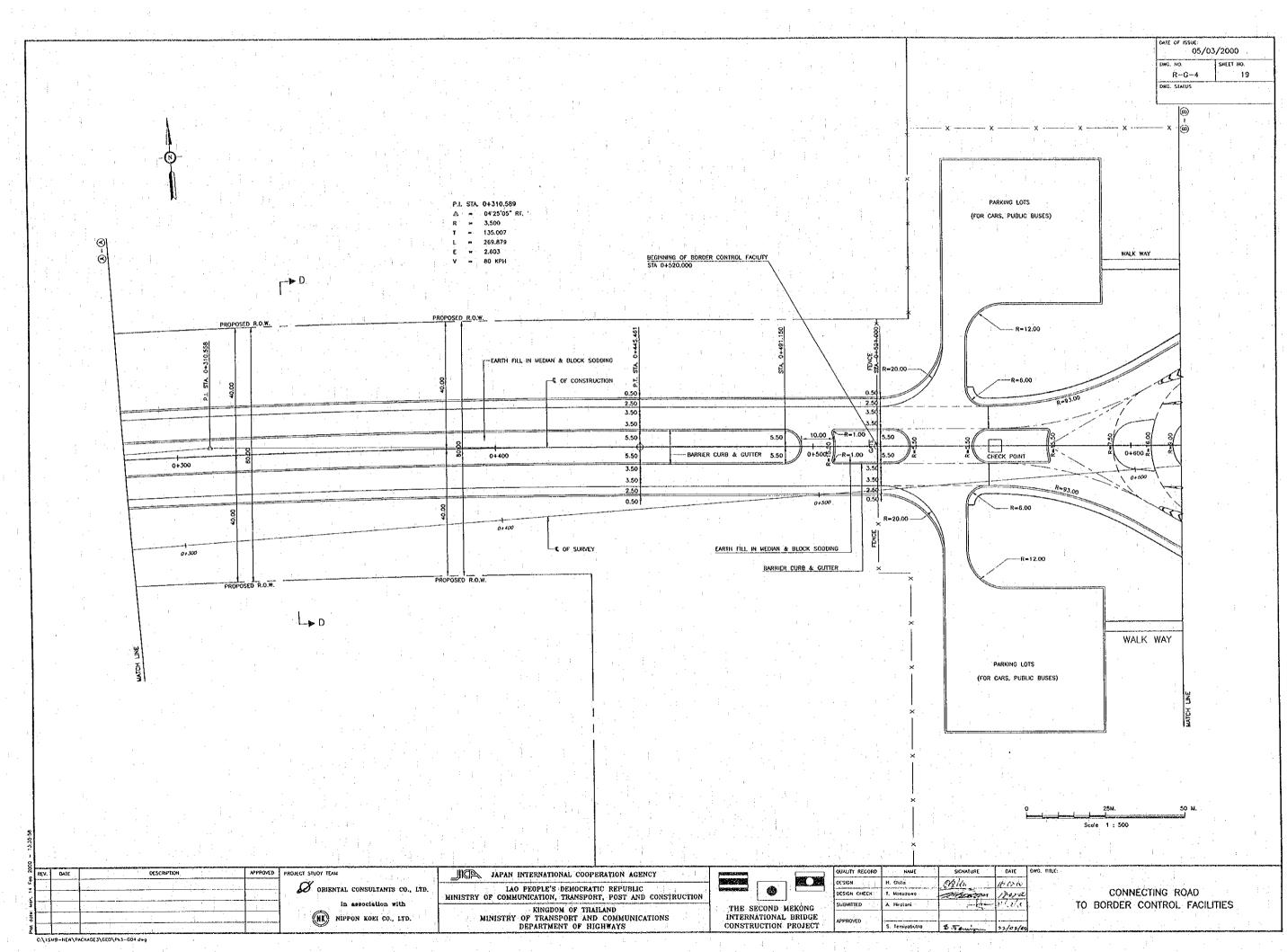
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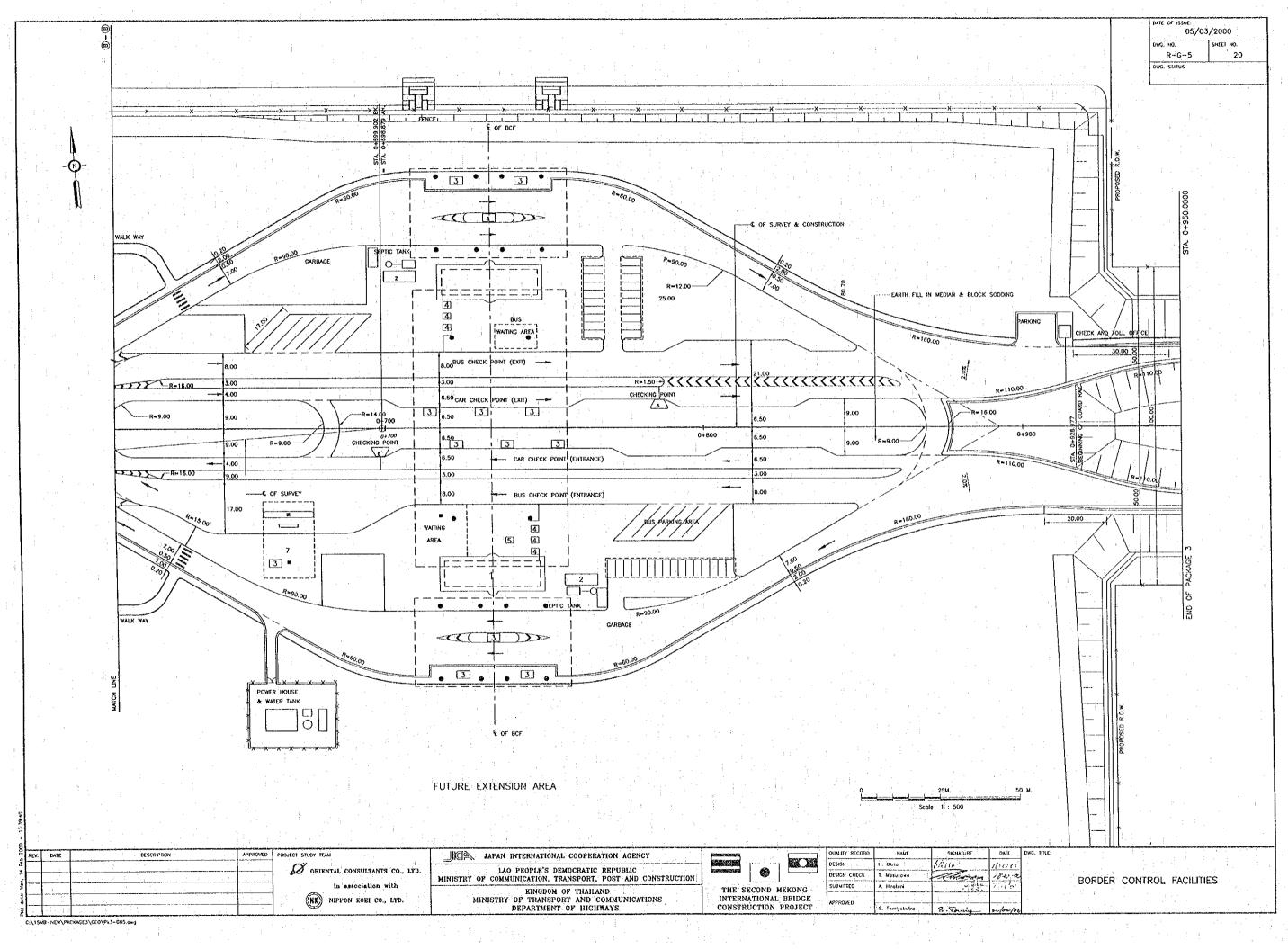


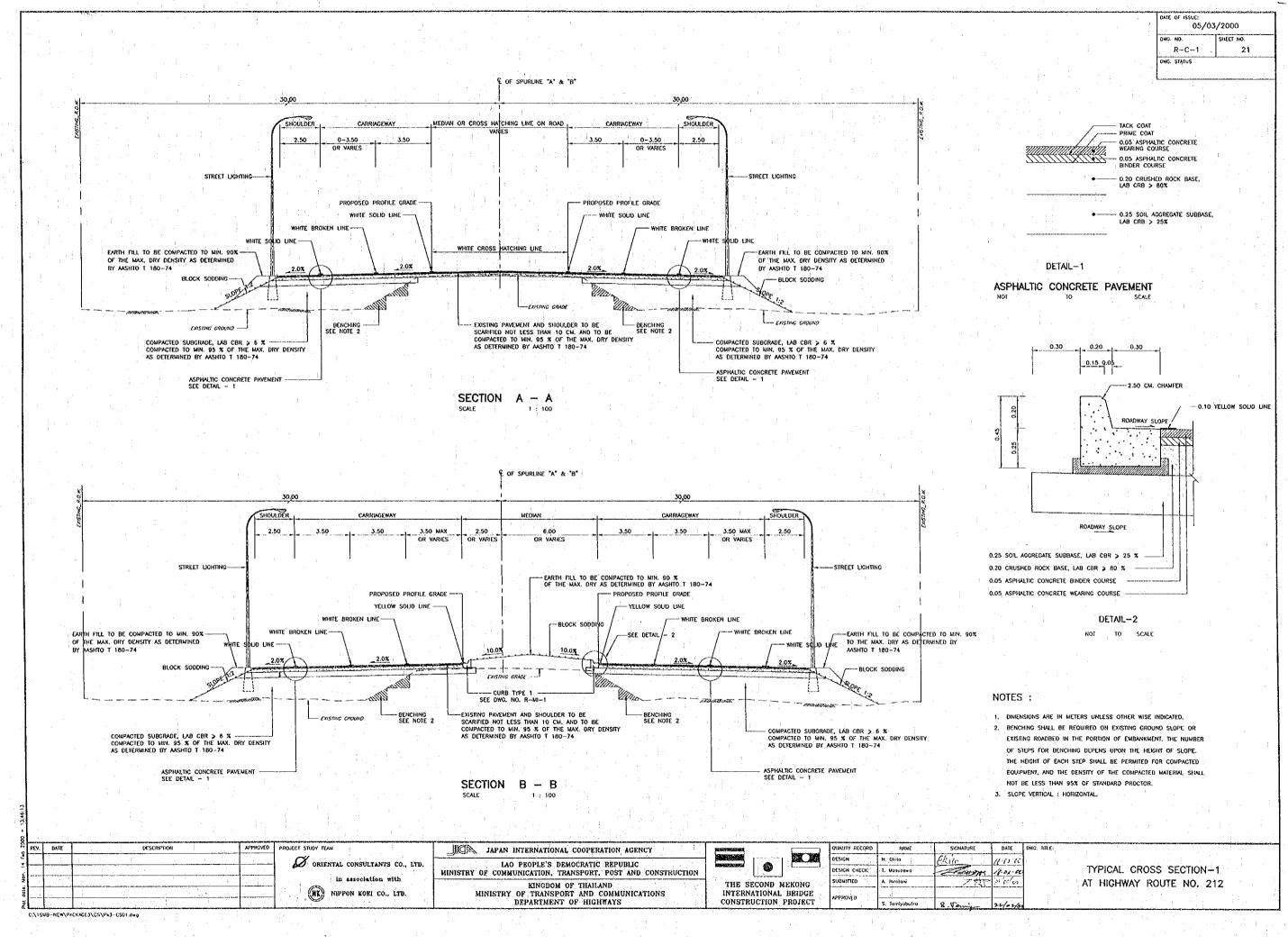
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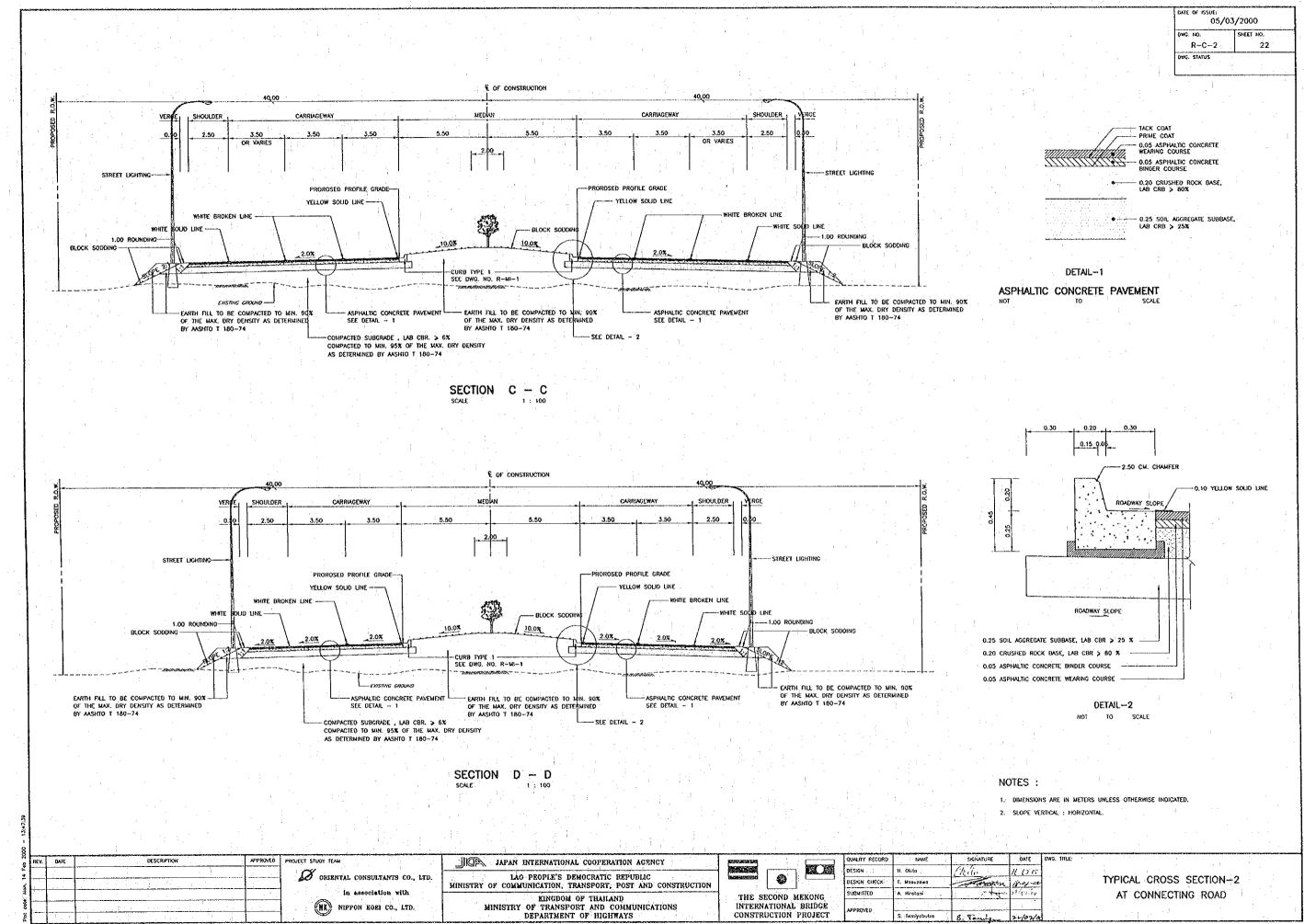








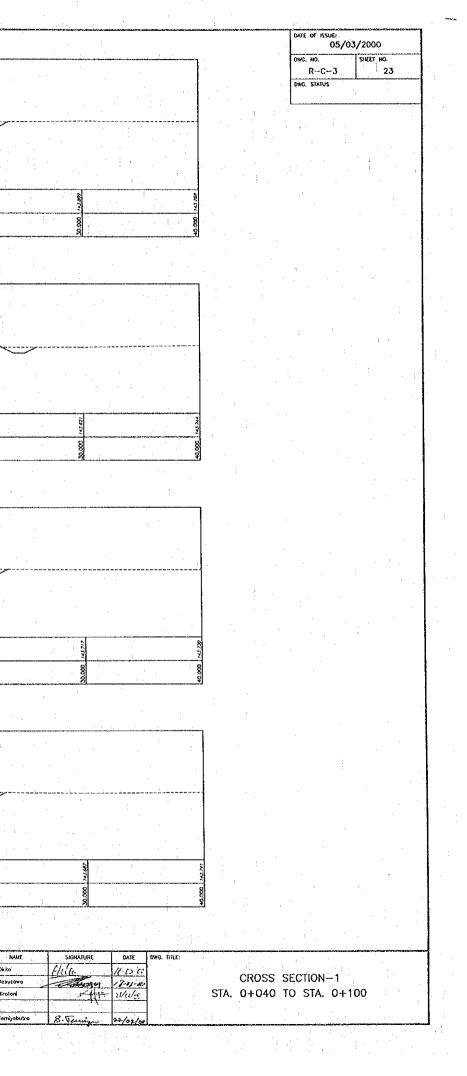
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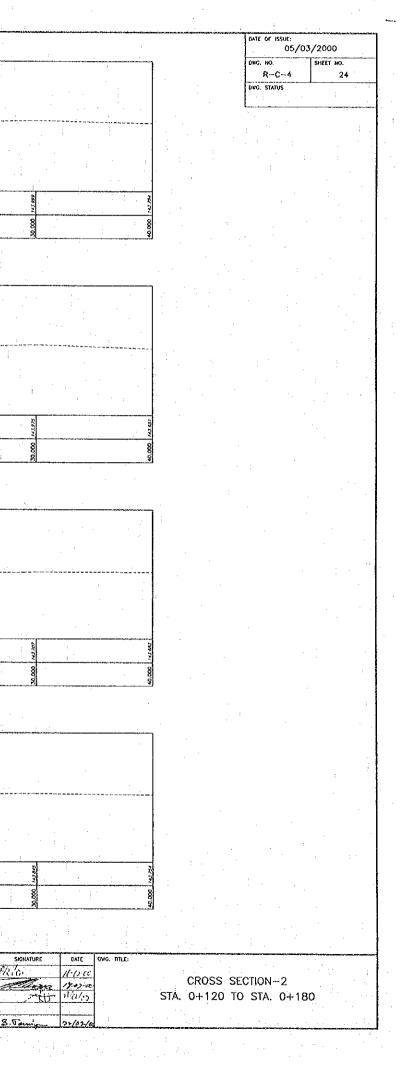
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KINGDOM OF THAILAND MINISTRY OF TRANSPORT AND COMMUNICATIONS DEPARTMENT OF HIGHWAYS

(III) NIPPON KOBI CO., LTD.

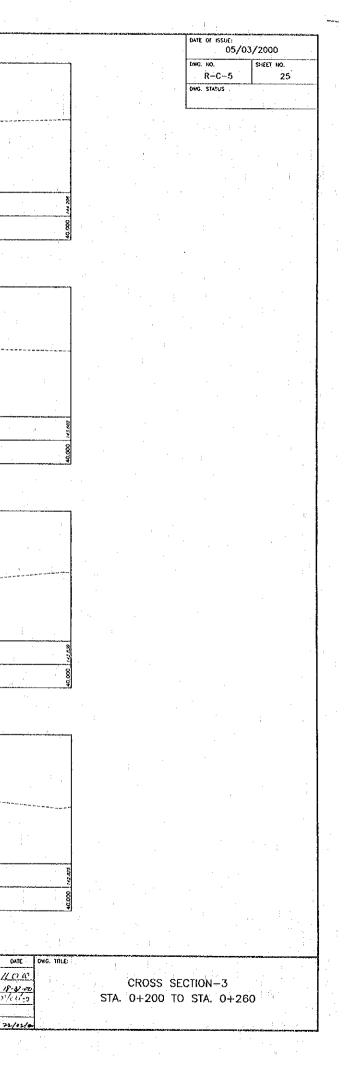
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THE SECOND MEKONG INTERNATIONAL BRIDGE CONSTRUCTION PROJECT

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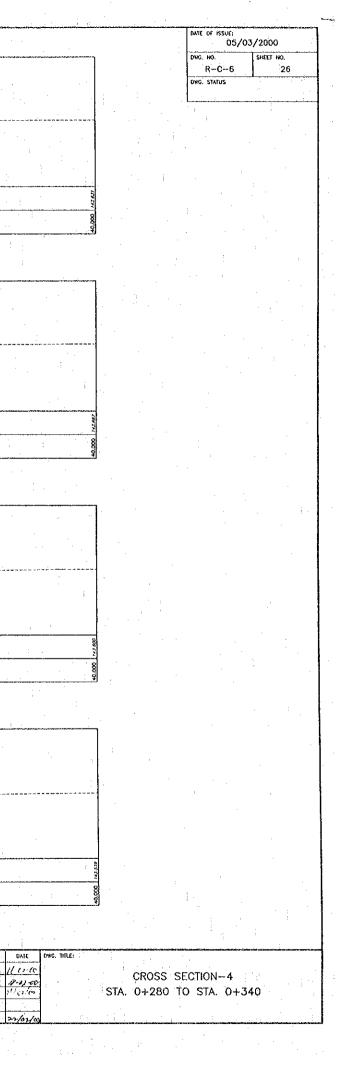
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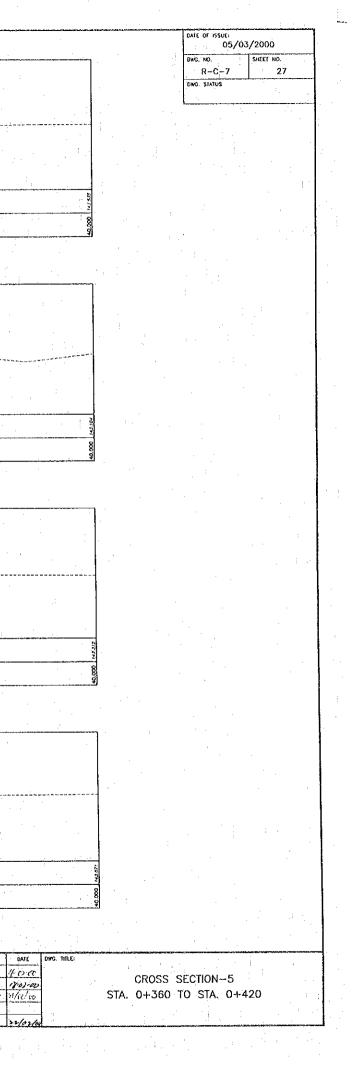
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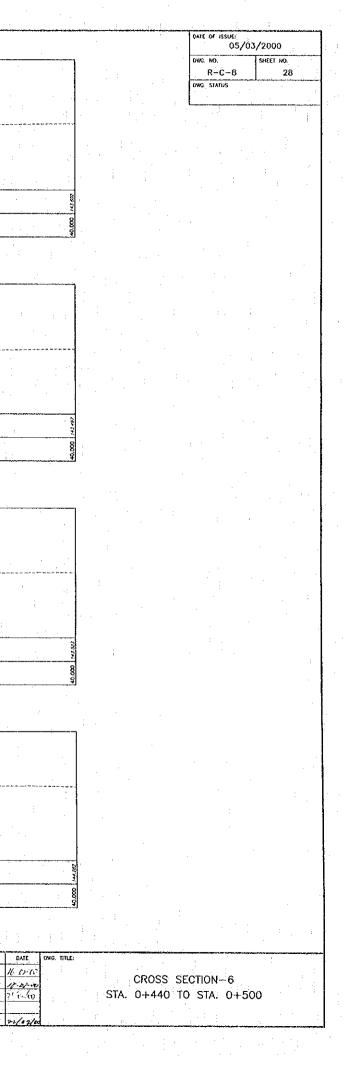
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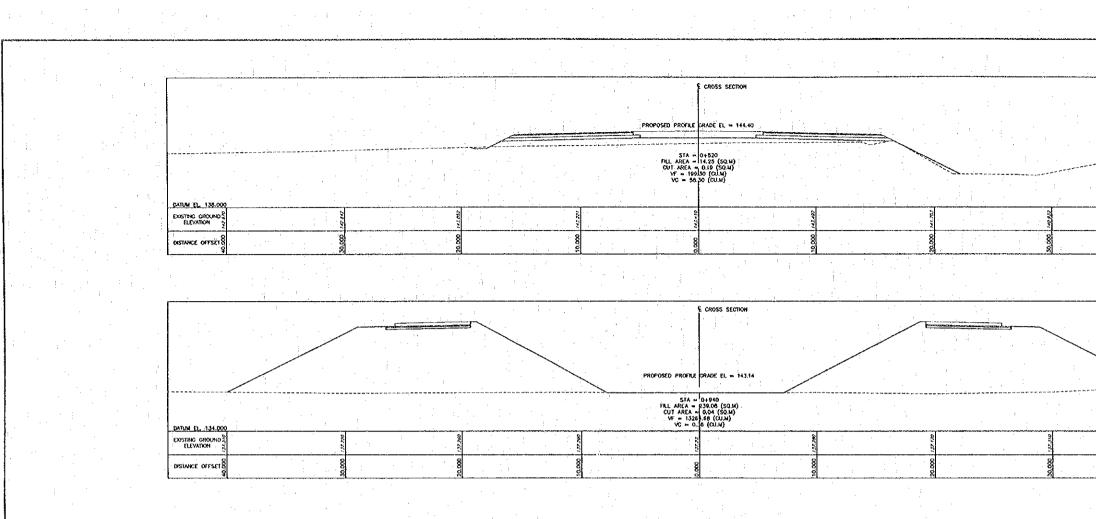
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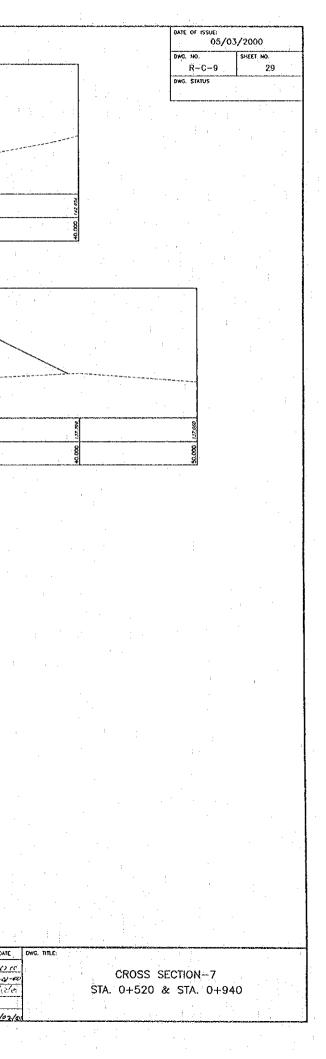


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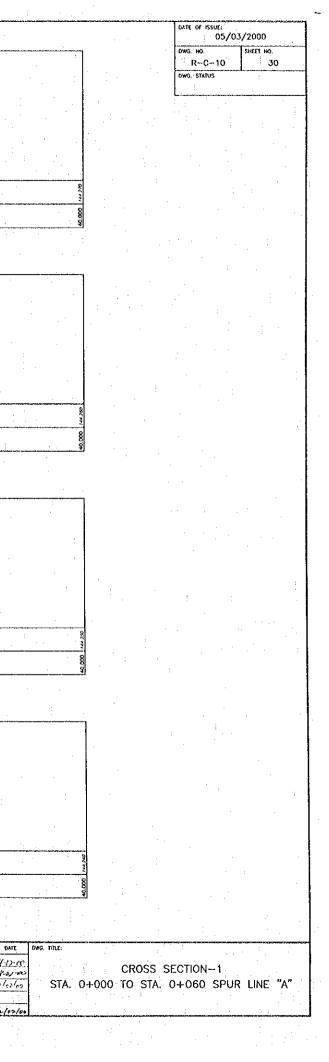
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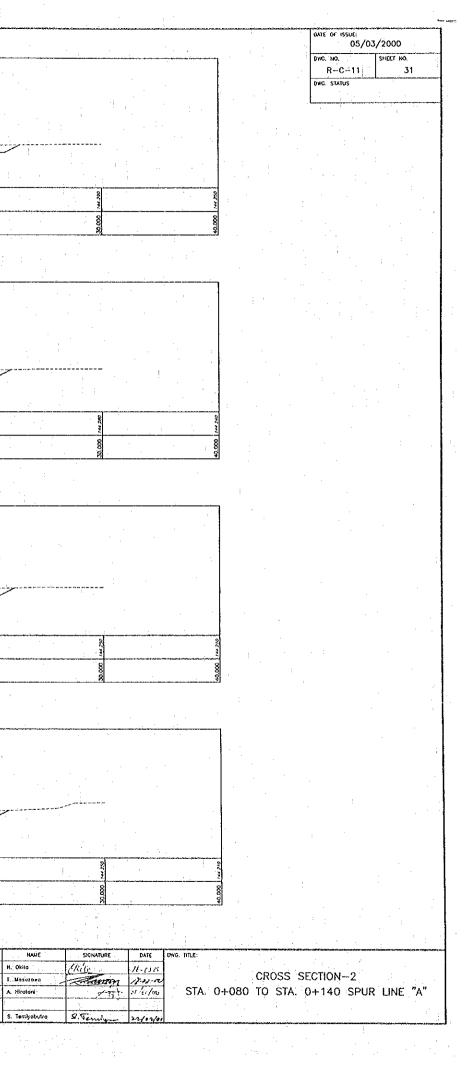
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· · · · · ·					STA = 10+220 FILL AREA = 1.00 (SM) CUT AREA = 1.30 (SM) VY = 3473 (CM) VC = 3440 (CM)			
	DATUM EL 140.000				<u> </u>	8	<u>.</u>	
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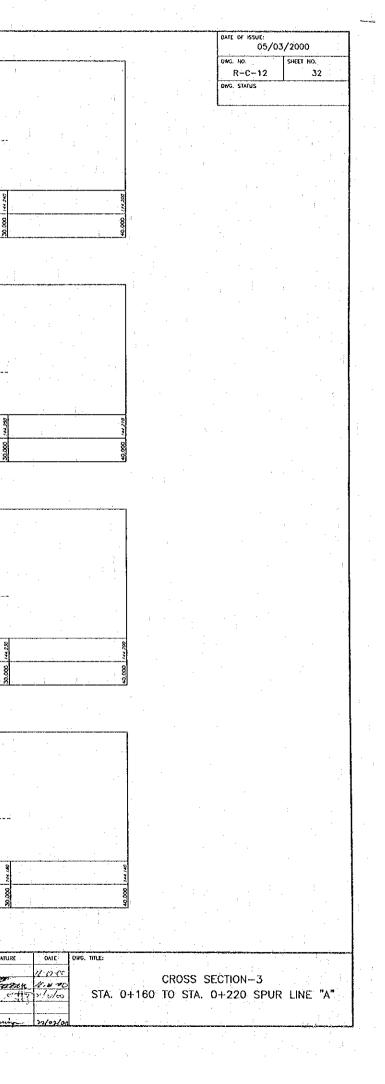
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THE SECOND MEKONG International Bridge Construction Project KINGDOM OF THAILAND MINISTRY OF TRANSPORT AND COMMUNICATIONS DEPARTMENT OF HIGHWAYS

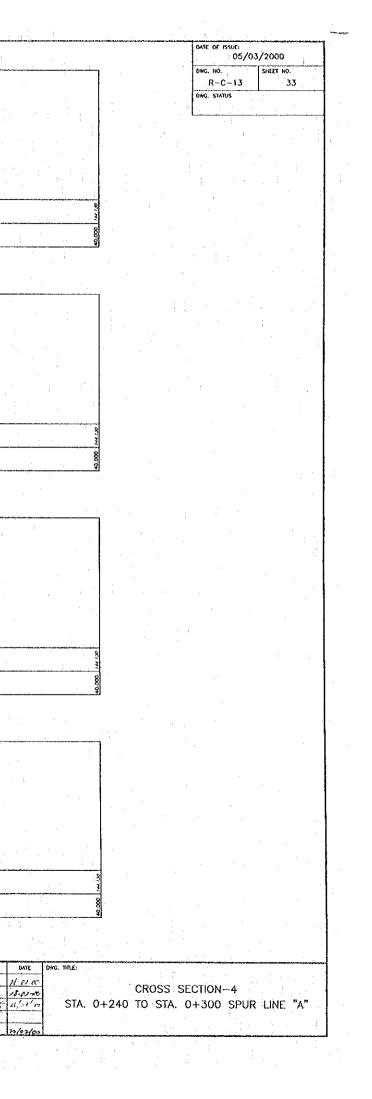
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				proposed profile grade				
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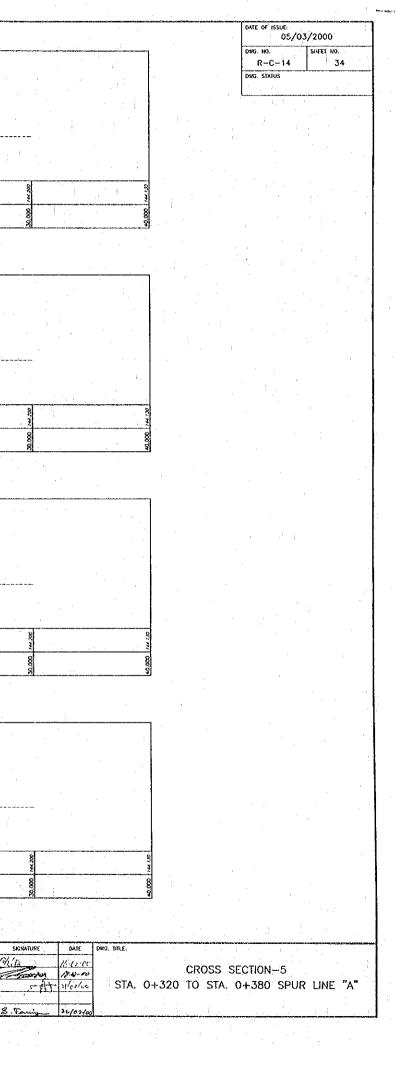
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LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION, TRANSPORT, POST AND CONSTRUCTION KINGDON OF THAILAND MINISTRY OF TRANSPORT AND COMMUNICATIONS DEPARTMENT OF HIGHWAYS

9 DESIGN CHECK T. Masuzawa THE SECOND MEKONG INTERNATIONAL BRIDGE CONSTRUCTION PROJECT SUBMITTED A Hiroloni APPROVED S. Temiyobutra

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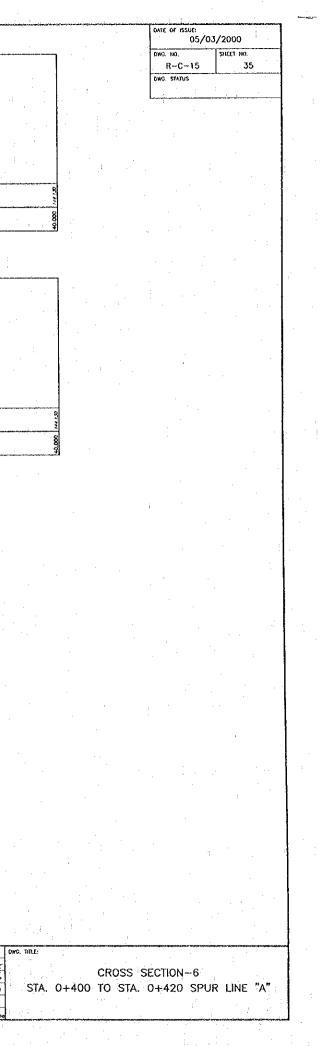
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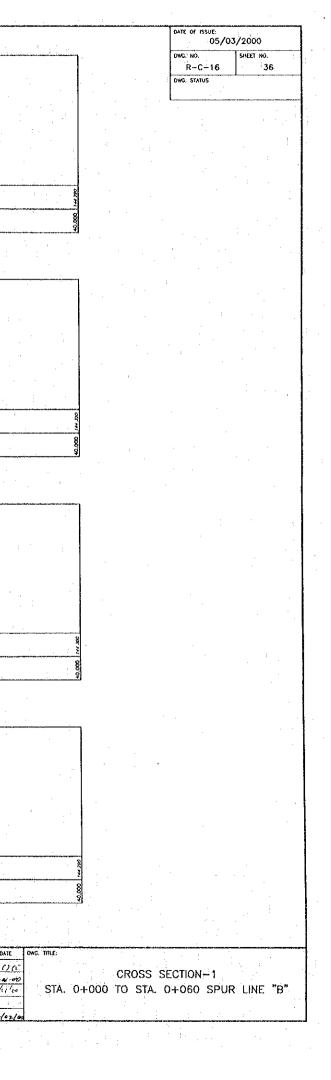
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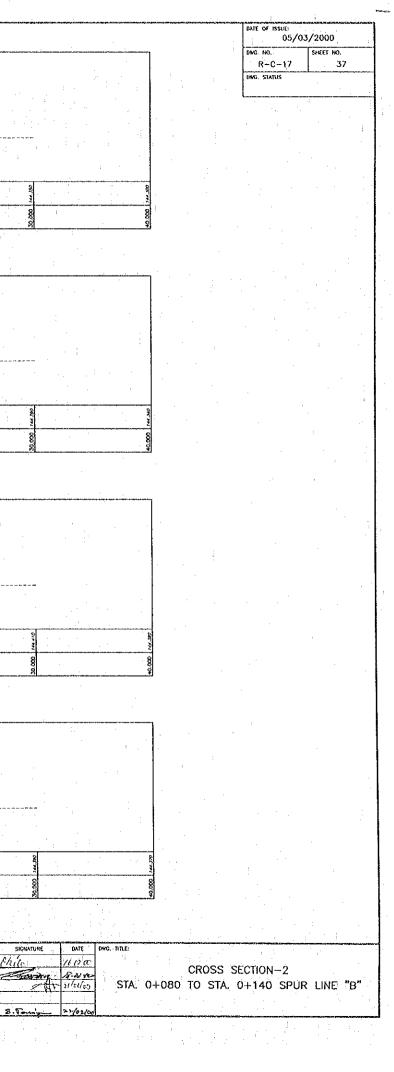
THE SECOND MEKONG INTERNATIONAL BRIDGE CONSTRUCTION PROJECT

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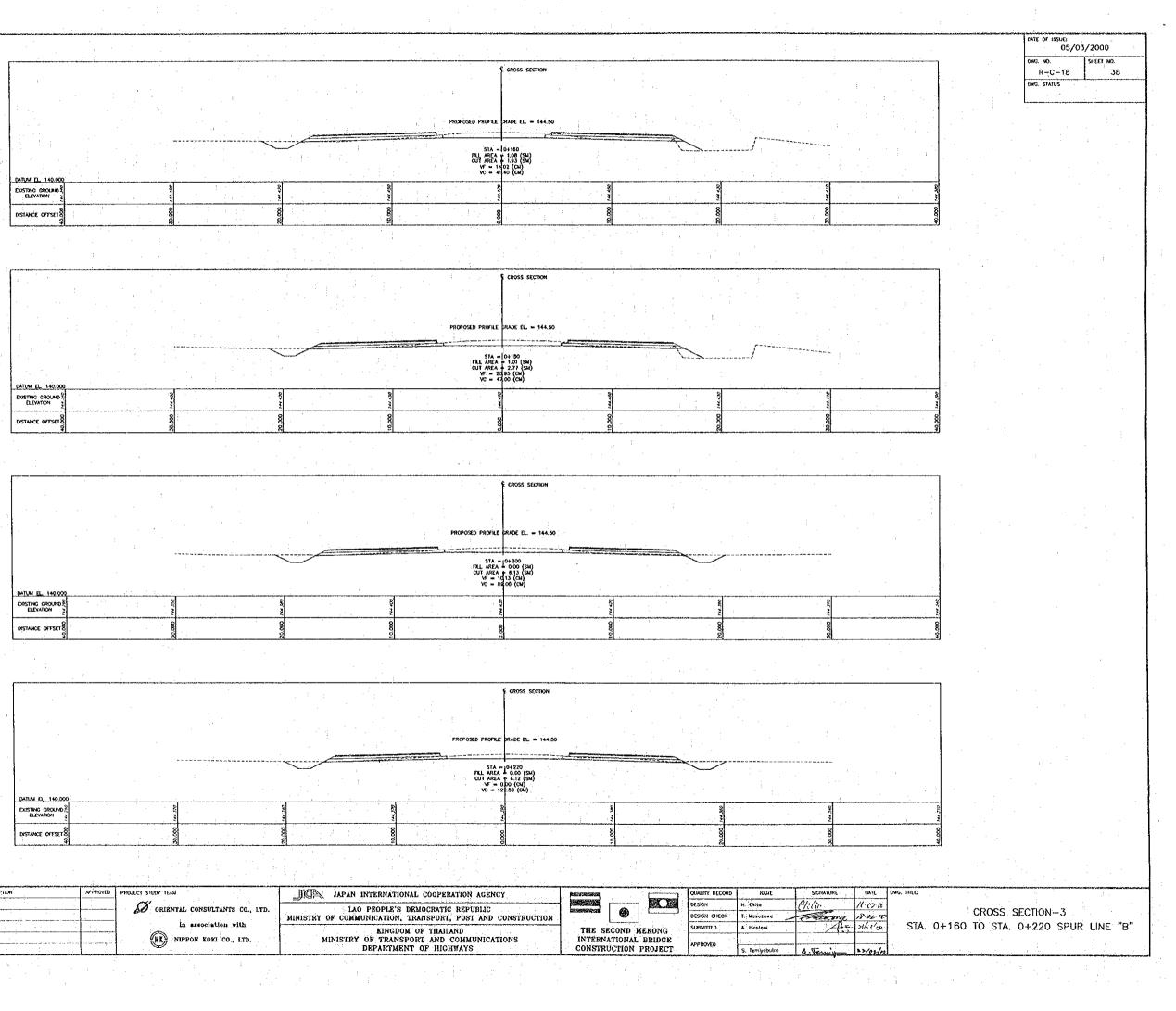


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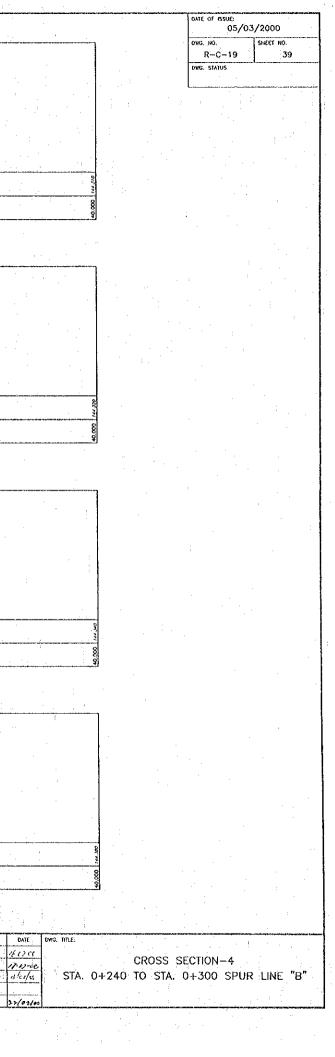
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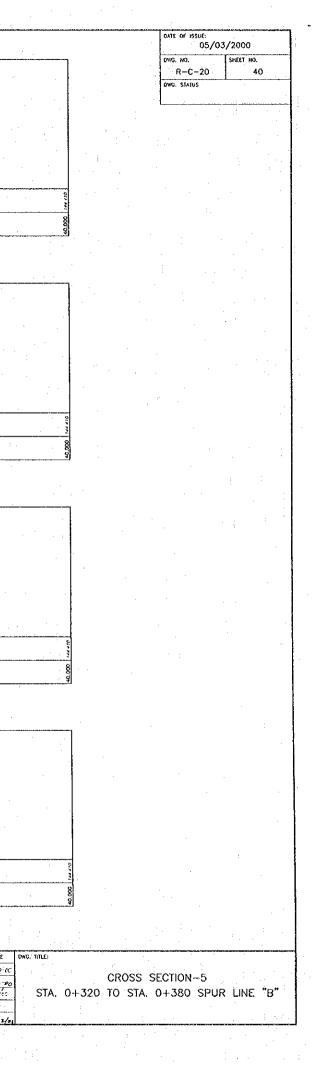


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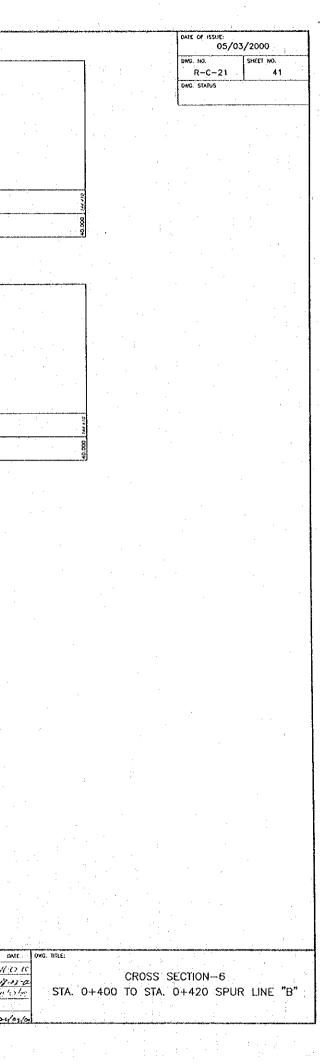
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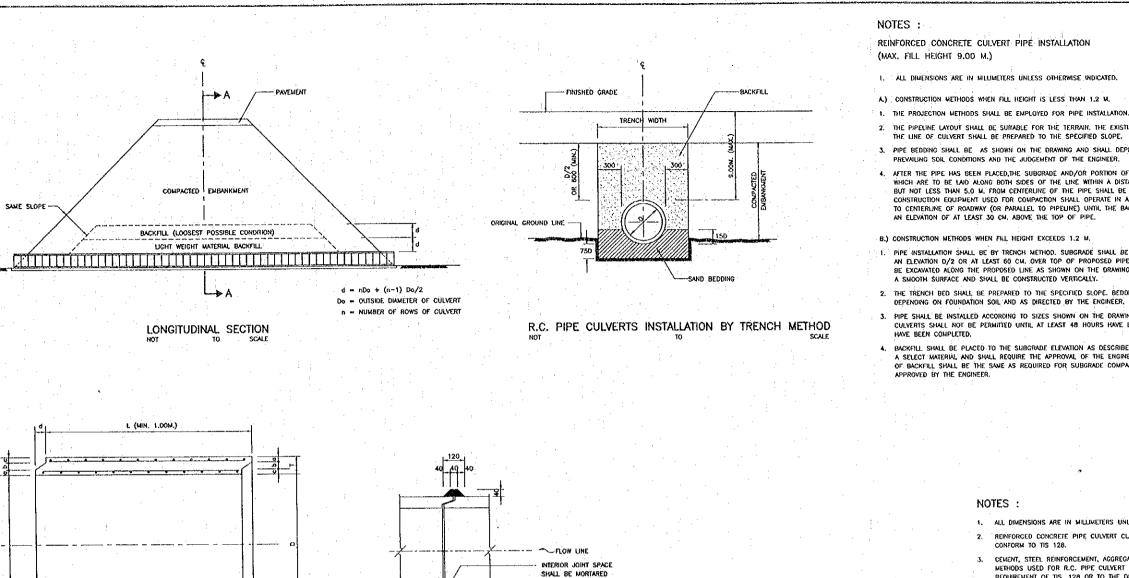
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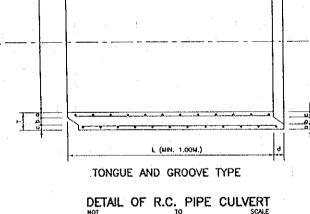
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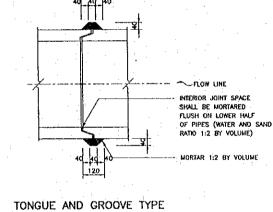
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### PIPE CONNECTION DETAILS SCALE



ULTIMATE STRENGTH OVER FILL ON

	TADL
	TABLI

	INSIDE	WALL	PIP	e end d	ETAILS (H	(M.)
R.C. PIPE CULVERT CLASS	OWNETER (D)	THICKNESS (T)	TONGUE & GROOVE TYPE			
	(MM.)	(MM.)	a	۵.	'e -	d
• •	600	75	28	15	32	40
2	800	95	38	15	42	45
	1200	125	48	25	52	50

TABLE	2
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NOTES :

2.

R.C. PIPE CULVERT CLASS	DAMETER (D)	WALL THICKNESS (T)			TO PRODUCE 0.03 CM. CRACK WIDTH AND 30 CM. CRACK LENGTH	MAXIMUM CRUSHING LOAD (KG./M.)	FOR 15x30 CM. CONCRETE CYLINDER AT 28 DAYS AGE	R.C. PIPE CULVERT NOT MORE THAN
	(MM.)	(MM.)	INNER CAGE	ONTER CAGE	(KG./W.)		(KG./CM. <sup>2</sup> )	(METERS)
2	600	75	5.7	~	6,120	9,180	j'	<b>1</b>
	800	95	5.8	· 4,1	8,160	12,240	280 (350)	> 10.0
· ·	1200	125	8.9	6.8	12,240	18,360		
L	I <u></u>	I	I		I	<b></b>	<b>1</b>	

CRUSHING LOAD

TABLE 1

FIGURES IN PARENTHESIS ARE ULTIMATE STRENGTH FOR 15X15X15 CM. CONCRETE CUBE AT 28 DAYS AGE.

MIN. CIRCULAR

Ř	REV.	DATE	DESCRIPTION	APPROVED	PROJECT STUDY TEAN	JAPAN INTERNATIO	NAL COOPERATION AGENCY	PARAMETARIZATION	Commercian	QUALITY RECORD	HANE	SKONATURE	DATE .
3		. 1					DEMOCRATIC REPUBLIC			DESIGN	H. Okita	Chilo	16 62 6
đ					ORIENTAL CONSULTANTS CO., LTD.		TRANSPORT, POST AND CONSTRUCTION			DESIGN CHECK	T. Nasuzara	Theory	18-02-0
ŝ					in association with		DN OF THAILAND	THE SECOND 1	MEKONG	SUBNITTED	A Hiroloni	- <del>34</del> -	1/0/8
_ #	t				(NX) NIPPON KORI CO., LTD.		SPORT AND COMMUNICATIONS	INTERNATIONAL	BRIDGE	APPROVED	<u></u>		
						DEPARTMI	INT OF HIGHWAYS	CONSTRUCTION	PROJECT		S. Temiyotulra	8. Venin	22/02/0
· • •	:\15M	B-NEW\PA	ACKACEJ\DRAIN\P\$J-dD1.0#9						· · · · · · · · · · · · · · · · · · ·		e († 1911)		
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INSTALLA	TION

2. THE PIPELINE LAYOUT SHALL BE SUITABLE FOR THE TERRAIN. THE EXISTING GROUND ALONG

3. PIPE BEDDING SHALL BE AS SHOWN ON THE DRAWING AND SHALL DEPEND UPON

4. AFTER THE PIPE HAS BEEN PLACED, THE SUBGRADE AND/OR PORTION OF PAVEMENT SECTION WHICH ARE TO BE LAID ALONG BOTH SIDES OF THE LINE WITHIN A DISTANCE OF 4 PIPE DUMETERS BUT NOT LESS THAN 5.0 M. FROM CENTERLINE OF THE PIPE SHALL BE CONSTRUCTED, UGHT WIGHT CONSTRUCTION EQUIPMENT USED FOR COMPACTION SHALL OPERATE IN A DIRECTION PERPENDICULAR TO CENTERLINE OF ROADWAY (OR PARALLEL TO PIPELINE) UNTIL THE BACKFILL HAS REACHED

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SHEET NO.

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1. PIPE INSTALLATION SHALL BE BY TRENCH METHOD. SUBGRADE SHALL BE FIRST CONSTRUCTED TO AN ELEVATION D/2 or at least 60 cm, over top of proposed pipe. A trench shall then BE EXCAVATED ALONG THE PROPOSED LINE AS SHOWN ON THE DRAWING, TRENCH WALLS SHALL HAVE

2. THE TRENCH BED SHALL BE PREPARED TO THE SPECIFIED SLOPE, BEDDING TYPE SHALL BE DEPENDING ON FOUNDATION SOIL AND AS DIRECTED BY THE ENGINEER,

3. PIPE SHALL BE INSTALLED ACCORDING TO SIZES SHOWN ON THE DRAWINGS. BACKFILLING OF PIPE CULVERTS SHALL NOT BE PERMITTED UNTIL AT LEAST 48 HOURS HAVE ELAPSED AFTER JOINTS

4. BACKFILL SHALL BE PLACED TO THE SUBGRADE ELEVATION AS DESCRIBED IN NOTE & BACKFILL SHALL BE BACKFILL SHALL BE FUELD IN THE SUBJURGE THE APPRIVAL OF THE ENGINEER, METHOD OF COMPACTION OF BACKFILL SHALL BE THE SAME AS REQUIRED FOR SUBGRADE COMPACTION EQUIPMENT SHALL BE

> 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED. REINFORCED CONCRETE PIPE CULVERT CLASSES 2 SHALL CONFORM TO TIS 128.

3. CEMENT, STEEL REINFORCEMENT, AGGREGATES AND TEST METHODS USED FOR R.C. PIPE CULVERT SHALL CONFORM TO THE REQUIREMENT OF TIS. 128 OR TO THE DEPARTMENT OF HIGHWAYS STANDARDS.

3.1 CEMENT CONTENT USED FOR CONCRETE MIX SHALL NOT BE LESS THAN 335 KILOGRAM PER CUBIC METER OF CONCRETE. 3.2 CONCRETE COVER FOR SINGLE LAYER CIRCULAR REINFORCEMENT SHALL BE 0.35 TO 0.5 TIME OF WALL THICKNESS (MEASURED FROM INNER WALL).

3.3 CONCRETE COVER FOR DOUBLE LAYERS CIRCULAR REINFORCREMENT SHALL BE 2.5 CM. IN AVERAGE BUT NOT LESS THAN 1.5 CM.

LONGITUDINAL REINFORCEMENT SPACING FOR PIPE SIZE \$50 CM. OR SMALLER SHALL BE A MINIMUM OF 4-04 MIN, BARS OR 8-#4 MM, BARS FOR PIPE #60 CM. OR LARGER.

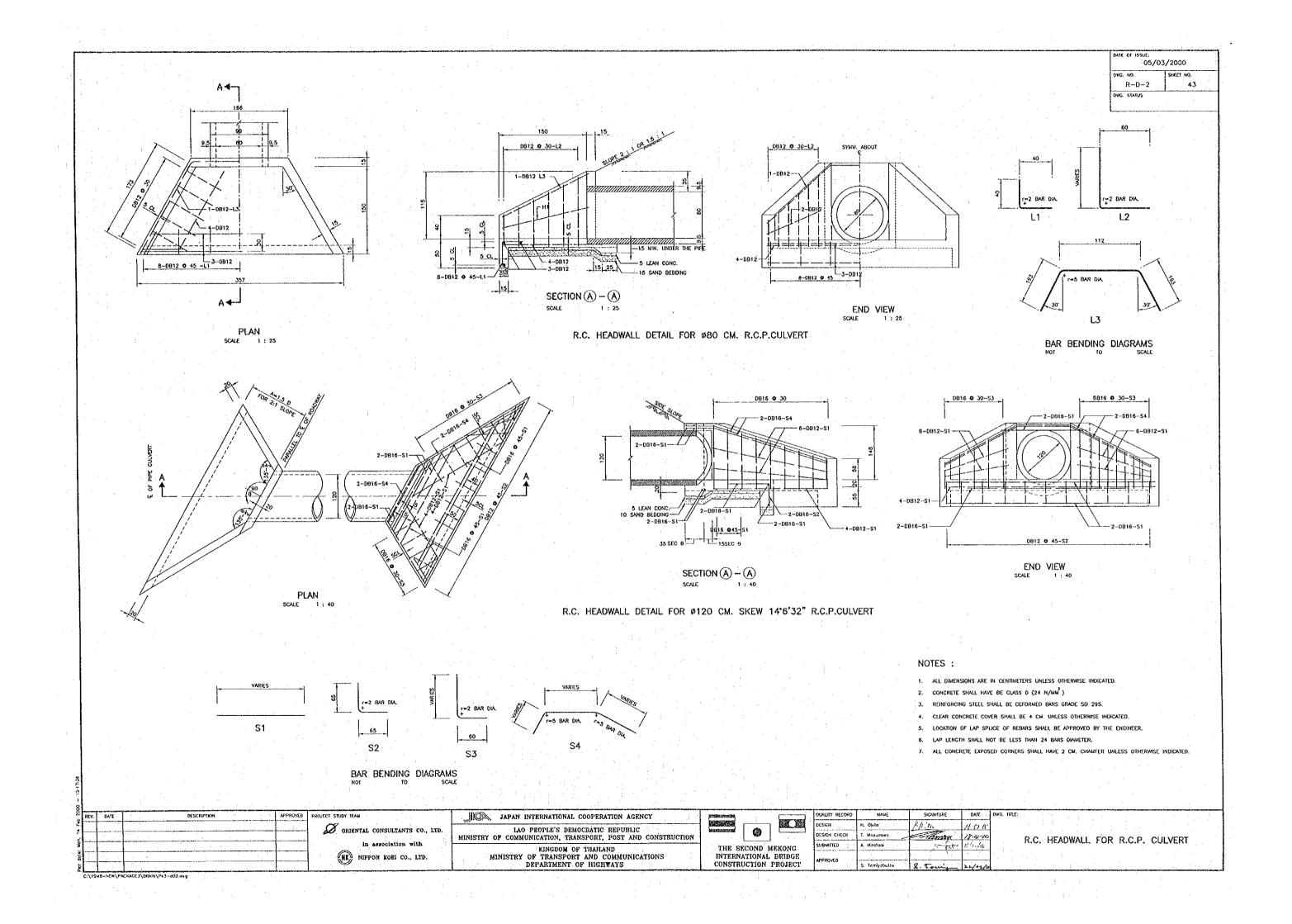
3.5 CIRCULAR REINFORCEMENT SPACING FOR PIPE SIZE #30 CM. TO #80 CM, SHALL BE 10 CM, OR LESS AND FOR PIPE SIZE #100 CM. TO #150 CM. SHALL BE 15 CM. OR LESS BUT NOT MORE THAN THEIR WALL THICKNESS.

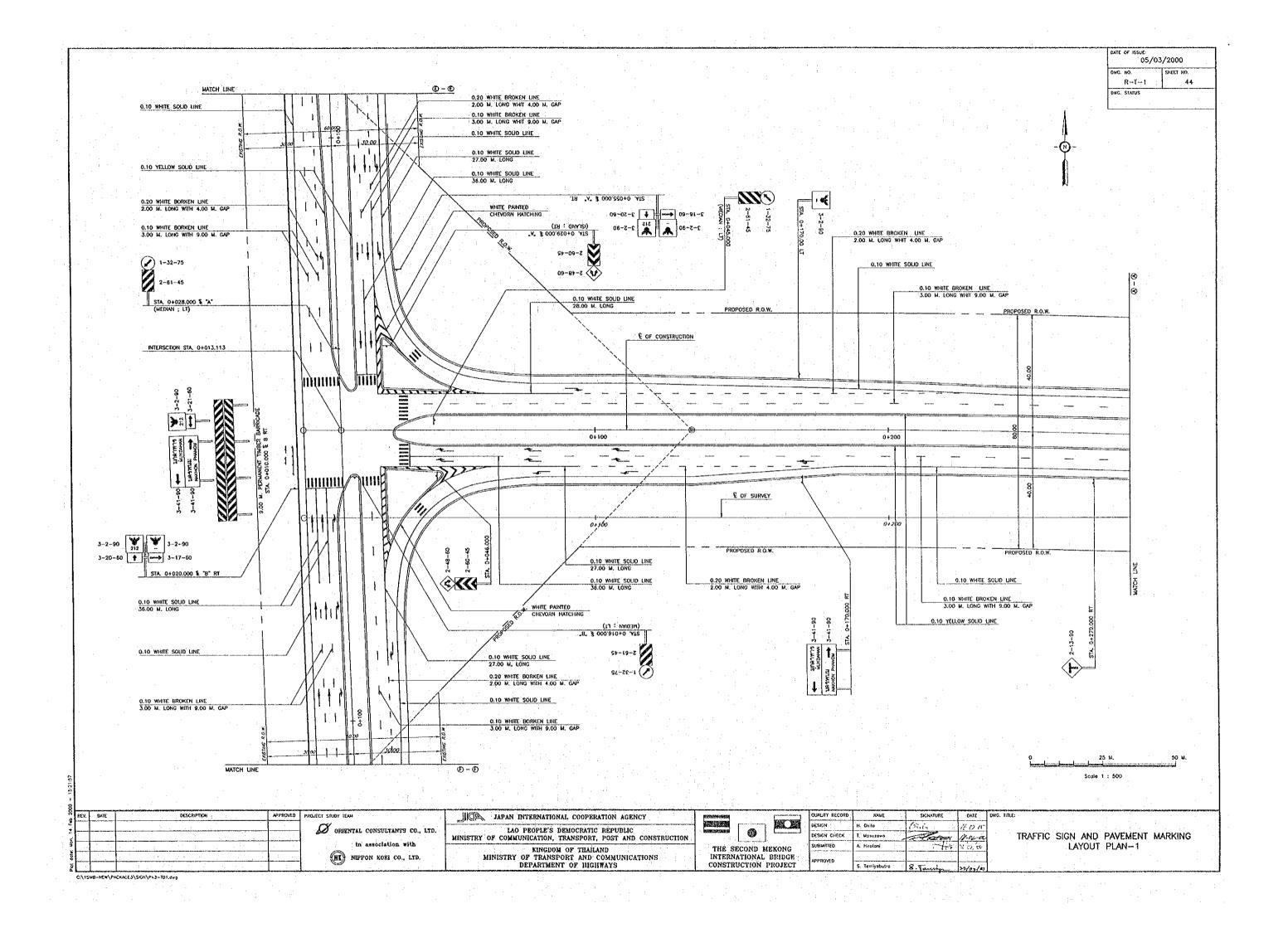
4. THE CULVERT WHICH HAVING TRANSVERSE REINFORCEMENT IN ELLIPTICAL CAGE AS SPECIFIED IN THE TIS. 128 SHALL NOT BE USED .

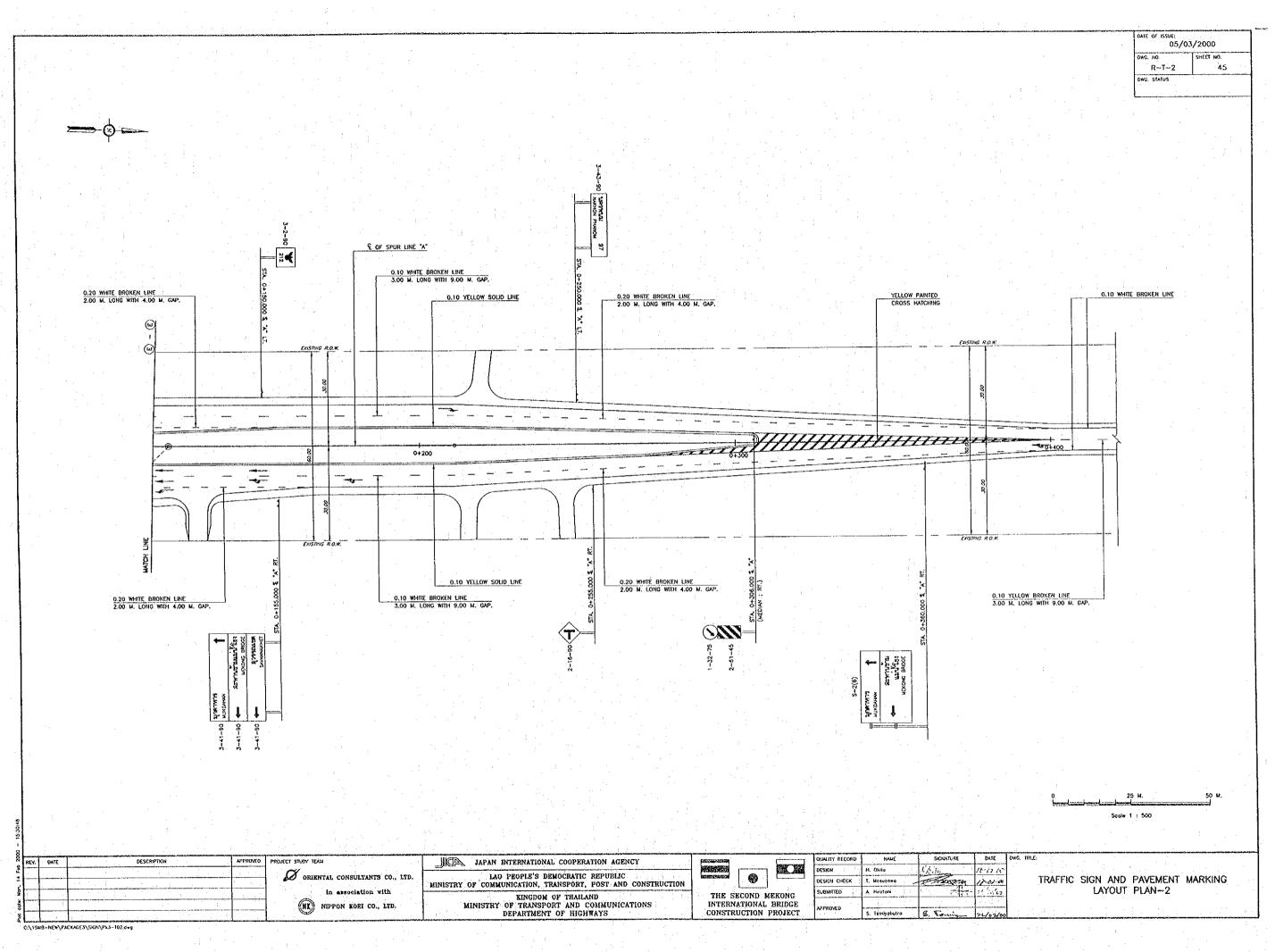
5. CULVERT JOINTS SHALL BE MORYARED AS SHOWN ON THE DRAWING WITH CEMENT MORTAR (1:2 BY VOLUME).

6. CULVERT LENGTH ( L ) SHALL BE MIN. 1.00M. UNLESS OTHERWISE SPECIFIED.

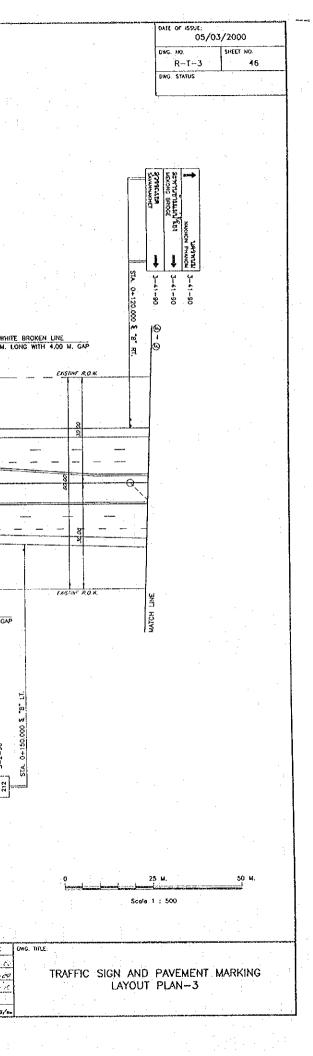
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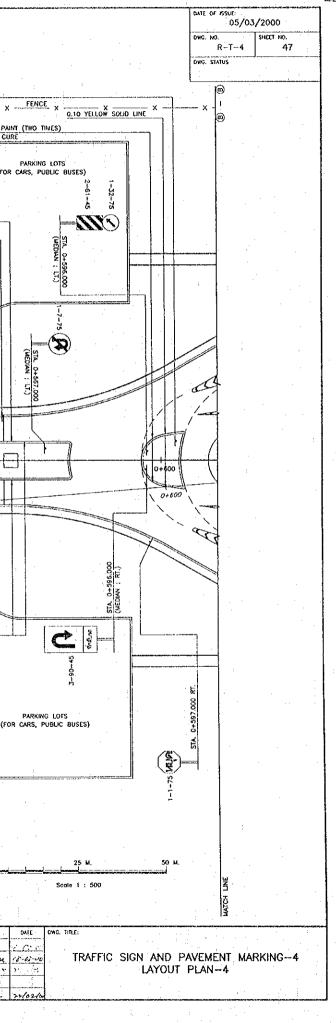


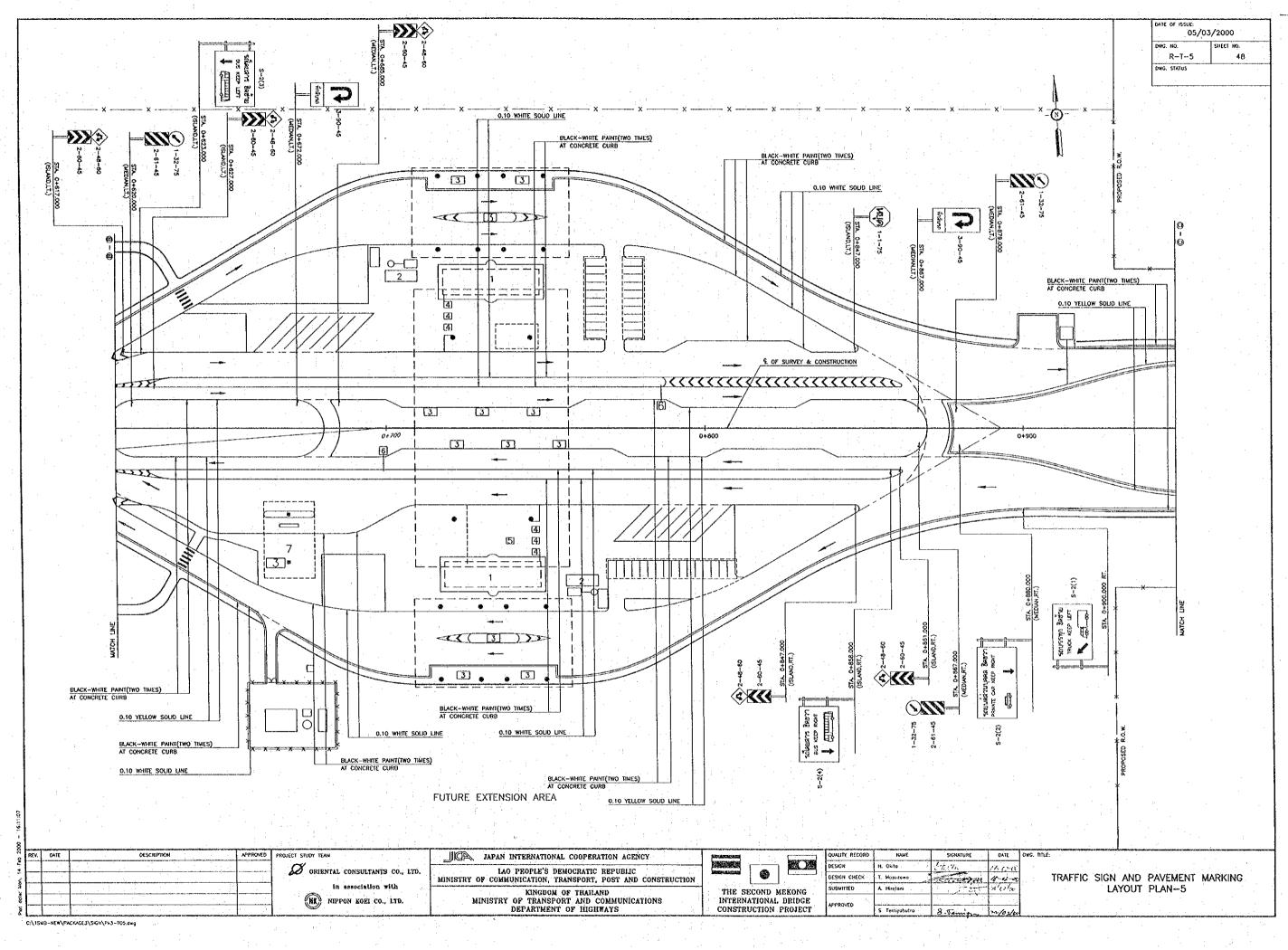


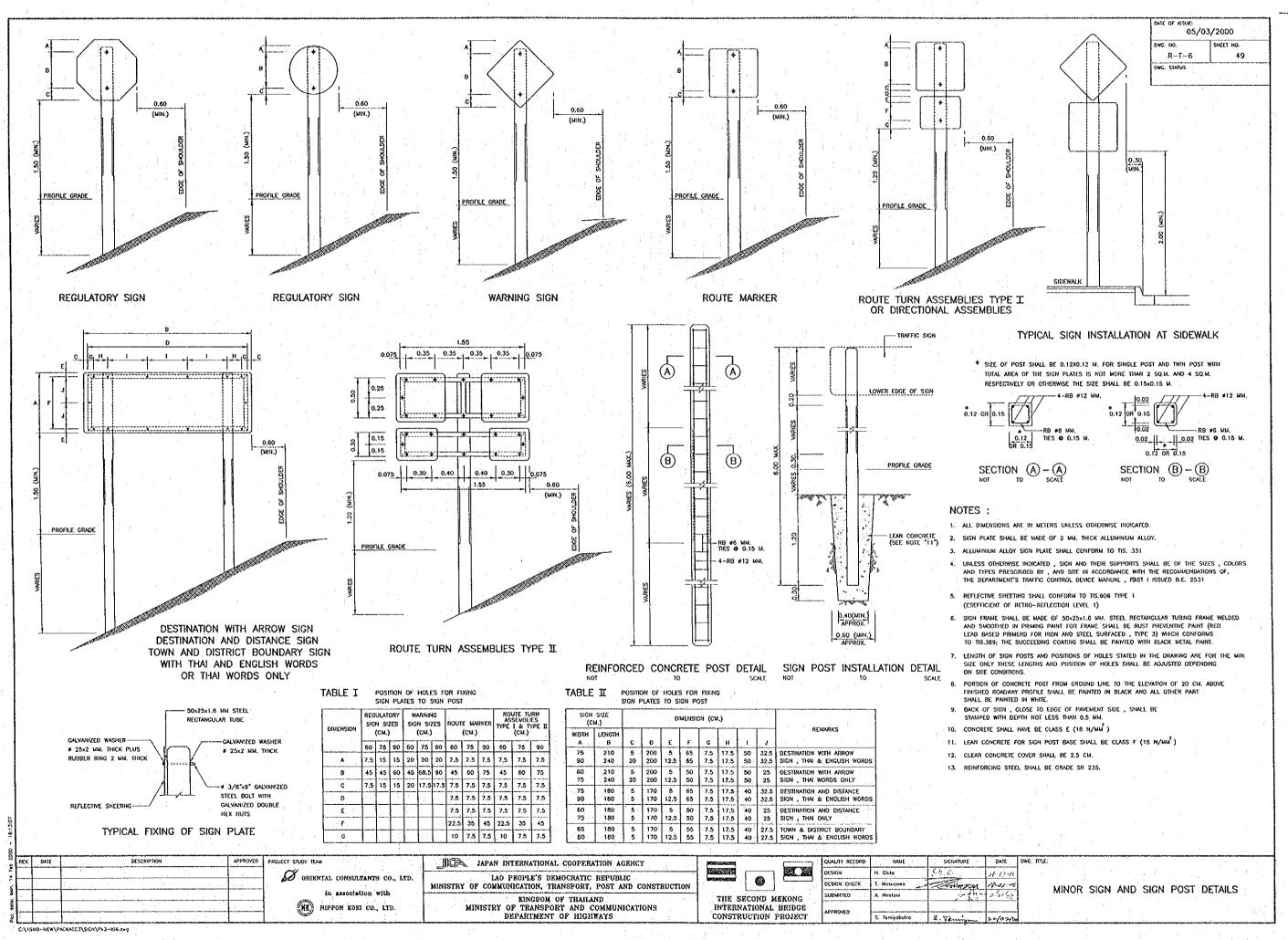
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		0.20	WHITE BROKEN UNE	& OF SPUR LINE "B"	C.	.10 WHITE BROKEN LINE .00 M. LONG WITH 9.00 M. GAP	0.20 WHITE BROKEN LINE 2.00 M. LONG WITH 4.00 M. (
		2.00 EXISTING R.O.W.	W. LONG WITH 4.00 M. CAP				Existing
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		Existing R.O.W.				O 20 WHITE BROKE	EXISTING N. LINE
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					i <u>3.00</u> #	) WHITE BROKEN LINE ) H. LONG WITH 9,00 H, GAP	
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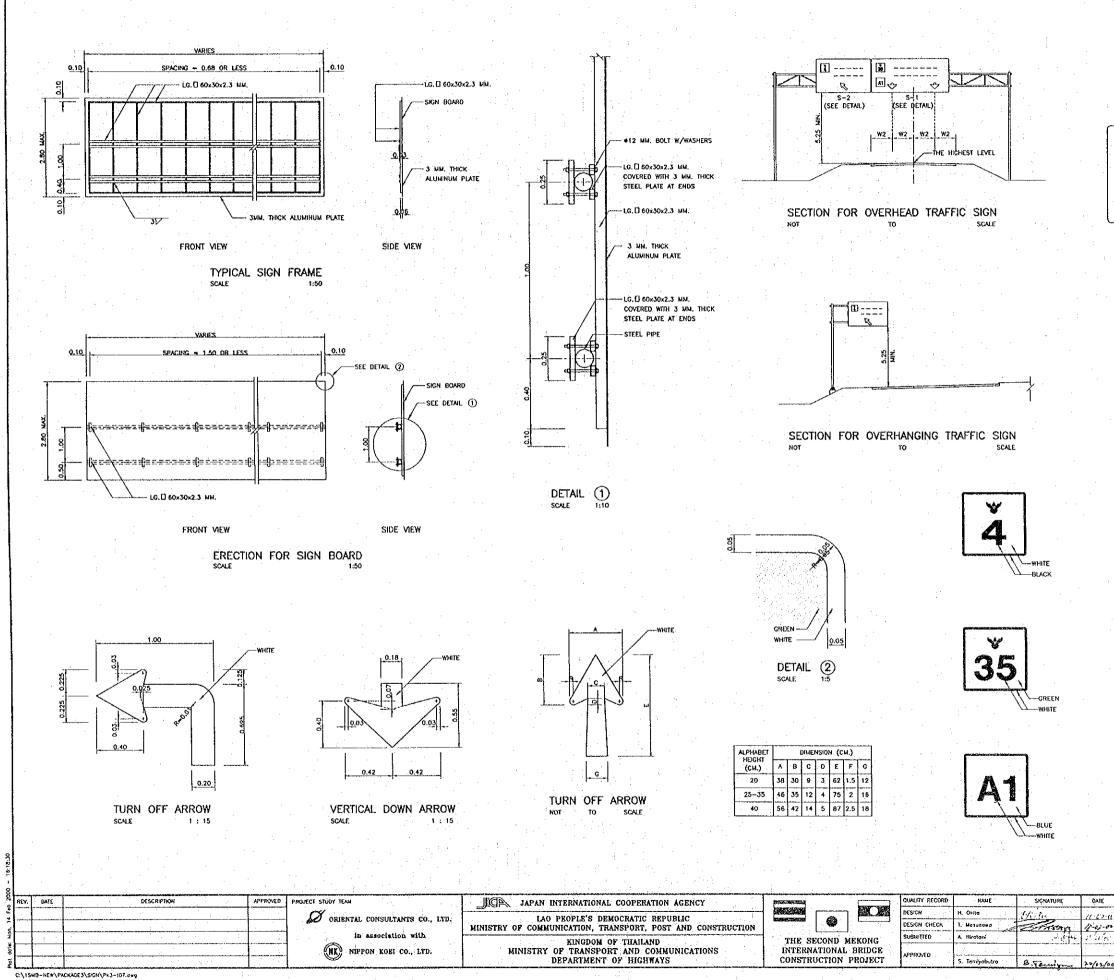


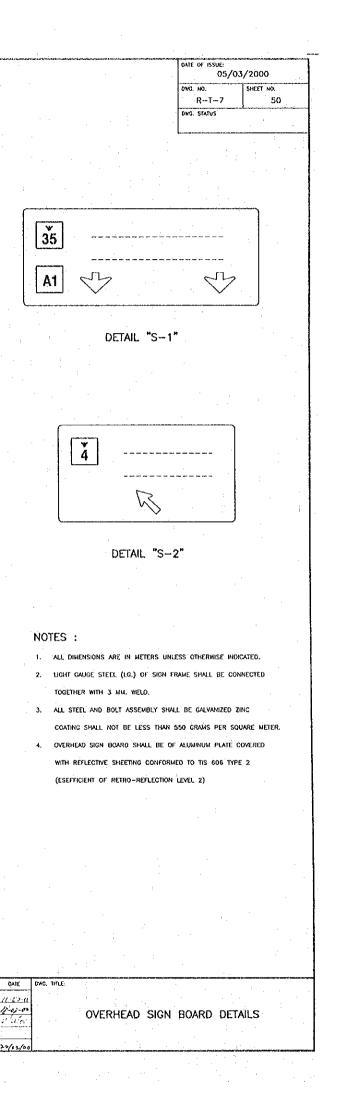
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0+300 11 12 13	PROPOSED R.O.W.	0.10 YELLOW SOLID LINE 0.10 WHITE BROKEN LINE 0.10 WHITE BROKEN LINE 3.00 M. LONG WITH 9.00 M. GAP	BLACK-WHITE PAINT (TWO TIMES) AT CONCRETE CURE BLACK-WHITE PAINT (TWO TIMES) AT CONCRETE CURE BLACK-WHITE PAINT (TWO TIMES) AT CONCRETE CURE X X X X X X X X X X X X X
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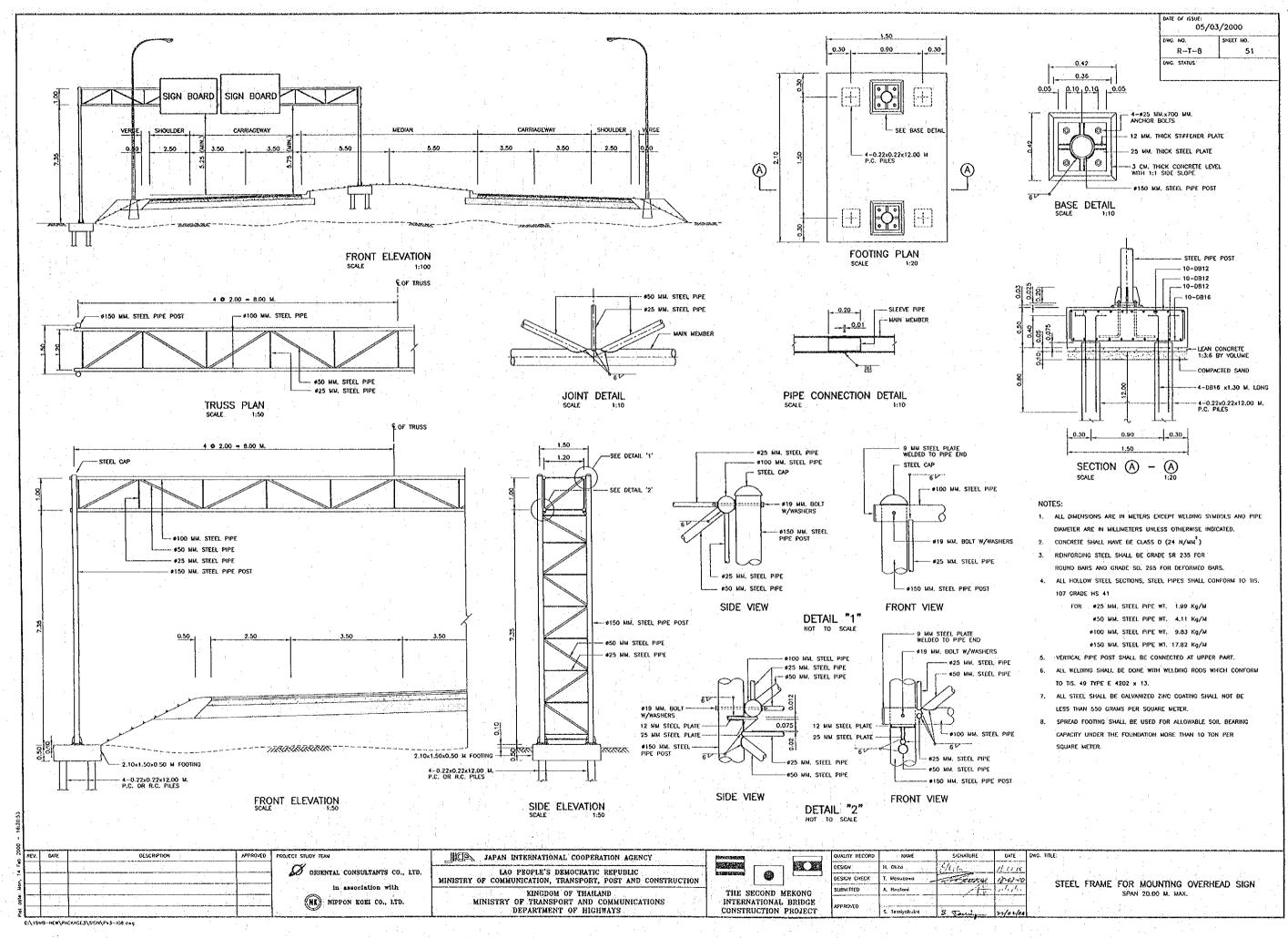


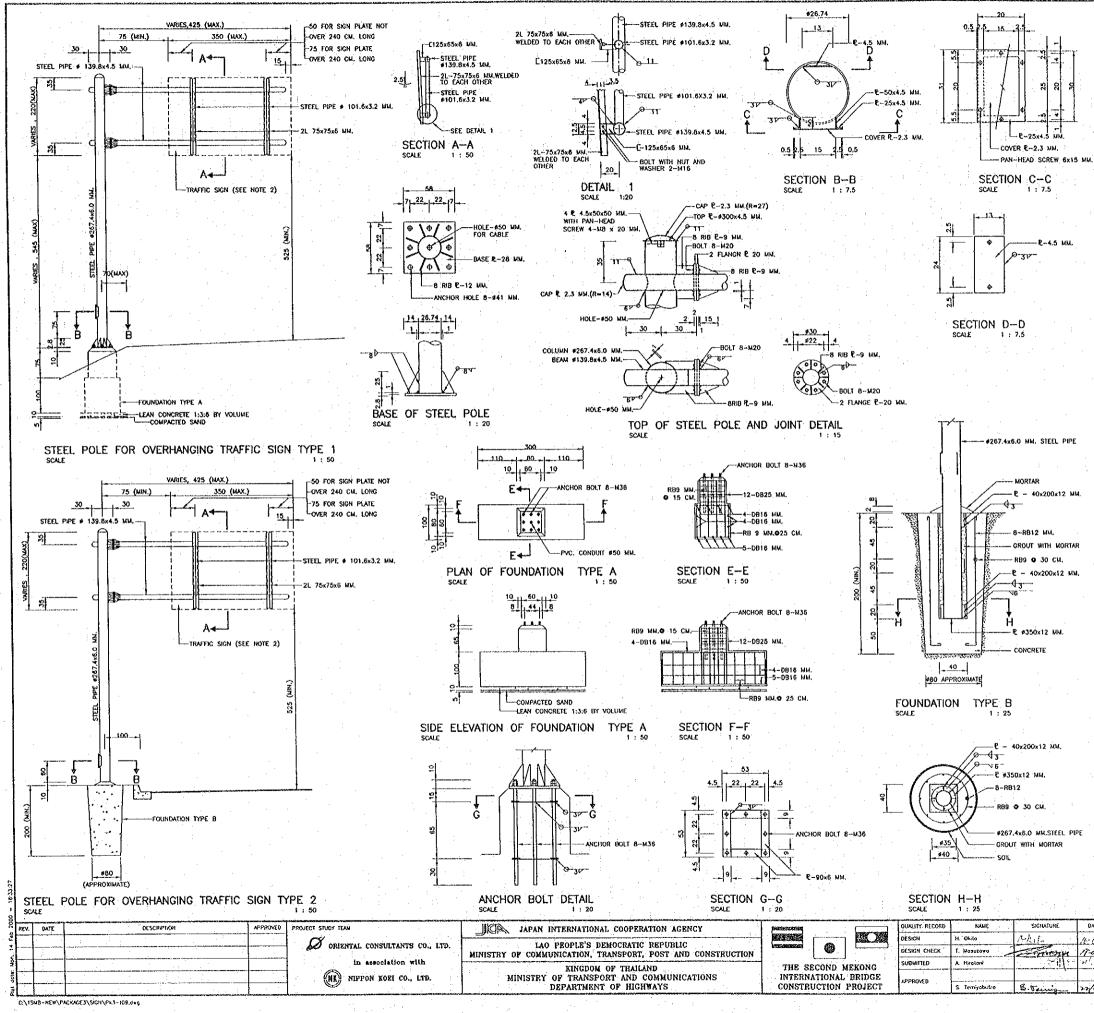










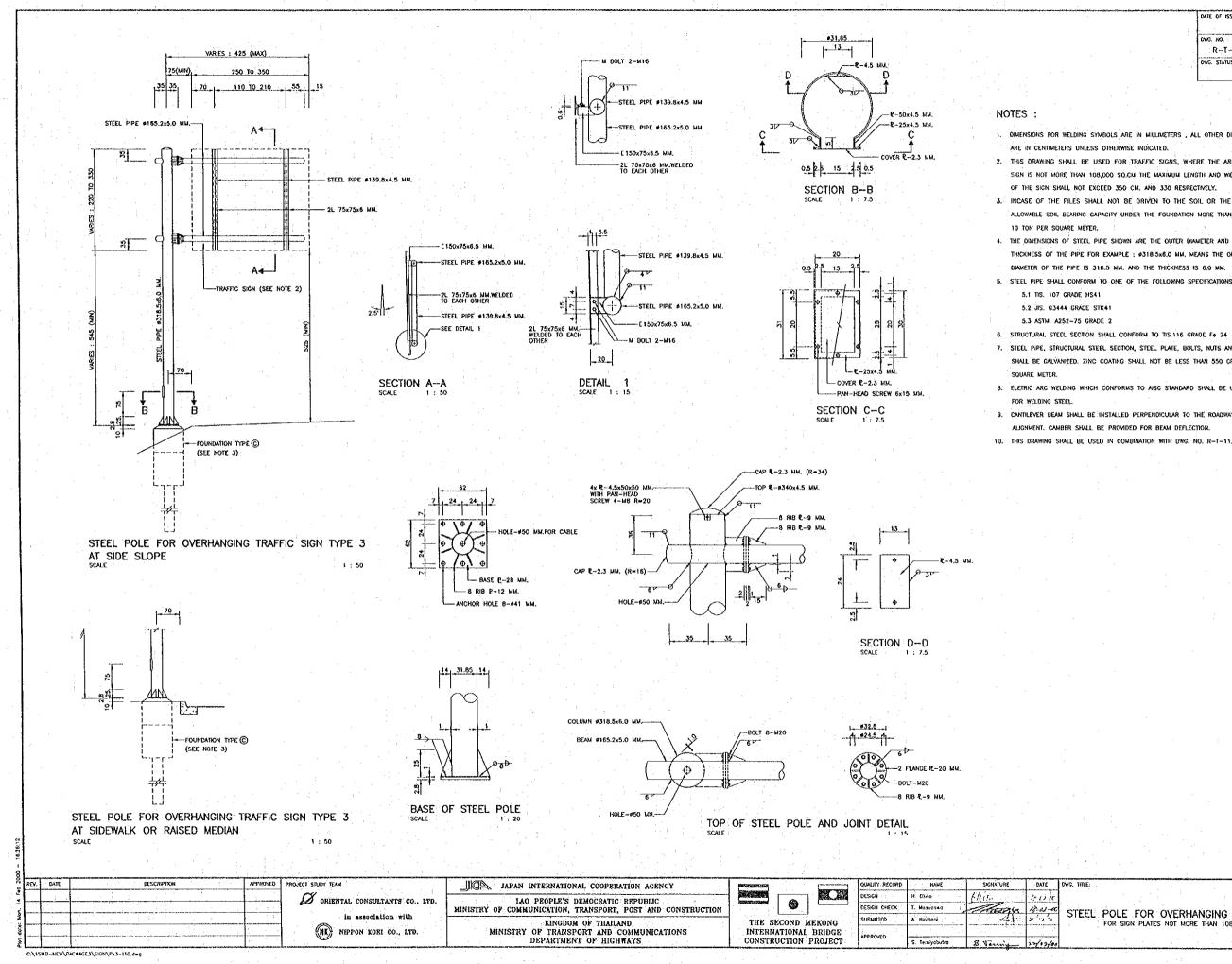


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### NOTES :

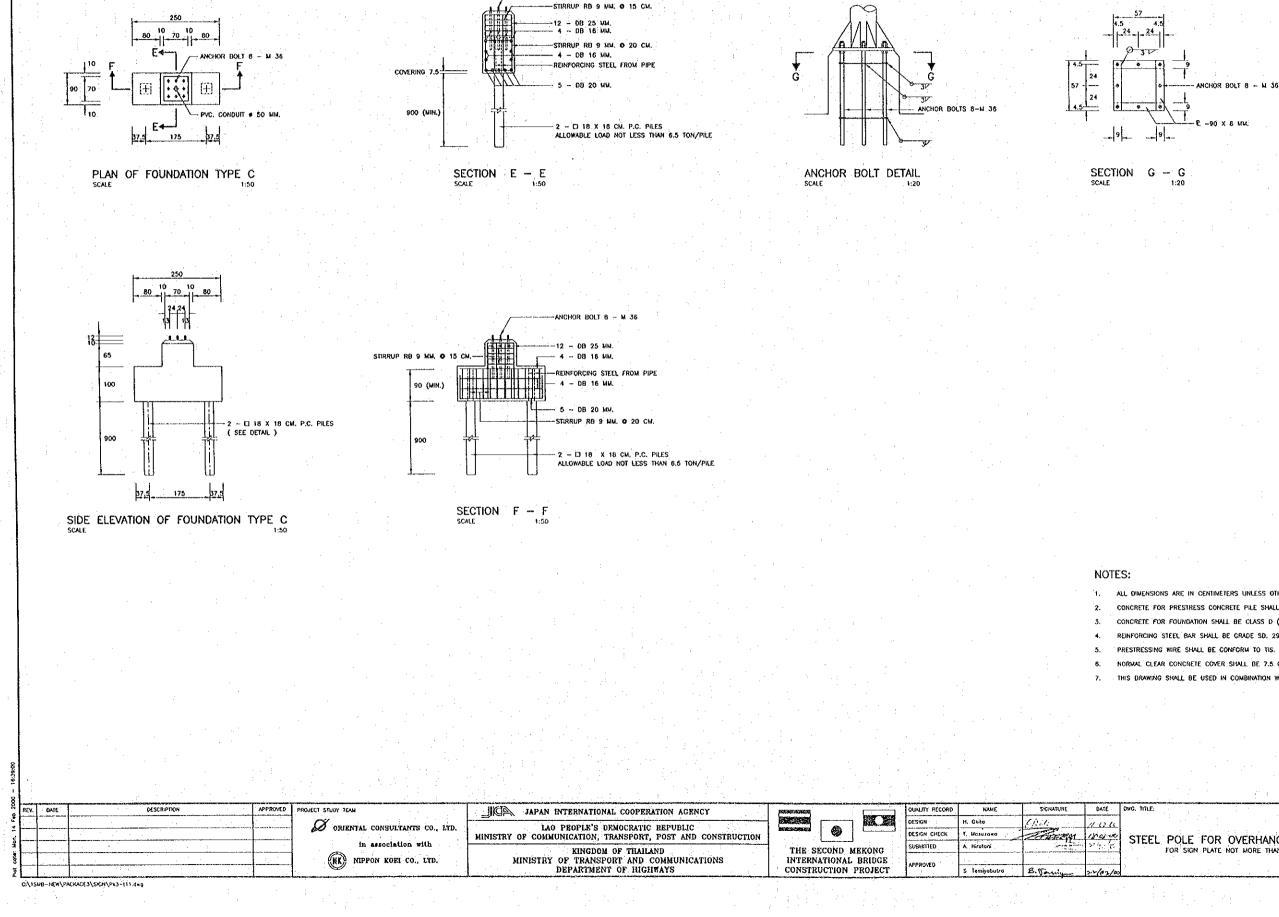
- DIMENSIONS FOR WELDING SYMBOLS ARE IN MILLIMETERS , ALL OTHER DIMENSIONS ARE IN CENTIMETERS UNLESS OTHERWISE INDICATED,
- 2. THIS DRAWING SHALL BE USED FOR TRAFFIC SIGNS, WHERE THE AREA OF THE SIGN INCLUDING THE GAPS DETWEEN PLATES IS NOT MORE THAN 52,800 SQ.CM. THE MAXIMUM LENGTR AND WHOTH OF THE SIGN SHALL NOT EXCEED 350 CM. AND 200 CM. RESPECTIVELY.
- 3. THE FOUNDATION TYPE () SHALL BE USED IN A SIDE SLOPE AREA AND FOUNDATION TYPE () SHAL BE USED IN A SIDEWALK OR RAISED MEDIAN.
- 4. THE ALLOWABLE SOIL BEARING CAPACITY UNDER THE FOUNDATION TYPE (A) SHALL BE NORE THAN 5 TONS PER SQ.M. EMBANKMENT AROUND FOUNDATION TYPE (B) SHALL BE COMPACTED TO 90 X OF THE MAXIMUM STANDARD DRY DENSITY.
- 5. THE DIMENSIONS OF STEEL PIPE SHOWN ARE THE OUTER DIAMETER AND THE THICKNESS OF THE PIPE FOR EXAMPLE : #267.4x6.0 MM. MEANS THE OUTER DIAMETER OF THE PIPE IS 267.4 MM. AND THE THICKNESS IS 6.0 MM.
- 6. STEEL PIPE SHALL CONFORM TO ONE OF THE FOLLOWING SPECIFICATIONS.
  - 6.1 TIS.107 GRADE HS41
  - 6.2 JIS. G3444 GRADE STK 41
  - 6.3 ASTM, A 252-75 GRADE 2 RUCTURAL STEEL SECTION SHALL CONFORM TO TIS 116 GRADE F6 24.
- 8. STEEL PIPE, STRUCTURAL STEEL SECTION, STEEL PLATE, BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED. ZINC COATING SHALL NOT BE LESS THAN 550 GRIVAS PER SQUARE METER.
- 9. ELECTRIC ARC WELDING WHICH CONFORMS TO AISC STANDARD SHALL BE USED FOR WELDING STEEL.
- 10. CONCRETE SHALL BE CLASS D (24 N/MM.2)
- 11. WORTAR SHALL BE COMPRISED OF PORTLAND CEMENT AND SAND IN THE PROPORTION 1 TO 1
- 12. REINFORCING STEEL SHALL BE GRADE SR 235 FOR ROUND BARS AND GRADE SD 295 FOR DEFORMED BARS.
- 13. CANTILEVER BEAM SHALL BE INSTALLED PERPENDICULAR TO THE
- ROADWAY ALIGNMENT. CAMBER SHALL BE PROVIDED FOR BEAM DEFLECTION. 14. WHERE SIGN LIGHTING IS REQUIRED, THE ELECTRICAL COMPONENTS SHALL CONFORM TO THE ELECTRICITY SUPPLY AUTHORITY'S REQUIREMENTS AND REQUIATORIS.

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01-00 1. 1. 1.	STEEL	POLE	FOR	OVE	ERHAN	GING	TRA	FFIC	SIGN	-1
	· · ·	FOR SI	GN PLA	ES NO	OT MORE	THAN 5	2,800	5Q.CM.		
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T MORE THAN 108,000 SO.CM THE MAXIMUM LEN				
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THE PILES SHALL NOT BE DRIVEN TO THE SO	DIL OR THE			
SOIL BEARING CAPACITY UNDER THE FOUNDATION	MORE THAN			
R SQUARE METER.	· · · · ·			Ľ
SIONS OF STEEL PIPE SHOWN ARE THE OUTER DIA	METER AND THE			
OF THE PIPE FOR EXAMPLE : #318.5x8.0 MM. MI	EANS THE OUTER		1	
OF THE PIPE IS 318.5 NM. AND THE THICKNESS I	S 6.0 MM.			Ŀ.
SHALL CONFORM TO ONE OF THE FOLLOWING SP	ECIFICATIONS	- -	:	
107 GRADE HS41		•		
G3444 GRADE STK41				
M. A252-75 GRADE 2	· · · · ·	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		
STEEL SECTION SHALL CONFORM TO TIS.116 GR	ADE Fo 24			
. STRUCTURAL STEEL SECTION, STEEL PLATE, BOLT	IS, NUTS AND WASH	ERŚ	1	
GALVANIZED. ZINC COATING SHALL NOT BE LESS 1	HAN 550 GRAMS PE	8		
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ite j/c	Diwg.	TITLE:				latin'mom				
<u>u-a</u> 1-1	S	TEEL	POLE FOR SK	FOR ON PLATE	OVERI S'NOT MO	HANGI RE THA	NG 1 N 108	RAFF	IC SI M.H	GN2

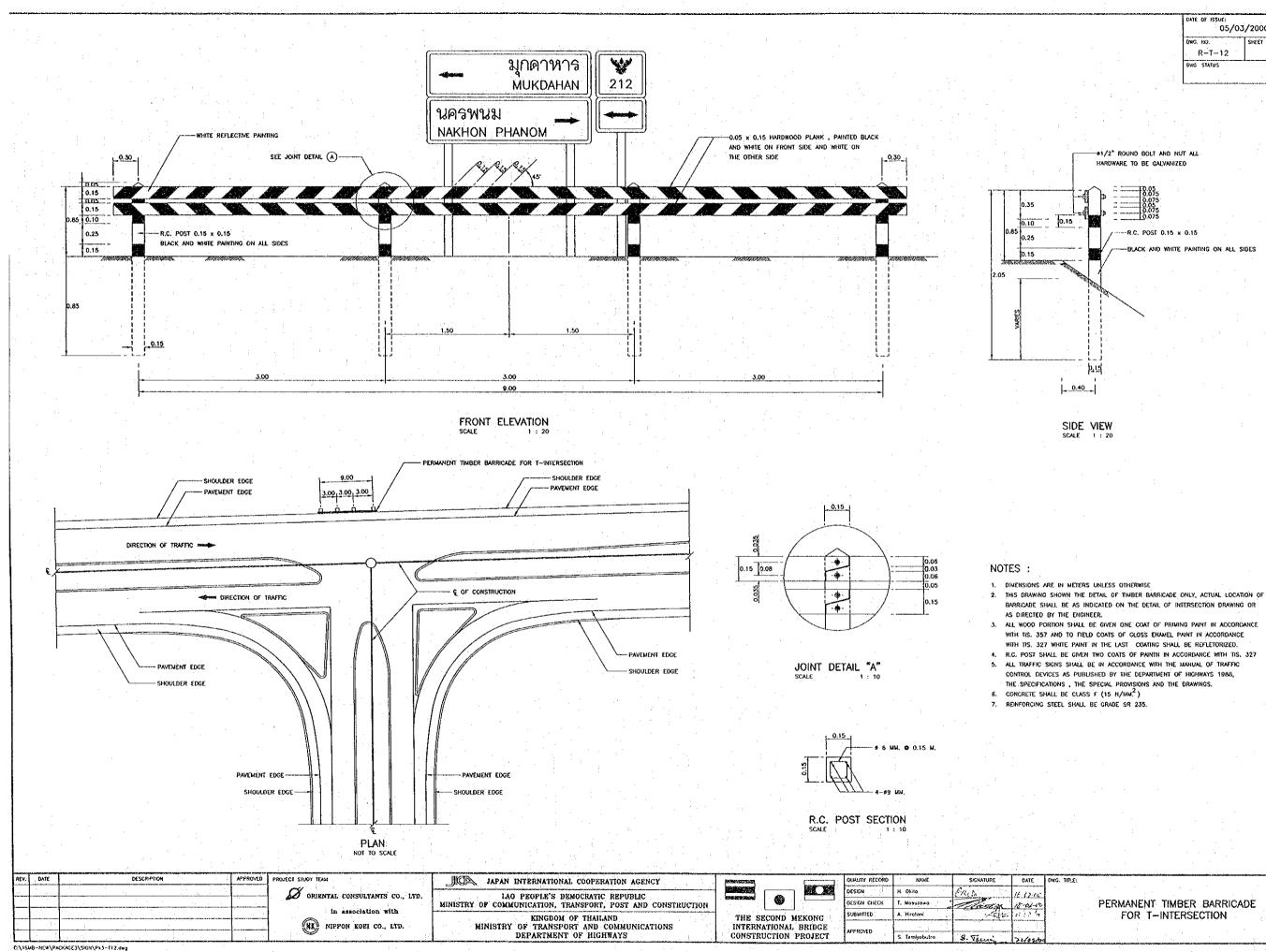


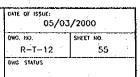
ANCHOR BOLT 8 - M 35

DING. NO, R-T-11 54 DING. STATUS			
DWG. STATUS		1	
	1	DWG. STATUS	- <b>L</b> u

ALL DIMENSIONS ARE IN CENTIMETERS UNLESS OTHERWISE INDICATED. CONCRETE FOR PRESTRESS CONCRETE PILE SHALL BE CLASS & (40 N/MH2 ) CONCRETE FOR FOUNDATION SHALL BE CLASS D (24 N/MM2) REINFORCING STEEL BAR SHALL BE GRADE SD. 295 PRESTRESSING WIRE SHALL BE CONFORM TO TIS. 95. NORMAL CLEAR CONCRETE COVER SHALL BE 7.5 CM. THIS DRAWING SHALL BE USED IN COMBINATION WITH DWG. NO. R-T-10.

STEEL POLE FOR OVERHANGING TRAFFIC SIGN-3 FOR SIGN PLATE NOT MORE THAN 108,000 SO.CH. - I





- 81											1	and the second		
_ % [	REV.	OATE		DESCRIPTION	APPROVED	PROVECT STUDY TEAM	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	NEWSCON, STREET, STREE		OUALITY RECORD	NAME	SIGNATURE	DATE	0
2						ORIENTAL CONSULTANTS CO., LTD.				DESIGN	H. Okilo	Fils To	11.12 10	ŀ
						in the second	MINISTRY OF COMMUNICATION, TRANSPORT, POST AND CONSTRUCTION			DESIGN CHECK	T. Mosuzawa	Terroran	1202-0	4
2	3					in association with	KINGDOM OF THAILAND	THE SE	COND MEKONG	SUBWITTED	A. Hirotani		ulale.	
qo				<u></u>	19 J. 19	NIPPON KOBI CO., LTD.	MINISTRY OF TRANSPORT AND COMMUNICATIONS	INTERNA	TIONAL BRIDGE	APPROVED				1
ž	·						DEPARTMENT OF HIGHWAYS	CONSTRU	ICTION PROJECT	WT NOTED	S. Terniyobutra	B. Varmin	22/12/0	
(	:\15M	0-HEW\P	CKACEJ\SICN\PkJ-ELJ.d	•9										

REMARKS: (1) FOR ULTIMATE STACE WHICH THE TRAVELED WAY MOTH IS LESS THAN 13,00 METERS, CROSS HATCHING MARKING THE CENTER LINE MARKINGS SHALL BE TWO-LANE HIGHWAY FORMAT. (2) IF WIDTH OF GAP IS MORE THAN 40 CM., THE CENTER LINE MAKING SHALL BE DOUBLE LINE WITH CROSS HATCHING FORMAT.

(NUMBERS ARE IN CENTIMETERS) ADT. WIDTH OF TRAVELED WAY (NETERS) (VEHICLE / DAY) LESS THAN 14,00(1 14.00 MORE THAN 14.00 HORE THAN BOOD WIDTH 10 WIDTH 10 WOTH 10 GAP 10 GAP 10 GAP 10 MORE THAN 16000 WIDTH 10 WIDTH 15 WIDTH 15 CAP 10 GAP 15 GAP 15-60 (2) WIDTH 20 MORE THAN 32000 WIDTH 15 WIDTH 20 GAP 15 GAP 20 GAP20-80(2)

. 10 10 MORE THAN 10 10 10 10 500 MORE TH MORE TH

TABLE : WIDTH OF CENTER LINE MARKING

CENTER LINE MARKINGS

EDGE LINE MARKINGS

A.TWO-LANE HIGHWAY

5.00

5.50

7

ADT.

(VEHICLE / DAY)

less than

\*\* STANDARD WIDTH IS TO CH, FOR UNINTERRUPTED-FLOW HIGHWAY WITH ADT. IS MORE THAN 32,000 VEHICLE/DAY, THE WIDTH SHALL BE 15 CM.

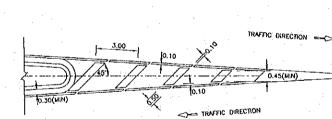
B. MULTILANE UNDMIDED HIGHWAY (DOUBLE SOLID LINE)

HAN 4000	10	10	15	15	15	15	
HAN 8000	10	10	15	15	15	20	
							'

10 10 10 10

(NUMBERS ARE IN CENTIMETERS) WIDTH OF TRAVELED WAY (NETERS) MORE THU 7.00 6.00 6.50 7.00

0.10 ·



<>> TRAFFIC DIRECTION



 $\infty$ 

TRAFFIC DIRECTION

0.30-0.60

# LONG DIRECTIONAL ARROWS

TRAFFIC DIRECTION

TRAFFIC DIRECTION

TRAFFIC DIRECTION

TRAFFIC DIRECTION

(0.45(MIN)

3.00

0.10

CHEVRON HATCHING MARKING

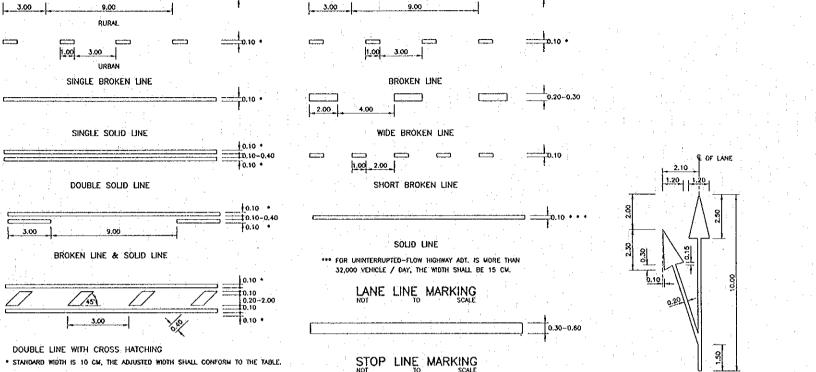
3.00

0.20

FOR NORMAL INSTALLATION

AT BEGINNING OF TAPER FOR DECELERATION LANE, AT BEGINNING OF TAPER FOR DECELERATION LANE, FOR DIVIDED HIGHWAY

0.20



GIVEWAY LINE MARKING

1.00 2.00

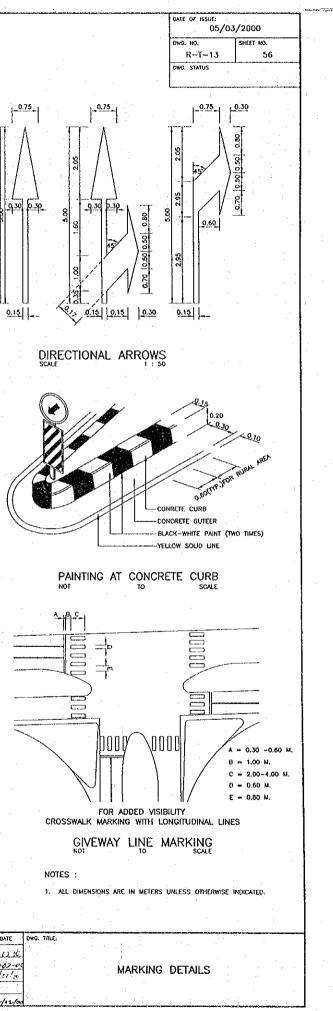
C.

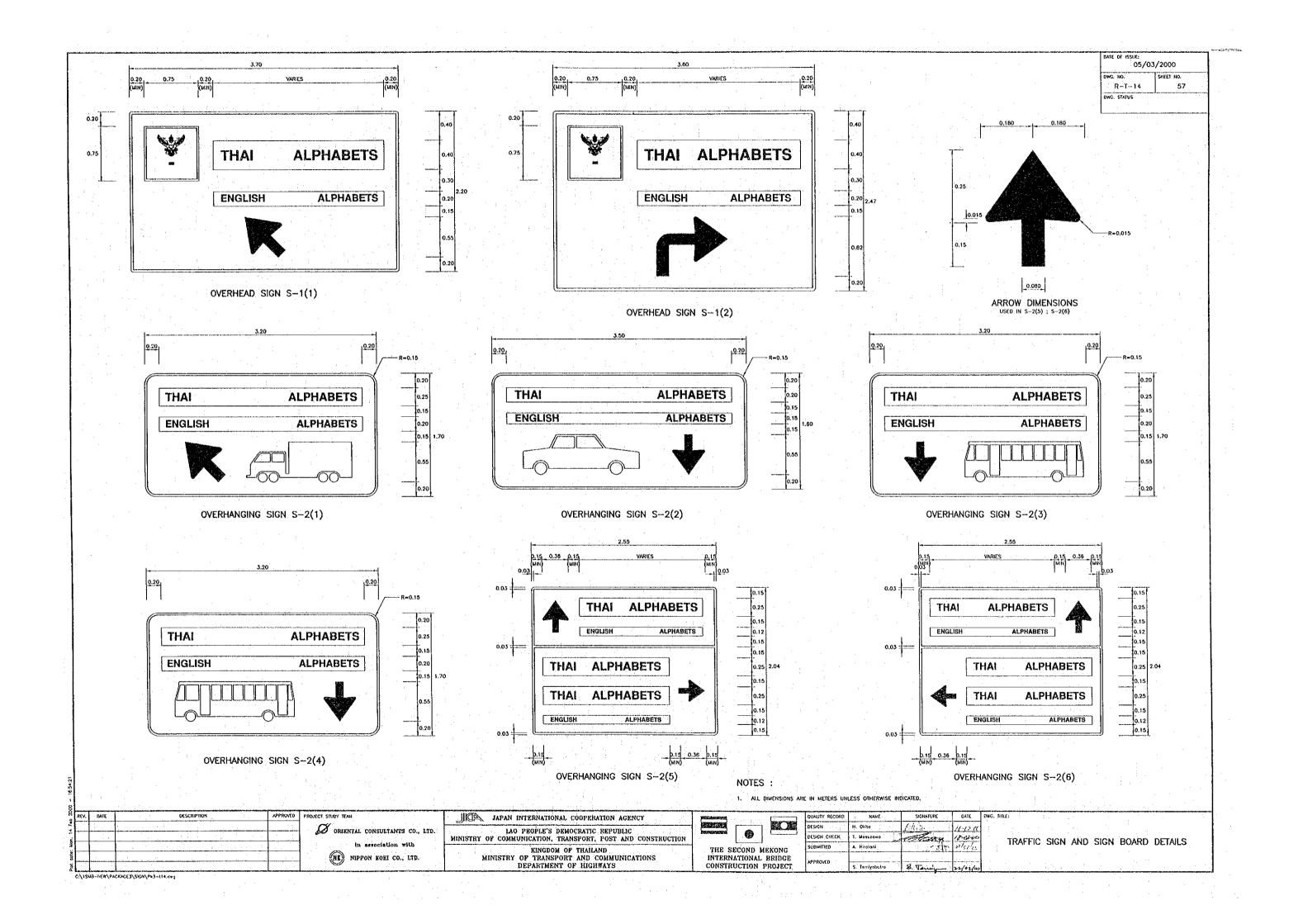
1.20 1.20 0.10 n.20

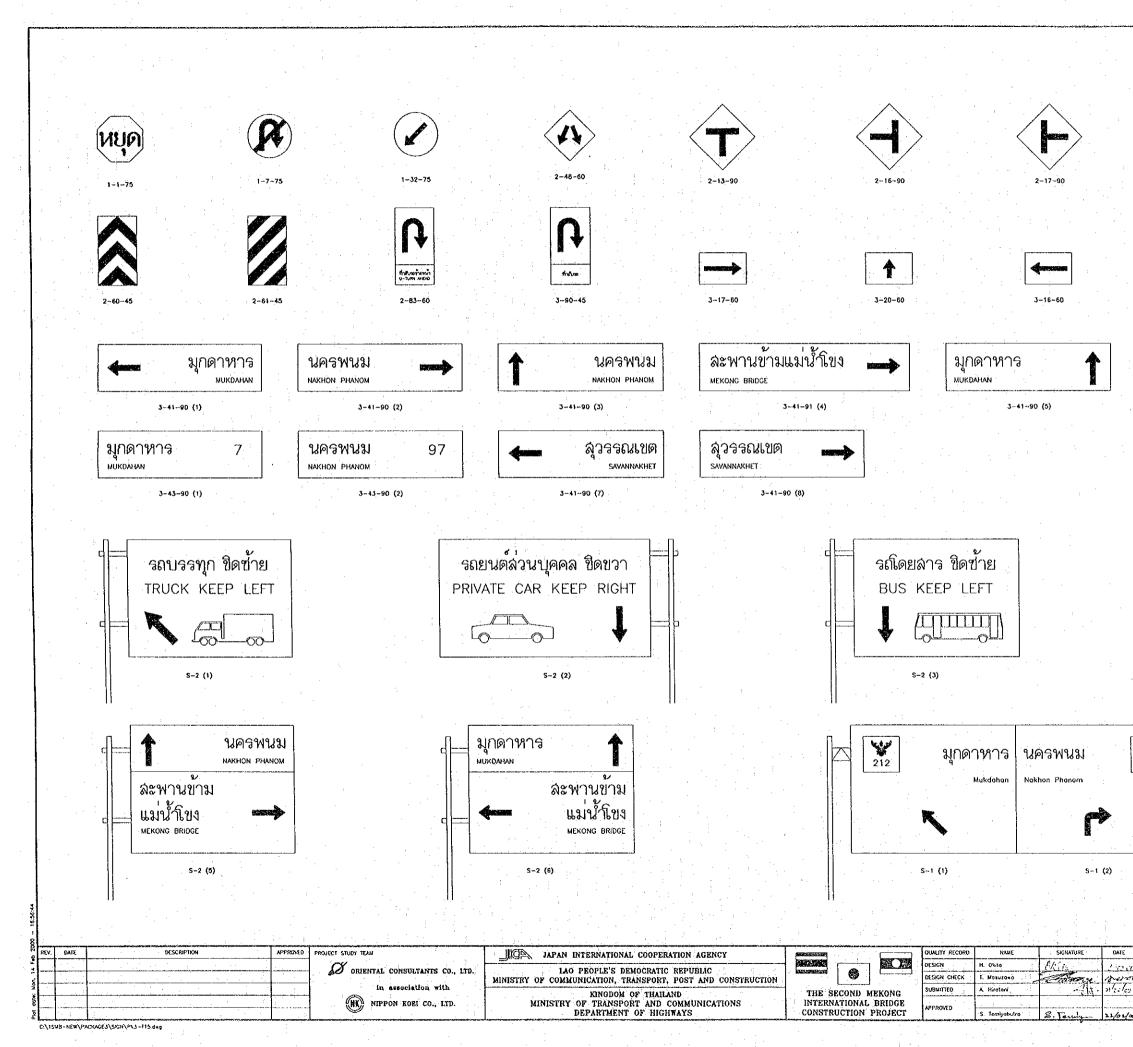
2.10

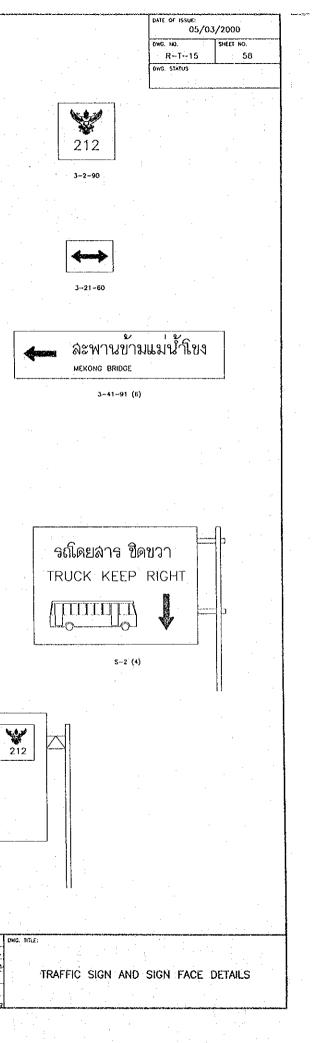
OF LANE

0,30





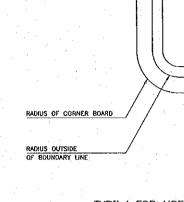




			STANDARD BO	OUNDARY LINE		REQUIREM	IENT OF COLORS-R	EFLECTION	HEIGHT	OF TEXT	· · · · · · · · · · · · · · · · · · ·
SIGN CODE	SIZE (CM. x CM.)	DISTANCE FROM EDGE (CM.)	WIDTH BOUNDARY LINE (CM.)	RADIUS OF CORNER BOARD (CM.)	RADIUS OUTSIDE OF DOUNDARY LINE (CH.)	BACKGROUND	WORDING AND/OR SYMBOL	BOUNDARY LINE OR CROSS LINE	ткы (См.)	English (CM.)	
-1-75	75 x 75		5.0	-	- :	RED - REF	WHITE - REF	WHITE - REF	25	-	
-7-75	ø 75		5.0			WHITE - REF	BLACK - NON REF	RED – REF	-		
-32-75	♦ 75	_ : .	5.0	-	-	WHITE ~ REF	BLACK - NON REF	RED - REF	-		
	90 x 90	1.8	2.4	5.4	3.6	YELLOW - REF	BLACK - NON REF	BLACK - NON REF	- <u>-</u>	- :	
-16-90	90 x 90	1.8	2.4	5.4	3.6	YELLOW - REF	BLACK - NON REF	BLACK ~ NON REF	, - <u>,</u> -	-	
-17-90	90 x 90	1.8	2.4	5.4	3.6	YELLOW - REF	BLACK - NON REF.	BLACK - NON REF	-	·· -	
-48-60	80 x 60	1.2	1.6	3.6	2.4	YELLOW - REF	BLACK - NON REF	BLACK - NON REF	-		
-83-60	60 x 100	1.2	1,6	3.6	2.4	YELLOW - REF	BLACK - NON REF	BLACK - NON REF	5	5	
-60-45	45 x 75	0.9	1.2	0.9	8.1	YELLOW - REF	BLACK - NON REF.		-	-	
-61-45	45 x 75	0.9	1.2	0.9	8.1	YELLOW - REF	BLACK - NON REF	-	-		
-2-90	90'x 90 j	1.8	2.4	18.0	16.2	WHITE - REF	BLACK - NON REF	BLACK - NON REF		35	HEIGHT OF SYMBOL - :
16-60	75 x 60	1,2	: 1.6	3.6	2.4	WHITE - REF	BLACK - NON REF	BLACK - NON REF		-	
-17-60	75 x 60	1.2	1.6	3.6	2.4	WHITE - REF	BLACK - NON REF	BLACK - NON REF	-	· -	
-20-60	75 x 60	1.2	1.6	3.6	2.4	WHITE - REF	BLACK - NON REF	BLACK - NON REF	-		
-21-60	75 x 60	1,2	1.6	3.6	2.4	WHATE - REF	BLACK - NON REF	BLACK - NON REF	-		
-41-90 (1)	240 x 90	1.8	2.4	5.4	3.6	WHITE - REF	BLACK - NON REF	BLACK - NON REF	25	12.5	
-41-90 (2)	240 x 90	1.8	2.4	5.4	3.6	WHITE - REF	BLACK - NON REF	BLACK - NON REF	25	12.5	• ·
-41-90 (3)	350 x 90	1.8	2.4	5.4	3.6	WHITE - REF	BLACK - NON REF	BLACK - NON REF	25	12.5	
-41-90 (4)	350 x 90	1.8	2.4	5.4	3.6	WHITE - REF	BLACK ~ NON REF	BLACK - NON REF	20	10	
-41-90 (5)	350 x 90	1.8	2.4	5.4	3.6	WHITE - REF	BLACK - NON REF	BLACK - NON REF	25	12.5	
1-41-90 (6)	350 x 90	1.8	2.4	5.4	3.6	WHITE ~ REF	BLACK - NON REF	BLACK - NON REF	20	10	
54190 (7)	350 x 90	1,8	2.4	5.4	3.6	WHITE - REF	BLACK - NON REF	BLACK - NON REF	25	12.5	1.
-41-90 (8)	350 x 90	1,8	2.4	5.4	3.6	WHATE - REF	BLACK - NON REF	BLACK - NON REF	25	12.5	1
5-43-90 (1)	240 x 90	1.8	2.4	5.4 :	3.6	WHITE - REF	White - Ref	WHITE - REF	25	12.5	HEIGHT OF NUMBER -
3-43-90 (2)	240 × 90	1.6 :	2.4	5.4	3.6	WHITE - REF	WHITE - REF	WHITE - REF	2.6	12.5	HEIGHT OF NUMBER -
3-90-45	45 x 75	-	1.50	2.25	2.25	BULE - REF	WHITE - REF	WHITE ~ REF	5	-	· · · ·
	·····	4 · · · · · · · · · · · · · · · · · · ·	1	+· · · · · · · · · · · · · · · · · · ·					t		1 .

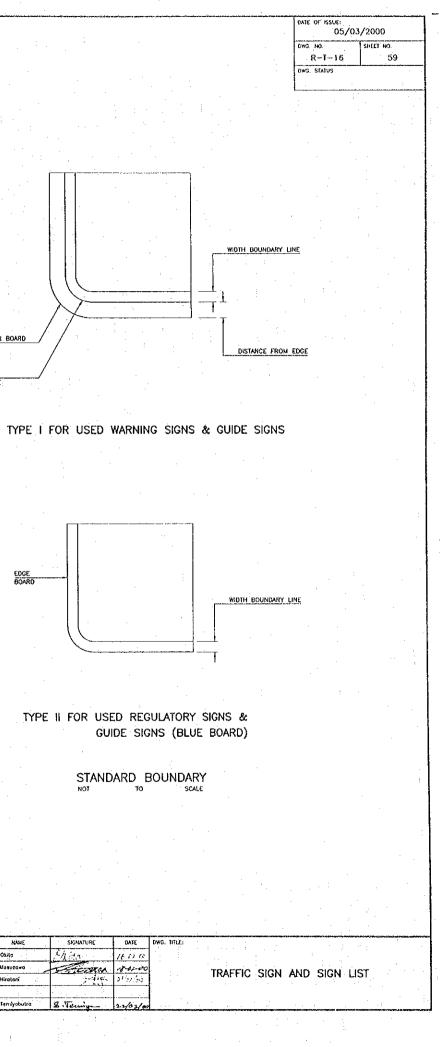
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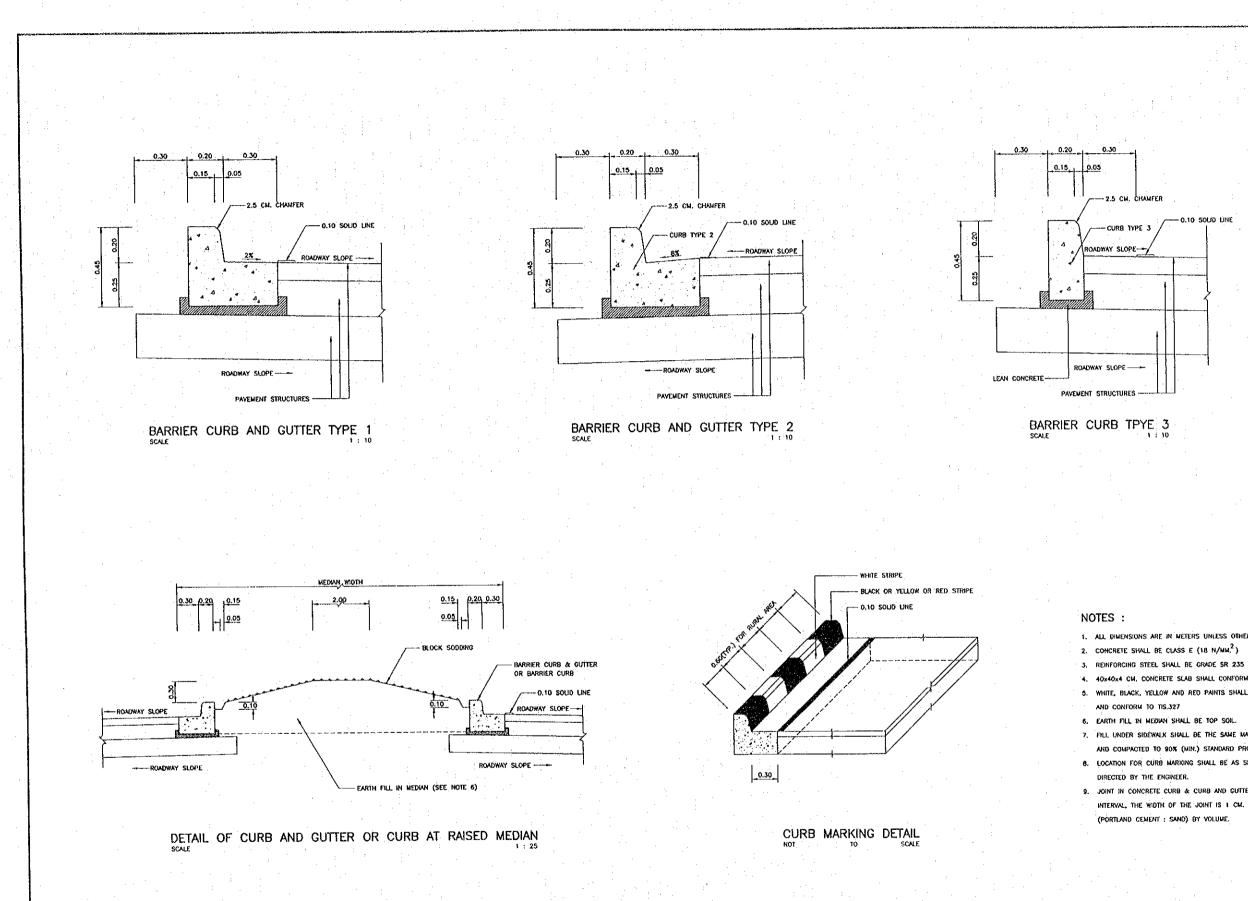
REMARK : REF - REFLECTION



EDGE BOARD

1.											
8	REV. DA	TE	DESCRIPTION	APPROVED	PROJECT STUDY TEAM	JAPAN INTERNATIONAL COOPERATION AGENCY		QUALITY RECORD	NAME	SKRATURE	DAJE
4	-			<u> </u>	ORIENTAL CONSULTANTS CO., LTD.	LAO PEOPLE'S DEMOCRATIC REPUBLIC		DESIGN	H. Okila	Ch da	16 10 18
÷.						MINISTRY OF COMMUNICATION, TRANSPORT, POST AND CONSTRUCTION		DESIGN CHECK	T. Natulawa	ASTERICA	18-07-00
×					in association with	KINGDOM OF THAILAND	THE SECOND MEKONG	SUBWITTED	A. Hiroloni	2-4:5-	21.00
ŝ		·		L	NK) NIPPON KORI CO., LTD.	MINISTRY OF TRANSPORT AND COMMUNICATIONS	INTERNATIONAL BRIDGE	APPROVED			
ā		مانيند		L		DEPARTMENT OF HIGHWAYS	CONSTRUCTION PROJECT		S. Terniyobutra	& . Vernig-	22/02/1
1	H:\SVQ-NE	W \PACK	ACEJ\SIGN\Px3-T16.0#G								





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¢ 200	REV.	DATE			DESCRIPTION			APPROVE	PROJECT STUD	r team		NTERNATIONAL COOPER	ATION AGENCY	PARTICIPAL STREET			QUALITY RECORD	HANE H. Okita	SIGNATURE :	DATE	dwg, thle:
1 Fe	-			· · ·		<u> </u>	1000 - 1000 - 1000 - 1000 - 1000 - 1000		ø.	RIENTAL CONSULTANTS CO., LTD.		PROPLE'S DEMOCRATIC INICATION, TRANSPORT,	REPUBLIC FOST AND CONSTRUCTION	(Market and South and Sout			DESIGN CHECK	T. Masuzawa	- Colle	10-01-00	
HON IN					· · · · · · · · · · · · · · · · · · ·					In association with K) NIPPON KOEI CO., LTD.		KINGDOM OF THAIL	AND		ECOND M ATIONAL		SUSHITTED	A, Hiroloni	TTF	21/62/00	
8 10							· · · · ·	_		KY NIPPON KOEL CO., LTD.		DEPARTMENT OF HIGH		CONSTR			APPROVED	S. Temiyobutra	8. Vermon	22/02/00	
	:\150	B-NEW/PA	CKAGE3\WIS\PI	13~m201.dwg			, and the second se		1 J		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		· · ·	1.1.1	2	1.1.1	1.1.1	· ·			

DATE OF ISSUE: 05/0	03/2000
DWO. NO.	SHEET NO.
R-MI-1	60
EWG STATUS	

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDICATED.

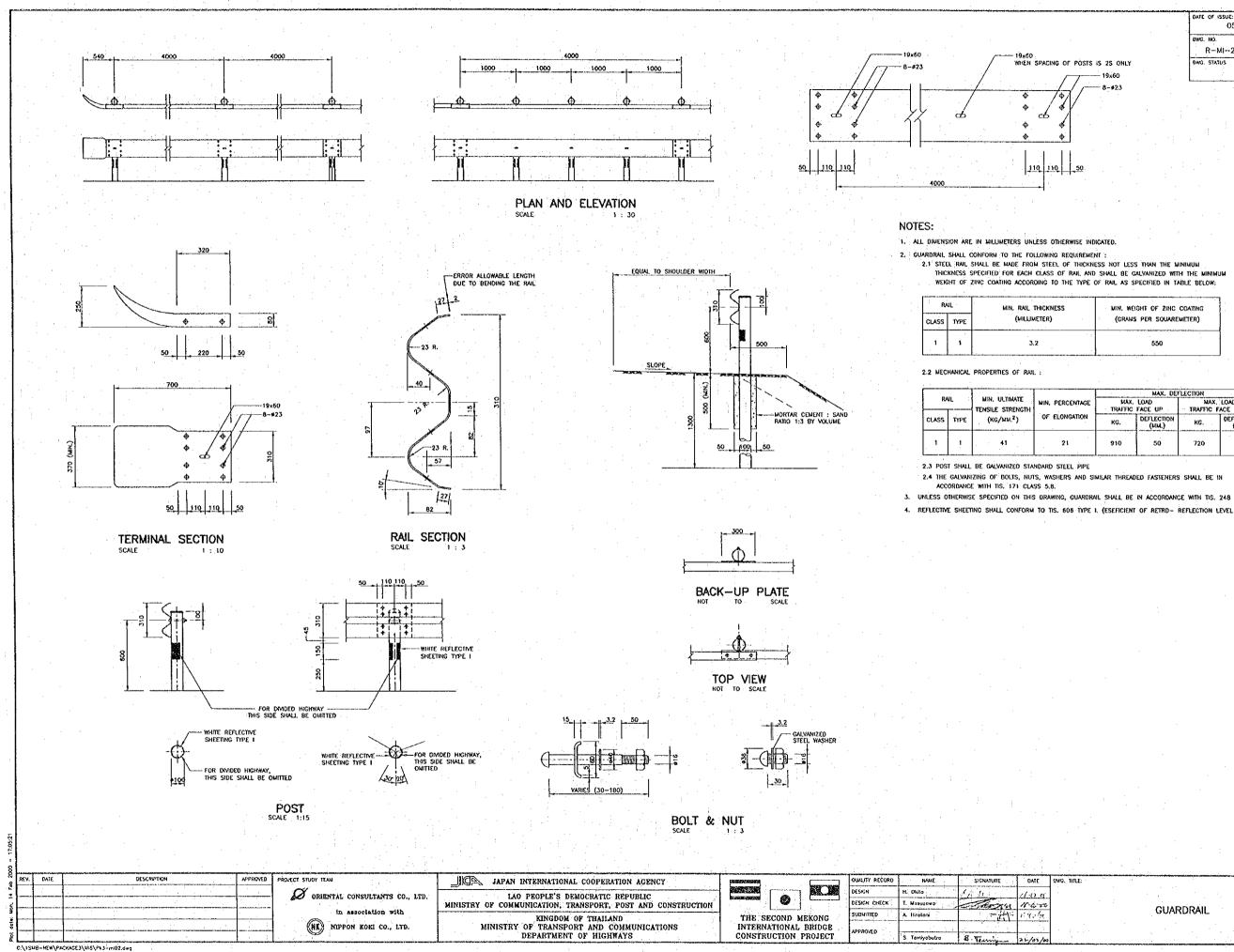
40x40x4 CM, CONCRETE SLAB SHALL CONFORM TO TIS.378

5. WHITE, BLACK, YELLOW AND RED PAINTS SHALL BE GLOSS ENAMEL PAINT

7. FILL UNDER SIDEWALK SHALL BE THE SAME MATERIAL AS EMBANKENT AND COMPACTED TO 90% (MIN.) STANDARD PROCTOR (DOH - 1107) 8. LOCATION FOR CURB MARKING SHALL BE AS SHOWN ON PLAN OR

9. JOINT IN CONCRETE CURB & CURB AND CUTTER SHALL BE SPACED AT 10.00 M. INTERVAL, THE WIDTH OF THE JOINT IS I CM. AND FILLED WITH MORTAR 1:3

CURB AND GUTTER



2.3 POST SHALL BE GALVANIZED STANDARD STEEL PIPE 2.4 THE GALVANIZING OF BOLTS, NUTS, WASHERS AND SIMILAR THREADED FASTENERS SHALL BE IN

	DATE OF ISSUE: 05/0	3/2000
	оию, ню. RMI2	SHEET NO.
G OF POSTS IS 25 ONLY	DWG. STATUS	••••••••••••••••••••••••••••••••••••••
€-+23 ∲		
<b>♦</b>		
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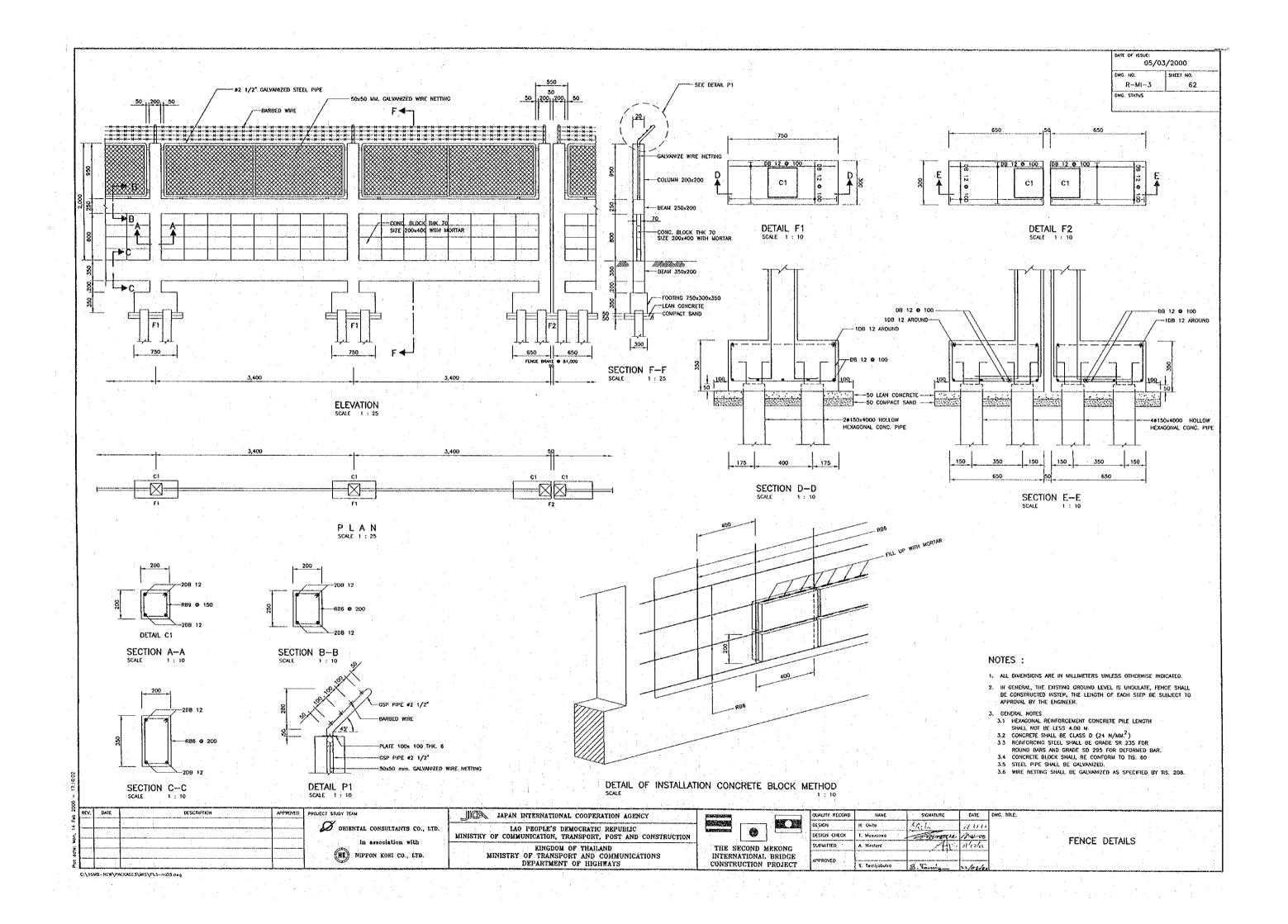
WEIGHT OF ZINC COATING ACCORDING TO THE TYPE OF RAIL AS SPECIFIED IN TABLE BELOW:

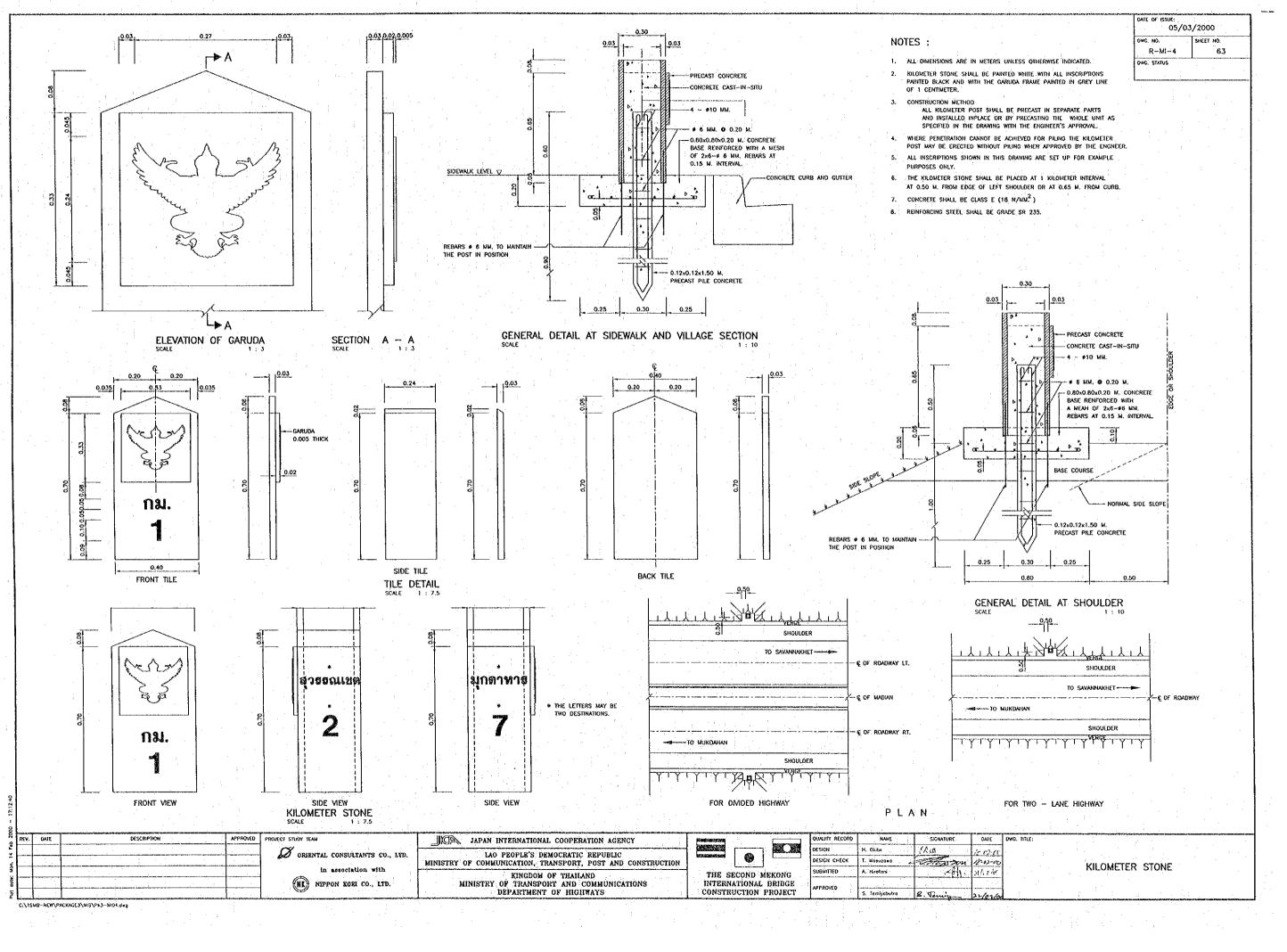
SS	MIN. WEIGHT OF ZINC COATING (GRAMS PER SQUAREMETER)
	550

		MAX. DE	FLECTION	
PERCENTAGE		LOAD FACE UP		LOAD FACE DOWN
LONGATION	KG.	DEFLECTION (MM.)	KG.	DEFLECTION (MM.)
21	910	50	720	50

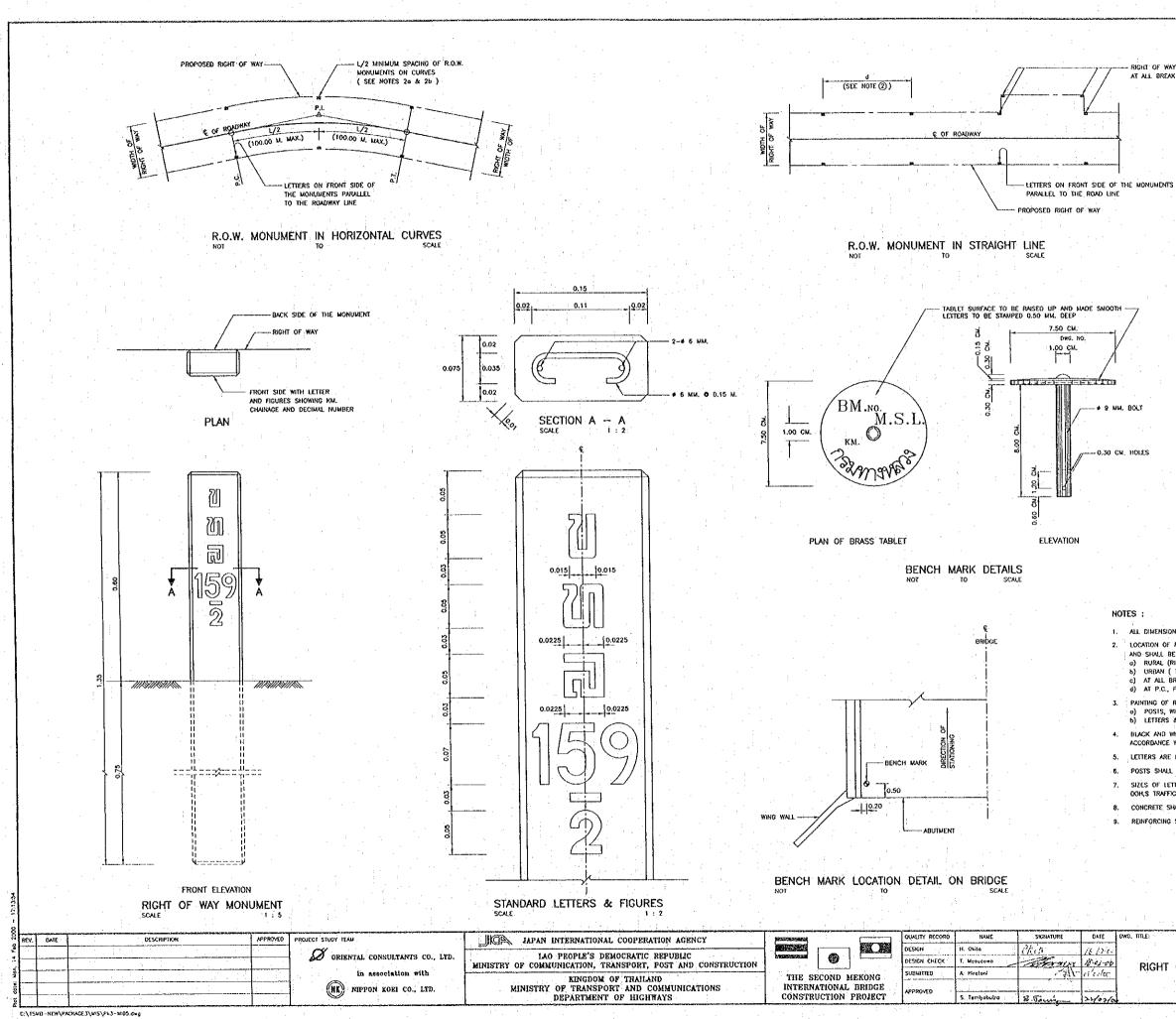
4. REFLECTIVE SHEETING SHALL CONFORM TO TIS. 606 TYPE I. (ESEFICIENT OF RETRD- REFLECTION LEVEL I.)

### **GUARDRAIL**





8			le de la companya de		SCALE 1:7.5			1		<u></u>	
2 P	REV.	OATE	DESCRIPTION	APPROVED	PROJECT STUDY TEAM	JKA JAPAN INTERNATIONAL COOPERATION AGENCY	Final State	QUALITY RECORD	NAVE	SIGNATURE	DATE DW
5	· .	:			ORIENTAL CONSULTANTS CO., LTD.	LAO PEOPLE'S DEMOCRATIC REPUBLIC		DESIGN	H. Okila	Ekin	15 62-11
ç	· .					MINISTRY OF COMMUNICATION, TRANSPORT, POST AND CONSTRUCTION		DESIGN CHECK	T. Masuzana 🧹	Terria Jon	10-02-00
3				·	in association with	KINGDOM OF THAILAND	THE SECOND MEKONG	SUBWITTED	A. Hirotoni	<u></u>	Starte
áate					(NK) NIPPON KORI CO., LTD.	MINISTRY OF TRANSPORT AND COMMUNICATIONS	INTERNATIONAL BRIDGE	APPROVED			
액						DEPARTMENT OF HIGHWAYS	CONSTRUCTION PROJECT		S. Temiyabutra 🗧	2. Terring	22/02/00



RIGHT OF WAY MOUNMENTS DWG. STATUS	DATE OF ISSUE: 05/0	3/2000	
	RMI-5	SHEET NO, 64	

MM, BOLT

3.30 CM. HOLES

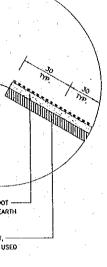
### NOTES ;

- 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDICATED. 2. LOCATION OF R.O.W. MONUMENTS SHALL BE AS SHOWN ON THE PLAN The second seco J. PAINTING OF R.O.W. POSTS.
   o) POSTS, WHITE
   b) LETTERS & FIGURES, BLACK
- BLACK AND WHITE PAINTS MUST BE GLOSS ENAMAL PAINTS IN
- ACCORDANCE WITH TIS. 327 AND SHALL BE APPLIED IN 2-LAYERS.
- LETTERS ARE DEPRESSED 1 CM. INTO THE CONCRETE.
- 6. POSTS SHALL BE ERECTED TRULY VERTICAL.
- SIZES OF LETTERS AND FIGURES SHALL BE IN ACCORDANCE WITH DOH,S TRAFFIC CONTROL MANUAL AND THE DRAWING. 7.
- 8. CONCRETE SHALL BE CLASS E (18 N/MM.<sup>2</sup>)
- 9. REINFORCING STEEL SHALL BE GRADE SR 235.

1	. I										
DWG.	TTLE:		· · · · · · · · · · · ·				******				
									· ·		÷
•	RIGHT	OF	WAY	MON	UME	NT	v. BE	NCH	- MA	RK	
				:	· .						
											_

	in association with	MINISTRY OF COMMUNICATION, TRANSPORT, POST AND CONSTRUCTION KINGDOM OF THAILAND		ISIGH CHECK T. Mosuzono JBWITTED A. Hirotani
EV. EARE DESCRIPTIO	N APPROVED PROJECT STUDY TEAM	LTD. JAPAN INTERNATIONAL COOPERATION AGENCY		JULTY RECORD NAME SIGNATURE DATE
	NOT TO SCA			SINCES SEALED WITH TOP SOIL THE PLANTED SOUS SHALL BE BLISHED THEMSELVES IN THE NEW AREAS
	ISOMETRIC DIAGRAM BLOCK SODDIN NOT 10 SOA	ια το	10. PLAN	O EROSIVE POSITION TED BLOCK SHALL BE PLACED AND LIGHTLY COMPACTED ON TH STICES SEALED WITH TOP SOIL THE PLANTED SODS SHALL BE
			BLOC 9. THE I	K SHALL BE STAGGERED ONE HALF ITSLENGTH AND BE FIRMLY ENGTH OF "L" SHALL BE DIRECTED BY THE ENGINEER WHICH A
			8. 5000	HE SIDE SLOPES WITHIN 48 HOURS AFTER REMOVAL FROM BOR ING SHALL BE LAID IN STAGGERED ROWS PARALLEL TO ROADWA
	EMBANKWENT MATERAL		EARTH	K SODDING OBTAINED FROM PLANTED GROUND FOR PLACING SH AT LEAST 4 CM, THICK AND HAVE A MINIMUM SIZE OF APPRO ILE SIDE STORES BITLIN AR HOURS AFTER REMOVAL FROM FOR
	PAVEMENT STRUCTURES		BLOCK	SODDING
				LETED TO THE DETAILS AS SPECIFIED ON THE DRAWING.
			ี่ เพ่าห	YPE OF GRASS USED SHALL BE A LOCAL SPECIES WHICH GROW
· · · ·	1/2 CARRIAGEMAY SHOULDER VERGE		AS RE	QUIRED, THE SIDE SLOPE MATERIAL SHALL BE SCARIFIED TO A WATER AND SODDING PLACED.
			4. WHERE FORM	THE SIDE SLOPE MATERIAL IS SUITABLE FOR GRASS, THE FOL
			SHALL	THE SIDE SLOPE MATERIAL IS NOT SUITABLE FOR GROWING OF BE PLACED ON THE SIDE SLOPES AND LIGHTLY COMPACTED TO ENED WITH WATER AND SODDING PLACED.
1			EMBAN BE SO	KMENTS COMPOSED OF SANDY OR SILTY MATERIALS WILL REQU DOED AND THEN ONLY AT THE DIRECTION OF THE ENGINEER
	۹		2. THE E	mension are in centimeters unless otherwise indicated. Ngineer shall decide whether or not to provide sodding
			GENERAL	
			NOTES	<b>;</b>
en e				
				DETAI TOM TO
	IN CASE OF SAND DABANKWENT, 10 CM, THICK CLAY SHALLBE USED			10 CM. THICK CLAY SHALL BE USED
a da anti- Referencia de la constante de l	SYSTEMS PACKED WITH MOIST EARTH AT LEAST CM. THICK			at least cm. Thick in case of sand embankment,
				SODDING SHALL HAVE THEIR ROOT
			1999 1999 1999 1999 1999 1999 1999 199	
	SE WIT ON	PAVEMENT STRUCTURES DETAIL 'A'	(SEE HOTE 9)	
	12/109/109/10	3742	2.	
	STE WITE BY TOTAL STATE	51 (19,30/20)		
	VERGE SHOULDER	CARRIAGEWAY		$\left  \begin{array}{ccc} & & & & \\ & & & \\ \end{array} \right  = \left  \begin{array}{ccc} & & & \\ & & \\ \end{array} \right  = \left  \begin{array}{ccc} & & & \\ \end{array} \right  = \left  \begin{array}{ccc} & & & \\ \end{array} \right  = \left  \begin{array}{ccc} & & \\ \end{array} \right  = \left  $

ATE OF ISSUE: 05/0	3/2000
WG. NO.	SHEET NO.
R-MI-6	65
WC. STATUS	



SODDING FOR SLOPE PROTECTION GENERALLY L REQUIRE SODDING, CUT SLOPE WILL NOT NORMALLY VEER

WING GRASS, ORGANIC TOP SOIL APPROXIMATELY 10 CM. THICK CTED TO THE SATISFACTION OF THE ENGINEER, THOROUGHLY

HE FOLLOWING PROCEDURES SHALL APPLY AFTER THE ROADWAY N THE DRAWING AND THE SIDE SLOPE HAS BEEN SHAPED D TO A MINIMUM DEPTH OF 5 CM, THOROUGHLY MOISTENED

TH GROWS RAPIDLY THE ENGINEER SHALL DECIDE TYPE OF GRASS SHALL BE USED THE WORK SHALL BE

HE GRASS UNTIL THE END OF THE MAINTENANCE PERIOD.

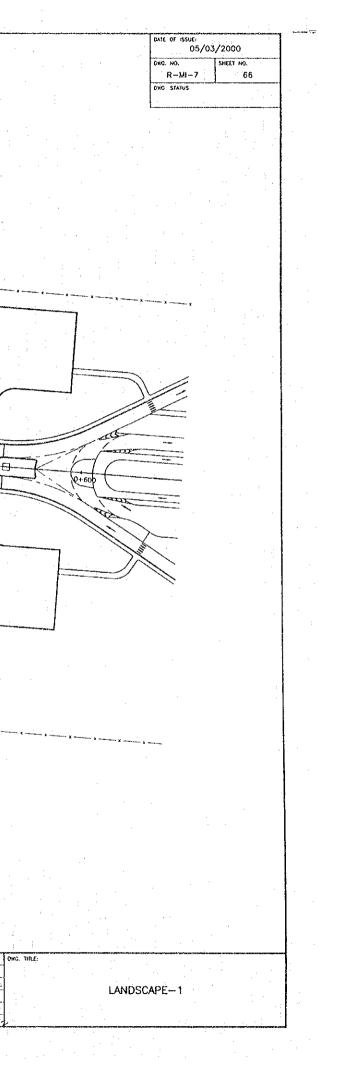
ING SHALL HAVE THEIR ROOT SYSTEM PACKED WITH WOIST APPROXIMATELY 30 X 30 CM. THE SODDING SHALL BE PLACED IM BORROW AREA

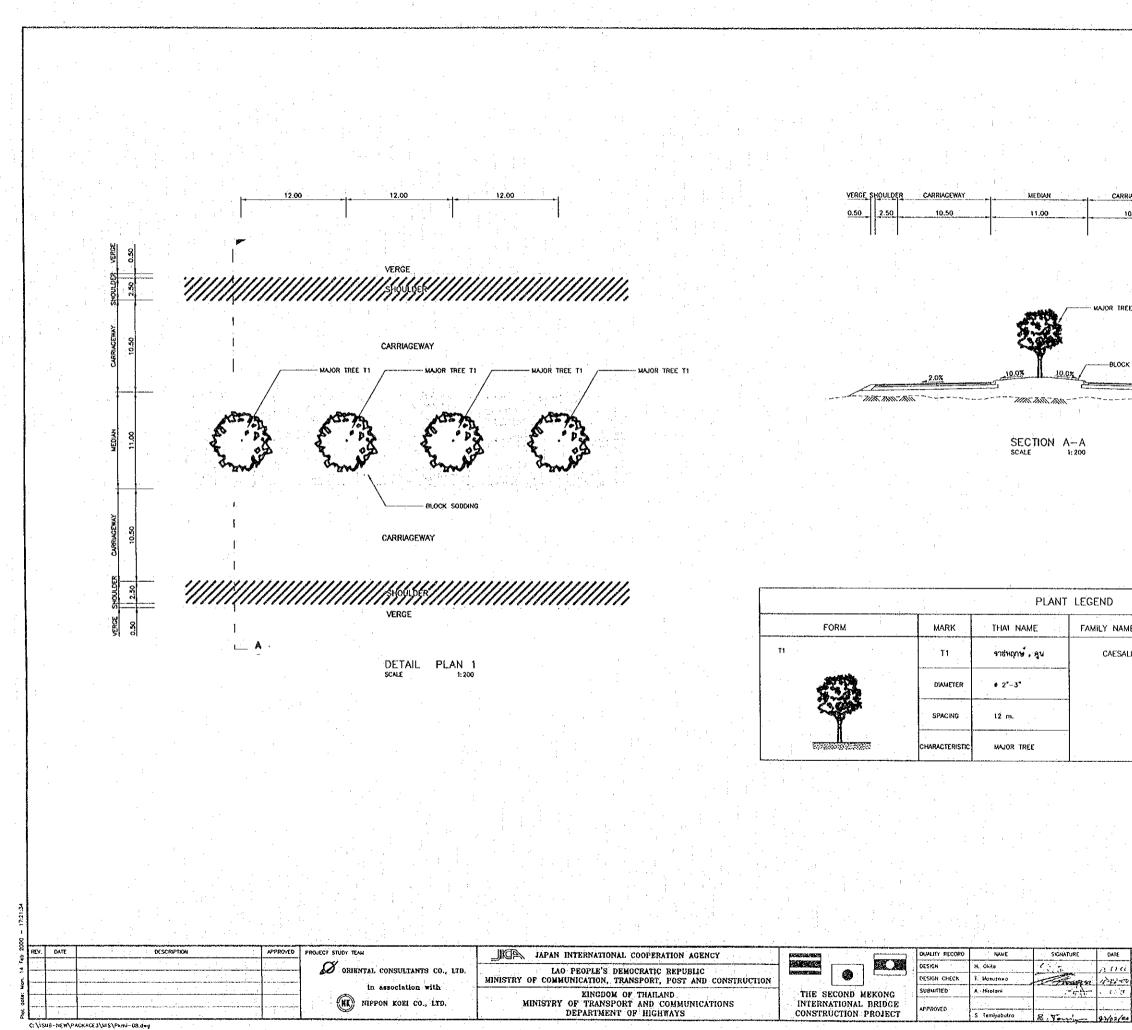
ROADWAY ALIGNMENT AS SHOWN ON THE DRAWING EACH FIRMLY BUTTED AGAINST THE PREVIOUS BLOCK(S) WHICH ABOVE EXISTING GROUND APPROXIMATELY 30 CM.

ON THE DESIGNATED AREAS AND THE LONGITUDINAL ALL BE VIATERED DAILY UNTIL THEY HAVE ROOTED AND HAVE

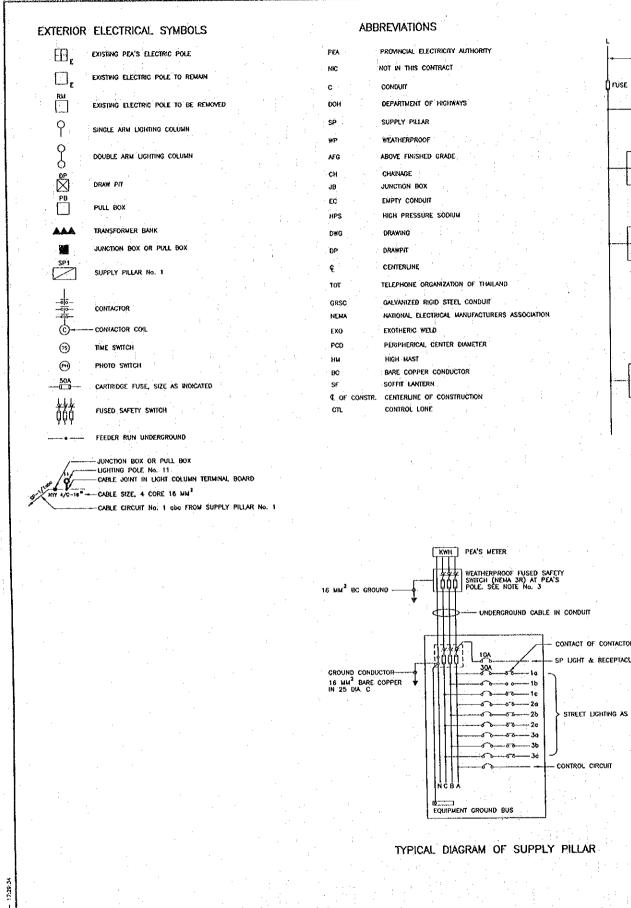
SODDING DETAILS

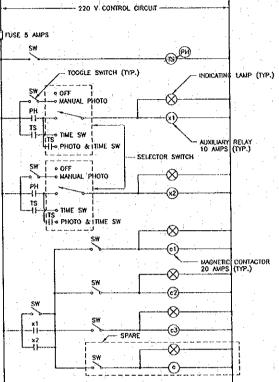
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	· ·	t f						
			0	BEGINNIN	ig of project.			ж. Э.
				AT INTER STA 0+0 = STA 0+0 KM. 170	G OF PROJECT. SECTION 013.113 & OF <u>CONSTRUCTION</u> 000.000 発 "A" & そ "B" +519.845 HWY, RT, NO 212			LICOPOSED
	-						— SEE DETAIL PLAN 1	
	1 ×				PROPOSED R.O.W.	PROPOSED R.O.W.		
		STA 0+000.000 C OF CONSTRUCTION -STA 0+000.000 (SURVEY LINE)	V/L		8			
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te: Non.					in association with	LAO PROPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION, TRANSPORT, POST AND CONSTRUCTION KINGDOM OF THAILAND	THE SECOND MEKONG SUBJUTED A Hirologi	- 10-10-10-10-10-10-10-10-10-10-10-10-10-1
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## NOTES:

- ALL DIMERISIONS ARE SHOWN IN METERS UNLESS OTHERWISE INDICATED.
   THE PEA SHALL BE RESPONSIBLE FOR REMOVAL AND RELOCATION OF ALL EXISTING FLECTING POLES AND LINES, HIGH VOLTAGE, LOW VOLTAGE, OVERHEAD AND UNDERGROUND WITHIN BOUNDARY OF RIGHT OF WAYS IN THIS CONTRACT.
   THE PEA SHALL ARRANGE POWER SUPPLY FOR THE SUPPLY PILLARS, THE CONTRACTOR SHALL COORDINATE WITH THE PEA FOR LOCATION, HE SHALL PROVIDE THE INCOMING SERVICE CABLE FROM SUPPLY PILLARS TO PEA'S METERING POLE WITH TUSIBLE SAFETY SWITCH, SERVICE HEAD AND SLACK CABLES READY FOR PEA'S CONNECTIONS.
   EXALL DOWING CONSTRUCTION.
   ALL POWRE CABLES SHALL BE COPPER. 0.6/1 KV 90°C CROSS-UNKED
- OTHERWISE INDICATED.
- OTHERMISE INDICATED. 7. ALL WIRING CROSS UNDER ROADWAY OR PAVEMENT SHALL BE RUN IN HIGH DENSITY POLYETIALENE CONDUITS REINFORCED CONCRETE ENCASED EXTENDED 1.50 M. BEYOND PAVEMENT NUMBER OF CONDUITS SHALL BE AS REQUIRED.
- SHOLL BE AS INCOUNCED. A ALL WINKS ON, IN OR UNDER STRUCTURE SHALL BE RUN IN UPVC CONDUITS. 9. ALL DRAWFITS SHALL BE TYPE "6" UNLESS OTHERWISE INDICATED THE EXACT LOCATION SHALL BE AS DIRECTED BY THE ENGINEER
- DURING CONSTRUCTION. 10. FOR SIMPLICITY, THE DIAGRAM OF SUPPLY PILLARS AS SHOWN IN STREET LICHTING DURGRAWS IN OTHER DRAWINGS ARE INCOMPLETE, REFER TO TYPICAL DIAGRAM IN THIS DWG.

TYPICAL CONTACTOR CIRCUIT

CONTROL	SELECTOR	SWITCH	POSITION	

1. OFF -	SWITCH OFF ALL LUMINARIES
2. MANUAL -	MANUALLY SWITCH ON/OFF ALL LUMINARIES
3. РНОТО -	ALL LUMINARIES BE SWITCHED ON/OFF BY

3. PHOTO -	PHOTOCELL CONTROL
4. TIME SW -	ALL LUMINARIES BE SWITCHED ON/OFF BY PROGRAMMABLE TIMER SWITCH CONTROL

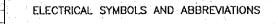
ALL LUMINARIES BE SWITCHED ON/OFF BY BOTH PHOTOCELL AND TIMER SWITCH CONTROL 5. PHOTO &-TIME SW

CONTACT OF CONTACTOR SP LIGHT & RECEPTACLE STREET LIGHTING AS DWG.

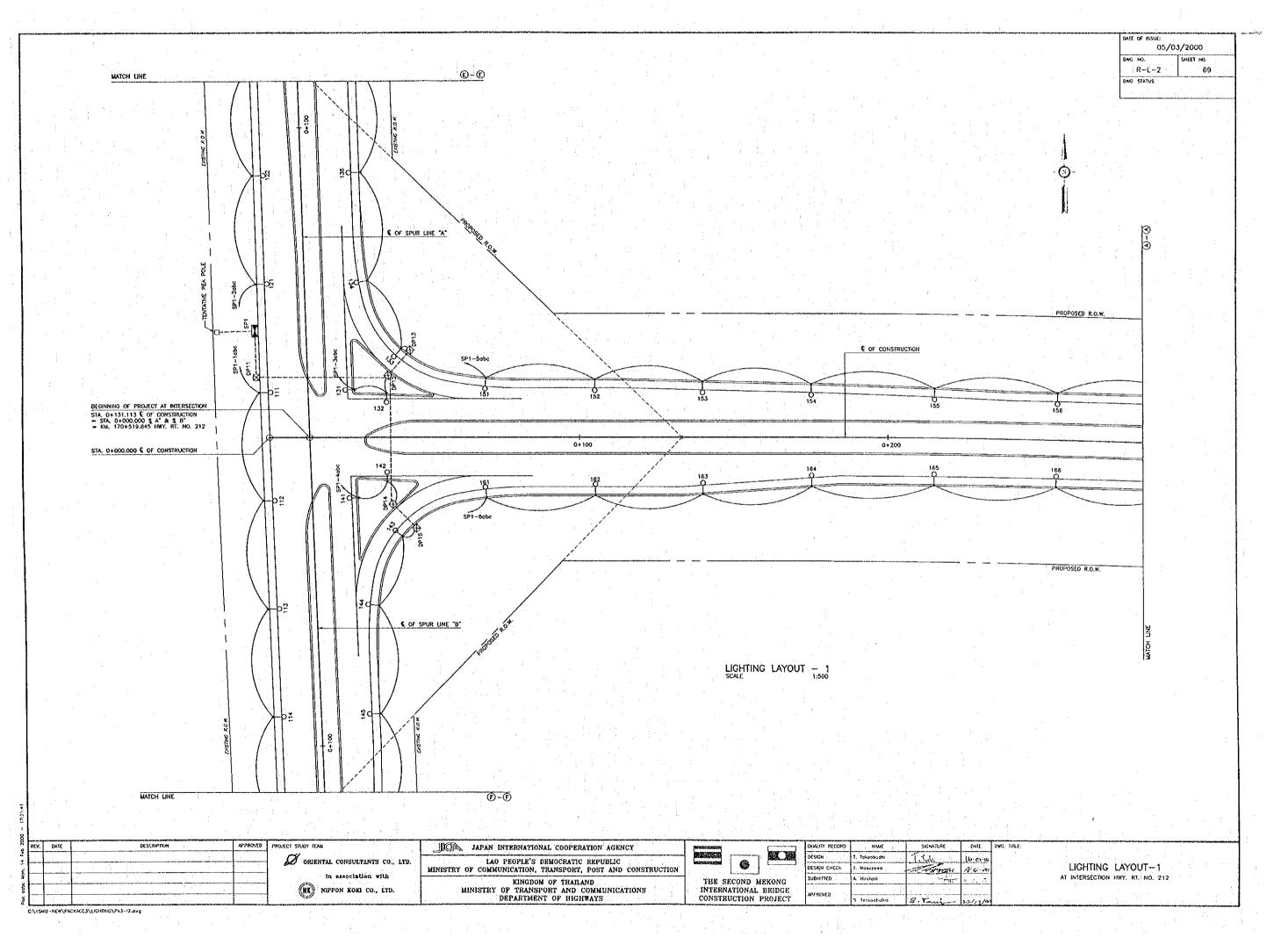
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8						NAKO NIPPON KOKI CO., LID.	DEPARTMENT OF HIGHWAYS	CONSTRUCTION PROJECT	APPROVED	S. Temiyabutra	8. Joury-	2.2/02
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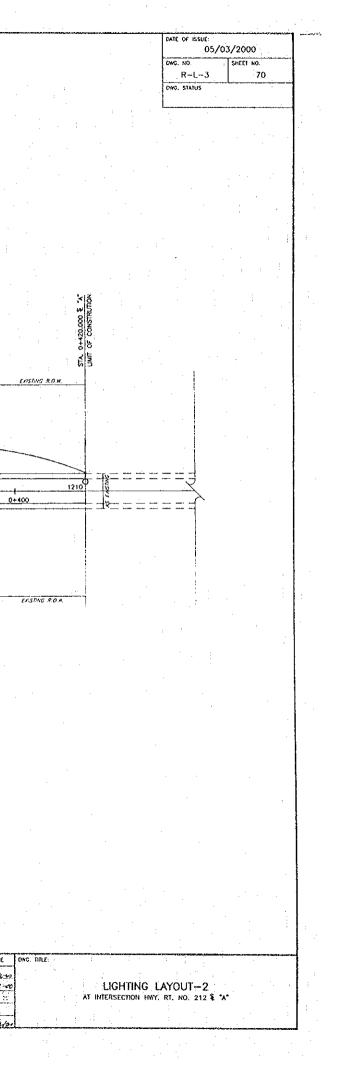
ENDINCEN DURING CONSTRUCTION. 5. ALL POWER CABLES SHALL BE COPPER, 0.6/1 KV 80°C CROSS-UNKED POLYETATLERE INSULATED AND PUC SHEATHED POWER CABLE (IEC 502 STANDARD) 6. ALL CONDUITS SHALL BE HIGH DENSITY POLYETHYLENE CONDUITS UNLESS



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ok diate:				(III) NIPPON KOBI CO., LTD.	KINGDON OF THAILAND MINISTRY OF TRANSPORT AND COMMUNICATIONS DEPARTMENT OF HIGHWAYS	THE SECOND MEKONG INTERNATIONAL BRIDGE CONSTRUCTION PROJECT	APPROVED	للسب
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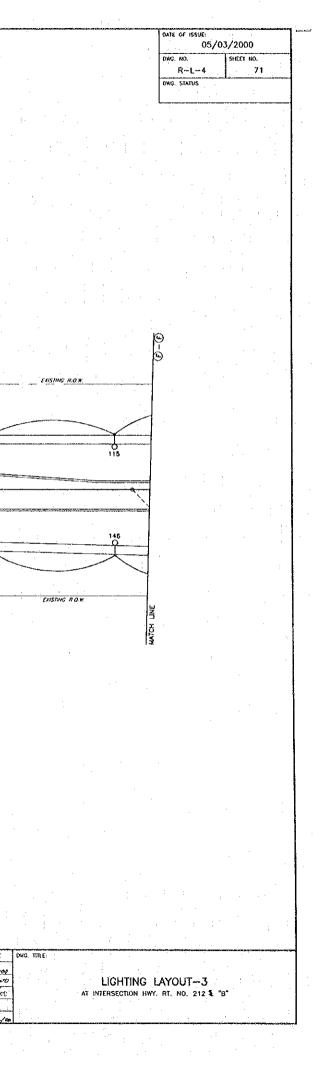
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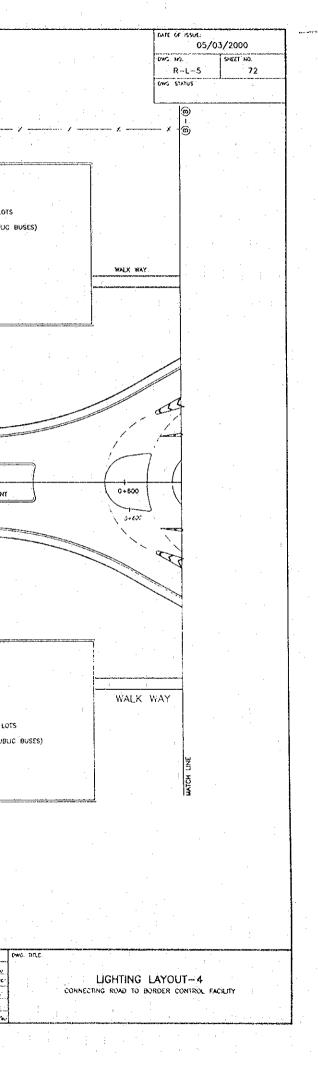
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	161	0+070.000	COF CONSTR.	10	SINGLE	M2	2.50	co	1x250 HPS		
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	1511	0+455.000	& OF CONSTR.	10:	SINGLE	M2	2.50	со	1x250 HPS		
	1510	0+415.000	C OF CONSTR.	10	SINGLE	M-2	2.50	co	1x250 HPS	· · · · · · · · · · · · · · · · · · ·	
1	159	0+375.000	& OF CONSTR.	10	SINGLE	M-2	2.50	00	1x250 HPS		SINGLE LINE DIAGRAM (SP1)
	158	0+335.000	& OF CONSTR.	10	SINGLE	u-2	2.50	co	1x250 HPS		
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	1410	0+280.000	SPUR LINE "B"	10	SINGLE	M-2	2.50	co	1x250 HPS		3x10A 1P, ID25 KA
	149	0+240.000	SPUR LINE "9"	10	SINGLE	M-2	2.50	co	1x250 HPS		
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1	147	0+160.000	SPUR LINE "B"	10	SINGLE,	M-2	2.50	co	1x250 HPS		
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	145		SPUR LINE "B"	10	SINGLE	M2	2.50	CO	1x250 HPS		
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Į	1312		SPUR LINE "B"	10	SINGLE	M-2	2.50	C0	1x250 HPS	· · · · ·	
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1	138	0+120.000	SPUR LINE "A"	10	SINGLE	¥-2	2.50	CO	1x250 HPS		
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	131		OF CONSTR.	10	SINGLE	₩~2	2.50	co	1x250 HPS		
	1210		SPUR LINE A	10	SINGLE	M-2 M-2	2.50	co	1x250 HPS	<u>.</u>	
1	129	·	PUR UNE "A"	10	SINGLE	⊌-2 ⊌-2	2.50	 C0	1x250 HPS 1x250 HPS		
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	122	0+085.000 \$	PUR LINE "A"	10	SINGLE	M-2	2.50	co	1x250 HPS		
	121		PUR LINE "A"	10	SINGLE	M-2	2.50	со	1x250 HPS		
	1112		PUR LINE "B"	10	SINGLE	W-2	2.50	со	1x250 HPS		
1	1111	0+355.000 S	PUR LINE "B"	10	SINGLE	M-2	2.50	со	1x250 HPS		

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LAMP

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1x250 HPS

REMARK

TOTAL LOAD 30 KVA

COLUMN

TYPE

PILLAR

SINGLE

COLUMN

HEIGHT

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ROAD

SPUR LINE "A"

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0+320.000

COLUMN

NUMBER

SP1

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312

113

114

115

116

117

118

119

1110

LIGHTING COLUMN SCHEDULE

MOUNTING

TYPE

GRADE

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M-2

M-2

**M**--2

M-2

M-2

M-2

M--2

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M-2

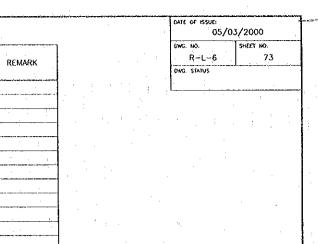
ARM COLUMN COLUMN COLUMN MOUNTING LANTERN LAMP LENGTH ROAD STA. NUMBER HEIGHT TYPE TYPE TYPE TYPE (M.) CONSTR 10 SINGLE M-2 2.50 co 1x250 HPS 162 0+105.000 0+140.000 € OF CONSTR 10 SINGLE ม-2 2.50 co ; 1x250 HPS 163 2.50 1x250 HPS co 164 0+175.000 & OF CONSTR. 10 SINGLE M~2 2.50 1x250 HPS co M-2 : 165 0+215,000 & OF CONSTR. 10 SINGLE M-2 2.50 co 1x250 HPS 166 & OF CONSTR. 10 SINCLE 0+255.000 CONSTR. 10 SINGLE M-2 2.50 co 1x250 HPS 167 0+295.000 2.50 1x250 HPS 168 0+335.000 & OF CONSTR. 10 SINGLE M-2 00 SINGLE M-2 2.50 co 1x250 HPS 169 0+375.000 CONSTR. 10 1x250 HPS SINGLE M-2 2.50 C0 1610 0+415.000 & OF CONSTR. \$0 2.50 со 1x250 HPS 1611 & OF CONSTR. 10 SINGLE M-2 0+455.000 1612 0+495.000 COF CONSTR. 10 SINGLE M--2 2.50 CO 1x250 HPS

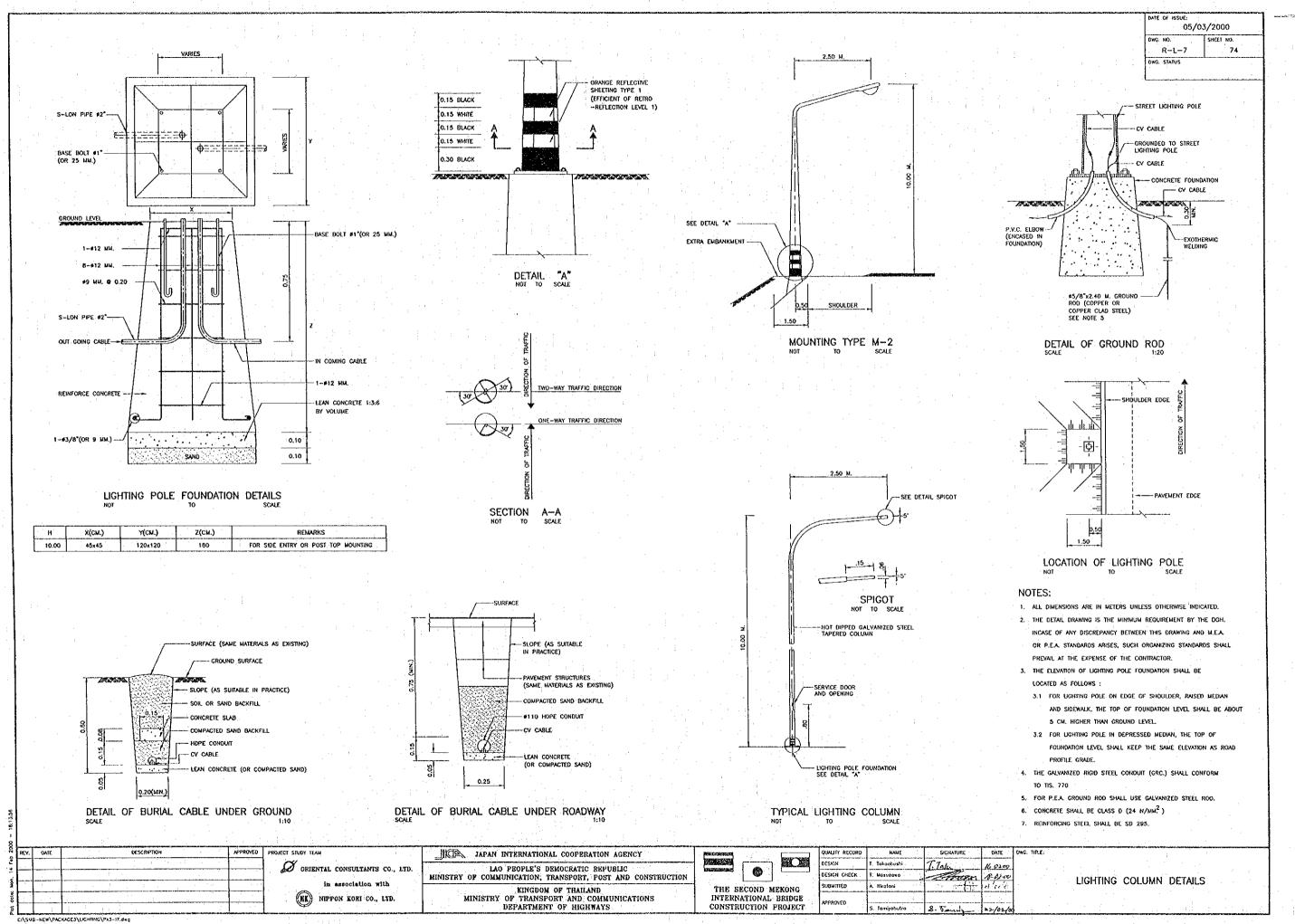
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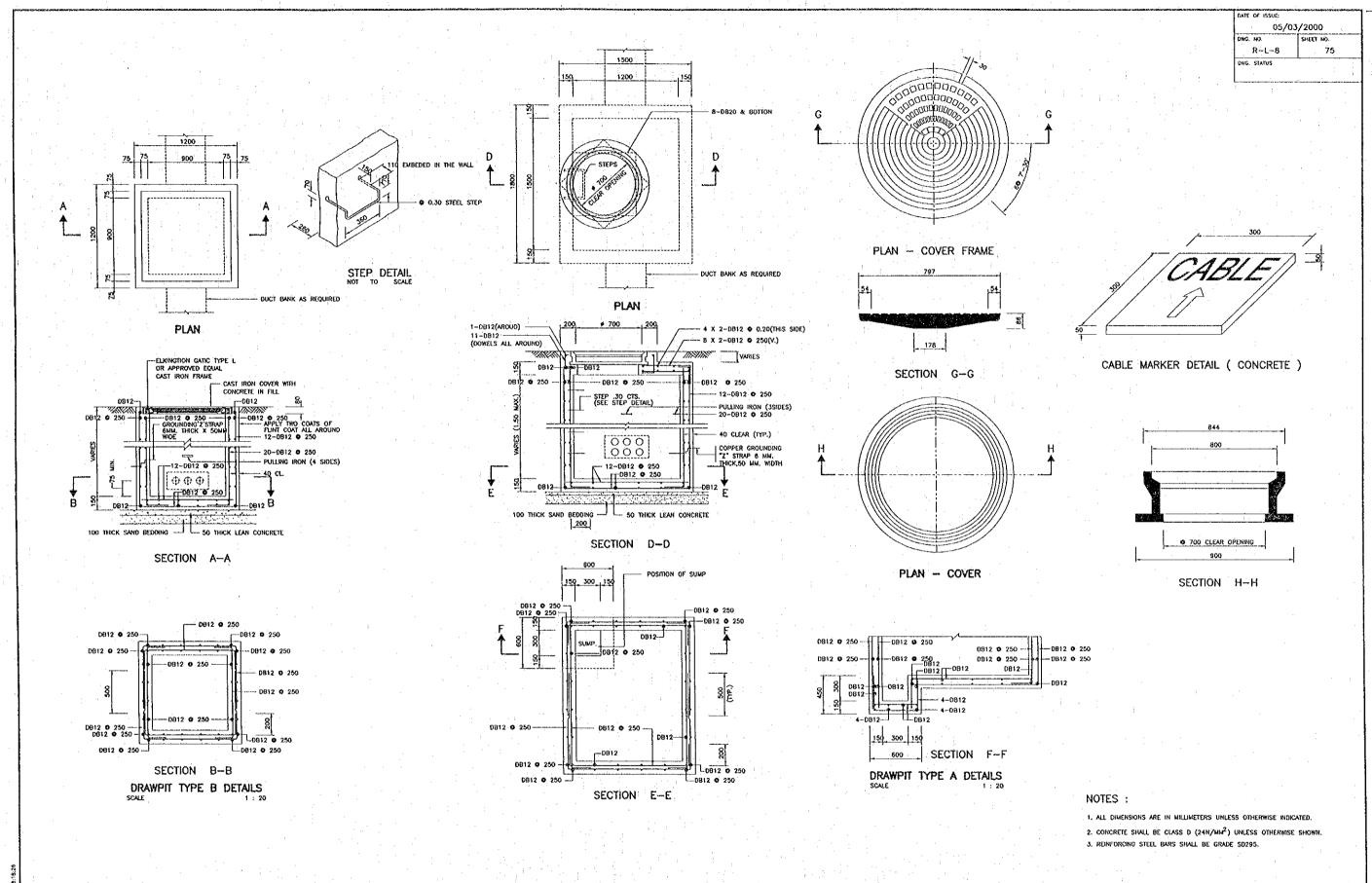
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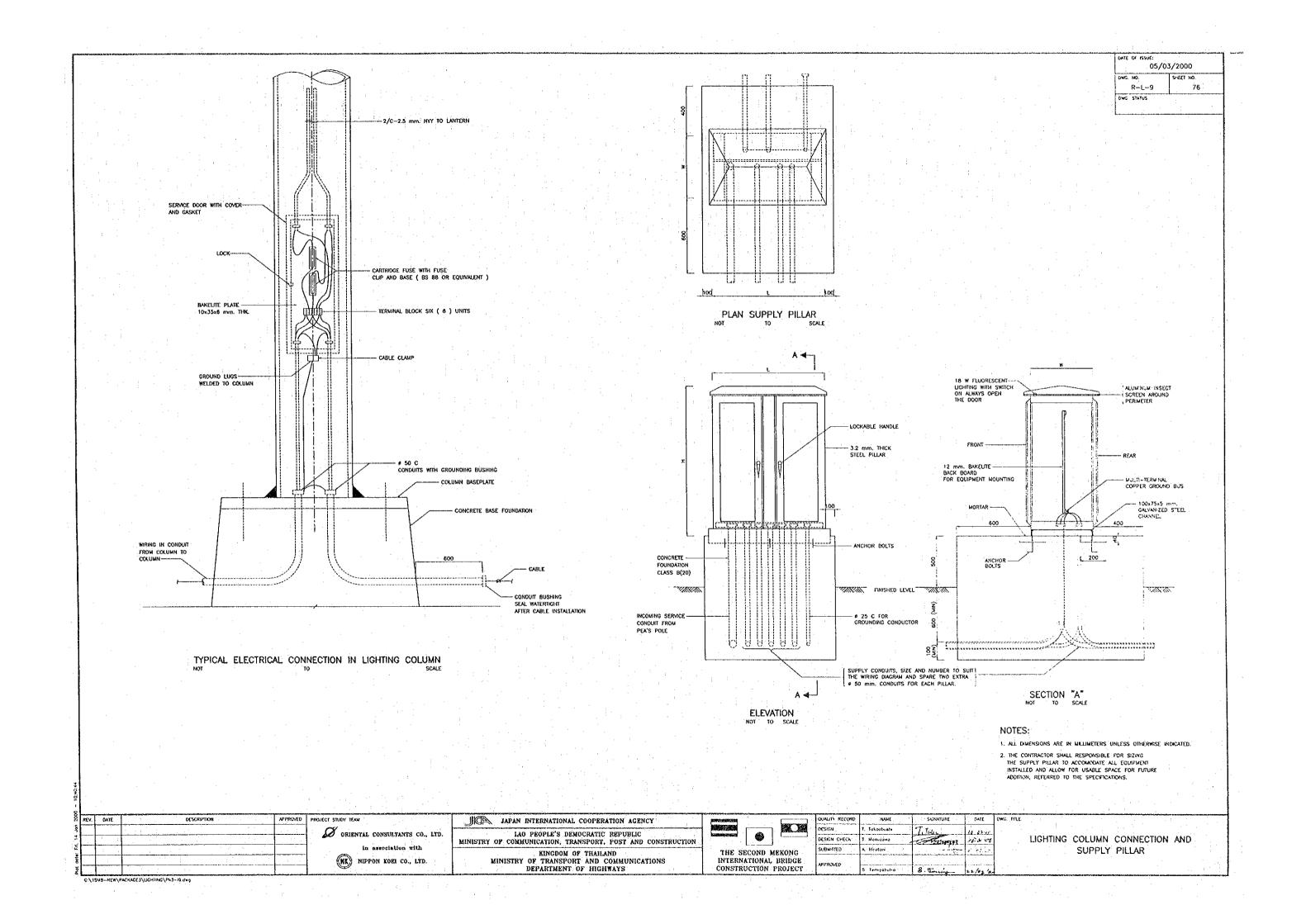
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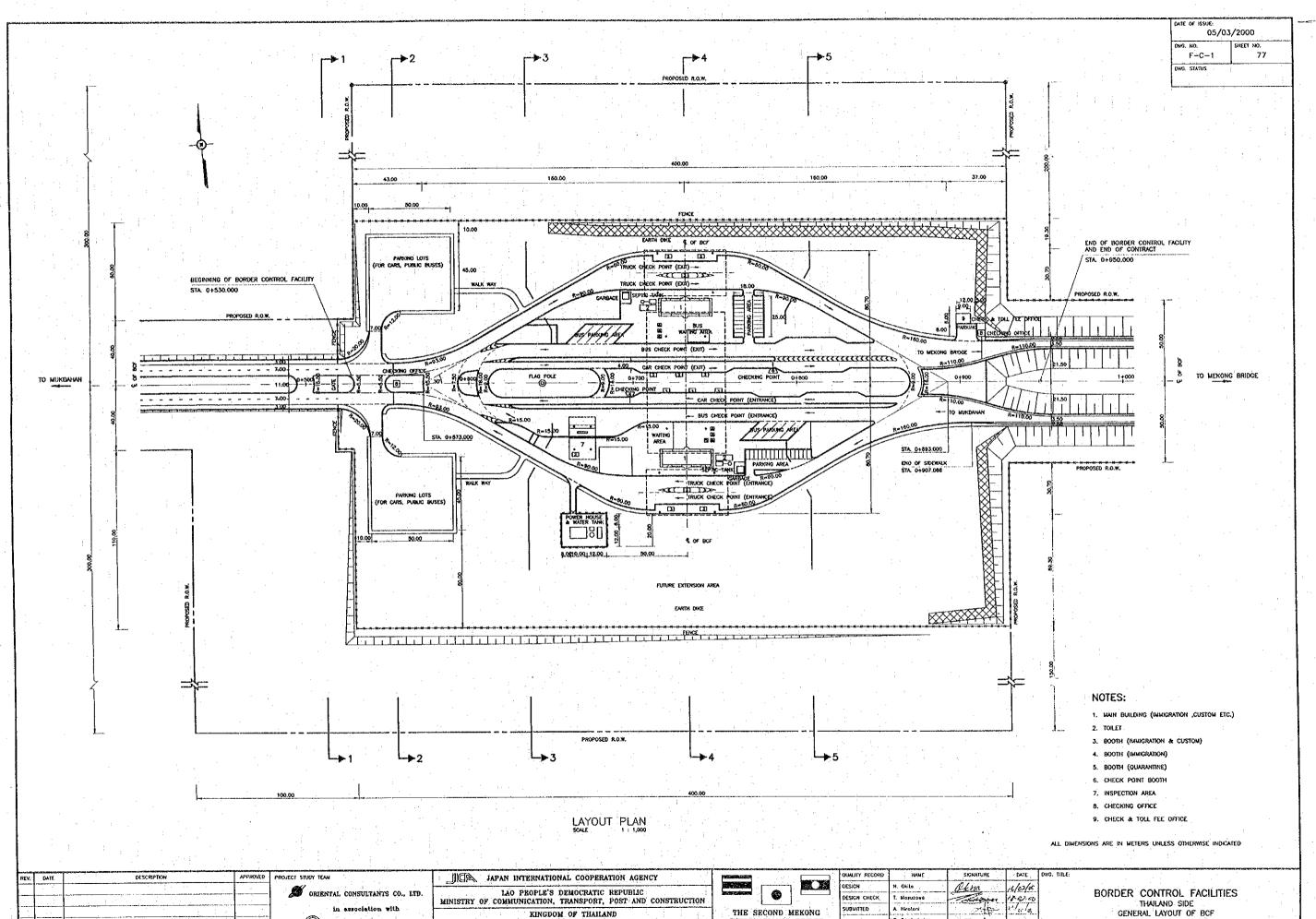




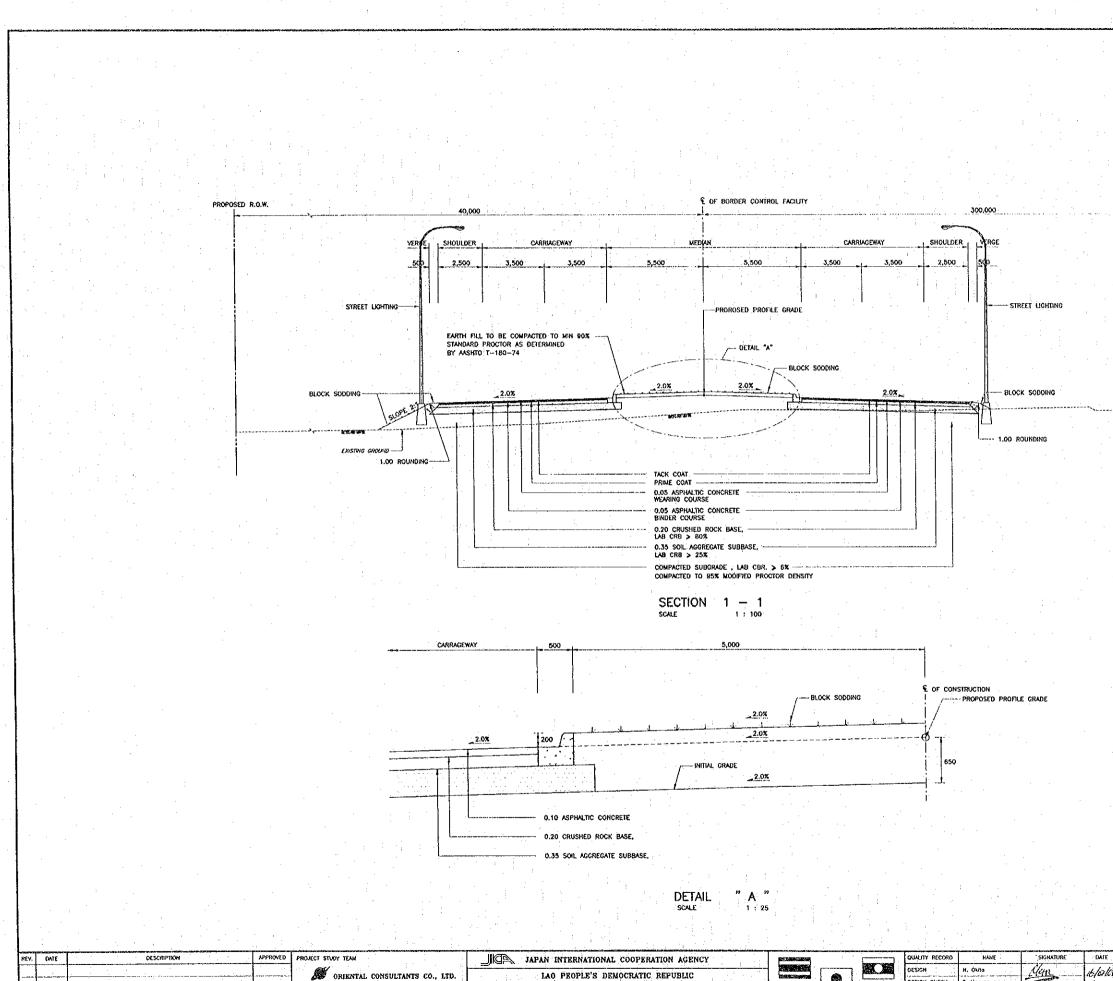


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ł				in association with	KINGDOM OF THAILAND	THE SECOND MEKONG	SUBWITTED	A. Hirolani	24	2 Sala	1	GI
				NEPPON KORI CO., LTD.	MINISTRY OF TRANSPORT AND COMMUNICATIONS	INTERNATIONAL BRIDGE	APPROVED	S. Terniyobutro	R. Tayuny-	22/01/01	 1	~
					DEPARTMENT OF HIGHWAYS	CONSTRUCTION PROJECT	Arico					
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NE NIPPON KOEL CO., LTD.

LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION, TRANSPORT, POST AND CONSTRUCTION KINGDOM OF THAILAND. MINISTRY OF TRANSPORT AND COMMUNICATIONS DEPARTMENT OF HIGHWAYS

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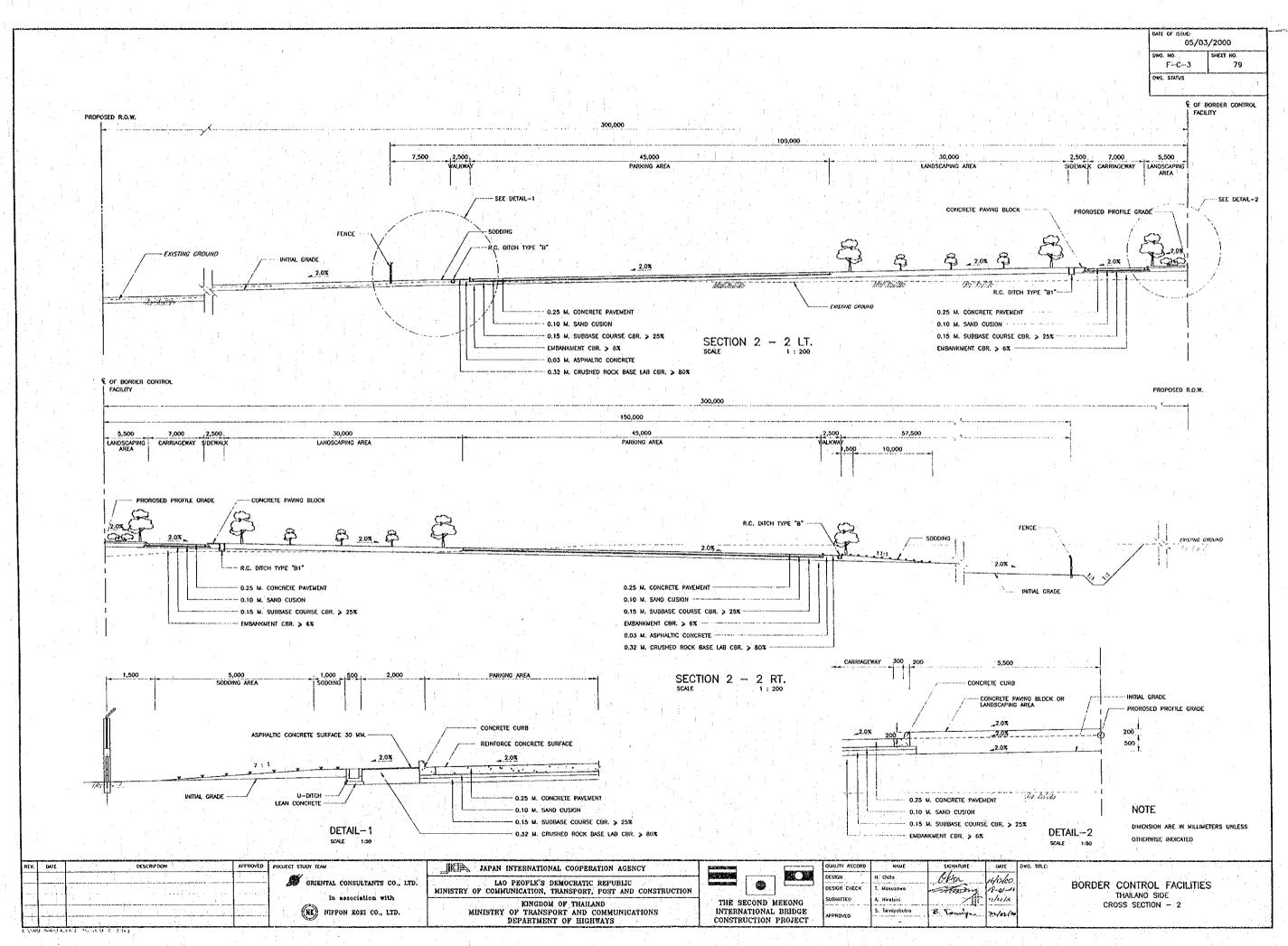
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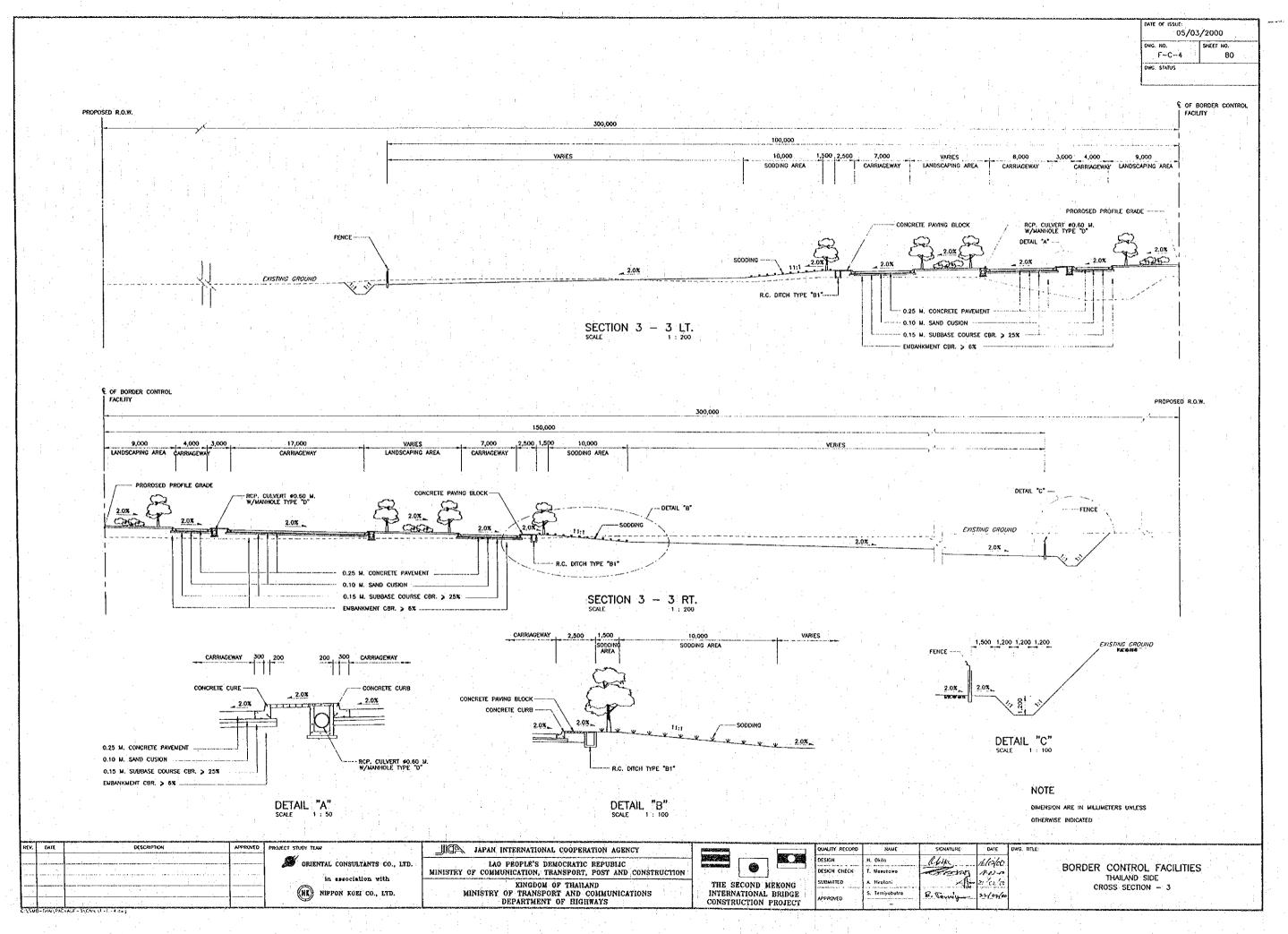
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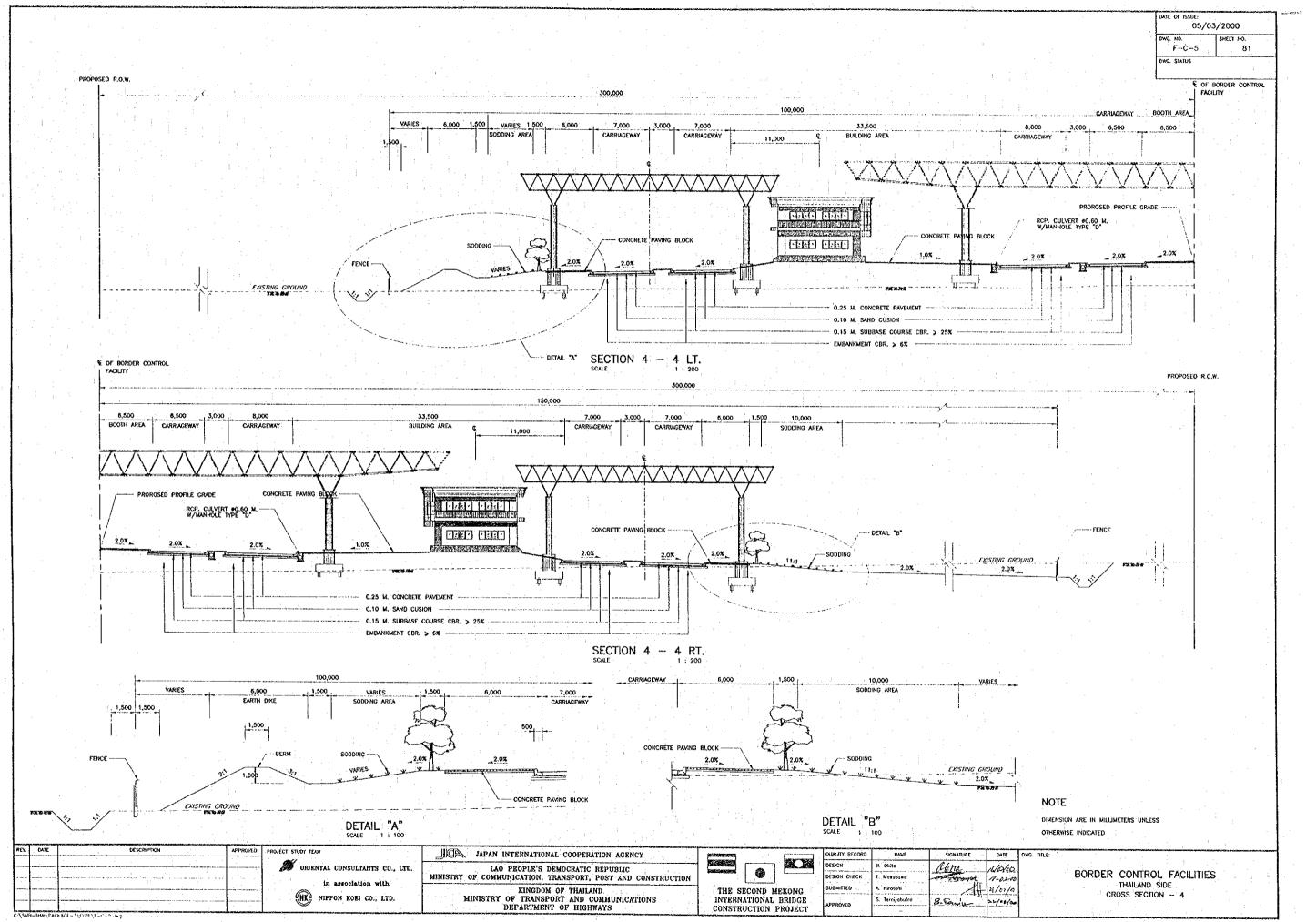
---- EXISTING GRADE

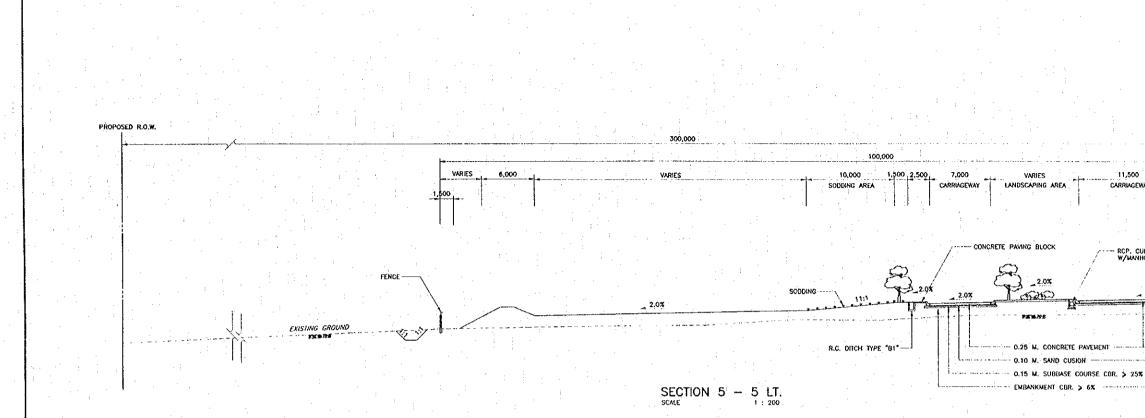
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> BORDER CONTROL FACILITIES THAILAND SIDE CROSS SECTION - 1



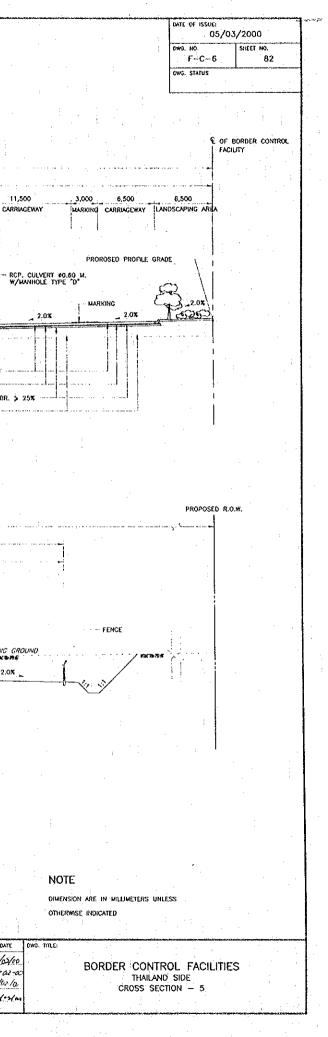


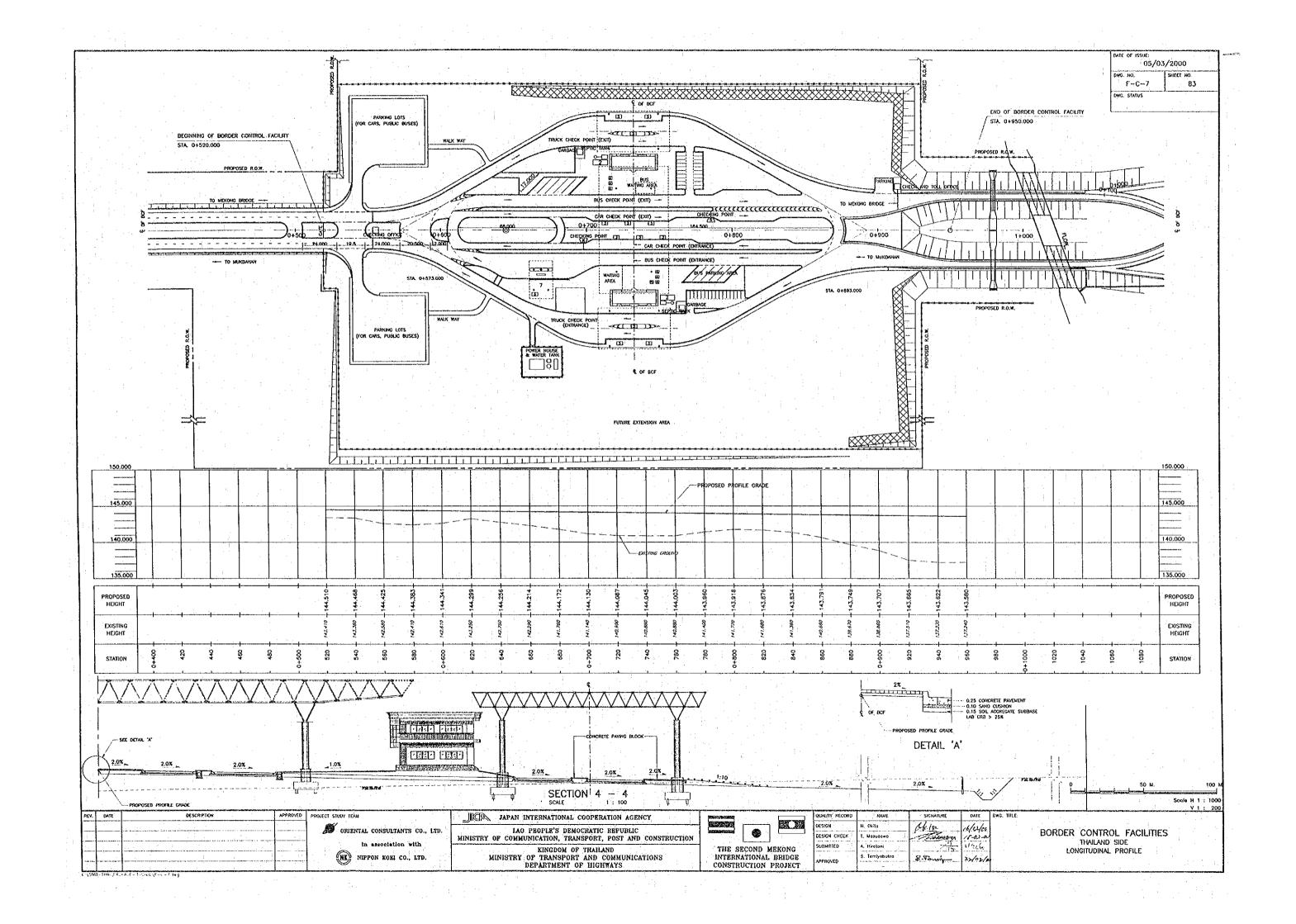


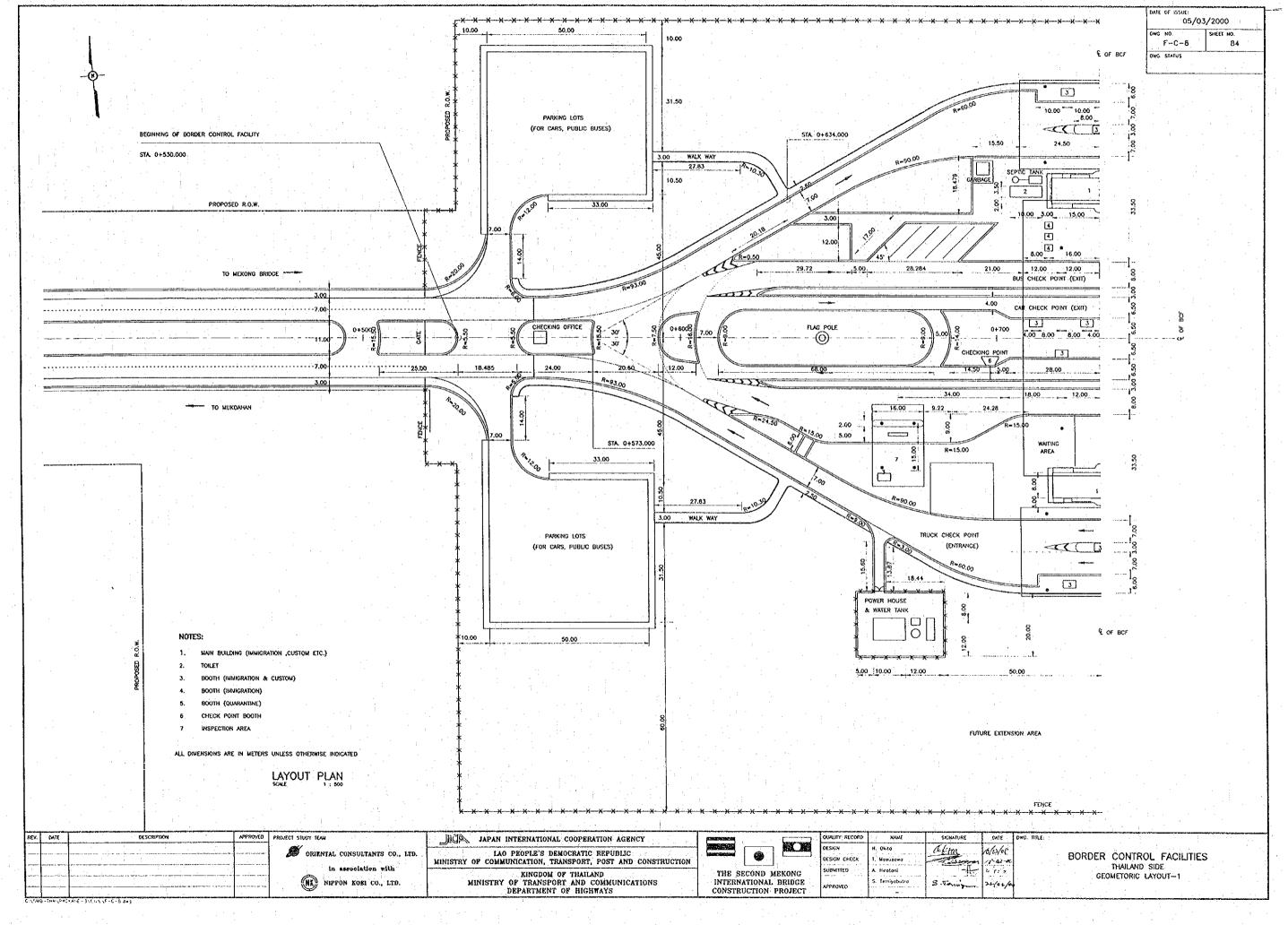


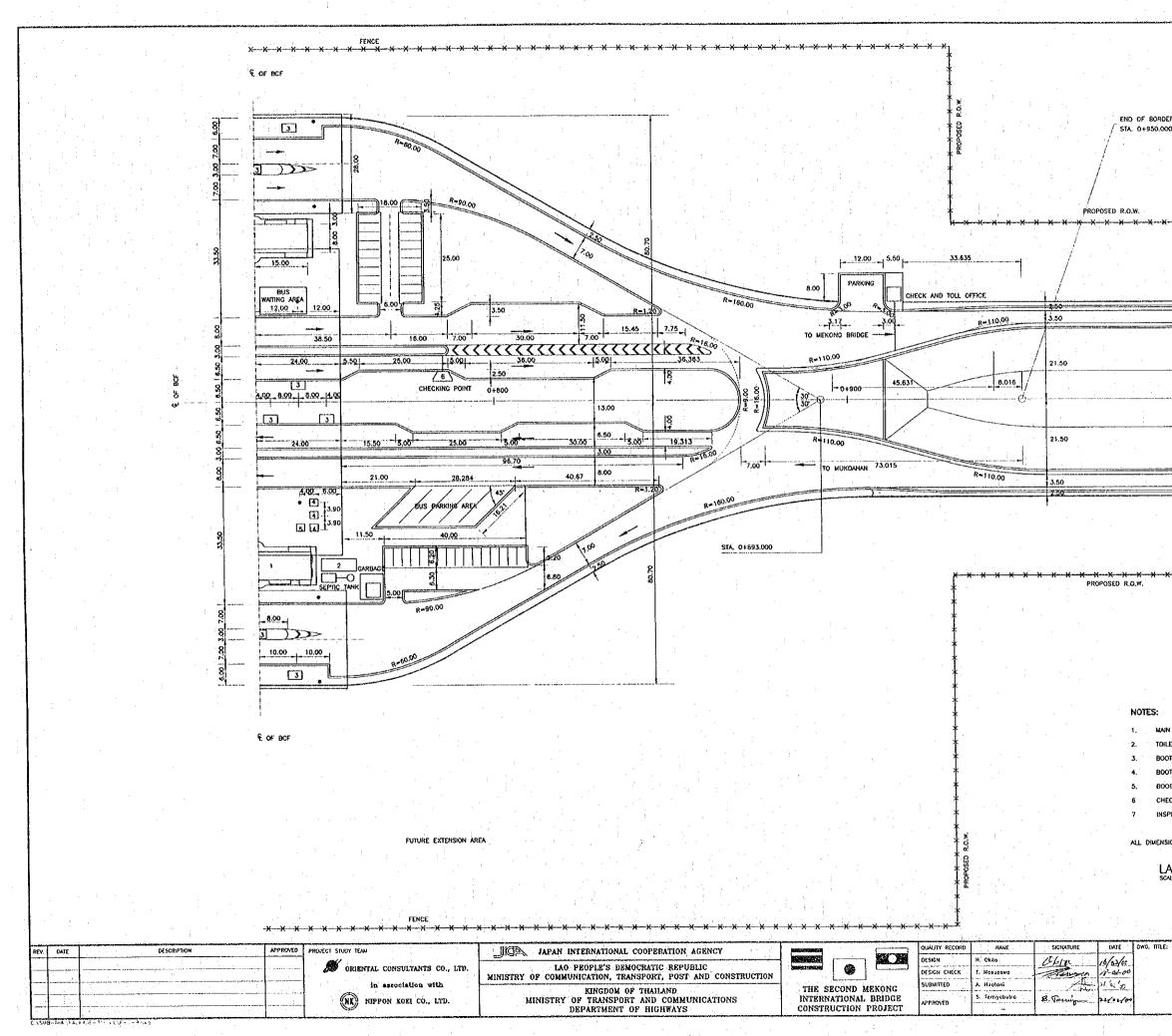
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NOTES:

MAIN BUILDING (IMMIGRATION ,CUSTOM ETC.)

TOILET

BOOTH (IMMIGRATION & CUSTOR)

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BOOTH (QUARANTINE)

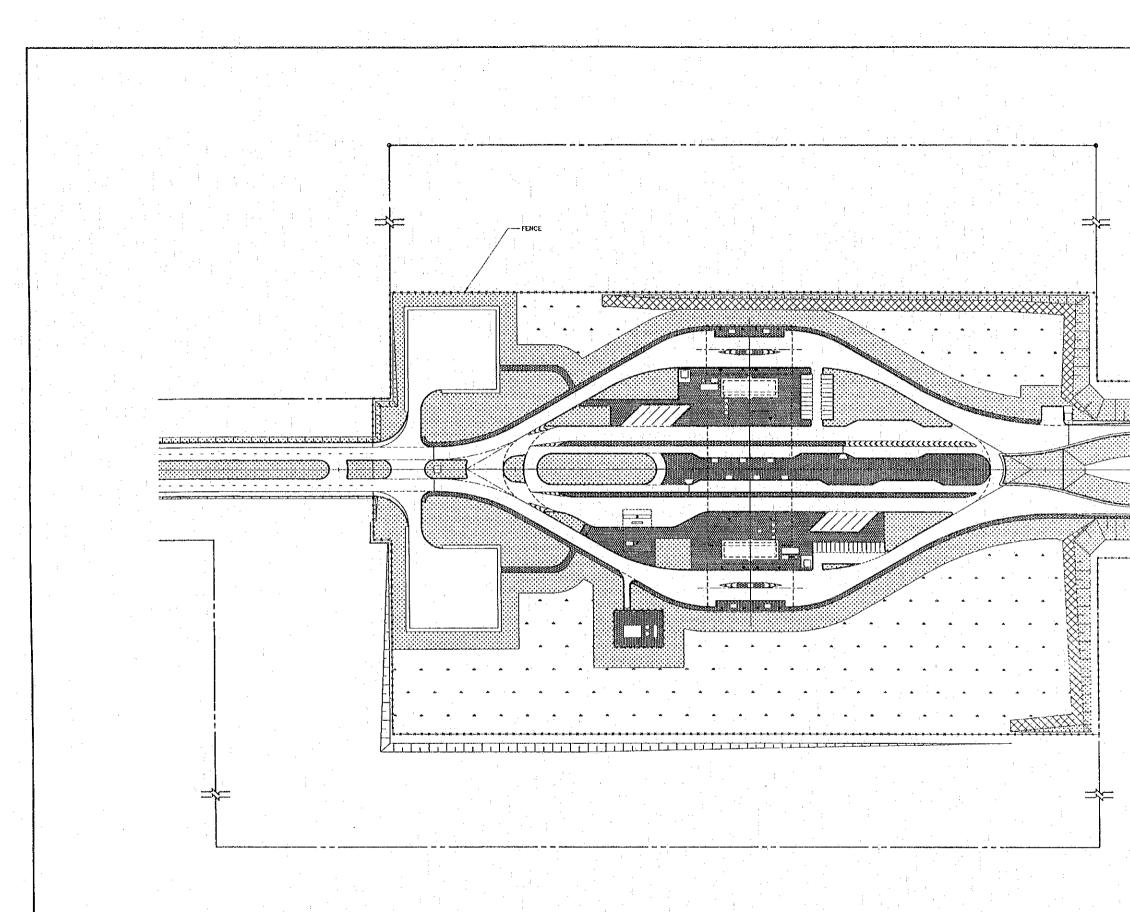
CHECK POINT BOOTH

INSPECTION AREA

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDICATED

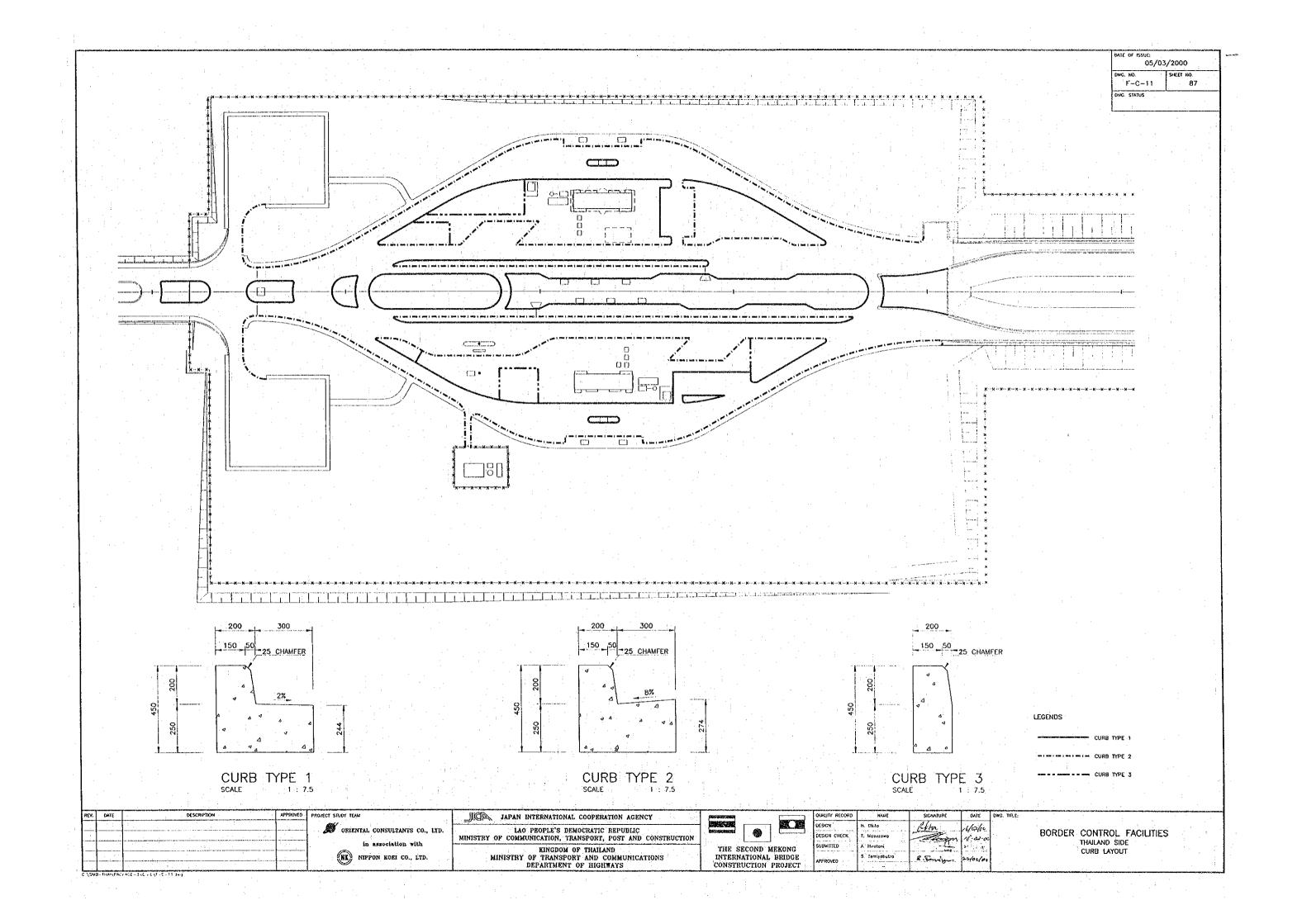
LAYOUT PLAN

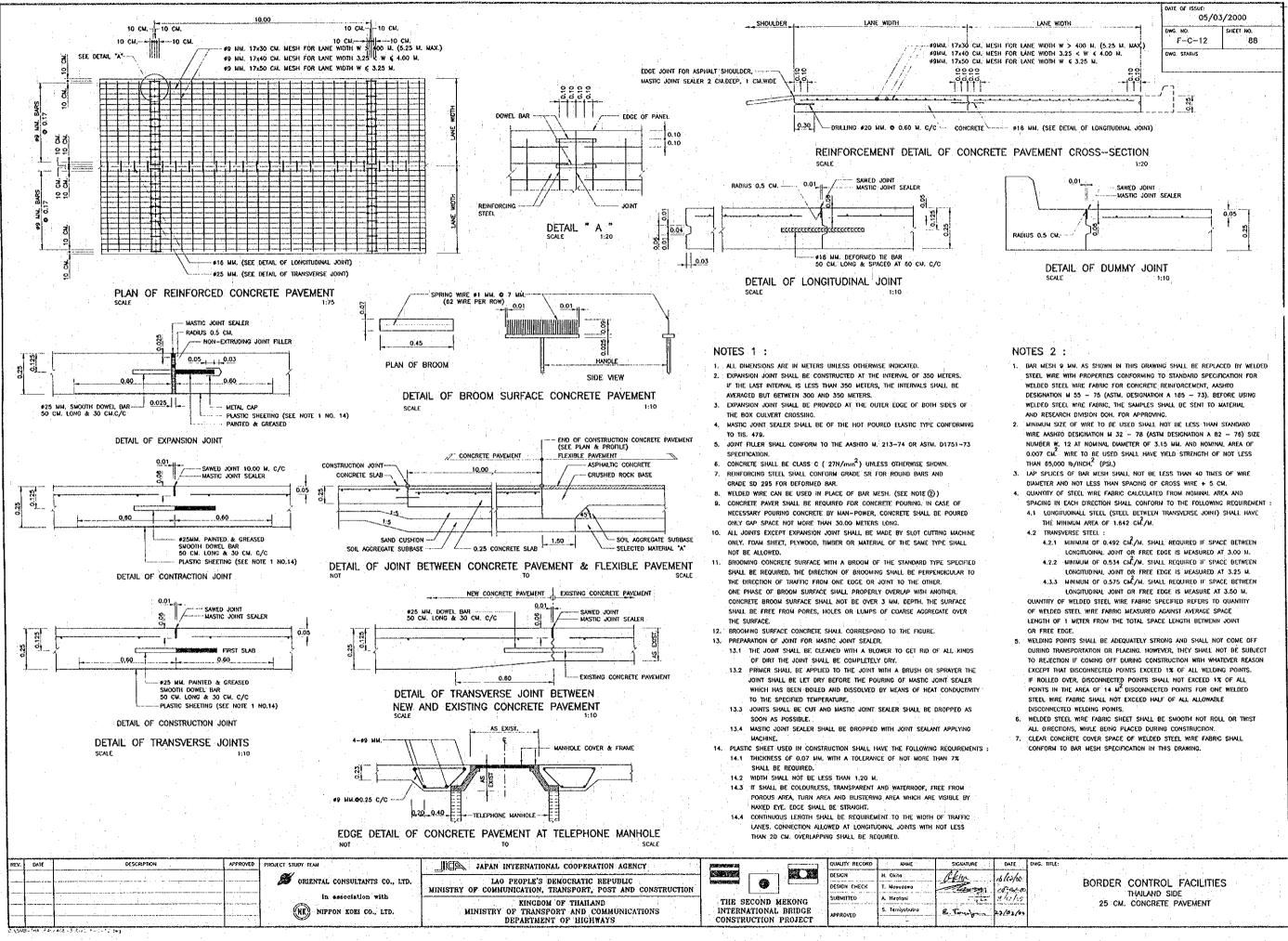
BORDER CONTROL FACILITIES THAILAND SIDE GEOMETORIC LAYOUT-2



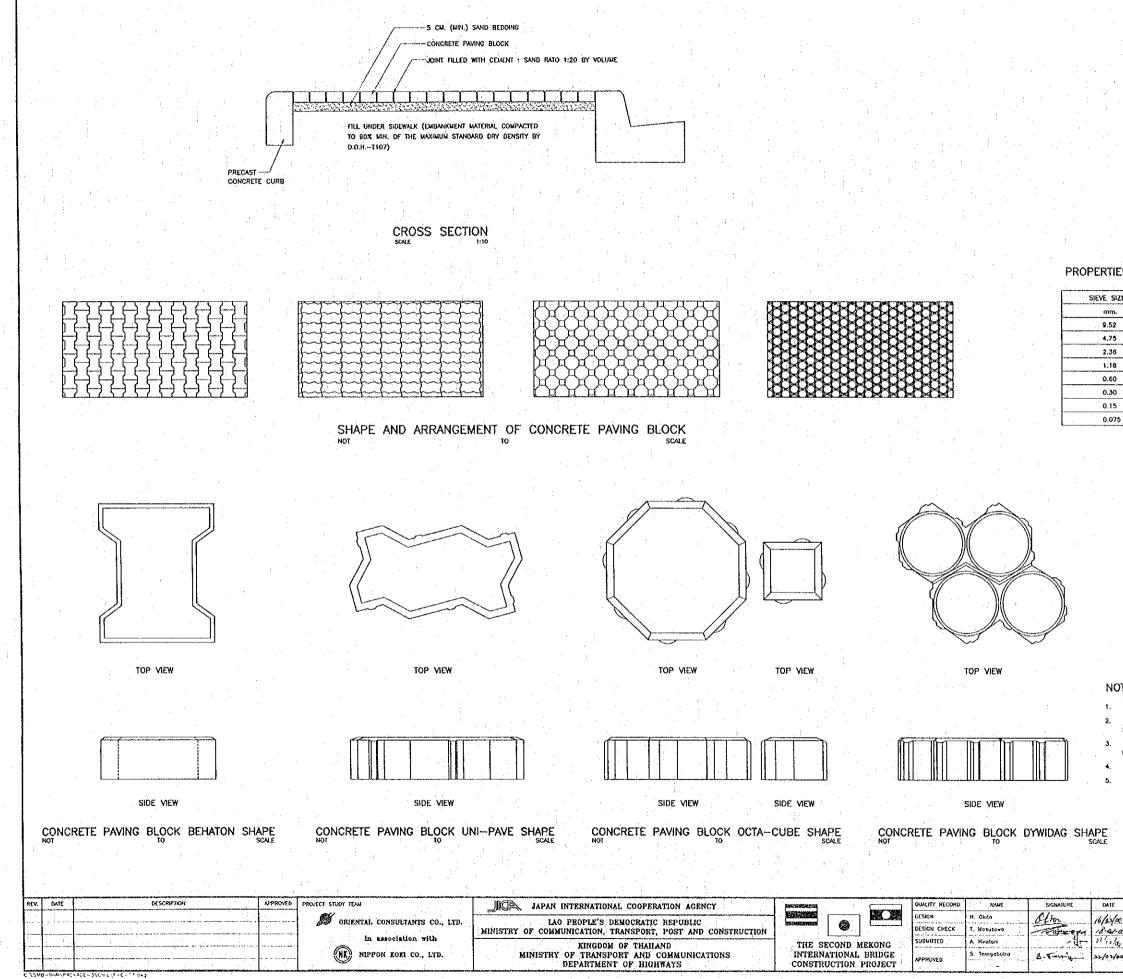
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THE SECOND MEKONG INTERNATIONAL BRIDGE CONSTRUCTION PROJECT

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# PROPERTIES OF SAND BEDDING AND JOINT FILLING SAND

IZE	% PAS	SING
	SAND BEDDING	JOINTING SAND
2	100	- :
j · · · ·	95 - 100	-
5	80 ~ 100	100
3	50 - 85	90 - 100
<b>)</b> '	25 - 60	60 - 90
	10 - 30	30 - 60
5.	5 - 15	15 ~ 30
15	0 ~ 5	10 - 20

## NOTES :

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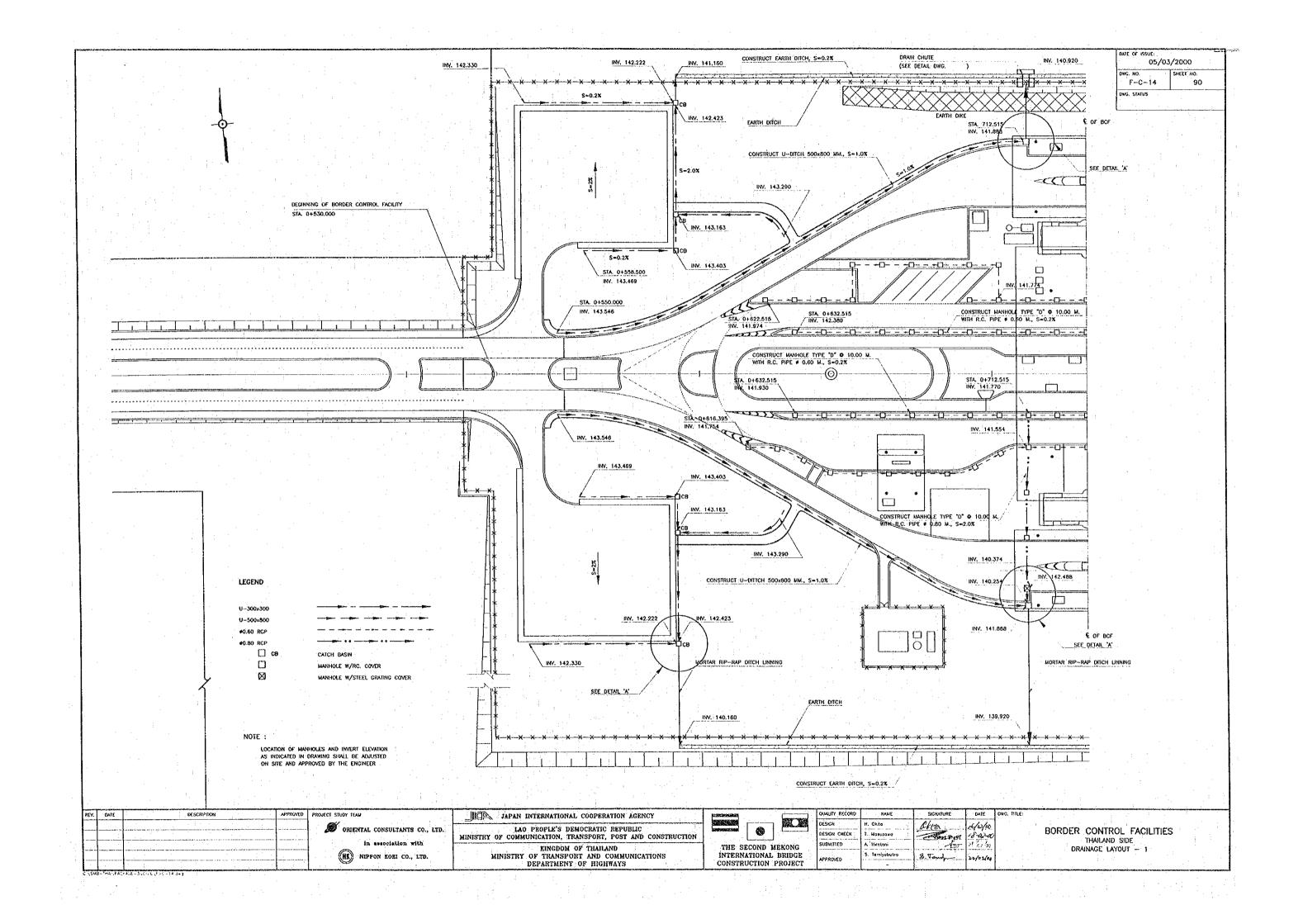
1. ALL DIMENSIONS ARE IN METERS OR OTHERWISE INDICATED. SHAPE AND ARRANGEMENT SHALL BE SPECIFIED IN THE DRAWINGS OR DIRECTED BY THE ENGINEERS.

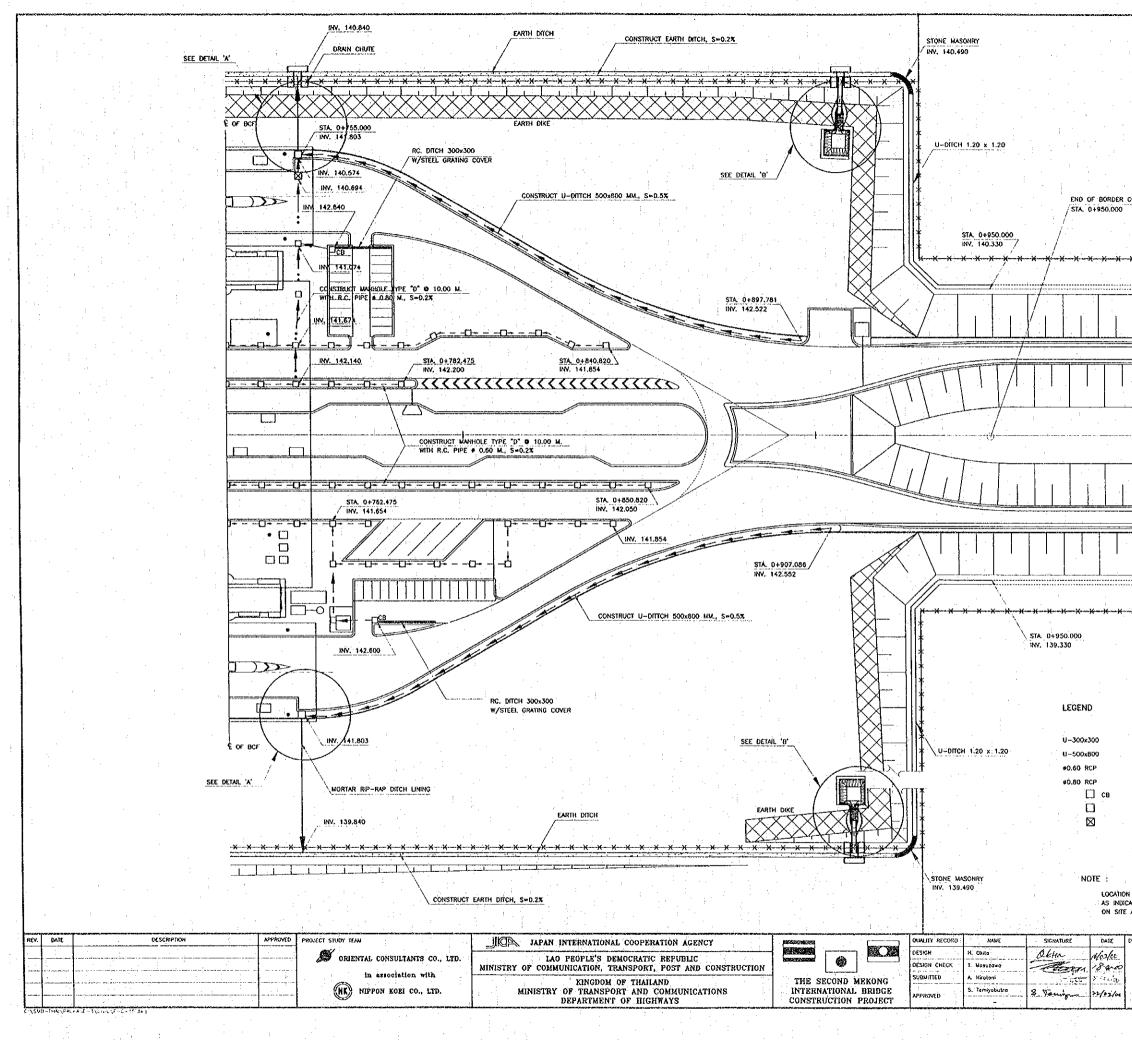
COST OF CONCRETE PAYING BLOCK SHALL INCLUDE SAND BEDDING, JOINT FILLING, AND PRECAST CONCRETE CURB.

CONCRETE PAVING BLOCK SHALL CONFORM TO TIS. 627

JOINT SHALL BE FILLED WITH CEMENT : SAND RATO 1:20 BY VOLUME.

BORDER CONTROL FACILITIES THAILAND SIDE CONCRETE PAYEMENT BLOCK

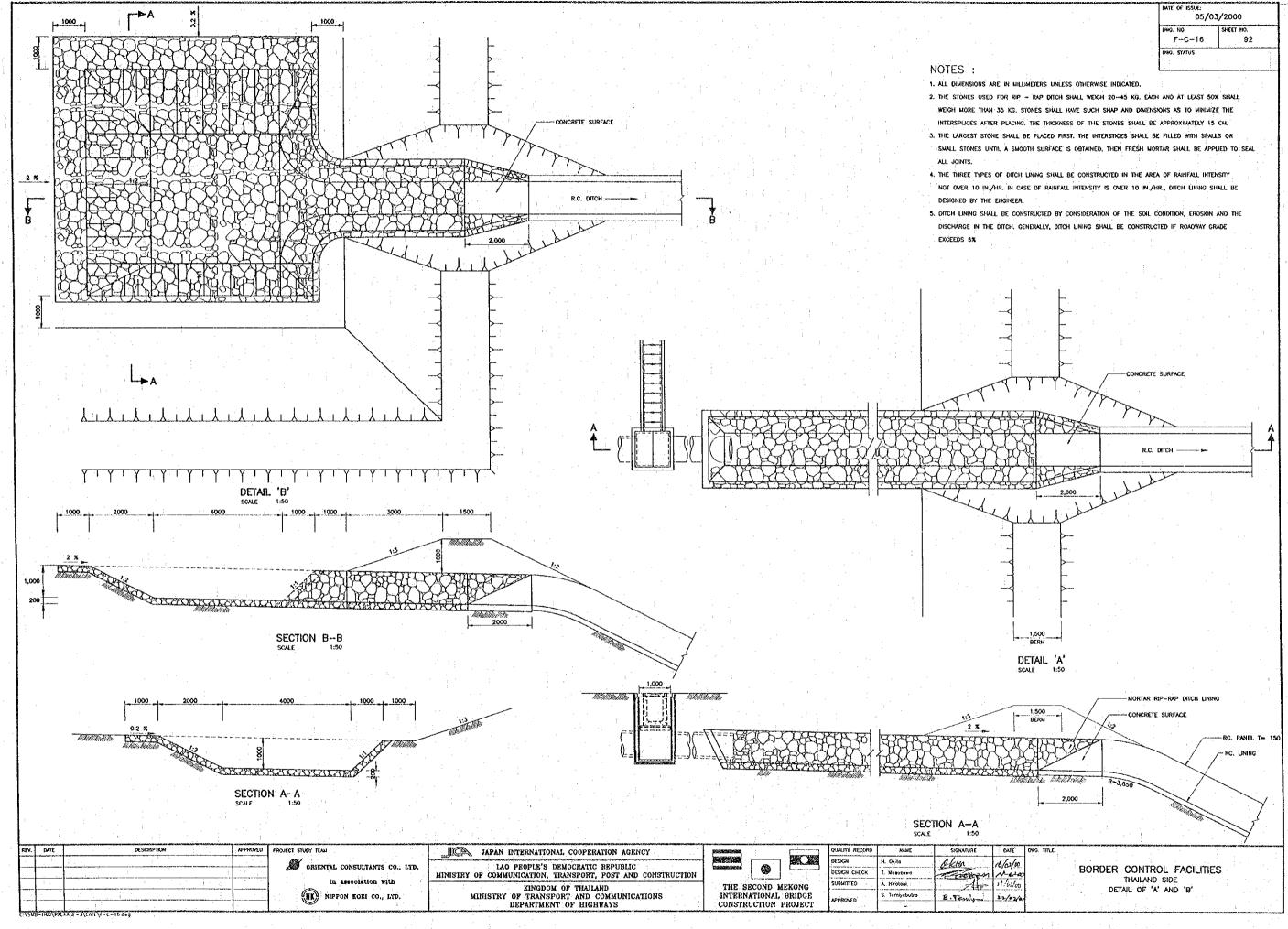




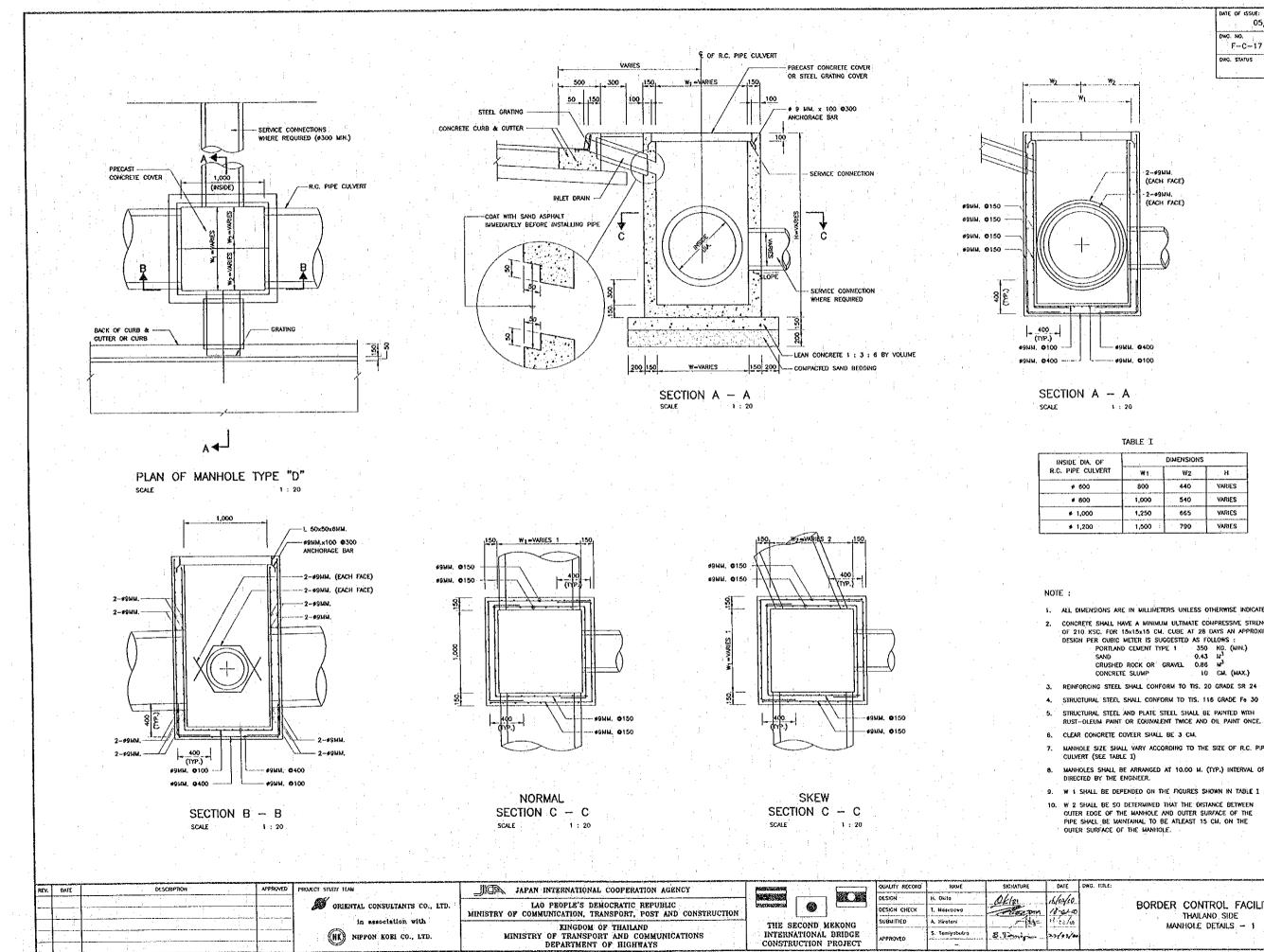
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OF		DIMENSIONS	
VERT	W1.	W2	. អ

¢ 600	800	440	VARIES
# 800	1,000	540	VARIES
1,000	1,250	665	VARIES
1,200	1,500	790	VARIES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.

2. CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 210 KSC. FOR 15x15x15 CM. CUBE AT 28 DAYS AN APPROXIMATE MIX DESIGN PER CUBIC METER IS SUGGESTED AS FOLLOWS :

 
 PORTLAND
 CEMENT
 TYPE
 1
 350
 KG.
 (MINL)

 SAND
 0.43
  $\mu^3$   $\mu^3$  crushed rock or gravel
 0.86
  $M^3$  CRUSHED ROCK OR GRAVEL 0.86 10 CH. (MAX.)

3. REINFORCING STEEL SHALL CONFORM TO TIS, 20 GRADE SR 24

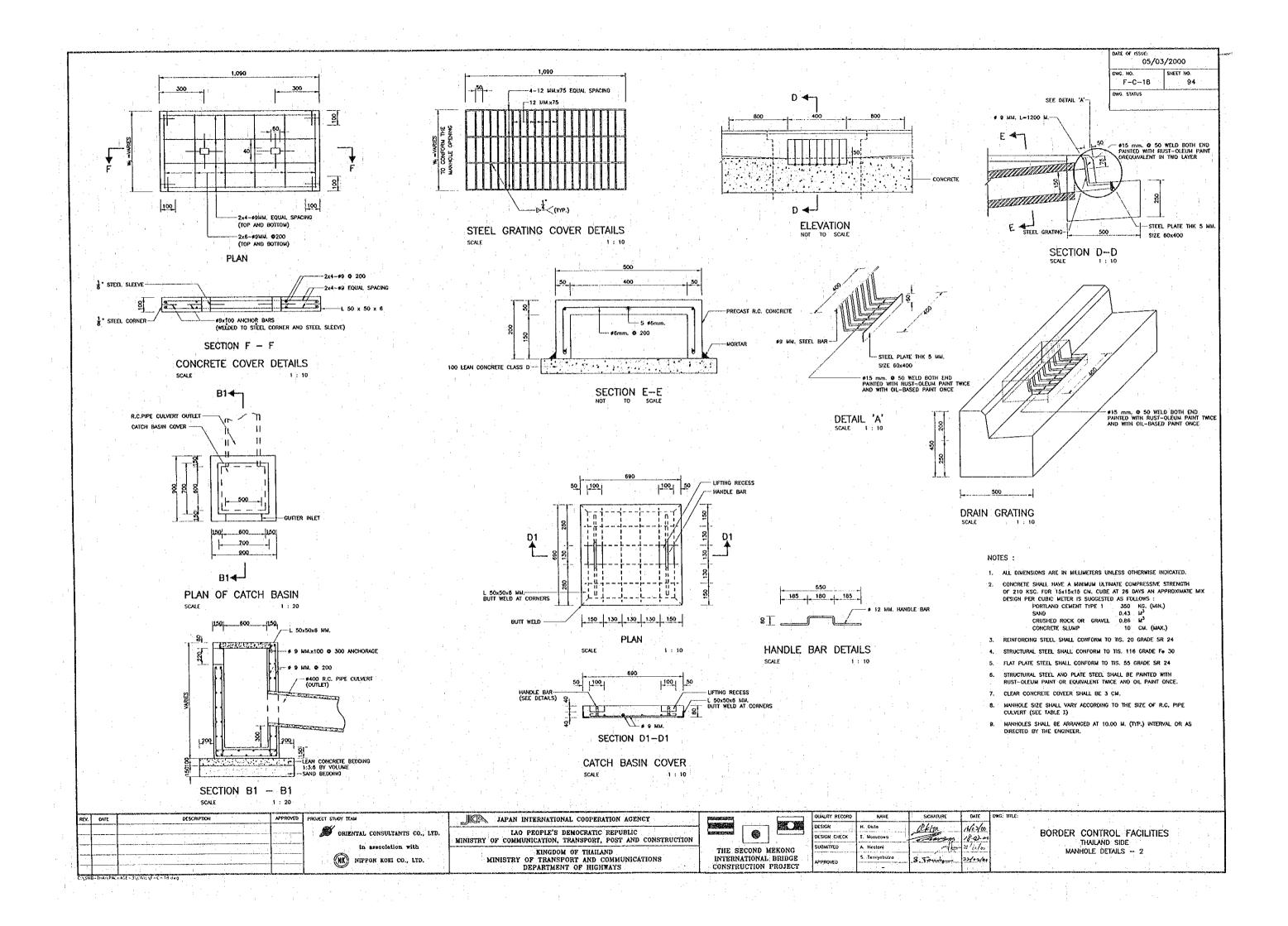
STRUCTURAL STEEL AND PLATE STEEL SHALL BE PAINTED WITH RUST-OLEUM PAINT OR EQUIVALENT TWICE AND OIL PAINT ONCE.

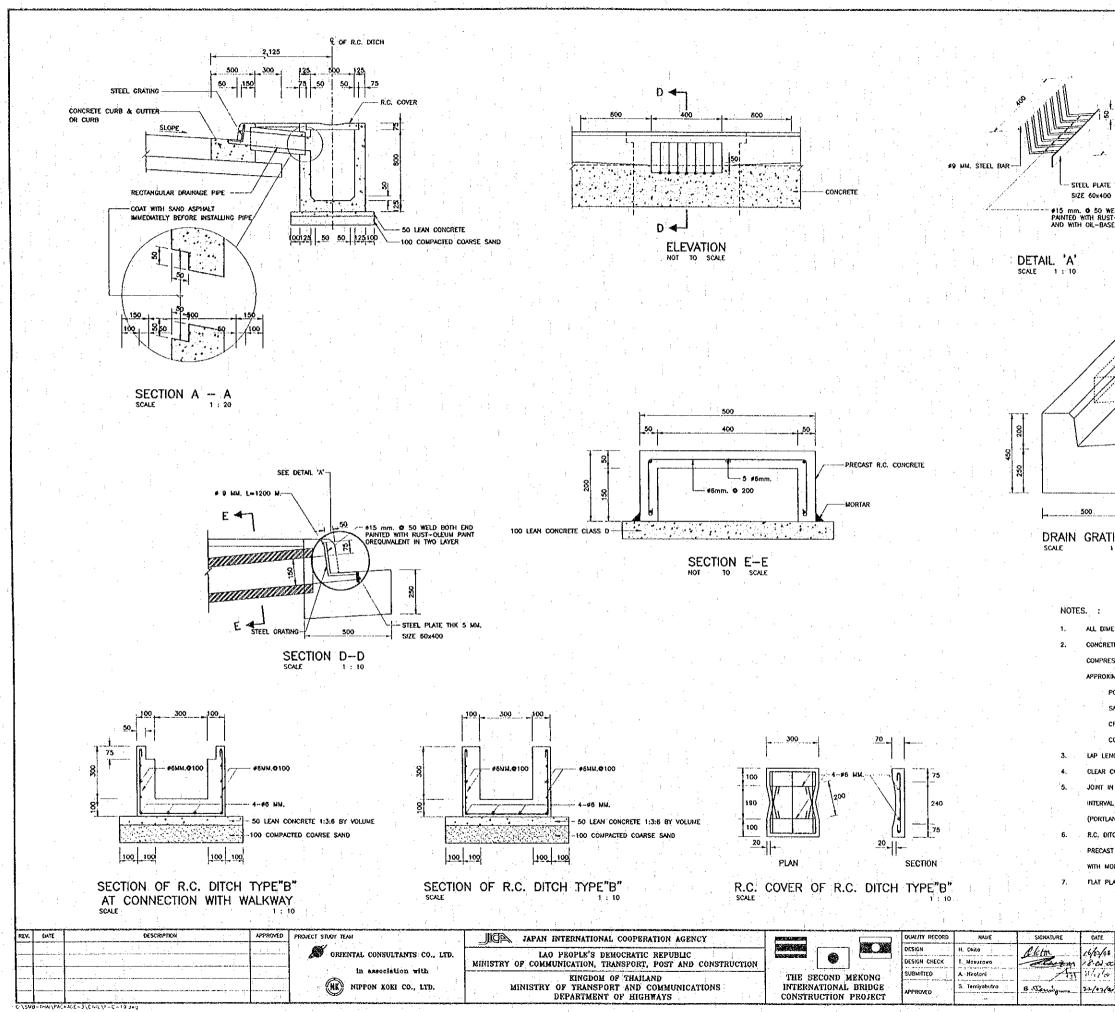
MANHOLE SIZE SHALL VARY ACCORDING TO THE SIZE OF R.C. PIPE CULVERT (SEE TABLE 1)

manholes shall be arranged at 10.00 m. (typ.) interval or as directed by the engineer.

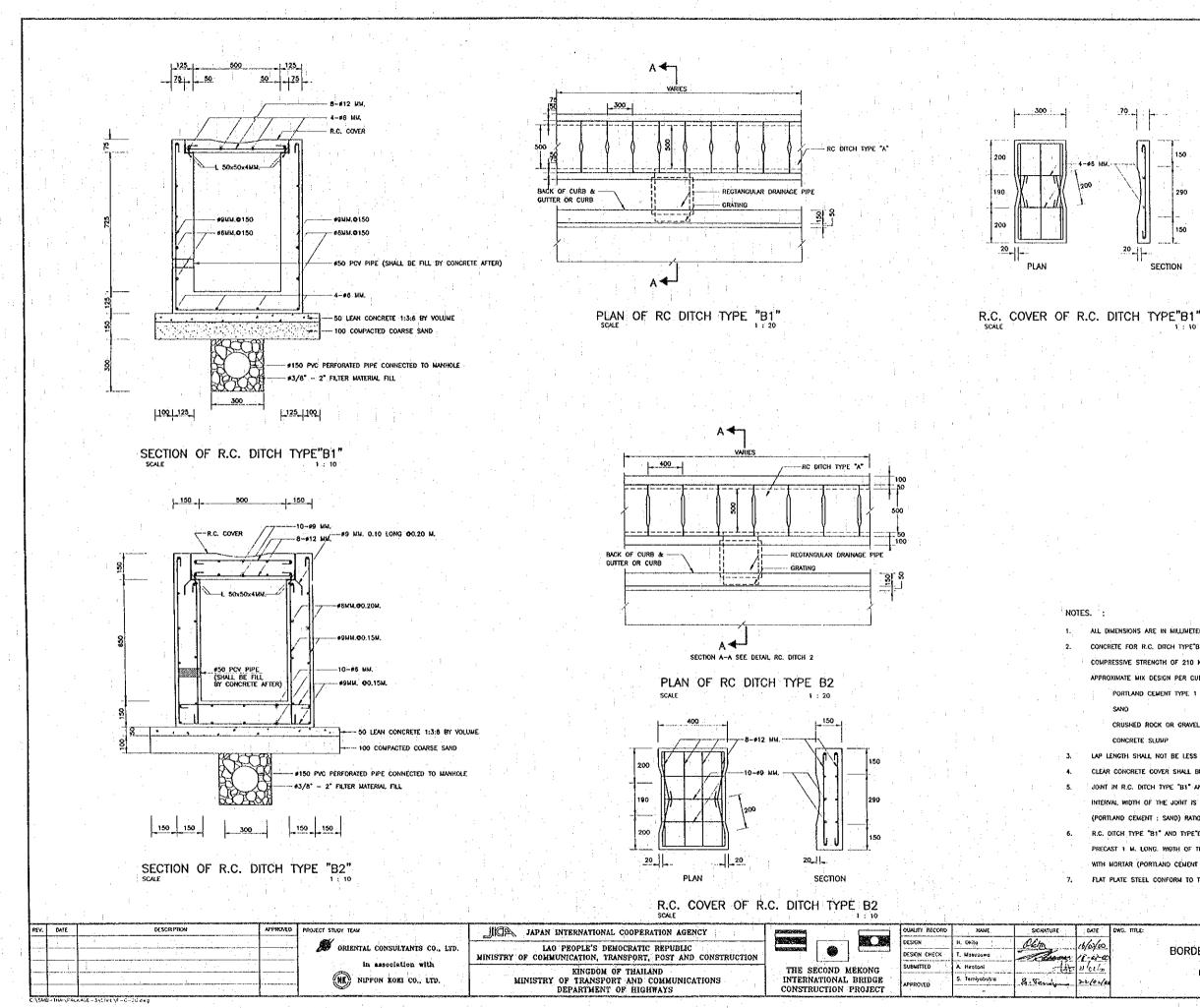
10. W 2 SHALL BE SO DETERMINED THAT THE DISTANCE DETWEEN OUTER EDGE OF THE MANHOLE AND OUTER SURFACE OF THE PIPE SHALL BE MAINTAINAL TO BE ATLEAST 15 CM. ON THE OUTER SURFACE OF THE MANHOLE.

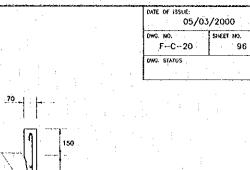
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BORDER	CONTROL	FACILITIES
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MAN	HOLE DETAIL	S - 1





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) WELD BOTH END RUST-OLEUM PAINT TWICE BASED PAINT ONCE			
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	1. A.		
DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWI			1
CRETE FOR R.C. DITCH TYPE"81" AND TYPE"82" SP PRESSIVE STRENGTH OF 210 KSC. FOR 15x15x15			
ROXIMATE MIX DESIGN PER CUBIC METER IS SUGGE		511.J. 1911	
PORTLAND CEMENT TYPE 1 350 KG. (MIN			
SAND 0.43 M. <sup>3</sup>		· .	
CRUSHED ROCK OR GRAVEL 0.86 M. <sup>3</sup>	i.		
CONCRETE SLUMP 10 CN. (MAS	· · · · · · · · · · · · · · · · · · ·		
LENGTH SHALL NOT BE LESS THAN 40 BAR DAME			
AR CONCRETE COVER SHALL BE J CH. UNLESS OT IT IN R.C. DITCH TYPE "81" AND TYPE"82" SHALL		0 W	
IT IN R.C. DITCH TYPE "BIT" AND TYPE"B2" SHALL RVAL WIDTH OF THE JOINT IS 1 CH. AND FILLED 1	1.00	V M.	
RTLAND CEMENT : SAND) RATIO 1:3 BY VOLUME.			
DITCH TYPE "B1" AND TYPE"B2" CROSS DRAIN AT	CONNECTION ROAD	SHALL BE	
CAST I M. LONG. WIDTH OF THE JOINT IS 1 CM.	AND FILLED		
I MORTAR (PORTLAND CEMENT : SAND) RATIO 1:3		· · · ·	
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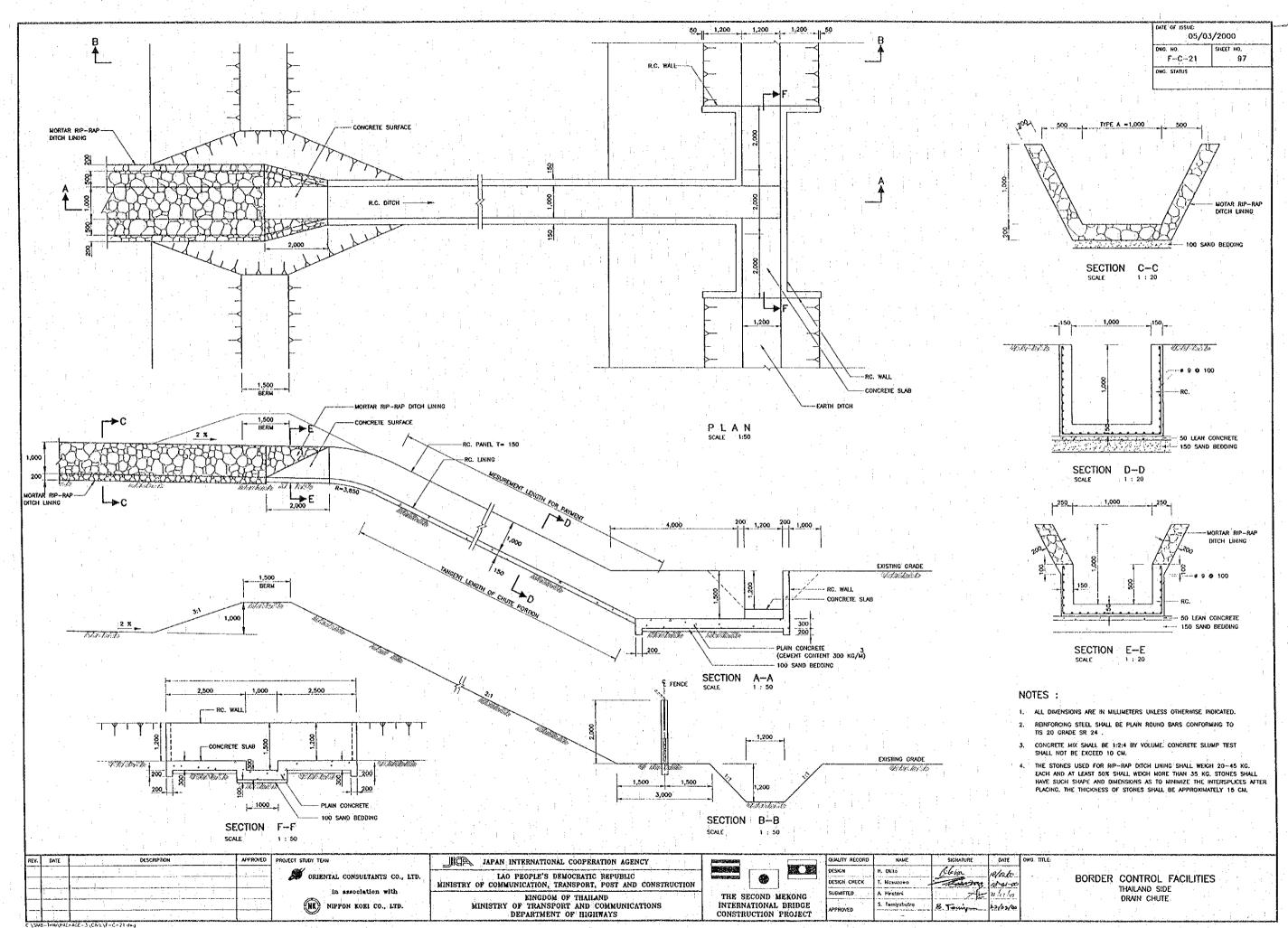
SECTION

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED. CONCRETE FOR R.C. DITCH TYPE"B1" AND TYPE"B2" SHALL HAVE A MINIMUM ULTIMATE TRENGTH OF 210 KSC. FOR 15x15x15 CM. CUBE AT 28 DAYS. AN AIX DESIGN PER CUBIC METER IS SUGGESTED AS FOLLOWS

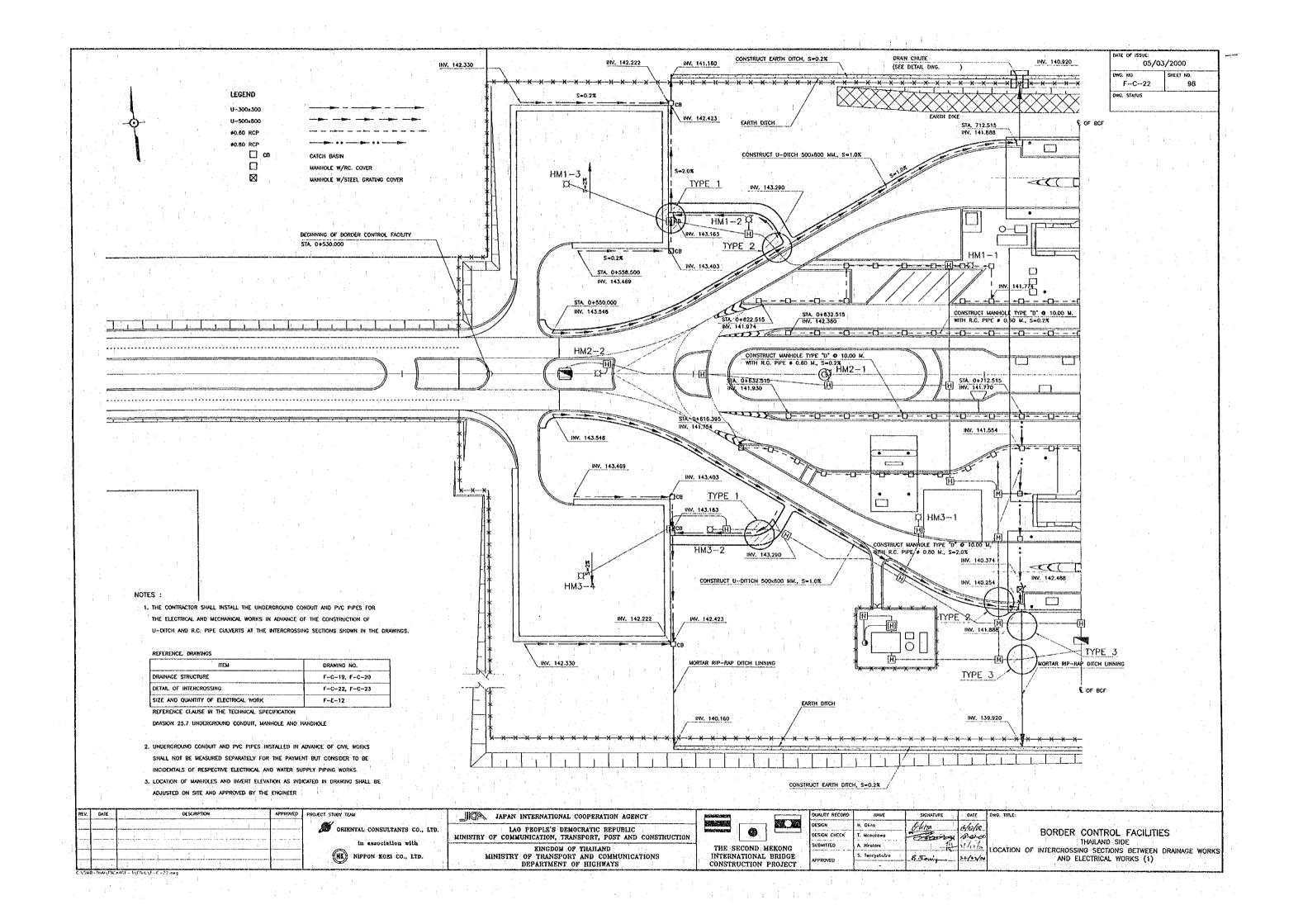
	PORILAND CEMENT TYPE 1	350	KG. (MIN.)
	SAND	0.43	м. <sup>3</sup>
;	CRUSHED ROCK OR GRAVEL	<b>0.86</b>	м. <sup>3</sup>
	CONCRETE SLUMP	10	CH (MAX)

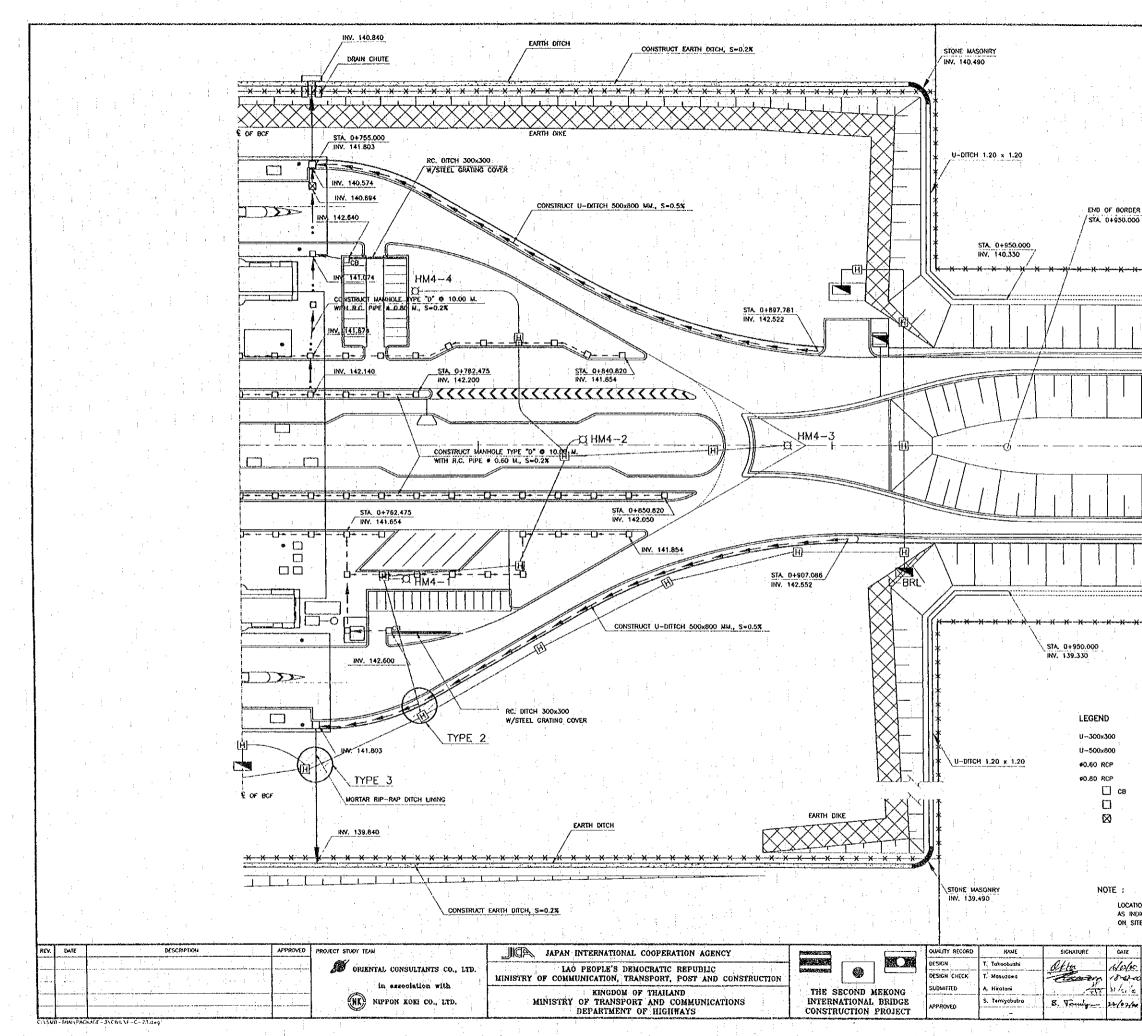
LAP LENGTH SHALL NOT BE LESS THAN 40 BAR DIAMETERS CLEAR CONCRETE COVER SHALL BE 3 CM. UNLESS OTHERWISE INDICATED WD TYPE B2" SHALL BE SPACED AT 10.00 # THE JOINT IS 1 CM. AND FILLED WITH MORTA (PORTLAND CEMENT : SAND) RATIO 1:3 BY VOLUME R.C. DITCH TYPE "B1" AND TYPE "B2" CROSS DRAIN AT CONNECTION ROAD SHALL BE A. LONG. WIDTH OF THE JOINT IS 1 CM. AND FILLED WITH MORTAR (PORTLAND CEMENT : SAND) RATIO 1:3 BY VOLUME. FLAT PLATE STEEL CONFORM TO TIS, 55 GRADE SR 24.

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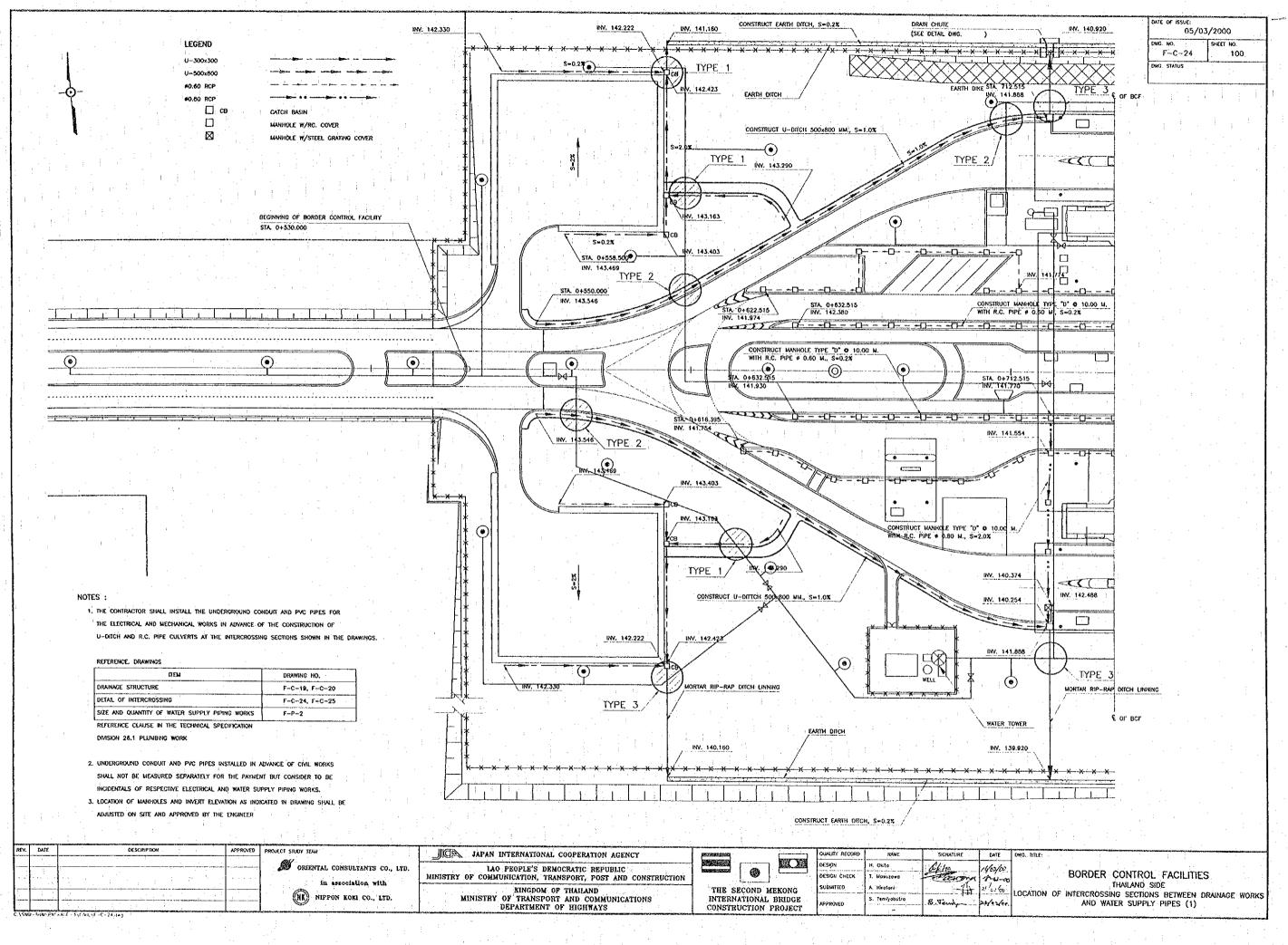
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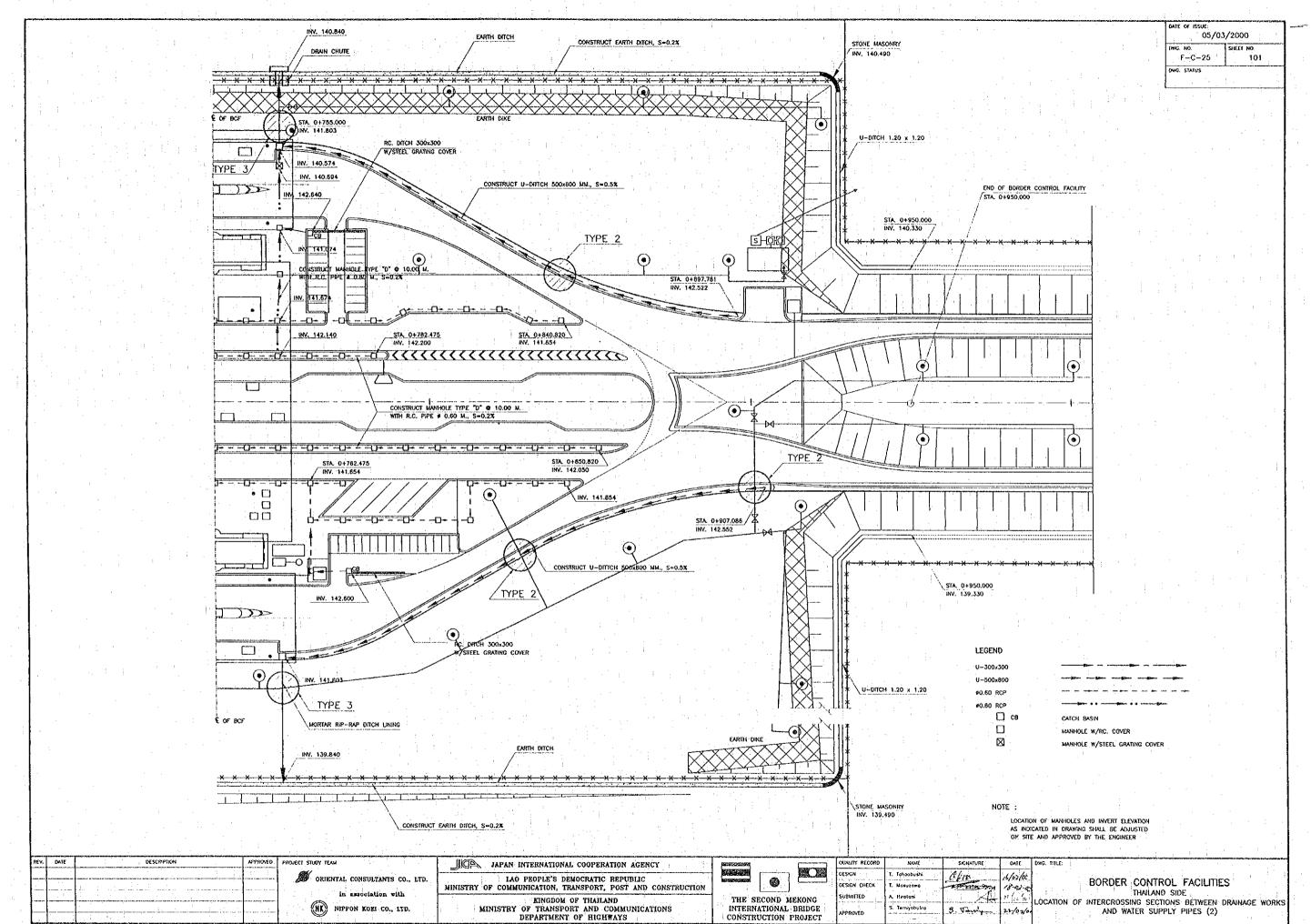




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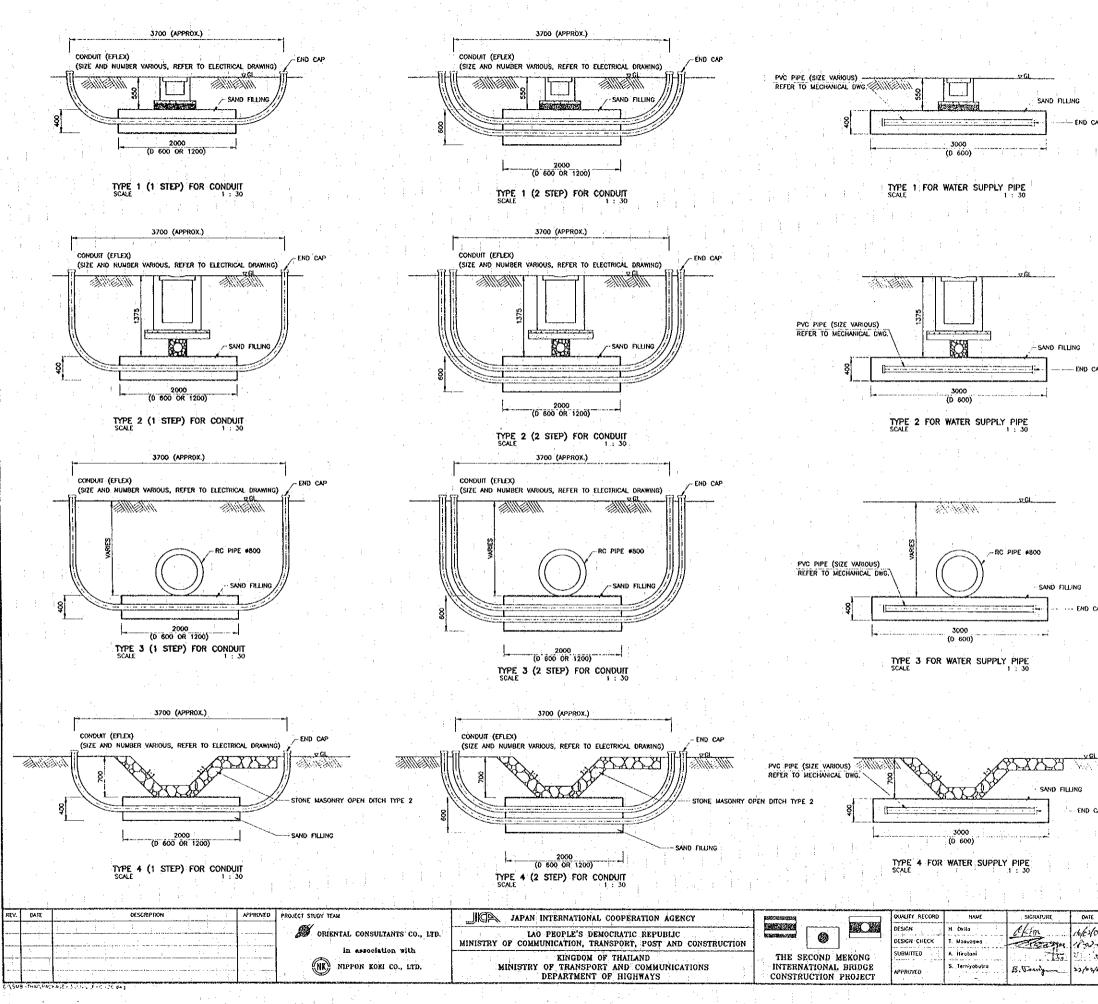
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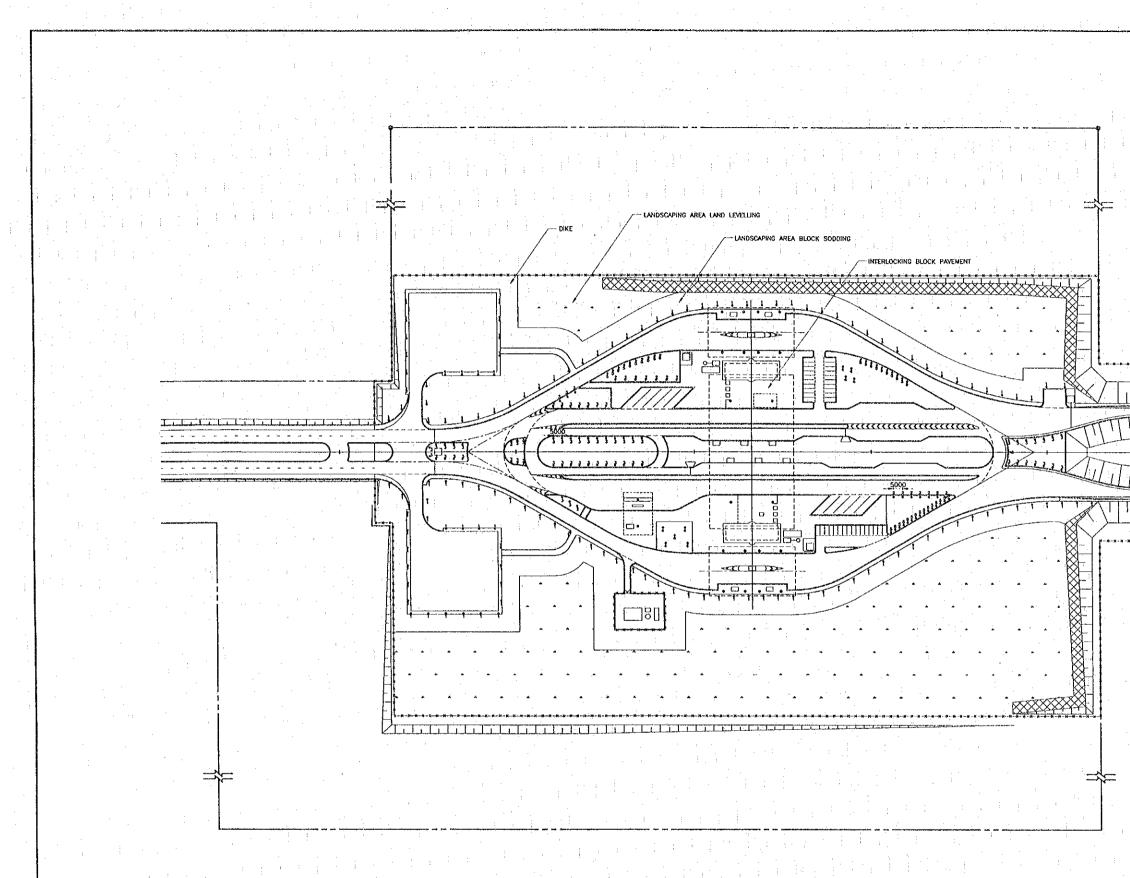
CONSTRUCTION PROJECT

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AND WATER SUPPLY PIPES (2)

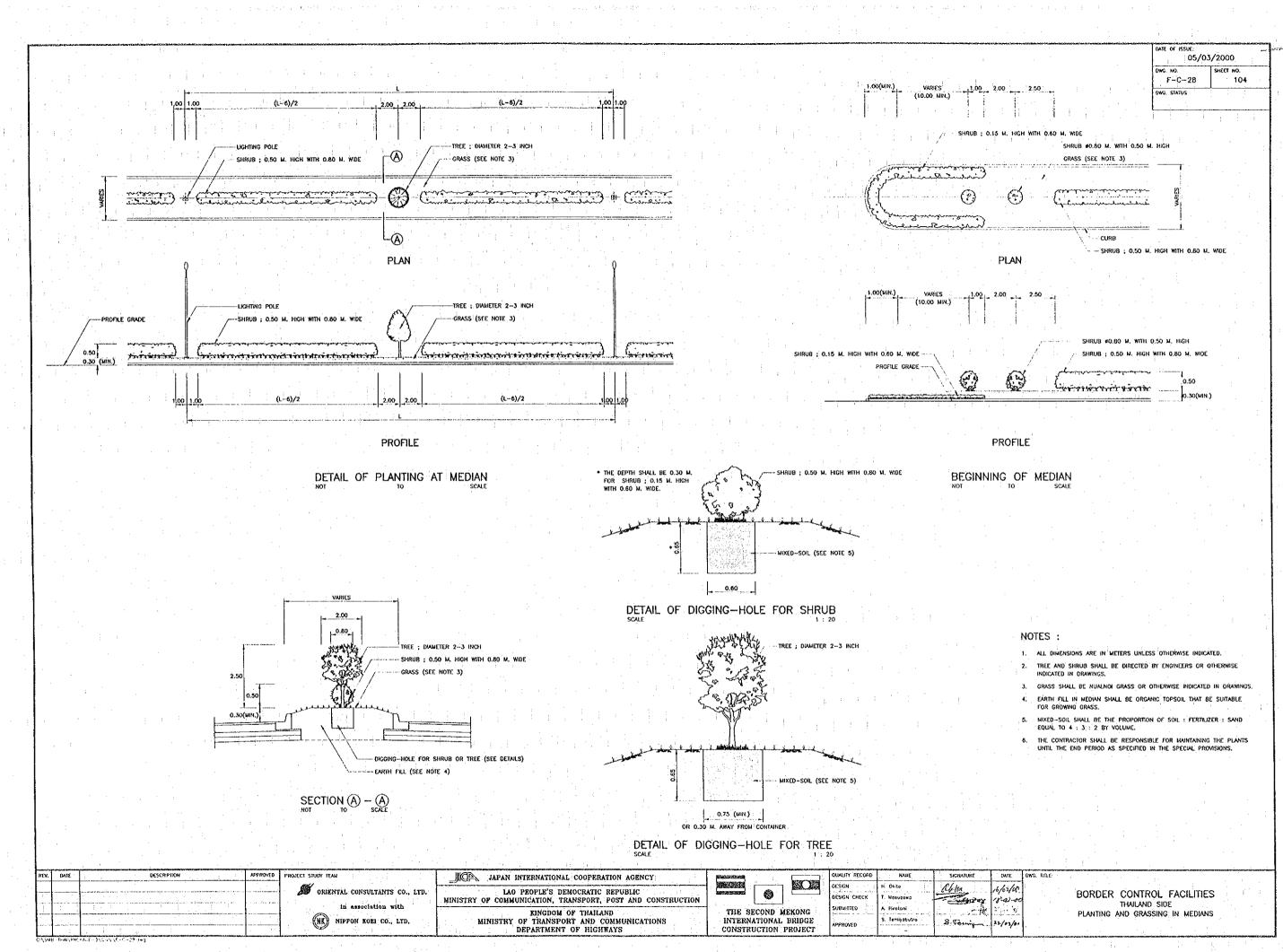


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> HARACTERISTIC TALL PLANT T4 T4 CAESALPINIACEAE SCRAMBLED EGGS KALAPRAPRUK DAMETER 2-3 INCH. SPACING 5 m. HARACTERISTI MEDRIM PLANT 15 T5 \_ ZOYSIA MATRELLA L.MERR SONGBADARN DIAMETER 2-3 INCH. SPACING 3 m. Shallon and HARACTERISTIC MEDIUM PLANT T8 13 SHRUÐ GENUS LXORA LXORA RUBRA DIAMETER 0.5 INCH.

> > NOTE :

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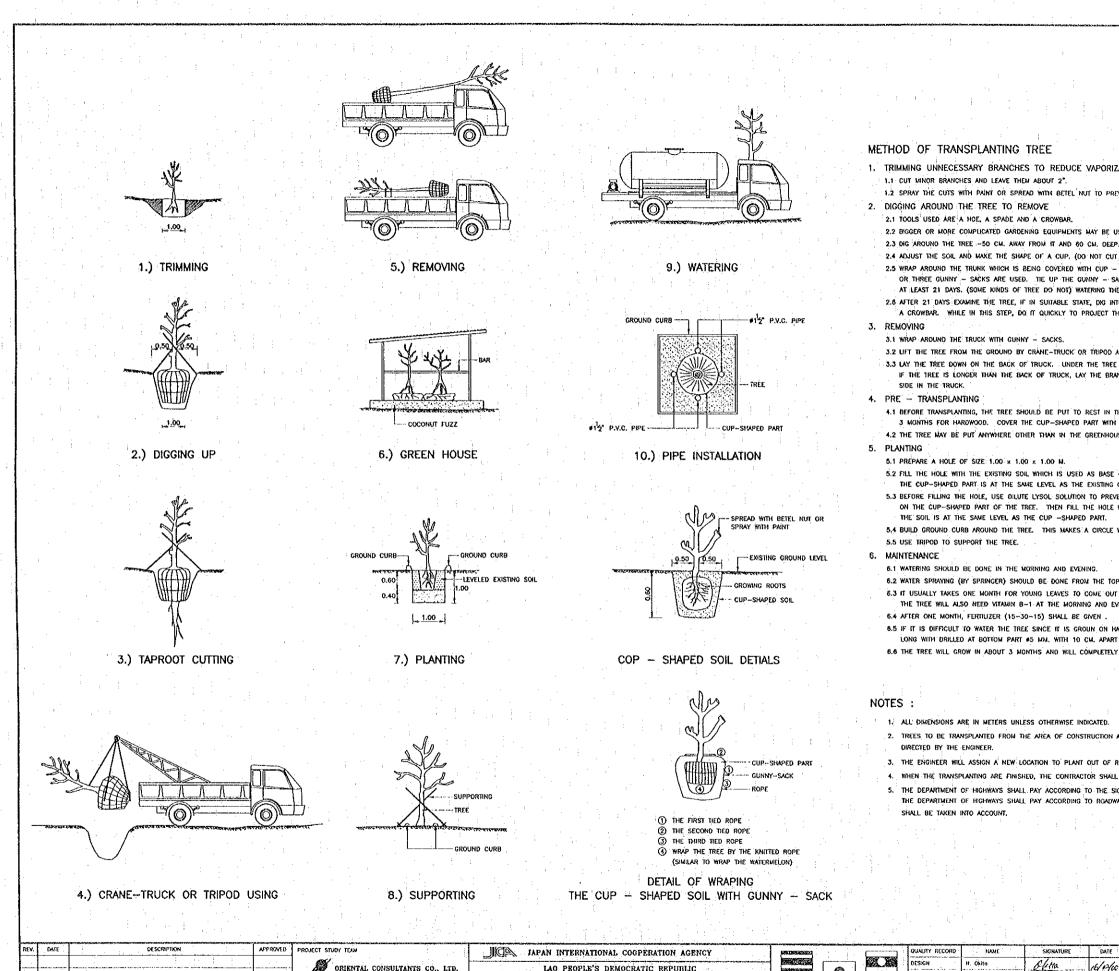
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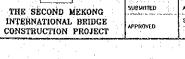
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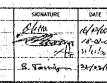
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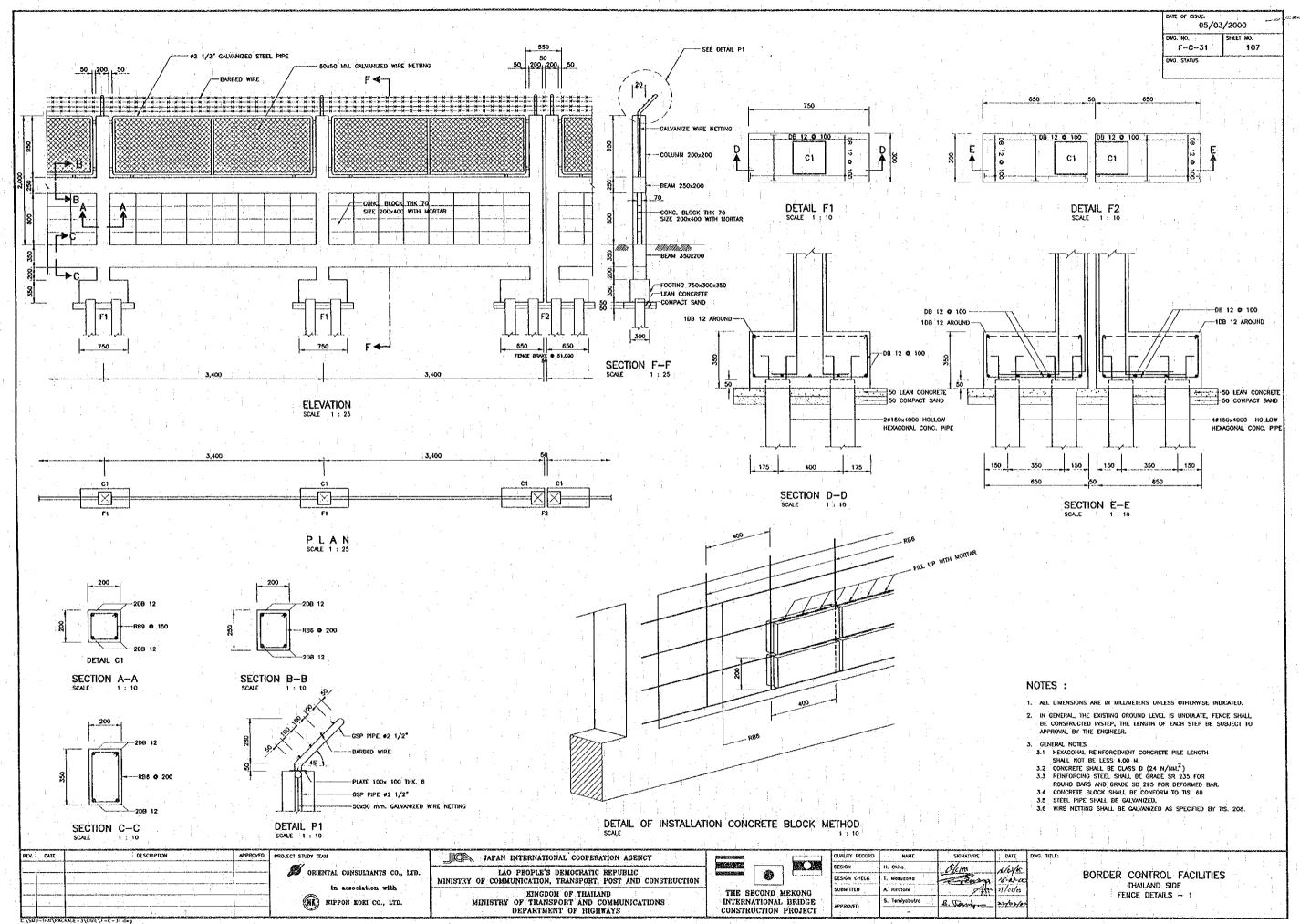
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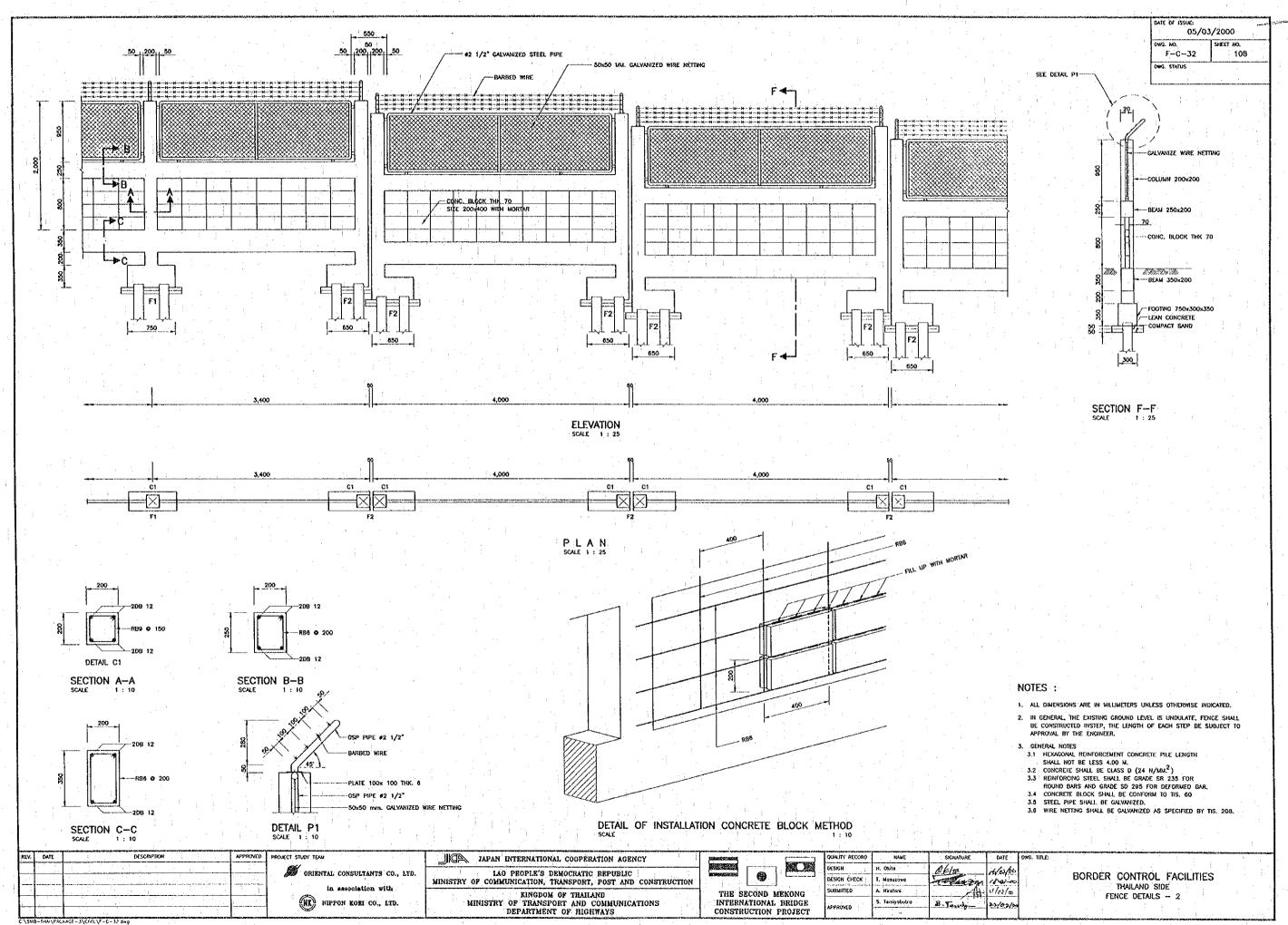
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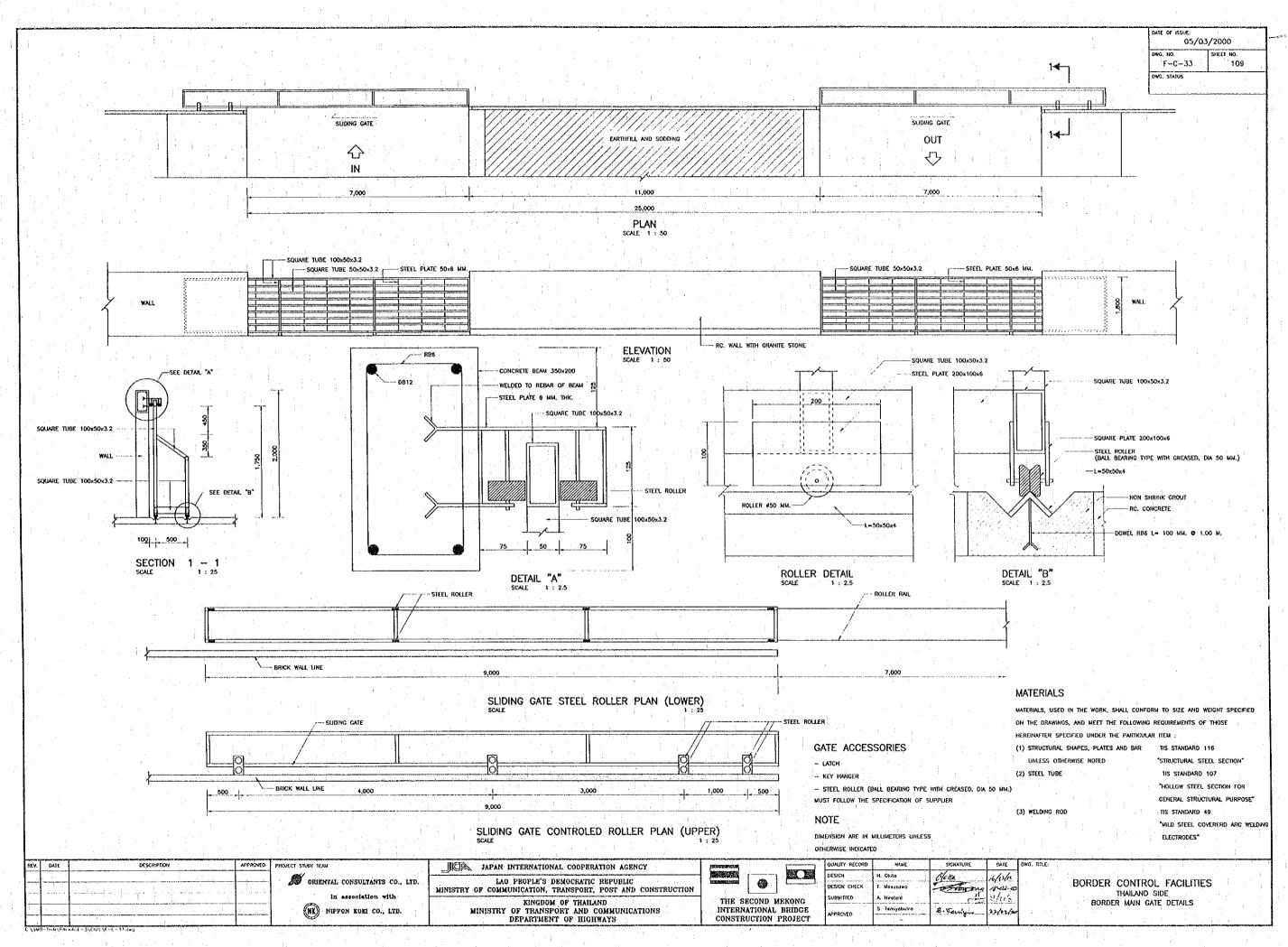


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	EWIS, NO.	SHEET NO.
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		in the second
VATION OF THE TREE		
VENT FUNGAL INFECTION.		
ISED FOR BIGGER TREES.		
. USE THE COWBAR TO CUT OFF ONCE THE	MINOR ROOT.	·
The Taproot). Shaped Soil, with the gunny - sack. Se Acks Tightly with 30-50 ropes, used trip		
e gunny - sacks, not let to dry. To the ground for another 10-20 cm. cu	T THE TAPROOT WITH	n transformation
HE REST OF THE TREE.		
	e e e e e e e e e e e e e e e e e e e	
AND HELP WITH MAN.		• .
ARE PIECES OF GUNNY - SACKS PUT TO PRINCHES-SIDE ON THE TRUCK'S ROOF AND THE		
HE GREENHOUSE ABOUT 1 MONTH FOR SOFT Y		
COCONUT FUZZ AND WAIT TILL THE LEAVES GI ISE AS LONG AS THERE IS NO STRONG SUNLIC		
40 CM. THICK. PUT THE TREE ON THE BASE	SURFACE AND	1
GROUND AT TOP OF THE HOLE.		
ENT FUNGAL INFECTION BY POURING THE DILUT WITH THE EXISTING SOIL AND COMPACTED LOOS		
WITH A RACKUS OF 1 METER. THE CURB WILL	÷	TER.
in the condition of the condition of the		
	· .	
P TO THE BOTTOM OF THE TREE (VERTICALLY).		
DEPENDING UPON THE KINDS OF TREES, IN T VENING TWICE A WEEX.	he mean time,	
	1	
ARD SOIL SUCH AS LATERITE SOIL, THE P.V.C. I SHALL BE BURIED, WATER WILL BE SENT THRE I GROW IN ONE YEAR.		
		an an an Ar An An An An
	· · · ·	
ARE TREES THAT ARE IMPORTANT TO BE RESER	MED AS	
ROADBED.	1	1 1 1
TAKE CARE OF THE TREES UNTIL THEY ARE E	-	
IGNS OF THE GROWTH OF THE TREES. IF THE T AY EXCAVATION (EARTH). THE NUMBERS OF THE		
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	ting and	
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METHOD OF TRANS	FLAMING TREE	



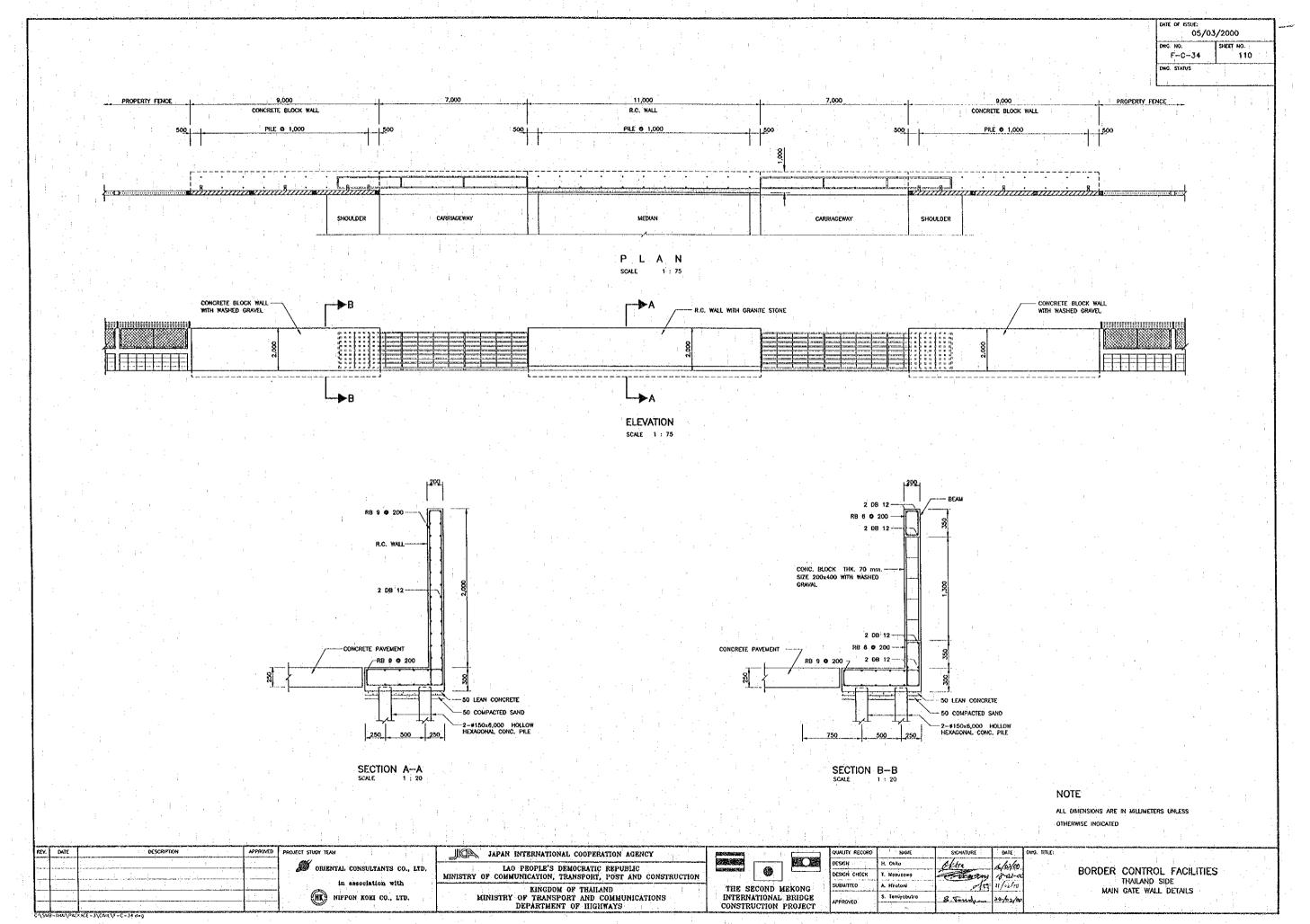
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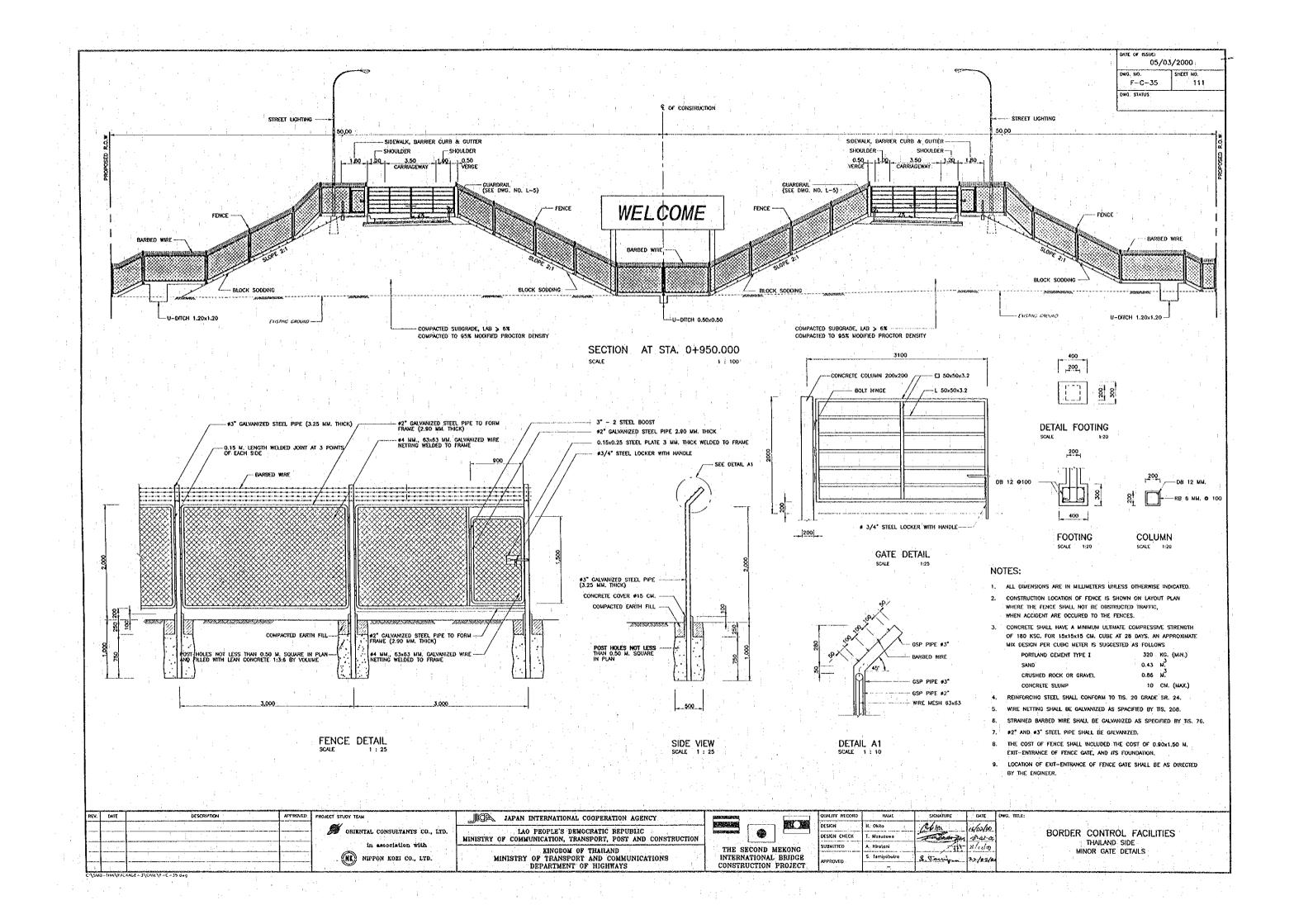
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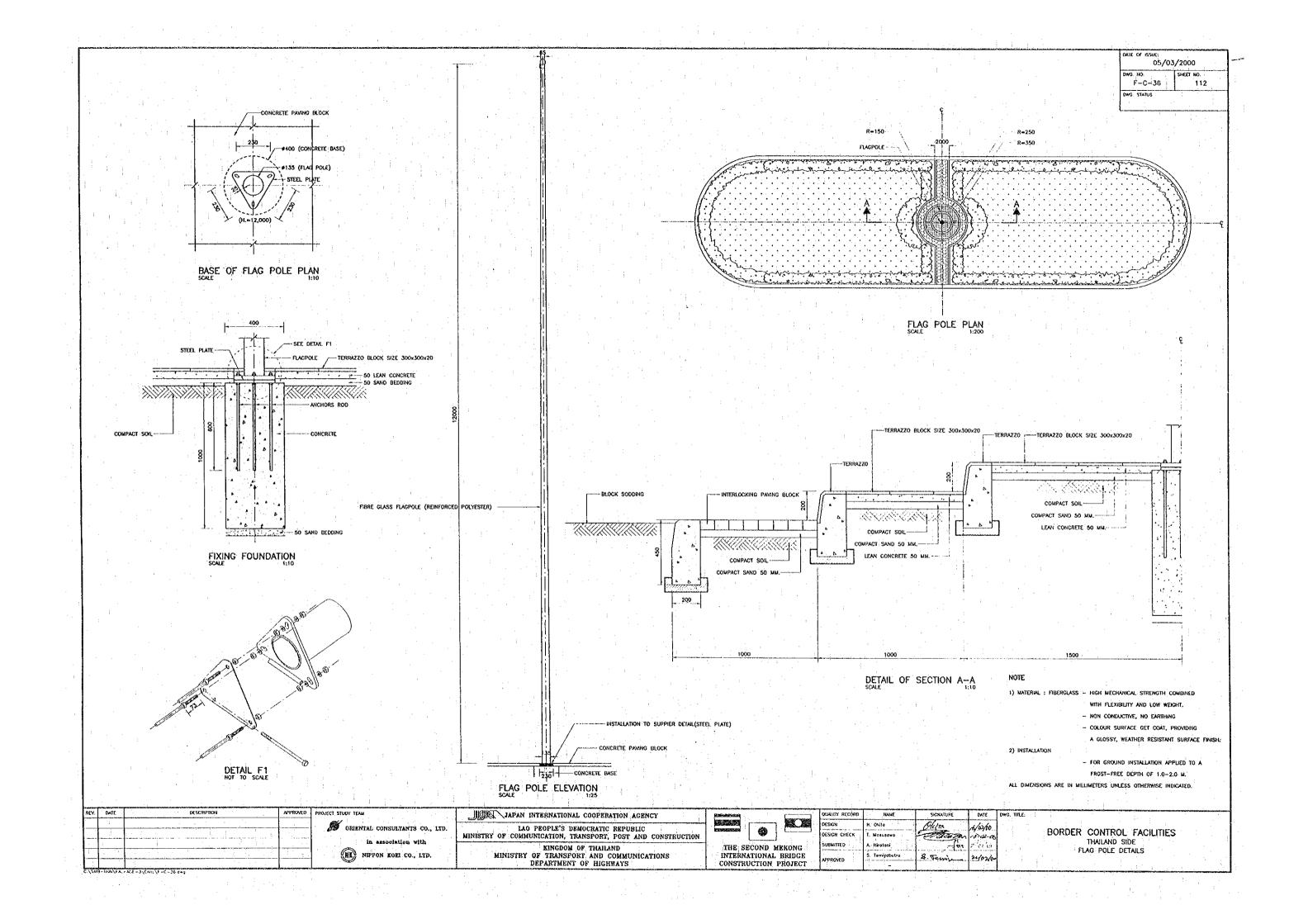


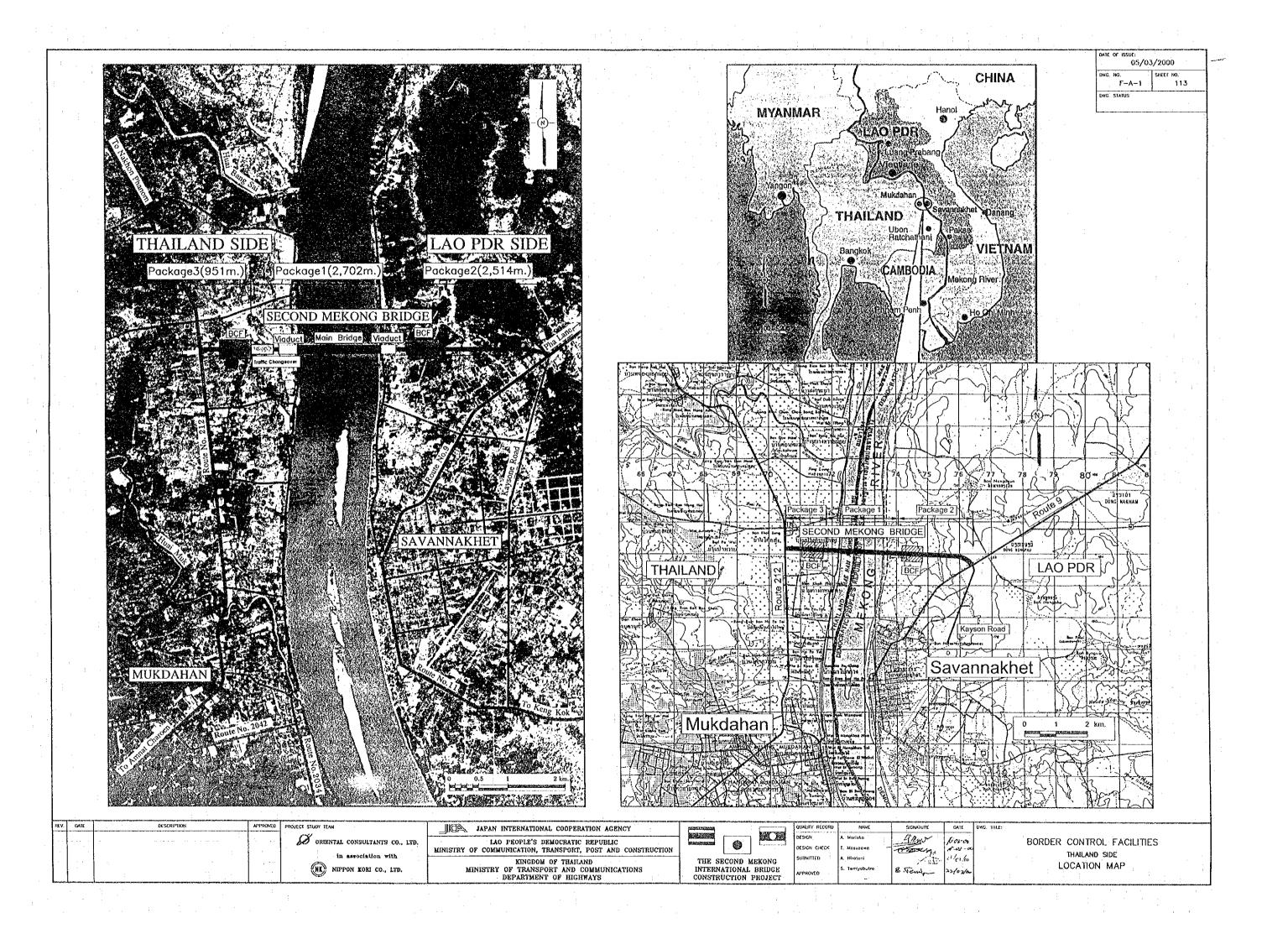
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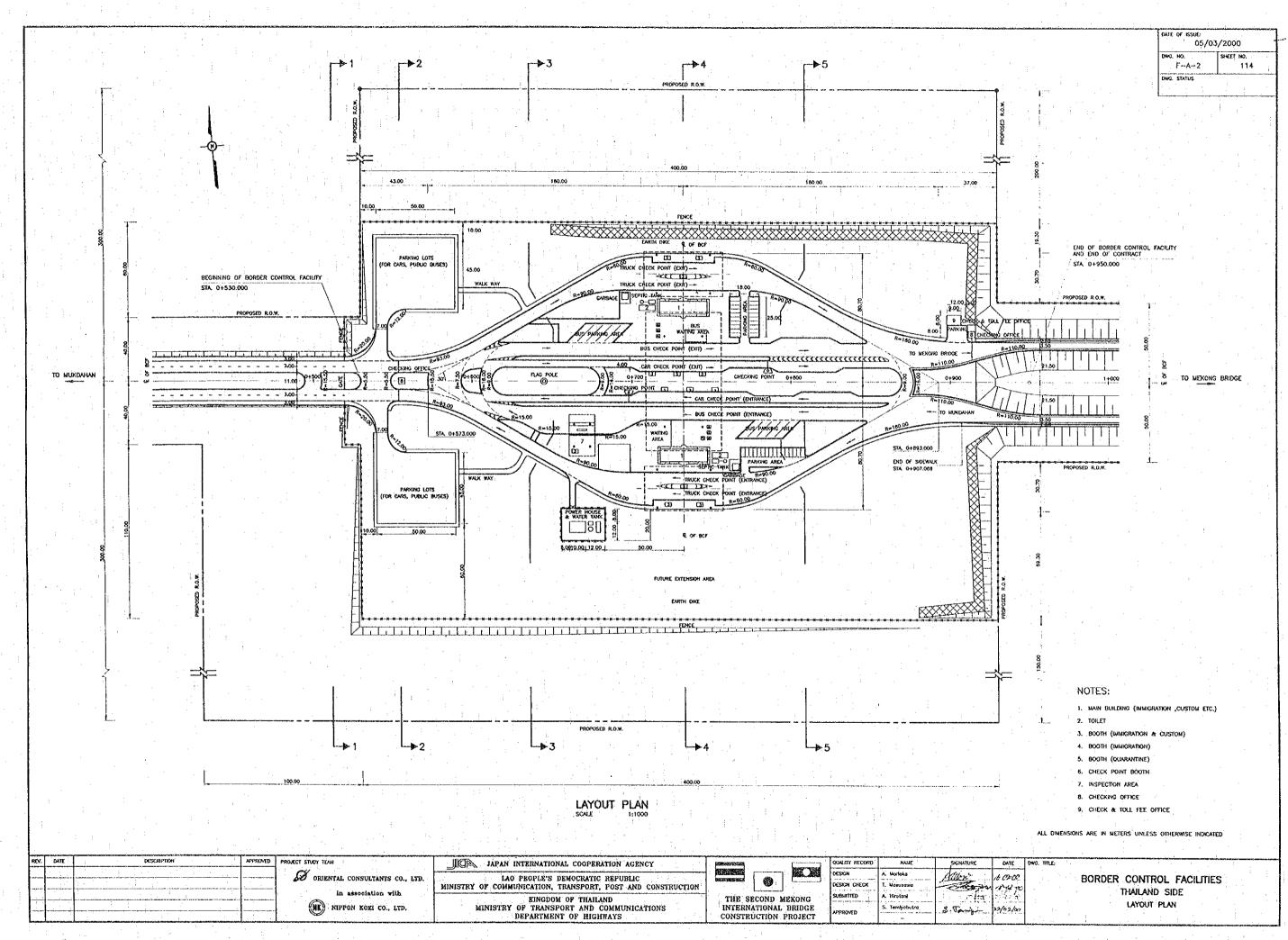
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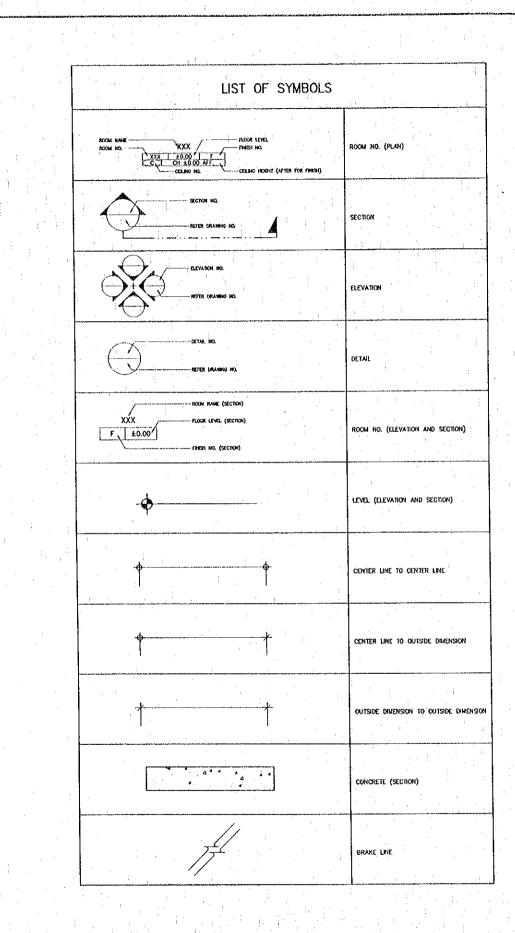












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		1.1 WIYL THE "FURTURE DESIGN "SAND" TYPE" 300 x 300 x 2.0 mm. DYNOPLEX
		1.2 VNYL SKIRIING 1.6 x 100 mm, DYNOFLEX
		1.3 THÉS
		1.3.1 CERANIC TRE 44021 TABAC 200 x 200 x 5 CAMPANA
-	: 1	1.3.2 100 x 100 x13 mm. CF-101 KENZAI
	••	1.3.3 PORCELAIN THE 300 x 300 x 8
		1.4 TERRAZZO
		1.4.1 TERRAZZO CAST IN PLACE
	:	1.4.2 BRASS DIVIDER
	•	1.5 PAMING BLOCK TERRASTONE 101 400 x 400 x 35 mm. BKX TERRASSO
		1.5 STAIRNOSING' BRASS STAIR NOSING W/ PVC. STRIP
		2 WALL
		2.1 PAINTING
	÷.	2.1.1 EXTERIOR - ACRYLIC EMULSION "JOTHAN", PARMASTIC"
		2.1.2 INTERIOR - ACRYLIC ENULSION "JOTHAN", PARMASTIC"
	1	2.1.3 WOOD DOOR VANISH "JOTHAN , PARNASTIC"
		2.1.4 WOOD DOOR JAMB VANISH "JOTHAN , PARMASTIC"
		2.1.5 GYPSUM CEILING - EMULSION "JOTHAN", PARMASTIC"
		2.1.6 PARAPET - TEXTURE PAINT "JOTHAN , PARMASTIC"
		2.2 DOOR & WINDOW FRAME ALUMINIUM ANOLOK FWISH ASIA ALUMINIUM
:		2.3 GLAZING COOLGREY GELG 6 mm. THK. THAI ASAHI
		2.4 WOOD DOOR JANB 2" x 4" HARD WOOD ( TENG WOOD ) FOR GENERAL DOOR
		AND 2"x 5" HARD HOOD ( TENG HOOD) FOR TOULT DOOR
		2.6 WOOD DOOR 3.5 mm. THK. PLY WOOD DOOR THAI BANGNA
•	· .	
•		2.7.1 MOSAIC THE 44021 TABAC 25 x 25 x 5
		2.7.2 CERAMIC TILE 44021 TABAC 200 x 200 x 5 CAMPANA
		2.7.3 PORCELAIN TILE 227 x 60 x 12 mm. GF-206 KENZAI
		3 CERING
		3.1 KETAL STUD (WHITE COLOR) "T-BAR SYSTEM" CMC
	1	3.2 COUNC BOARD
		3.2.1 GYPSUM BD. : (MOISTURE RESISTANCE TYPE ) 600 X 600 X 9 mm. ELEPHANT
		3.2.2 ACOUSTIC BOARD : ST-721 FISSURED 600 x 1200 x 15 mm. SQUARE EDGE TYPE NITOBO
		3.3 THERMAL INSULATION : FIBERGLASS INSULATION SOMM. THK. DENSITY 48 kg/m <sup>3</sup> NICRO FIBER
		4 MISCELLANEOUS
	1	4.1 WATER PROOFING : POLYVINYL CHLORIDE WATER PROOFING MEMBRANE 2.0 mm.THK.
:		4.2 MOISTUER BARRIER SHEET : POLYETHYLENE NEWBRANE 0.08 mm.THK.
	1	4.3 VENETIAN BUNDE : 25 mm. LUXAFLEX

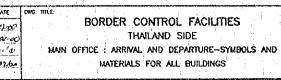
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-	- <u> </u>			ORIENTAL CONSULTANTS CO., LTD.			DESIGN CHECK	A Norioko T. Masuzawa	Allow	11-01-00
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### NOTES :

1. ALL BRAND NAME SHOWN ON THE DRAWINGS SHALL BE TENTATIVE ONLY, OF WHICH FINAL SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.

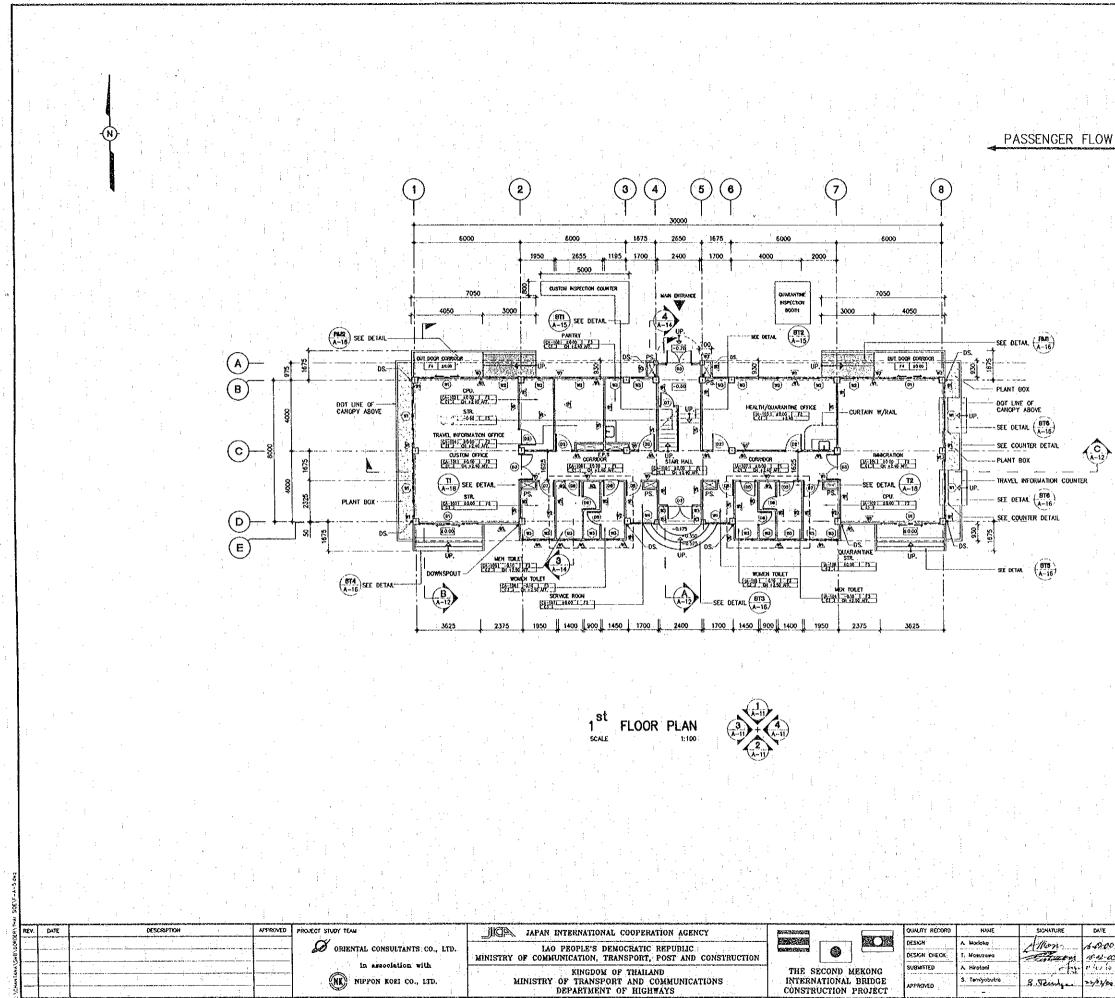
2. ALL FINISHES SHALL CONFORM TO THE REQUIREMENTS STATED IN THE TECHNICAL SPECIFICATIONS.



:										1		:				
		NO.	ROOM NAME BUILDING OFFICE DEPARTURE SIDE	FLOOR FINISHING	WALL FINISHING	CEILING FINISHING		NO.	ROOM NAME BUILDING OFFICE ARRIVAL	FLOOR FINISHING	WALL FINISHING	CEILING FINISHING		· ·		
		1	CUSTOM SECTION 1 <sup>91</sup> FLOOR				:		CUSTOM SECTION 1 <sup>91</sup> FLOOR							: 
		CD-101	CUSTOM OFFICE	<b>D</b>	Δ	© .		CA-101	CUSTON OFFICE		Δ	G		. 1		:
		CD102	COMPUTER ROOM			®		CA102	COMPUTER ROOM		∴ <u>A</u>	6	:			÷ .
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	${\cal L}_{\rm c}({\cal L})$	CO-104	LABOUR CONTROL OFFICE	6	Δ	© ·		CA-104	TRAVEL INFORMATION	G	<u>A</u>	`@		•		
		CO105	MEN TOLLET			CO CO		CA-105	NEN TOILET	ß		œ				
		CO-108	WOMEN TOILET	i G	<u>^</u> <u>A</u> <u>A</u>	œ	11	CA-105	WOMEN TOILET	G	<u>A</u> A	Ð				:
		CD107	BOF, SERVICE ROOM	G	Â	Ċ		CA~107	SERVICE ROOM	G		E)				
	4.2	CO-108	PANTRY	G		) (C)	÷	CA-108	PARTRY	13		G				
		CD-109	CORRIDOR	6		e		CA-109	CORRIDOR			© (				
		CD-110	STAIR HALL			©	:	CA-110	STAIR HALL	6	Â	©				:
		CD-111	STORE ROOM (STAIR)	G	Δ, s	ෂ		CA-111	STORE ROOM. (STAIR)	6		(9)	-			
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	÷		2 <sup>nd</sup> FLOOR					CA-201	DIRECTOR ROOM	B		G				
		CD~201	DIRECTOR ROOM			G		CA-202	GUEST ROOM	ß		(C)		· .		÷
		CD-202	GUEST ROOM	12		Ô		CA-203	VIP. ROOM	63		Ô				1
		CD-203	MP. ROOM	6		s s®		CA-204	VIP. TOILET	12	<u>A</u> A	e (C)	4 .			•
		CD-204	MP. TOLET			1 <b>(</b>		CA-205	MEETING ROOM	12		© .				
1		CD-205	MEETING ROOM			G		CA206	NIGHT STAFF ROOM			G			and the second	
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		CD-207	NIGHT STAFF TOLET			G		CA-208	INSURANCE OFFICE			G	1 1.			
		CD-208	BCF, MAINTE, OFFICE			<b>O</b>		CA-209	CORRIDOR	ា		©.			- -	
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	:		I FLOOR					IA101	IMMIGRATION OFFICE	F2		<b>(D</b> )		6	TERAZZO CASE IN PLACE	
		10-101	IMMIGRATION OFFICE	E :		Ð		IA-102	COMPUTER ROOM	E	Δ	۲	1 . e	6	MNYL TILE	300 x 30
	· · · ·	ID102	COMPUTER ROOM	6	Å	°C)		-IA103	HEALTH / QUARANTINE OFFICE	F2		6		1		:
		4D-103	STORE ROOM	6	Δ	<b>@</b>	÷	IA-104	MEN TOLET	6		<u>@</u>		E	CERAMIC TILE	200
		10104	MEN TOILET	6		@		IA-105	WOMEN TOILET	6		œ		E	GRANITE TILE	100
:		ID-105	WOMEN TOILET	6		l @		1A-106	STORE ROOM.			<u></u>	· · ·		CONC, STEELL TROWEL	
		ID106	PANTRY	G		©.		IA-107	CORRIDOR	Ы		G		FS	WASHED GRAVEL	
		ID-107	BCF. MAINTE OFFICE	- E -		© (I)	:. <sup>1</sup>	IA-108	STAIR HALL	6	Δ	© .		G	T-BAR ACOUSTIC CEILING BOARD	600x120
		10-108	STORE ROOM	B		©						1				
		10-109	CORRIDOR	6		G						1		©.	T-BAR GYPSUM BOARD.	600x600
		1D110	STAIR HALL	П		j© i		·	2 <sup>nd</sup> FLOOR	-				.:	(MOISTURE RESISTANCE TYPE)	
	1		2 <sup>nd</sup> FLOOR						2 <sup>10</sup> FLOOR DIRECTOR ROOM	12		G		0	T-BAR GYPSUM BOARD	600×600
		10-201	Z FLOUR	E.		6		IA-201	GUEST ROOM			6		8	ALUMINIUM SPANDREL	100
		ID~202	GUEST ROOM	6		G		IA-203	VIP. ROOM	ß		: @		Â	CEMENT PLASTER W/PAINT PLASTER W/PAINT	
		10-203	UTUTY ROOM			<b>(()</b>		IA~204	VIP. TOLET			6			CERAMIC TILE (INTERIOR)	200
	:	ID-204	VIP, ROOM	6	A	6		IA-205	PANTRY	6		G		A	CERAMIC TILE (EXTERIOR)	227 ×
		10205	VIP. TOILET		AA	6		IA 205	MEETING ROOM			G		A	WASHED GRAVEL	
		10-206	MEETING ROOM	23		<b>O</b>		IA-207	NIGHT STAFF ROOM (I)	6		. ©	1.			
		10-207	NIGHT STAFF ROOM	12		©		IA208	NIGHT STAFF TOLET (1)	<b>F</b> 3		©.		1.1		
		ID-208	NICHT STAFF TOILET	· 63		(B)	· ·	IA-209	NIGHT STAFF ROOM (Q)	12	Δ	©				
· .		ID209	CORRIDOR	- 1		6		IA-210	NIGHT STAFF TOILET (Q)			e	- I.			
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NISHING SCHEDULE SIZE **8RAND** REMARK MOER SHALL BE BRASS 300 x 2mm. DYNOFLEX "FURTURE DESIGN "SAND" SKIRTING SHALL BE VINYL 00 x 200 CAMPANA 44021 TABAC 00 x 100 KENZAI (1200x15 mm NITTOBO ST-721 FISSURED W/ NETAL FRANE "T-BAR SYSTEN" (600x9 mm. ELPHANT 600x9 mm. ELPHANT 100 mm, 200 x 200 CAMPANA x 60 x 12 KENZAI OWG. TITLE: BORDER CONTROL FACILITIES THAILAND SIDE MAIN OFFICE : ARRIVAL AND DEPARTURE-FINISH SCHEDULE



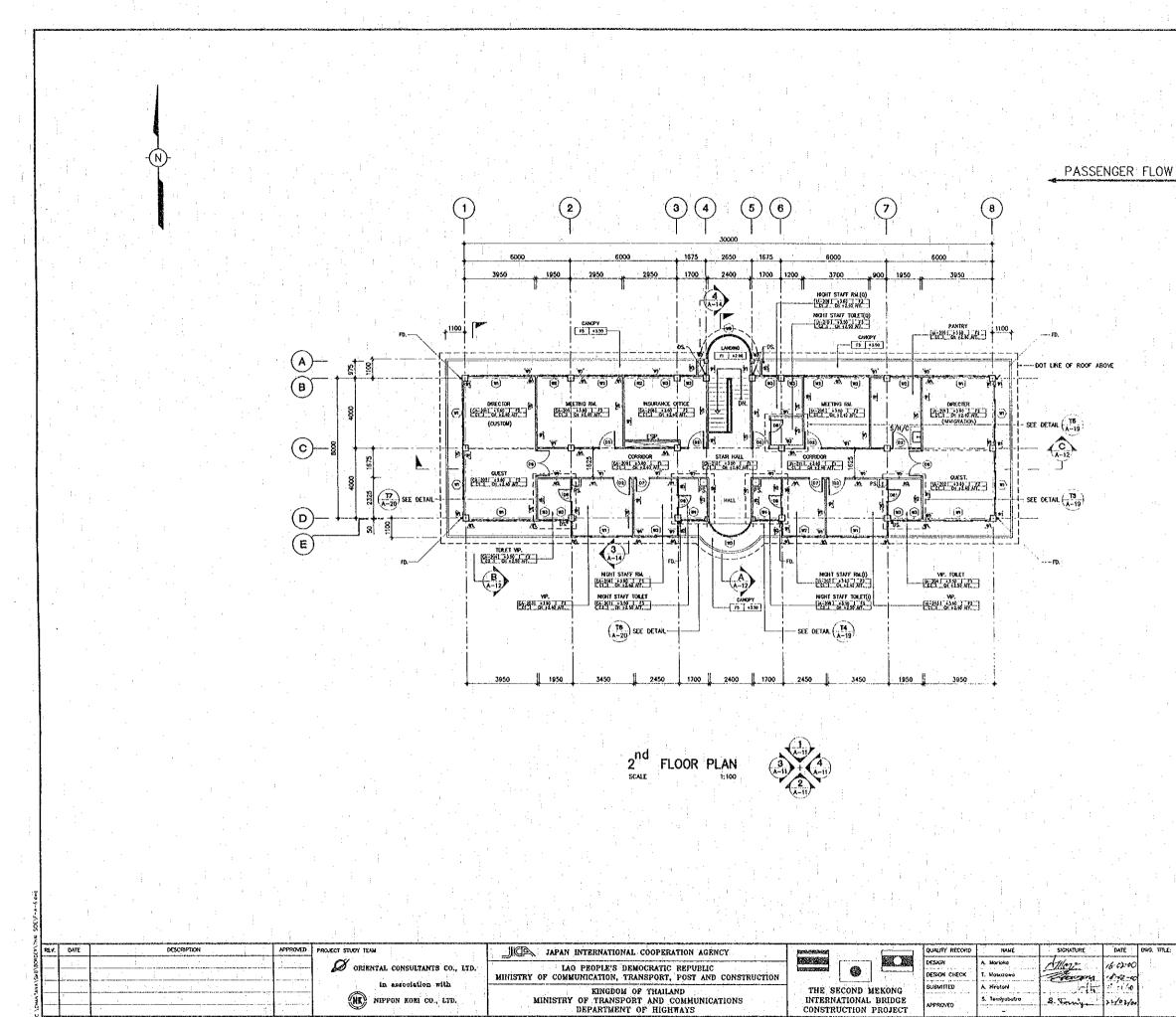
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NOTES : DS. : DOWNSPOUT PVC. #100

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12. 194.		MAIN OFFICE : ARRIVAL-181 FLOOR PLAN



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CONSTRUCTION PROJECT

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## NOTES :

DS. : DOWNSPOUT PV. #100 FD. : FLOORDRAIN #100

BORDER CONTROL FACILITIES THAILAND SIDE MAIN OFFICE : ARRIVAL-2" FLOOR PLAN

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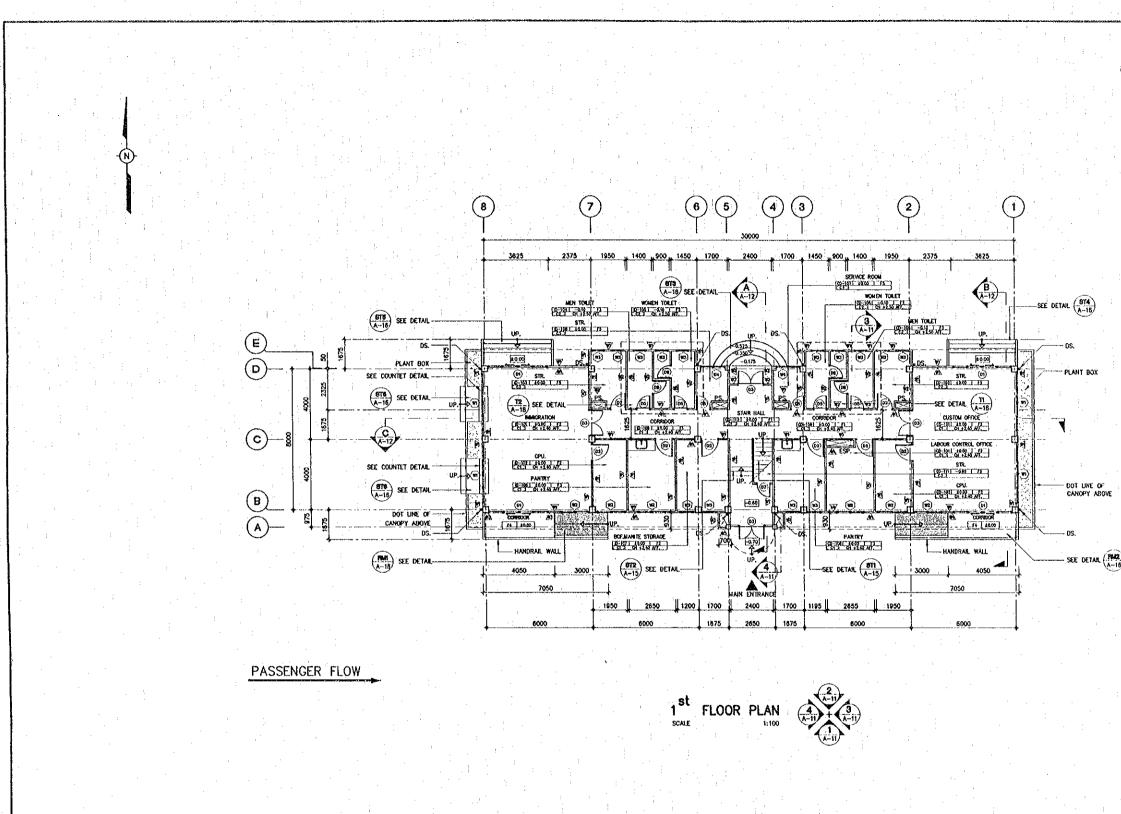
		PASSENGER FLO
	ROOF FLOOR PLAN	
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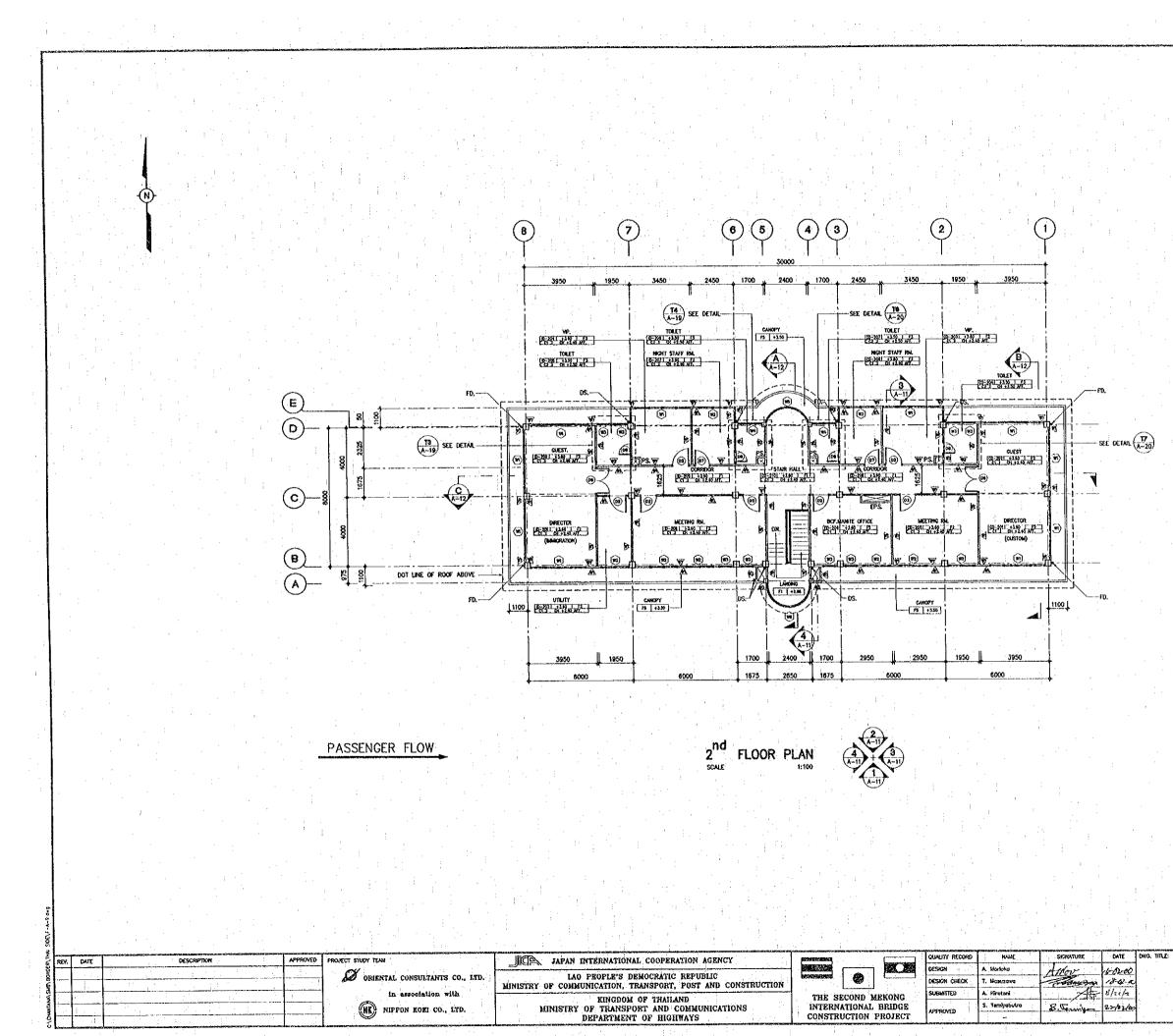
NOTES : 1. ROOF SLAB SHALL SLOPE 1:150 TO DRAINAGE 2. RD. ; ROOFDRAIN C.I. #100

BORDER CONTROL FACILITIES MAIN OFFICE : ARRIVAL-ROOF PLAN



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3		 		(NK) NIPPON KORI CO., LTD.	MINISTRY OF TRANSPORT AND COMMUNICATIONS DEPARTMENT OF HIGHWAYS	INTERNATIONAL BRIDGE CONSTRUCTION PROJECT	APPROVED	S. Temlyobutro	B. Veinigini	21/02/0
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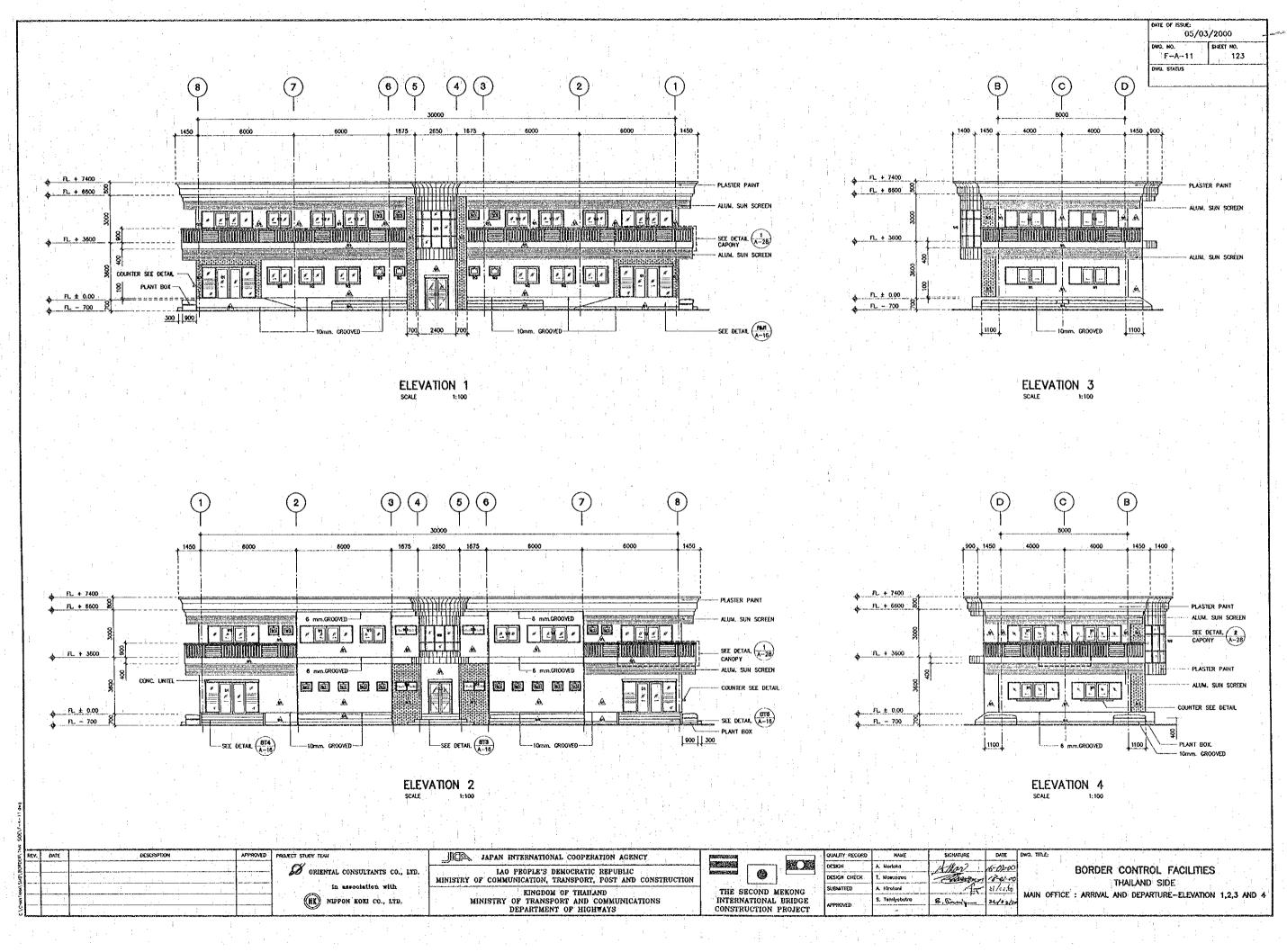
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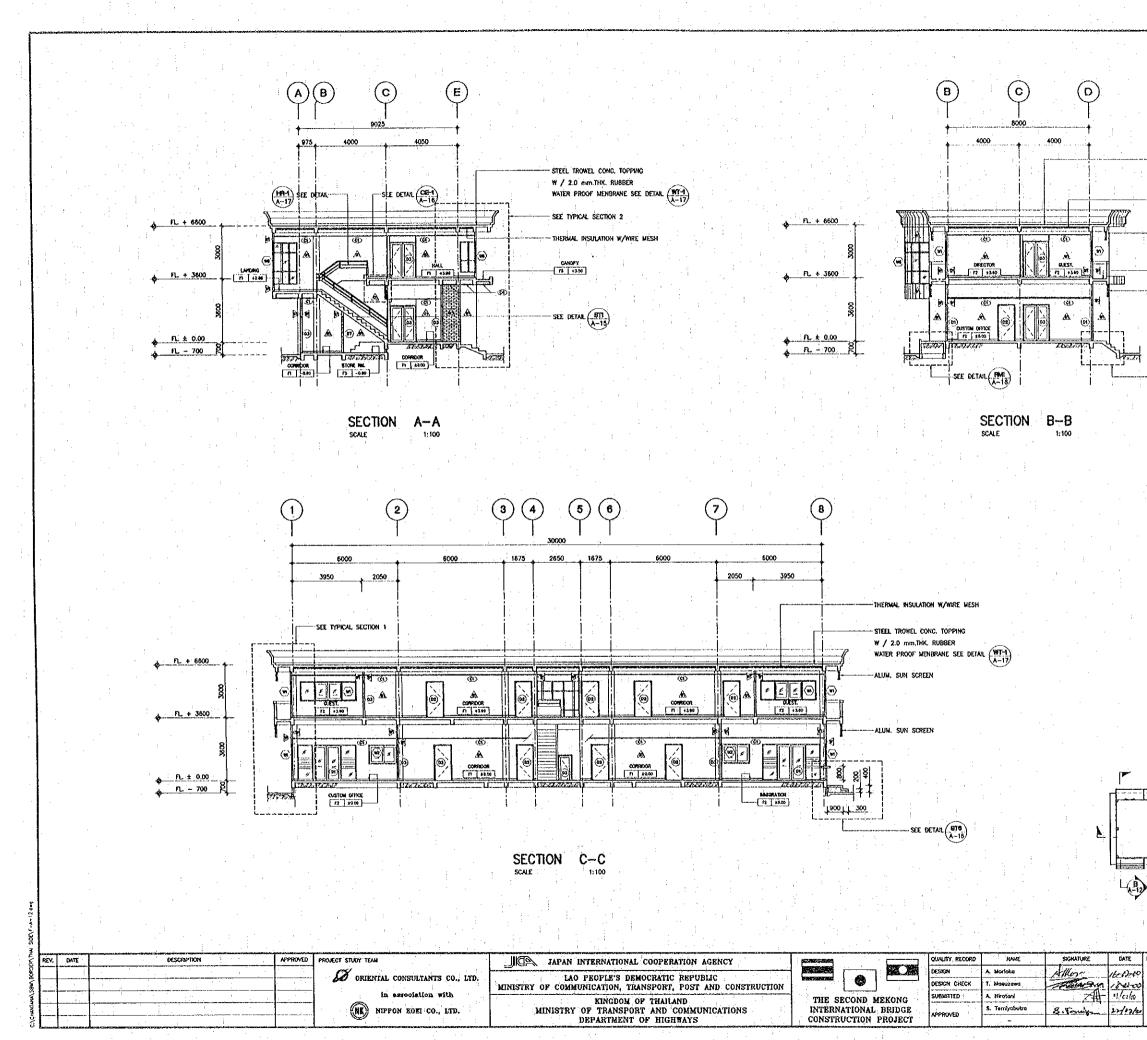
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DS. : DOWNSPOUT PVC. #100 FD. : FLOORDRAIN #100

BORDER CONTROL FACILITIES THAILAND SIDE WWN OFFICE : DEPARTURE-2<sup>nd</sup> FLOOR PLAN

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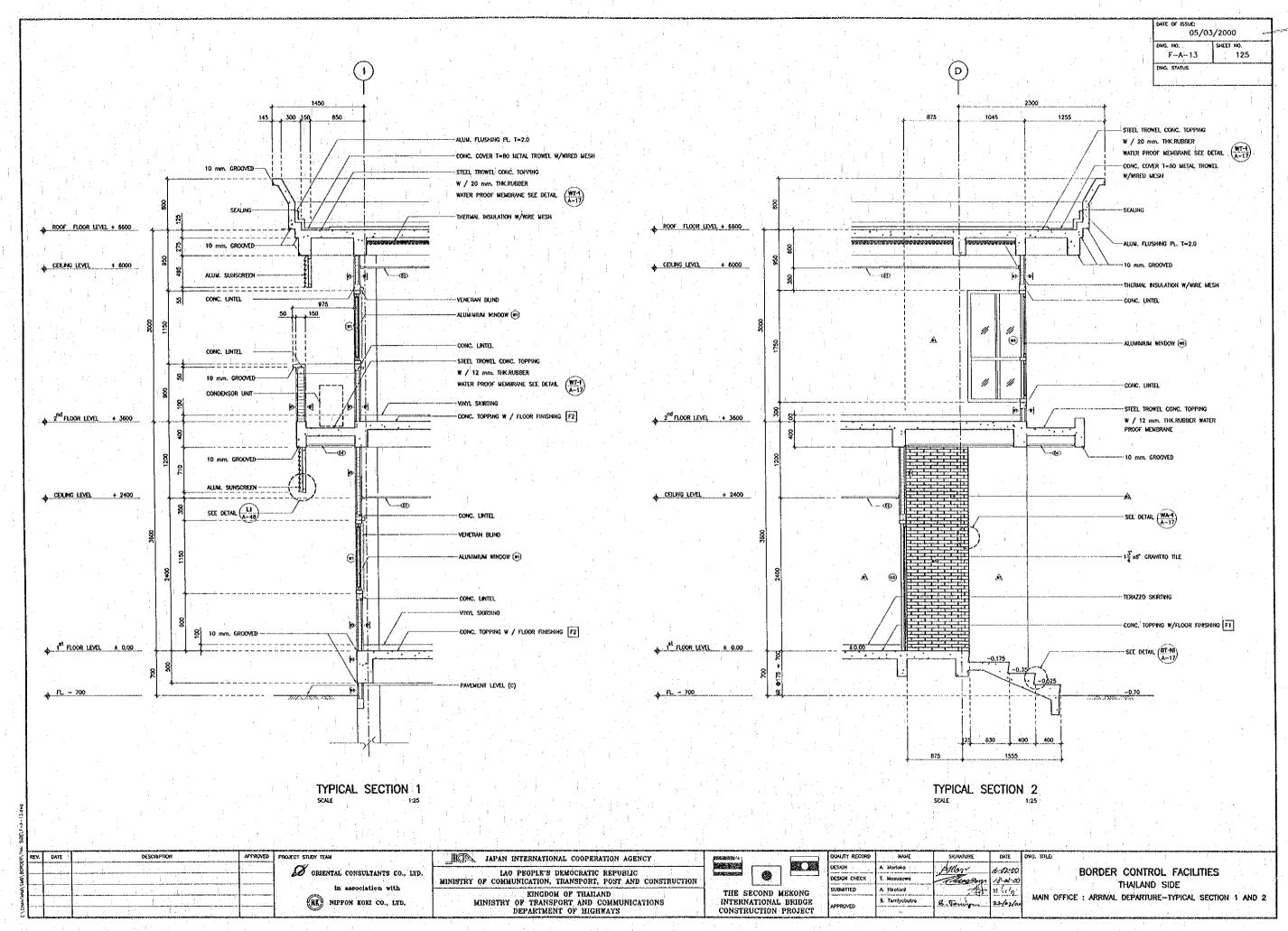


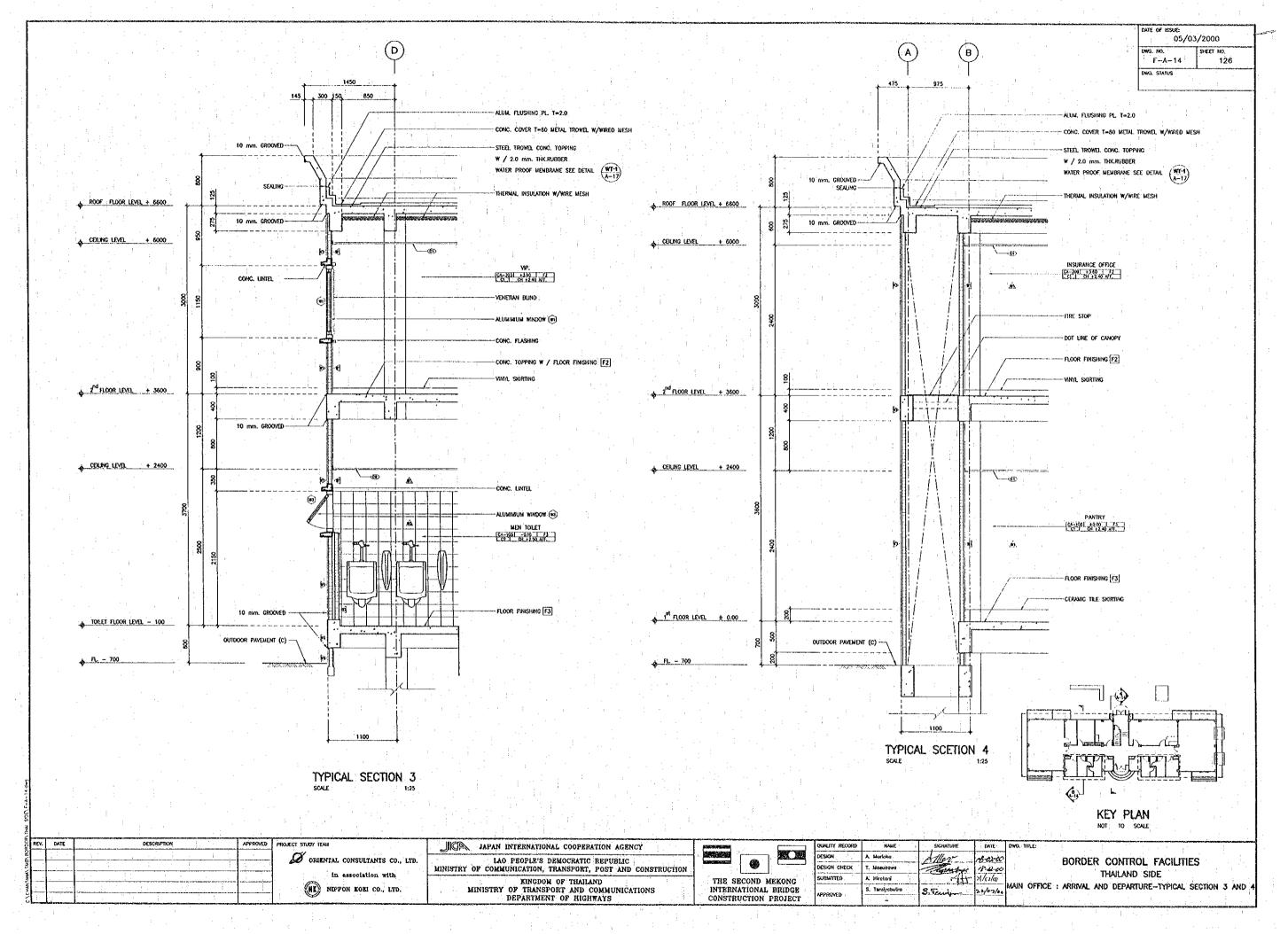


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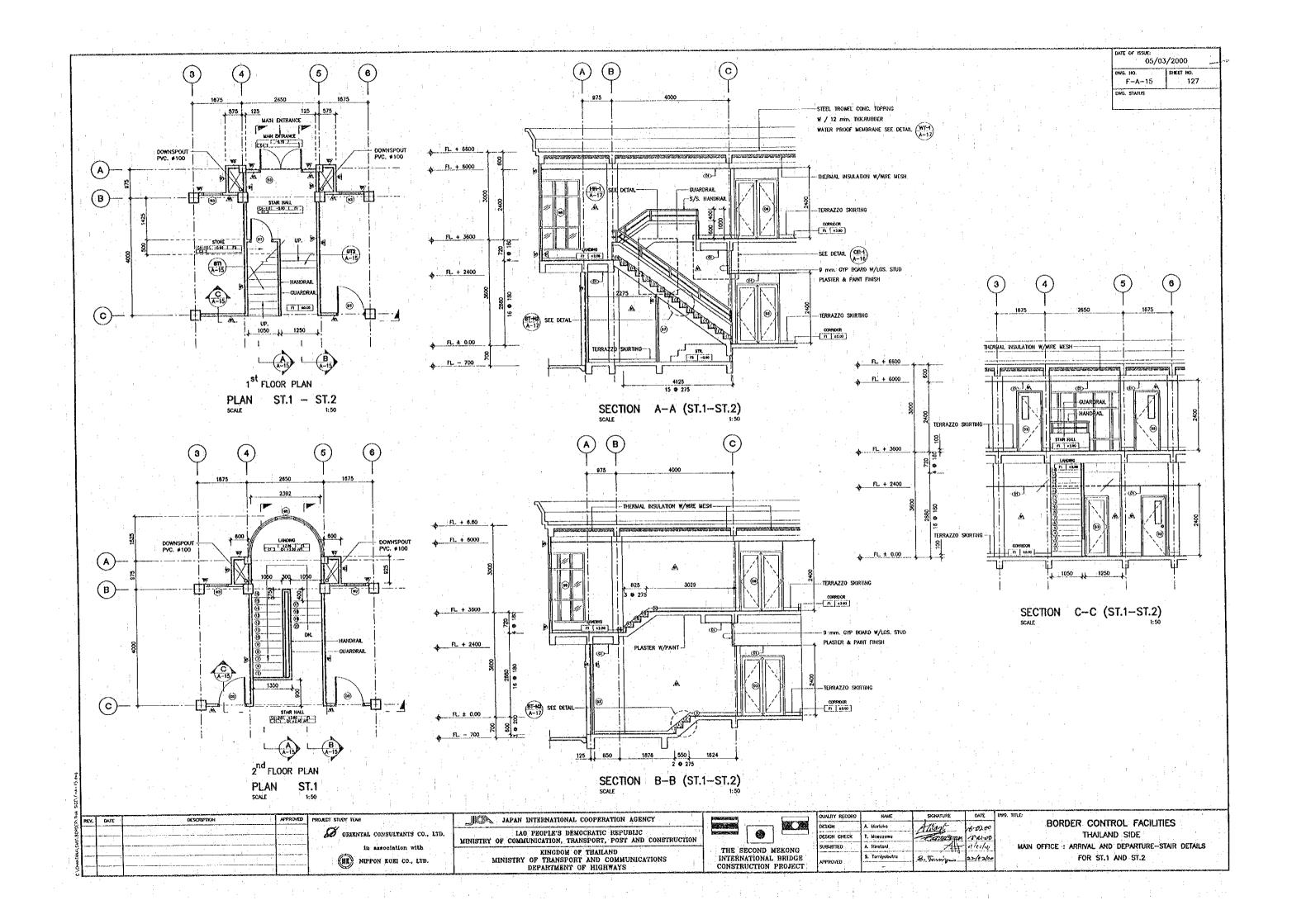
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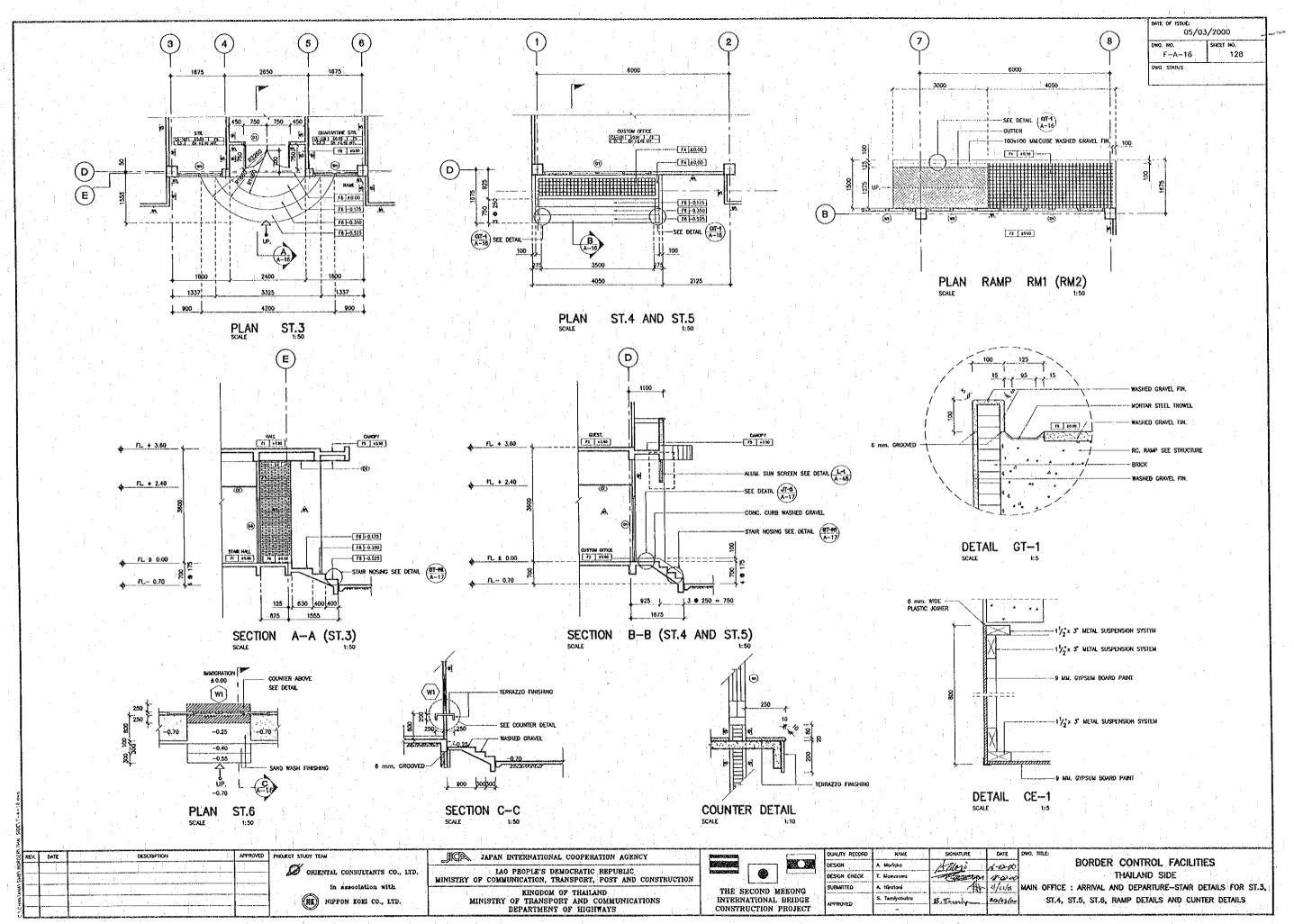
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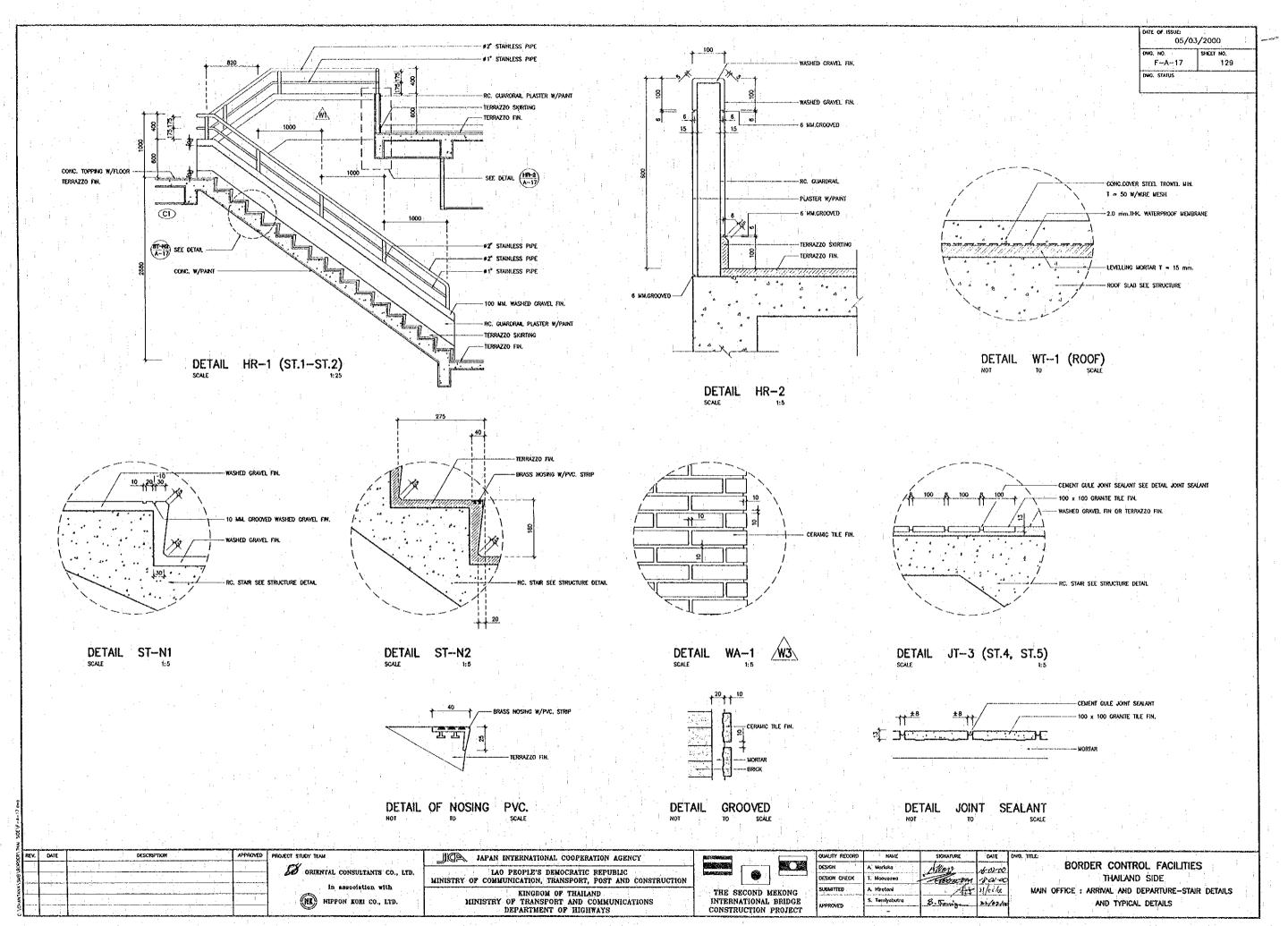




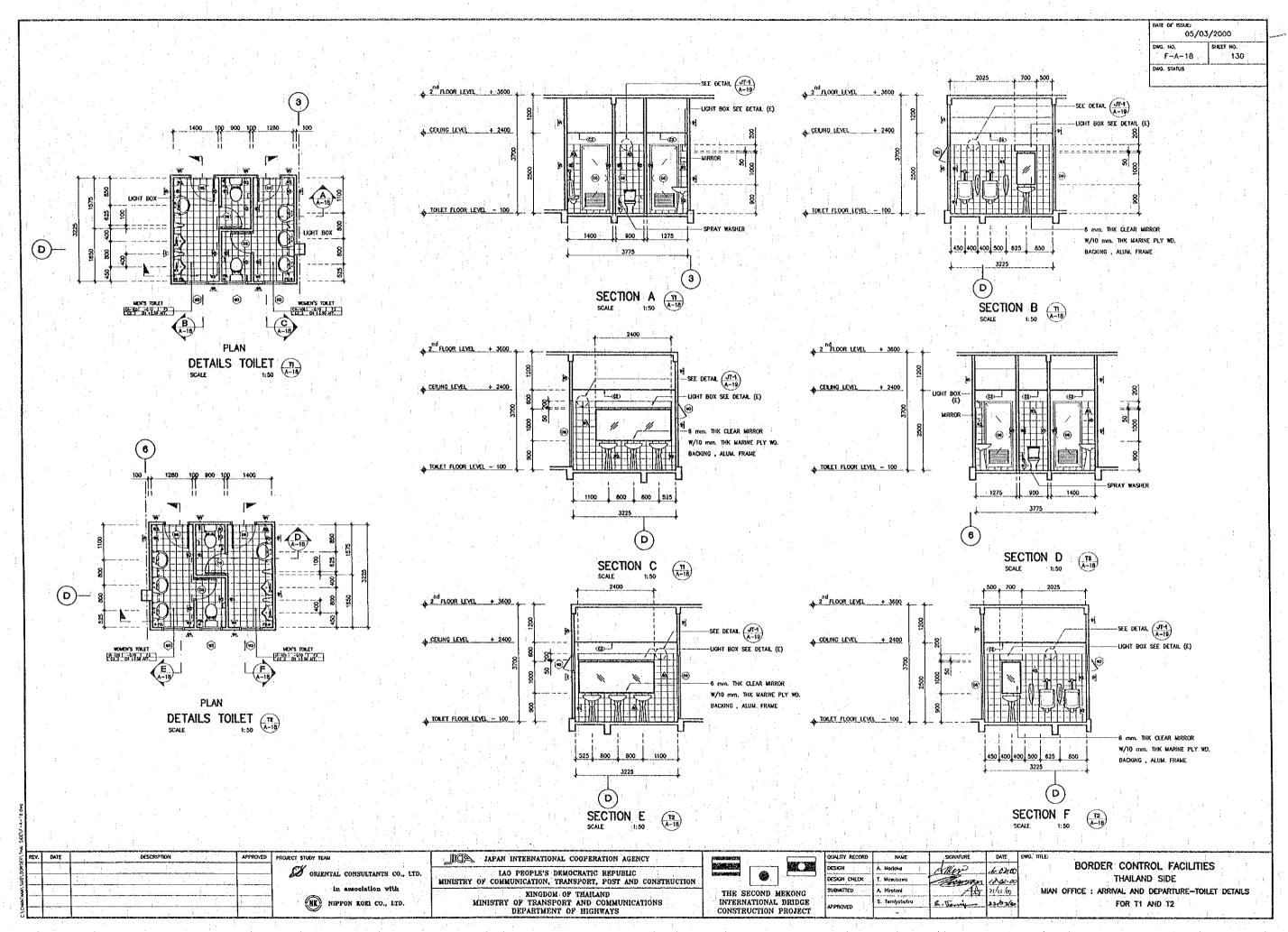
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- 20			*		NEPPON ROEL CO., LTD.	MINISTRY OF TRANSPORT AND COMMUNICATIONS DEPARTMENT OF HIGHWAYS	INTERNATIONAL BR CONSTRUCTION PRO		S. Tenshobutro	S. Terrin	22/03/0
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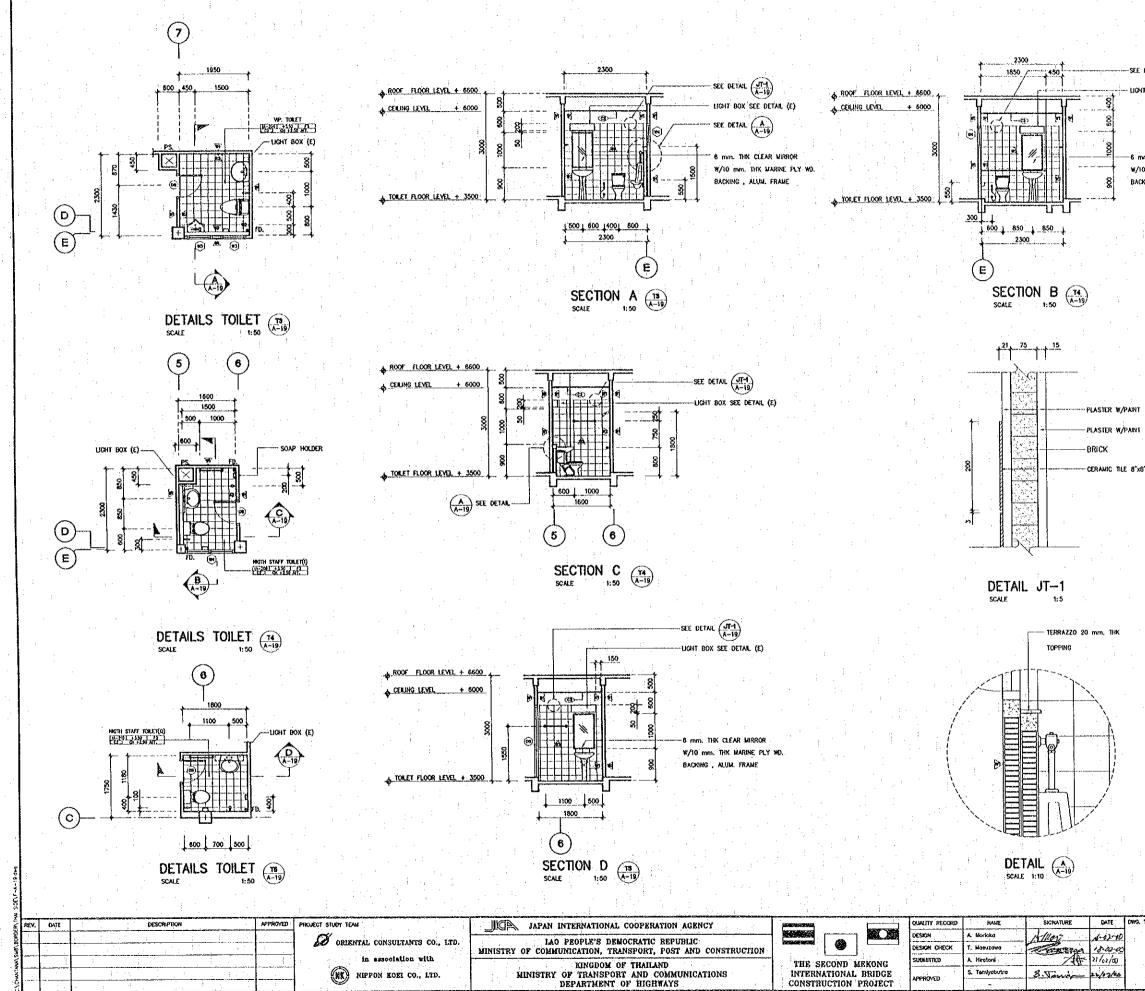






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6 mm, THK OLEAR MIRROR W/10 mm. THK WARNE PLY WO. BACKING , ALUM. FRAME

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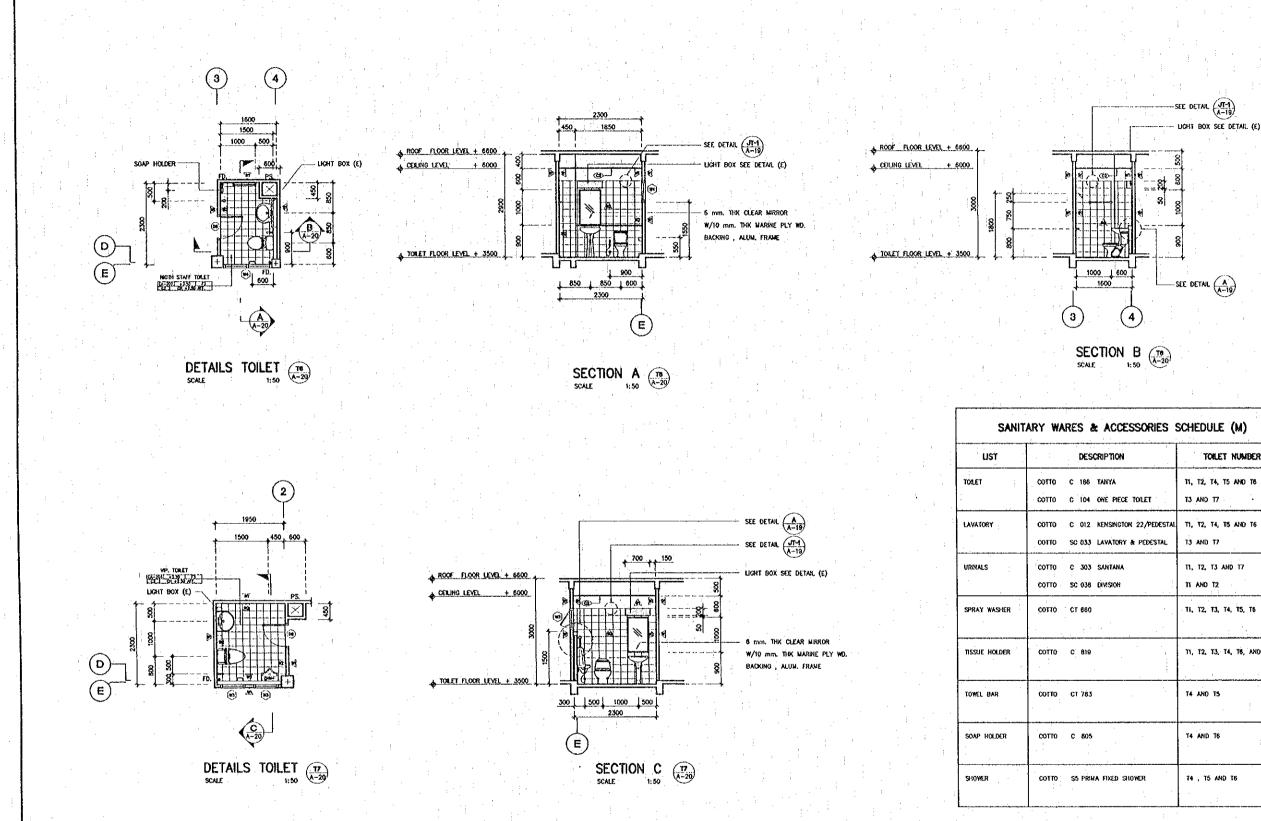
S. Temlyobutro

PRIMED

CONSTRUCTION PROJECT

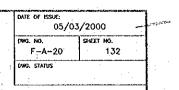
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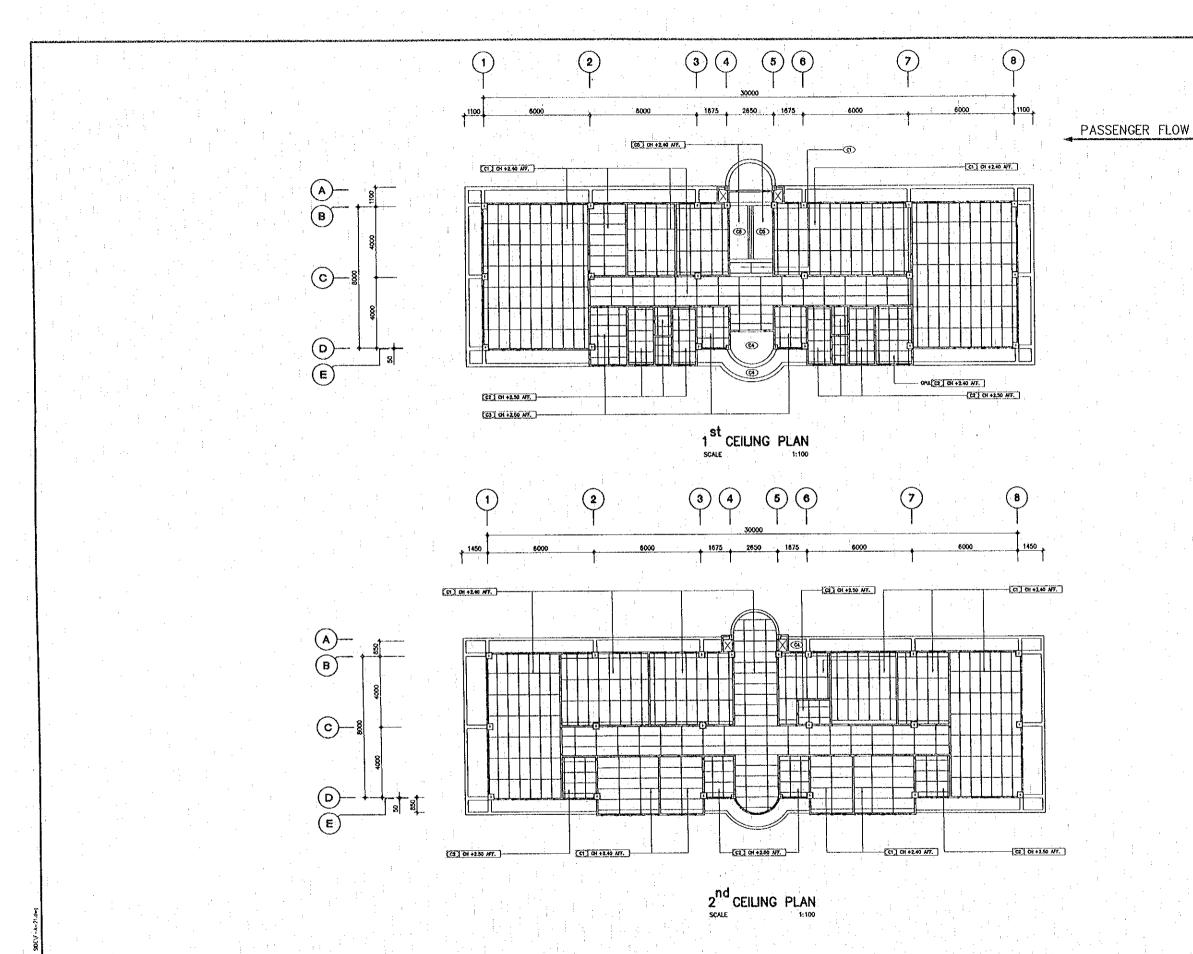


	SCHEDULE (M)
•	TOILET NUMBER
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je toilet	T3 AND T7
ton 22/pedestal	TI, T2, T4, T5 AND T6
y & pedestal	T3 AND T7
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	11, T2, T3, T4, T8, AND T7
	T4 AND T5
	14 AND 16
SHOWER	74 , TS AND TG

ALL BRAND NAME SHOWN ABOVE SHALL BE TENTATIVE. THE FINAL BRAND SHALL BE SUBJECT TO THE ENGINEERS APPROVAL

2. BUILDING WORK SHALL COVER : MIRROR VINYL SHOWER CURTAIN AND RAIL

# BORDER CONTROL FACILITIES THAILAND SIDE MAIN OFFICE : ARRIVAL AND DEPARTURE-TOILET DETAILS FOR TO, T7 AND ACCESSORIES SCHEDULE (M)



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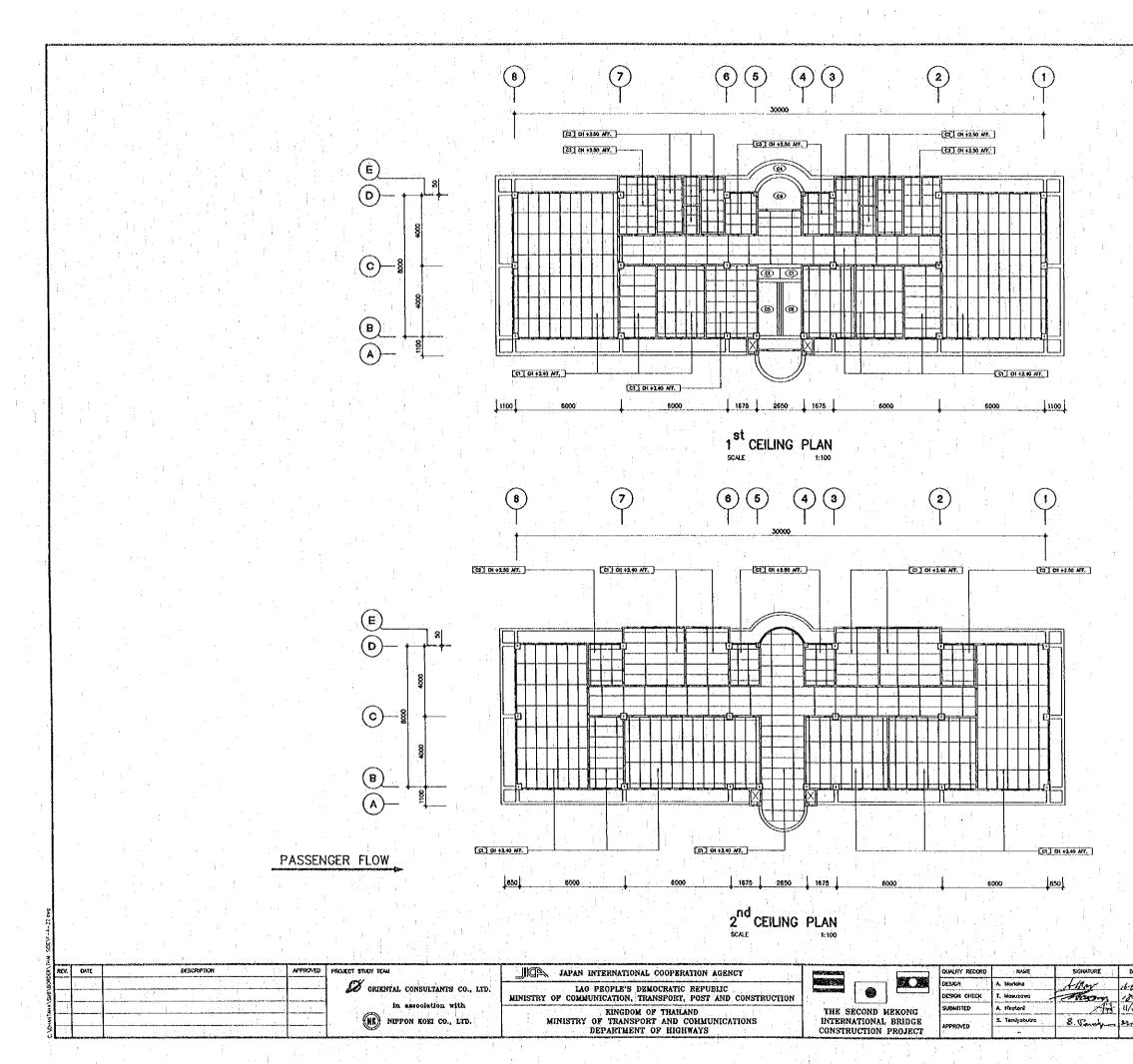
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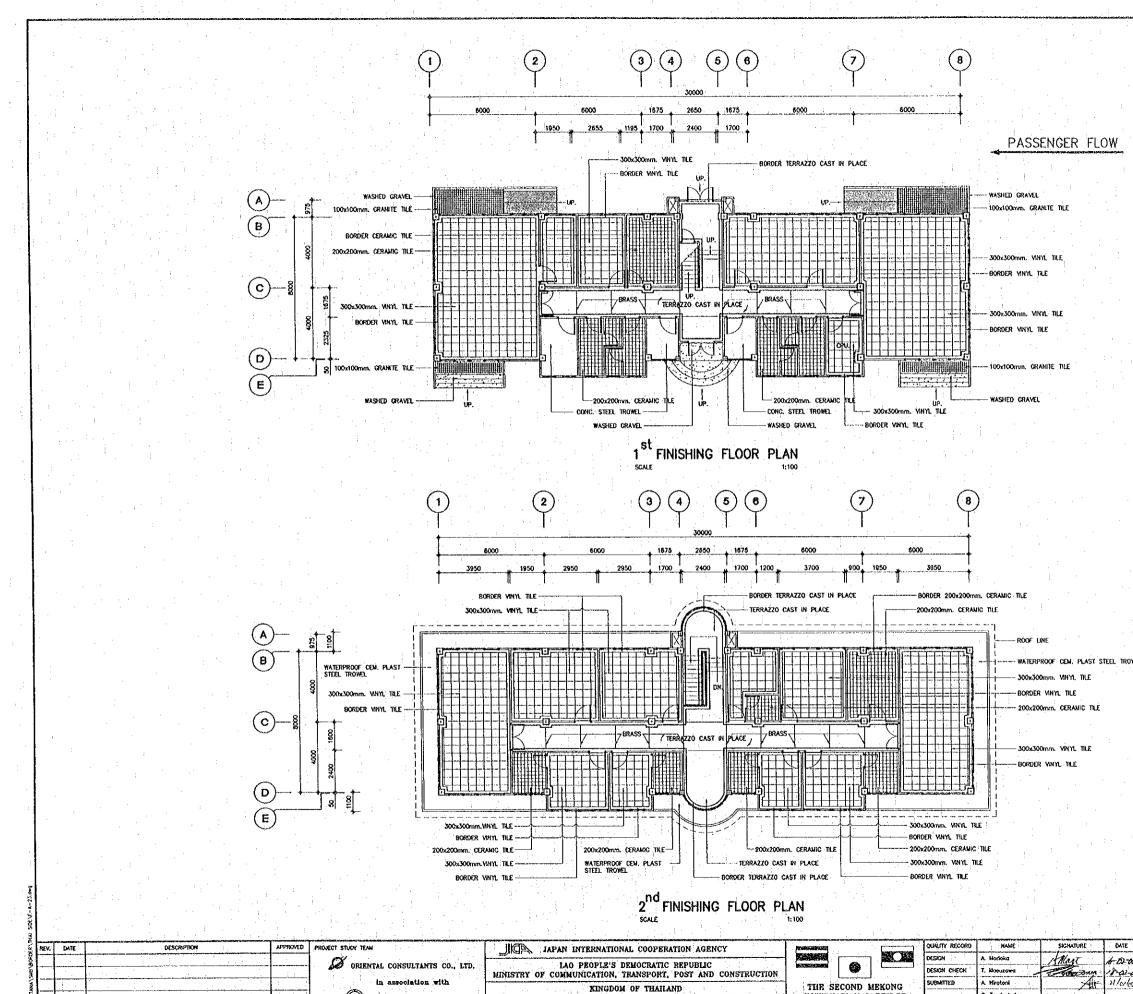
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KINGDOM OF THAILAND MINISTRY OF TRANSPORT AND COMMUNICATIONS DEPARTMENT OF HIGHWAYS

in association with

MK NIPPON KORI CO., LTD.

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THAILAN MAIN OFFICE : ARRIVAL-1 <sup>81</sup> AN	o side 2 <sup>nd</sup> Finishing	FLOOR PLAN

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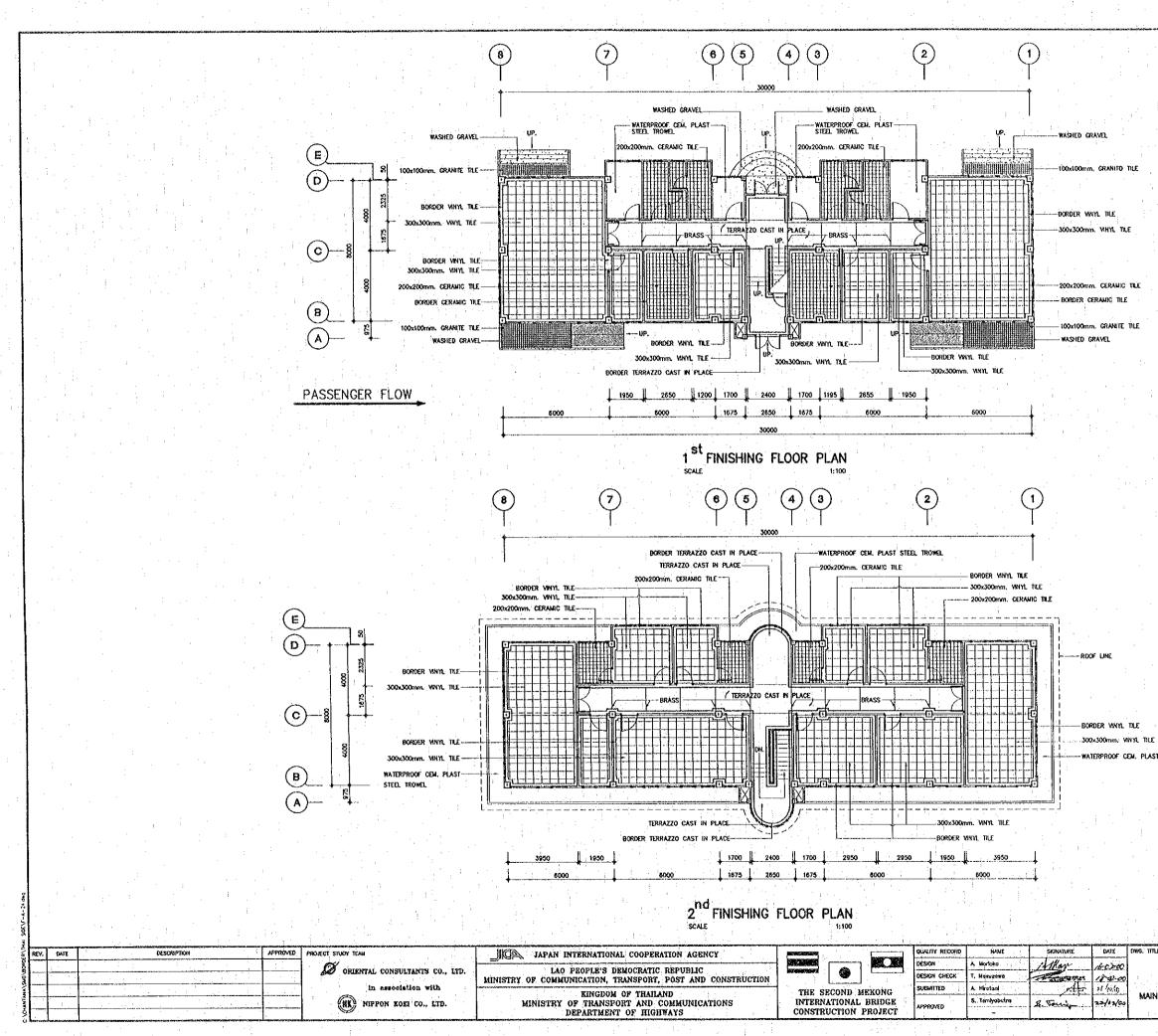
THE SECOND MEKONG INTERNATIONAL BRIDGE CONSTRUCTION PROJECT

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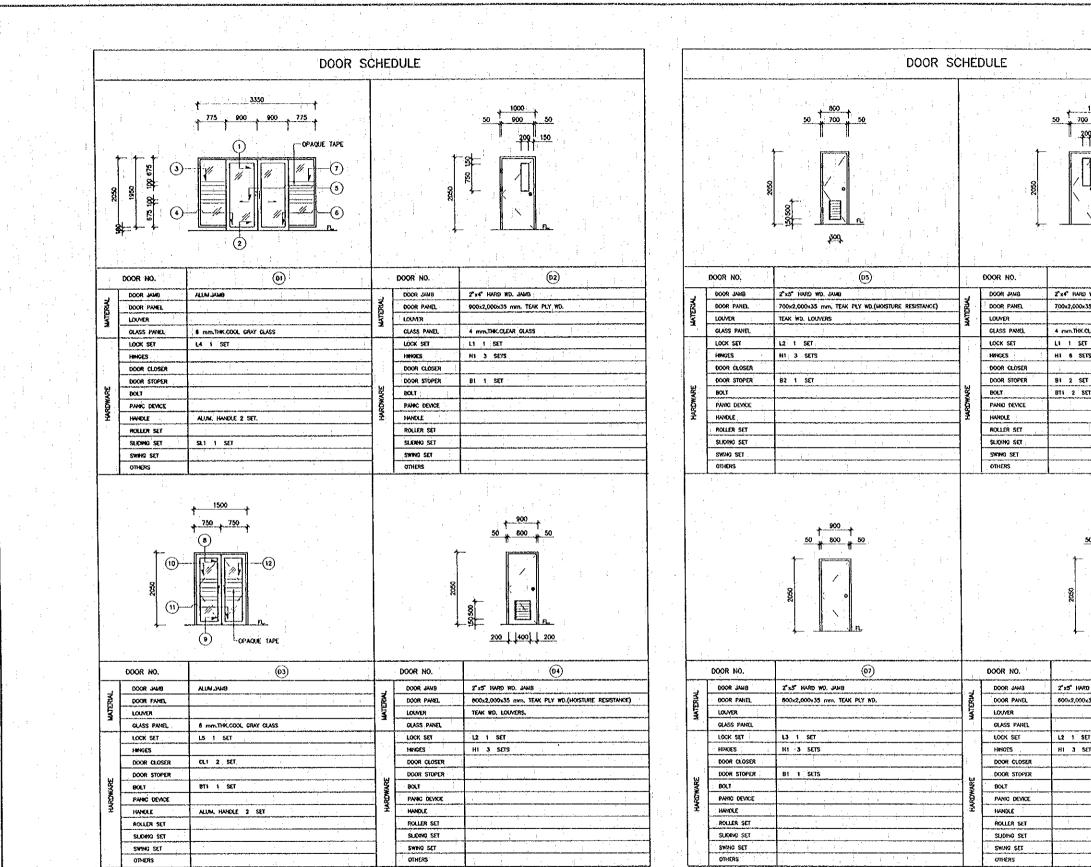
WATERPROOF CEM. PLAST STEEL TROWEL

OWO, TITLE: BORDER CONTROL FACILITIES THAILAND SIDE MAIN OFFICE : DEPARTUER-T<sup>at</sup> AND ZING FINISHING FLOOR PLAN

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		DOOR AND WINDOW	HARDWARE REQUIREMENTS		· · ·	
ត្ត	HARDWARE CODES	FUNCTION / DESCRIPTION	FINISHING / DUTY	REMARKS		1
Lock	u	BOTH SIDE S/S KNOB FOR GENERAL ROOM.	S/S DOOR KNOB W/A PINS CYUNDER KEY ON ONESIDE W/BUTTON ON OPPOSITE SIDE	POSSE F 300 - SS	e de la composition de	
	12	BOTH SIDE S/S KNOB FOR TOILET ROOM.	S/S DOOR KNOB W/PUSH BUTTON INSIDE LOCKS OUT SIDE KNOB EMERGENCY OPENING FORM OUT SIDE	POSSE C 330 - SS		
KNOB	<u>13</u>	BOTH SIDE 5/5 KINOB FOR STORAGE ROOM.	S/S DOOR KROB W/KEY LOCK FROM OUTSITE , OPEN BY KNOB ALLTIME INSIDE	POSSE C 352 - SS REUANCE NO. A-1,A-2,A-3		
	L4	HANDLE LOCK FOR ALUN, SLIDING DOOR	HANDLE FLUSH LOCK W/KEY DEAD LOCK W/KEY CN ONE SIDE , BUTTON ON OPPOSITE SIDE	ALPHA NO. 5128		. i
BOOR	1.5	LOCKSET FOR ALUM. SWING DOOR HANDLE LOCKSET FOR ALUM. YOP HUNG WINDOW	HANDLE LOCK W/KEY	TRUTH 25-70	•	·
i	L8 H1	S/S HINGE FOR WOODEN DOOR	4"x3"x2.5 mm. BALL BEARING HEAVY DUTY TYPE	NAGOYA		
	H2	S/S HINCE FOR TOP HUNG ALUM, WINDOW	18' S/S HINGE	LEAF BRAND	· · ·	
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Ĩ	N5					1997 - 1997 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
	H6					
	117			:		
	B1	DOOR STOPPER FOR GENERAL ROOM	MAGNETIC DOOR STOPPER	NAGOYA NO. 99		
ß	82	DOOR STOPPER & HOOK FOR TOILET	BRASS DOOR STOPPER W/RUBBER BUMPER	NAGOYA NO. 30		
d d o	B3					
5	B4			· · · · · · · · · · · · · · · · · · ·		
8	B5			· · · · · · · · · · · · · · · · · · ·		
	86					
	B7			RYOB! R9 - 002 W		
·	BT1	FLUSH BOLT FOR WOODEN DOOR	5° S/S FLUSH BOLT			
	91Z	BOLY FOR ALUM, DOOR		······································	i -	
BOL	BT3 BT4					
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	SL1	SILDING SET FOR ALUM. DOOR	BALL BEARING DOOR HANGER	DELMAR D-SOONA		
	α1	DOOR CLOSER FOR ALUM. SWING DOOR	HOLD OPEN AT 90"	NEW STAR NO. 630		
Ω		MOSQUITO NET FOR ALUM, WINDOW				
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DIFO. TITLE BORDER CONTROL FACILITIES THAILAND SIDE MAIN OFFICE : ARRIVAL AND DEPARTURE-DOOR AND WINDOW HARDWARE SCHEDULE

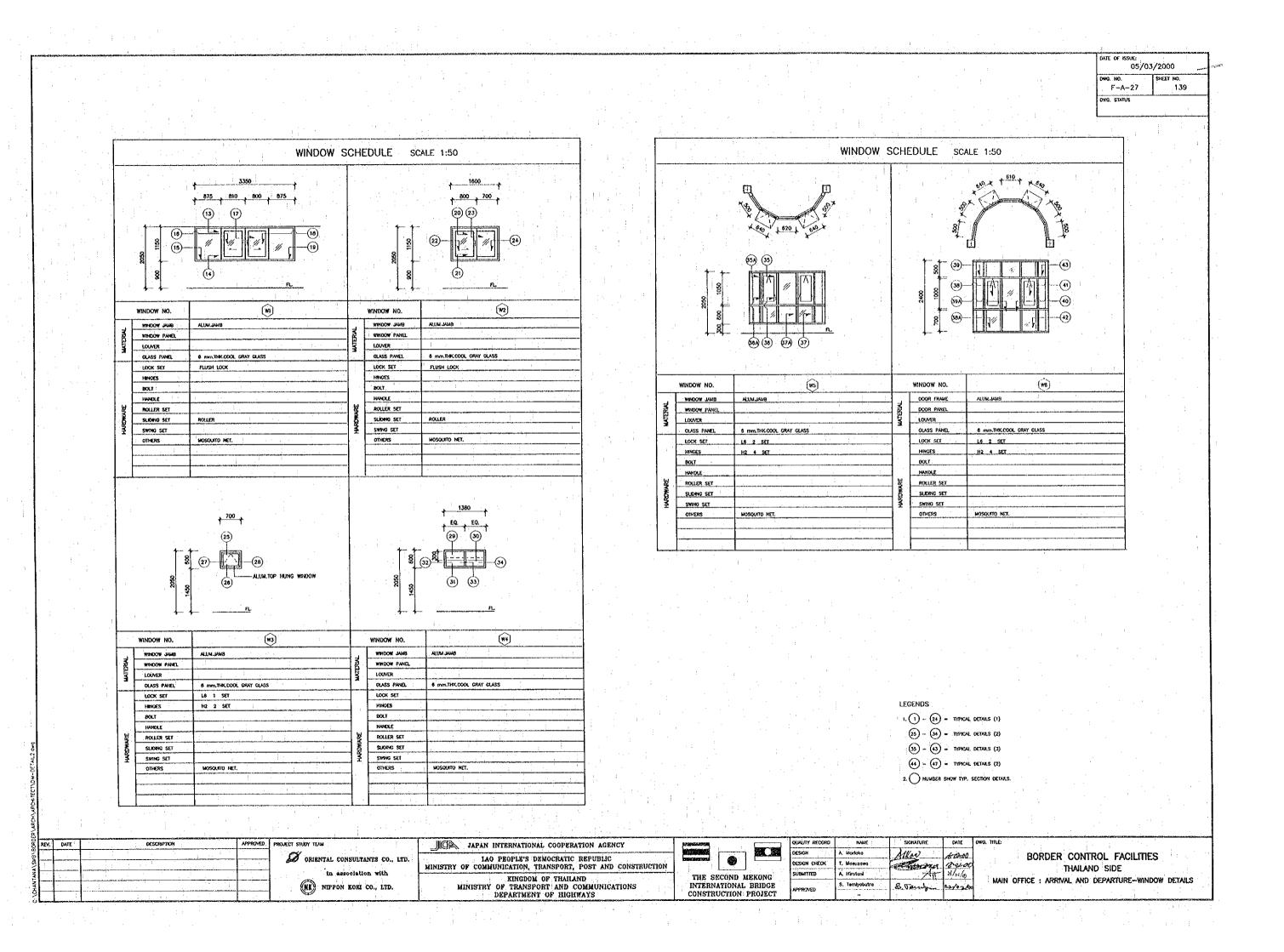


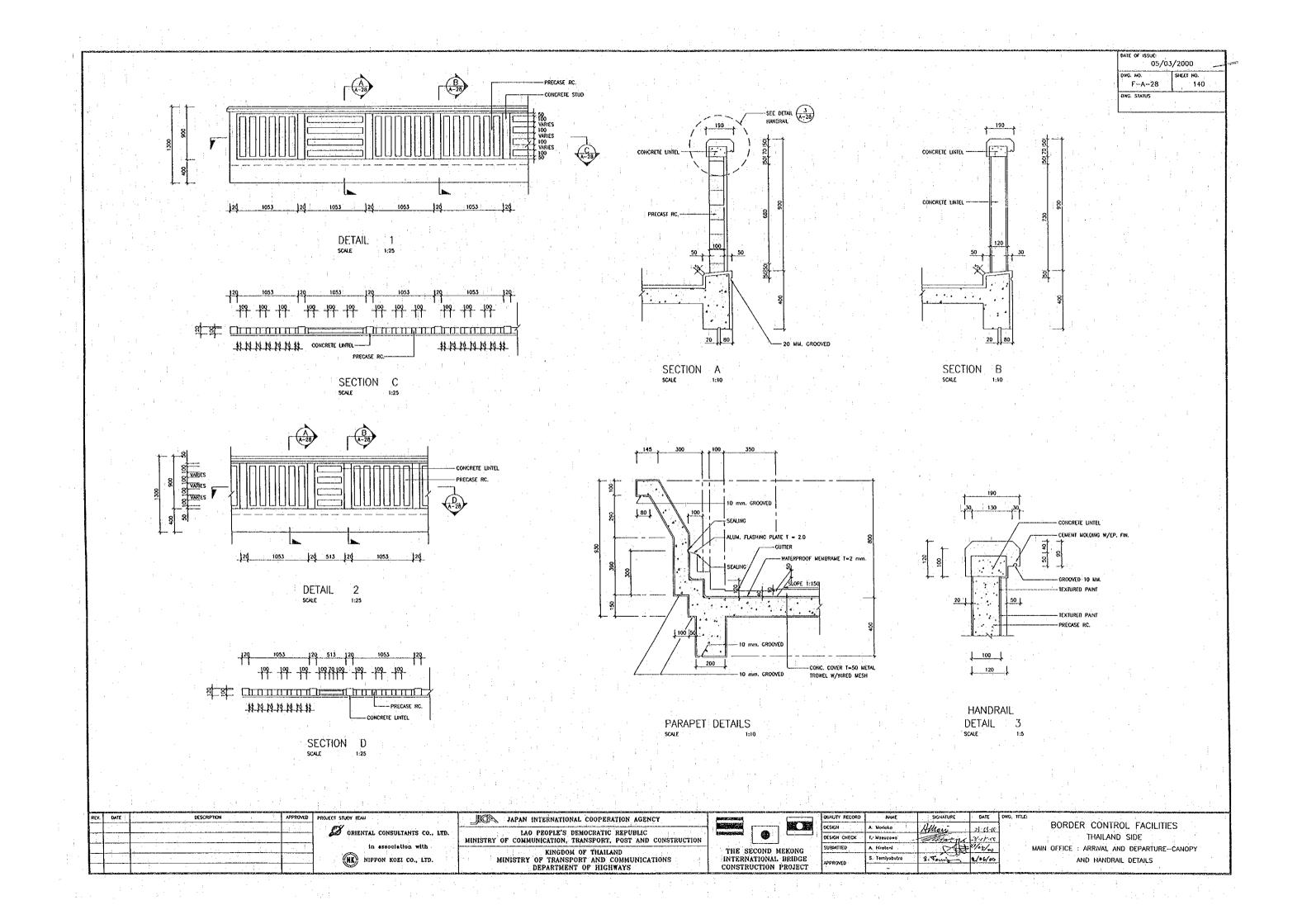
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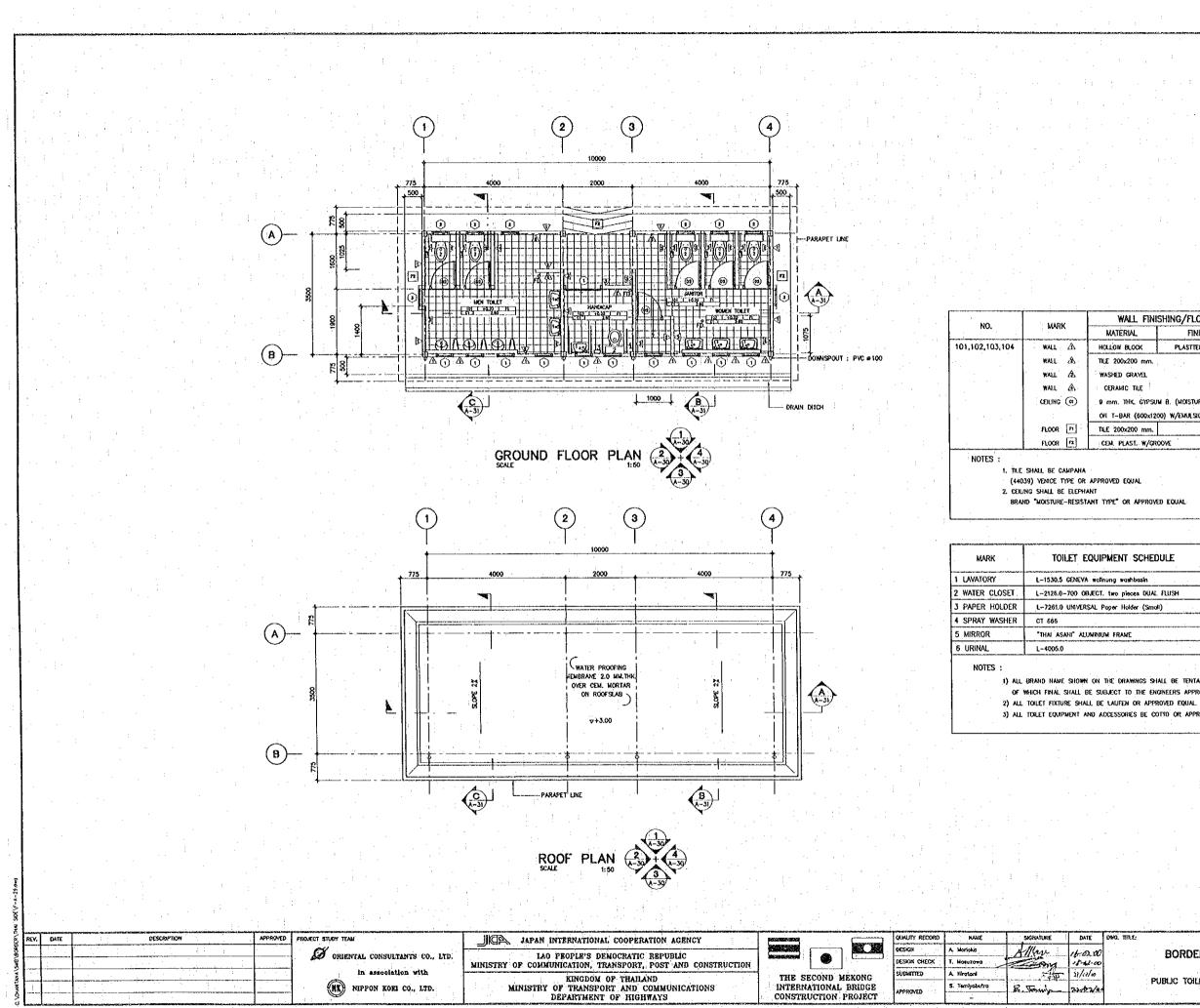
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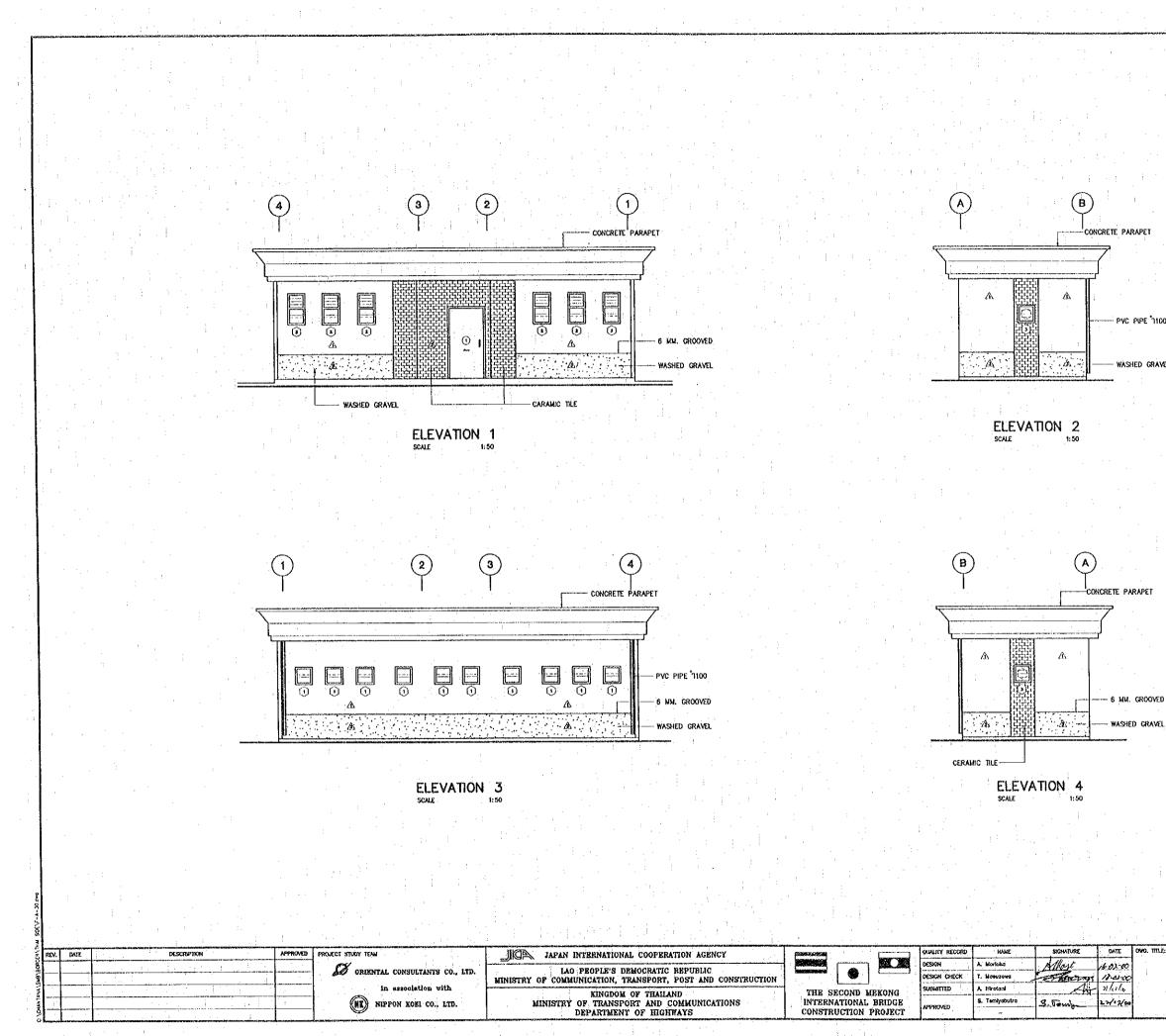


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WALL FINI	SHING/FLOOR FINISHING	3
MATERIAL	FINISHING	NOTE
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WASHED GRAVEL		:
CERAMIC THE		
mm. THK, GYPSU	W B. (MOISTURE RESISTANT)	
ON T-BAR (600x12	00) W/EMULSION PAINT	]
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THE DRAWINGS SH	IALL BE TENTATIVE ONLY,	

OF WHICH FINAL SHALL BE SUBJECT TO THE ENGINEERS APPROVAL 3) ALL TOILET EQUIPMENT AND ACCESSORIES BE COTTO OR APPROVED EQUIAL.

> BORDER CONTROL FACILITIES THAILAND SIDE PUBLIC TOILET : PLAN, FINISH & EQUIPMENT

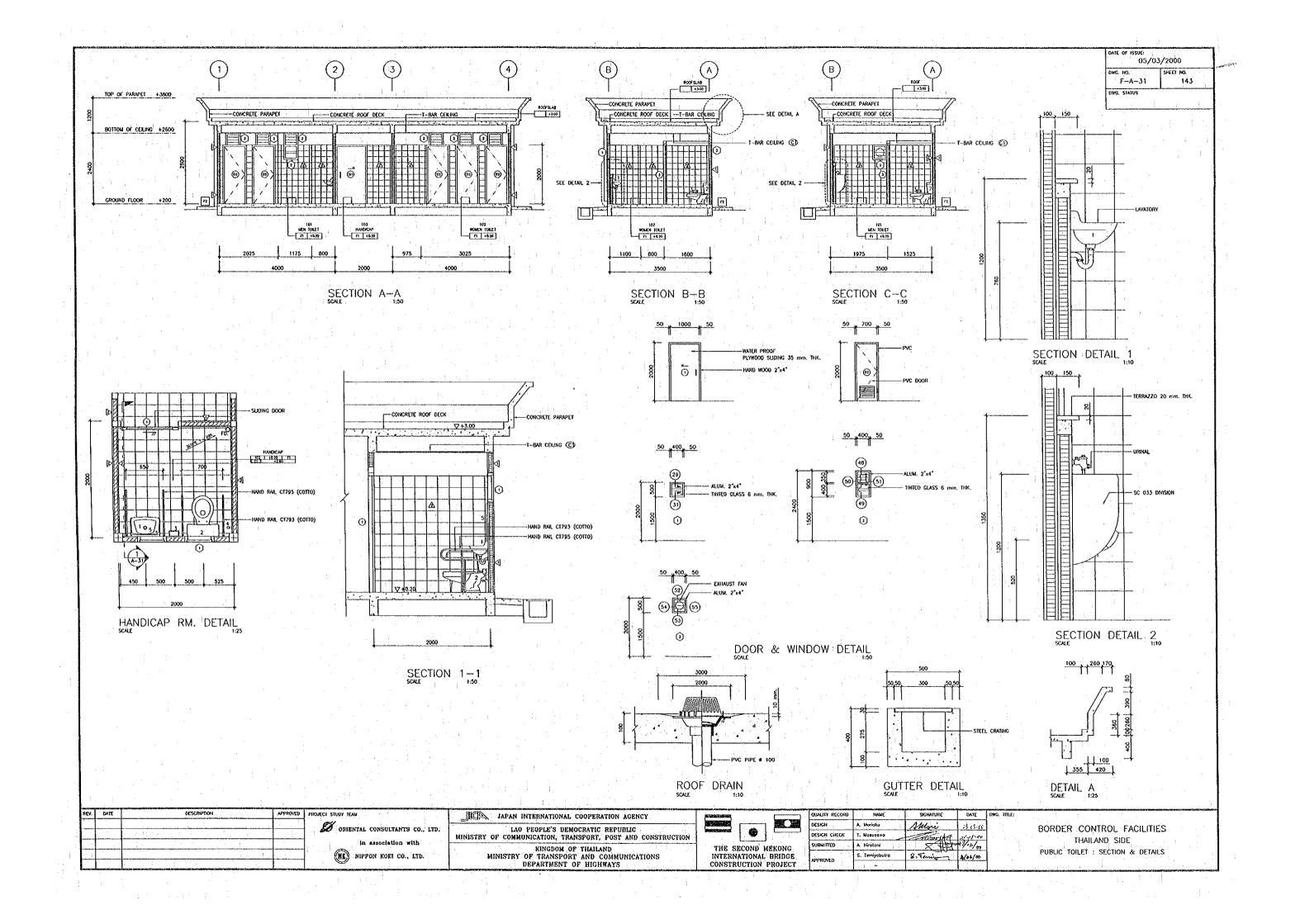


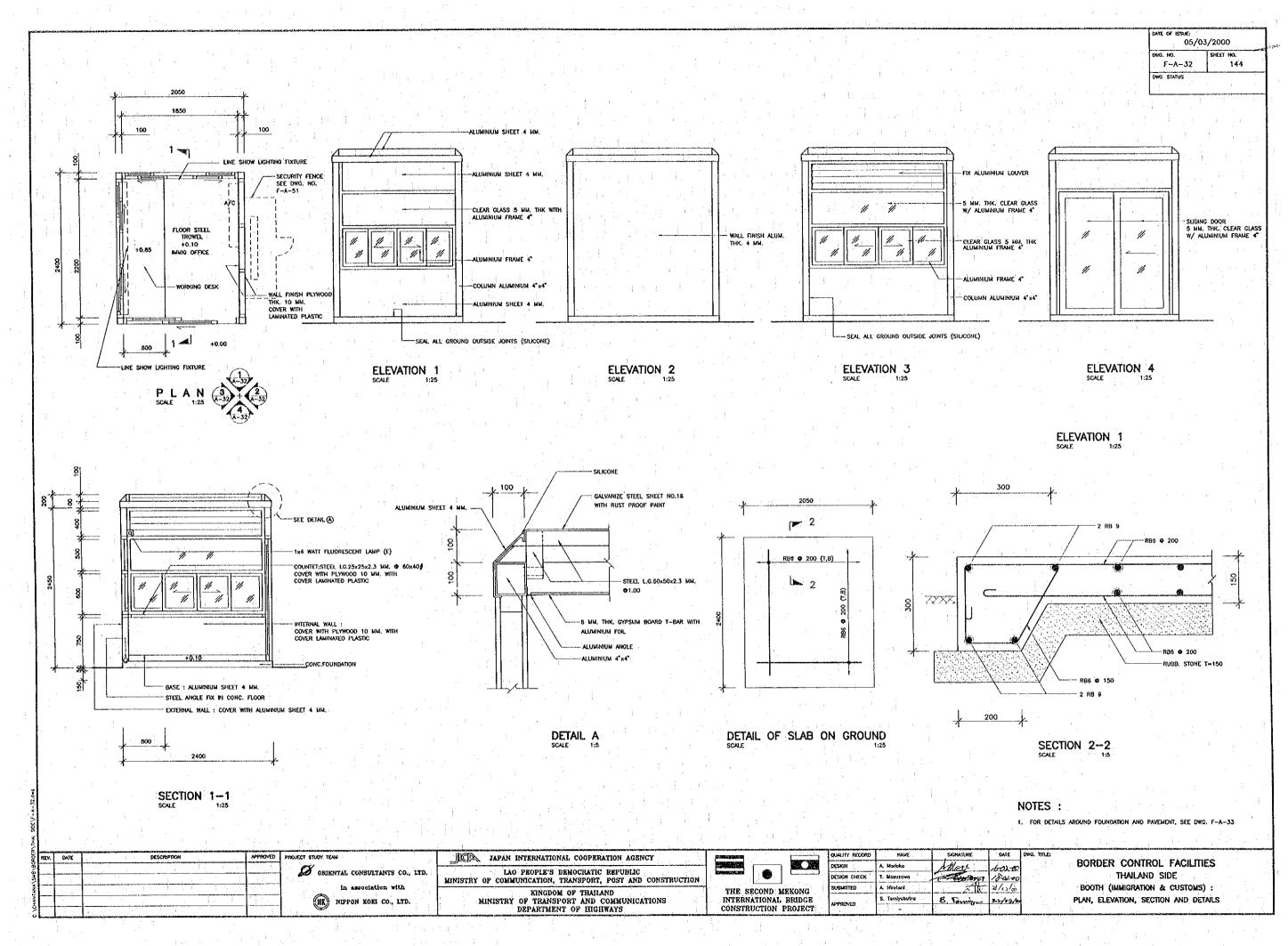
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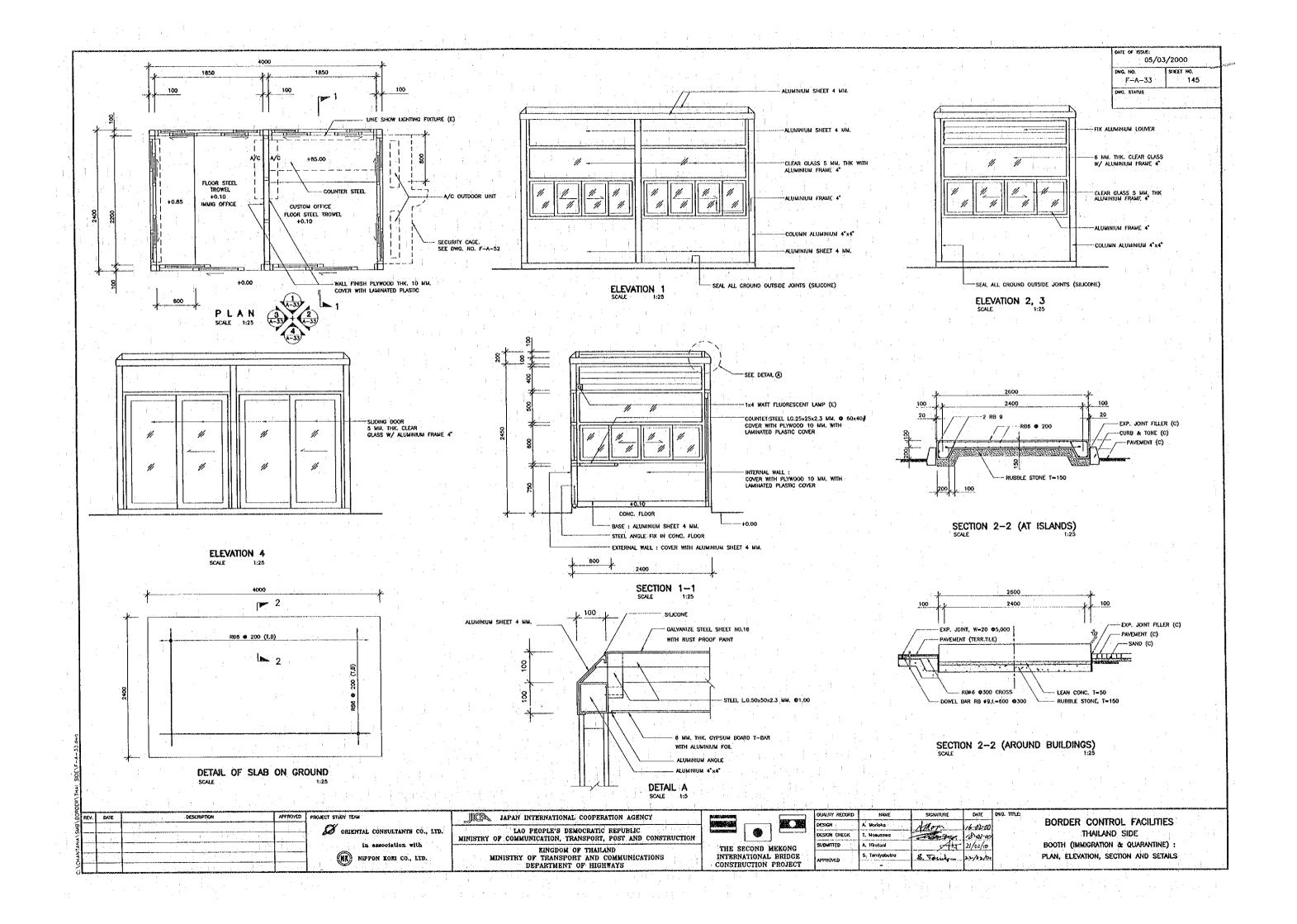
WASHED GRAVEL

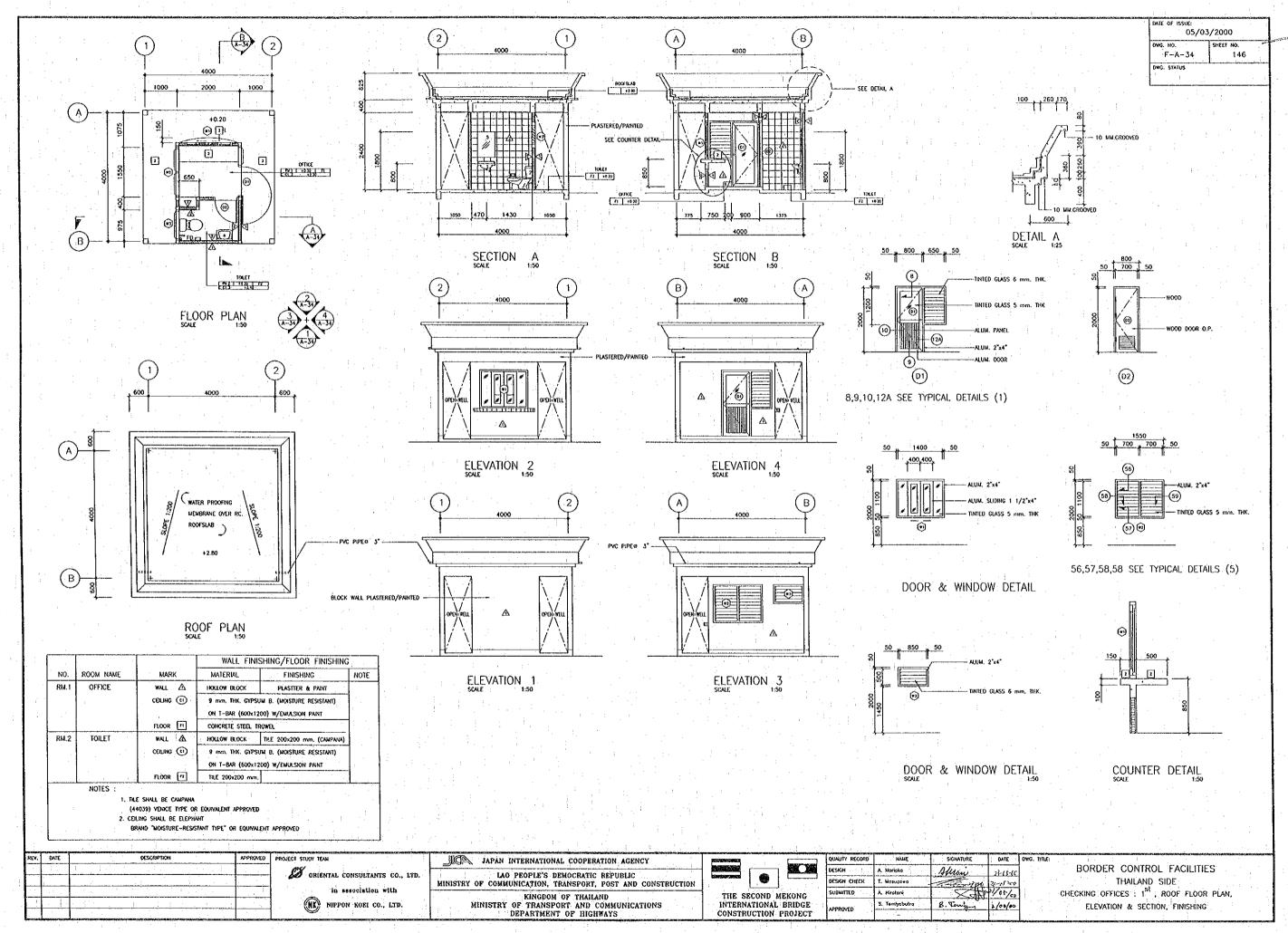
BORDER CONTROL FACILITIES THAILAND SIDE PUBLIC TOILET : ELEVATION 1, 2, 3 AND 4

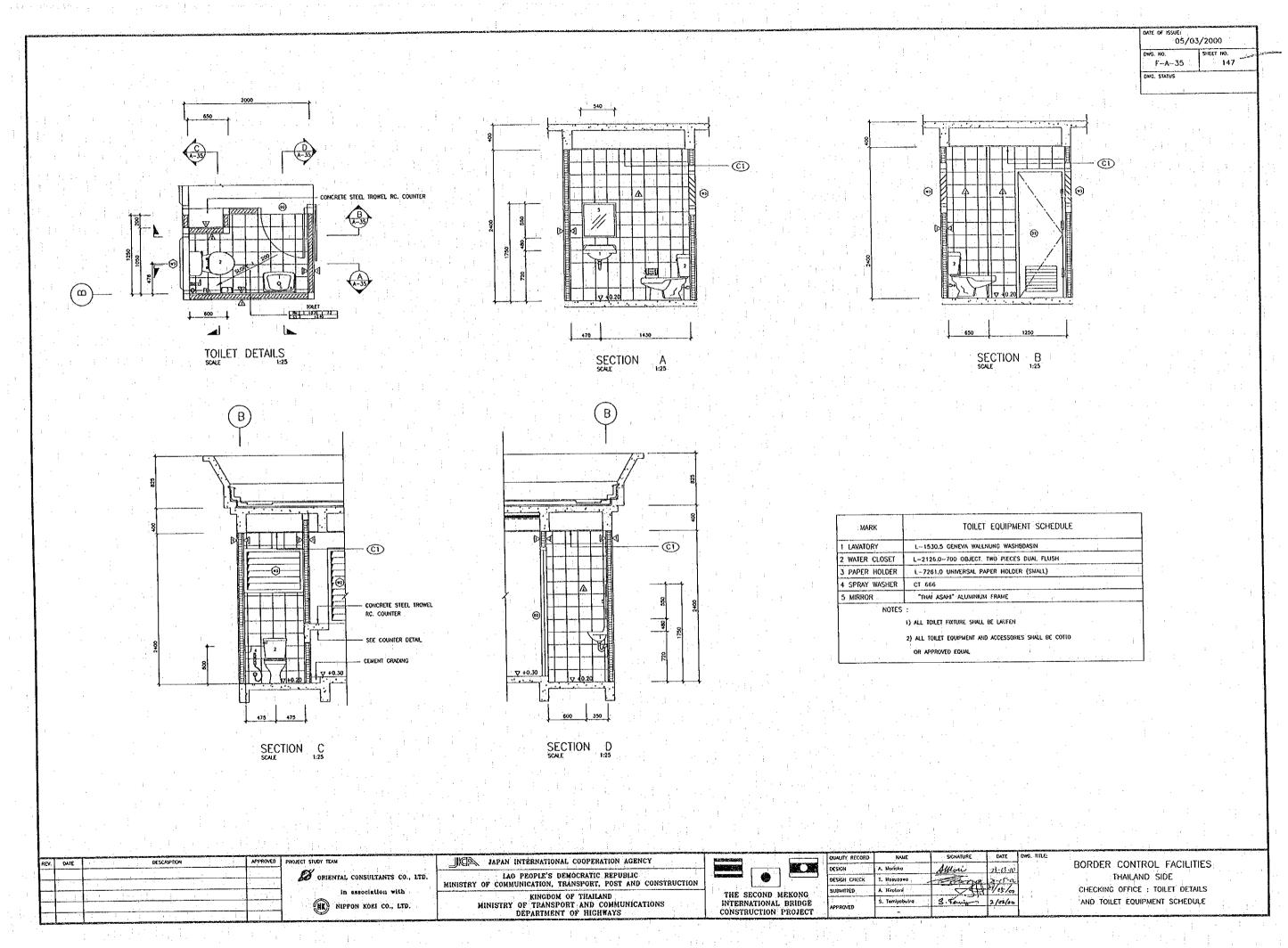




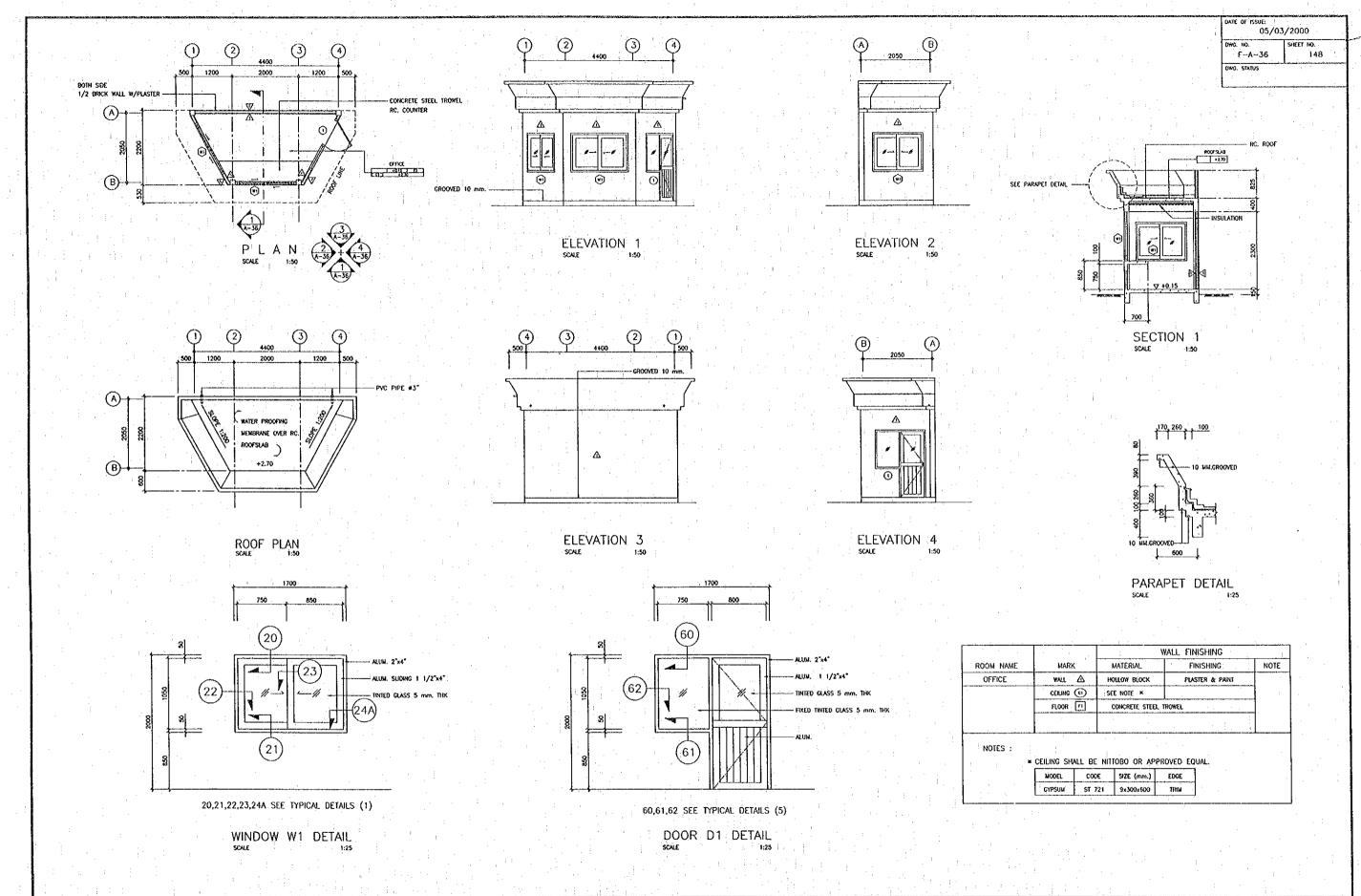
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-¥					HE NIPPON KORI CO., LTD.	MINISTRY OF TRANSPORT AND COMMUNICATIONS	INTERNATIONAL BRIDGE	ASPECTAED	S. Temiyobutra	8. Vernigens	
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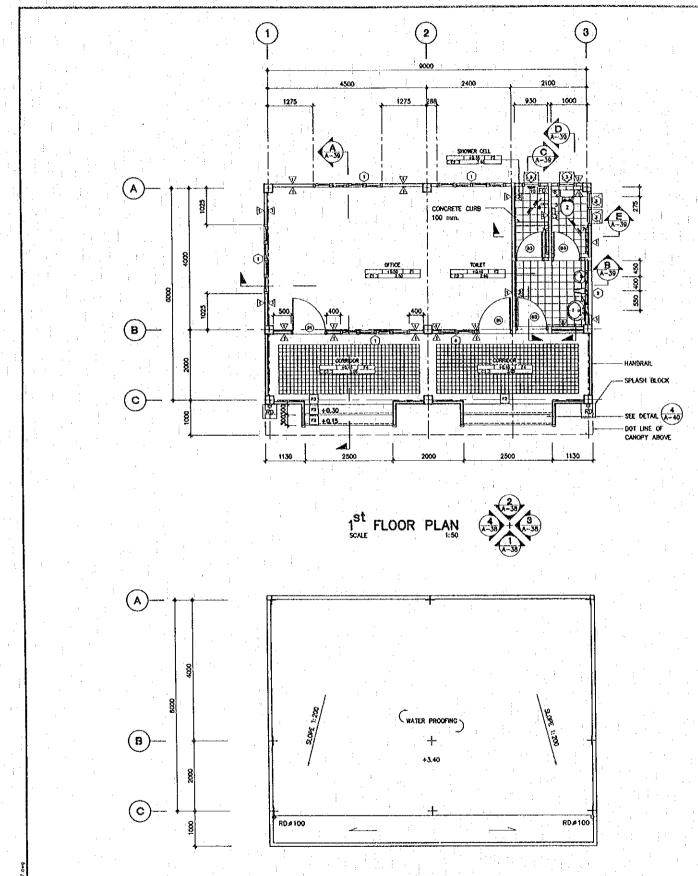
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Line La		<b></b>	<mark>i gi paga ga ya uniya na kunya ing ka na na muga paku na ing kaku na</mark>				DEFAGINENT OF NUMBALS	 consta	OCTON PROJECT		,, <u>,,,,,,,,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,				

	and the second		- S.
	:	WALL FINISHING	
:	MATERIAL	FINISHING	NOTE
Δ	HOLLOW BLOCK	PLASTER & PAINT	
9	SEE NOTE *	1	<b>]</b> :
FI	CONCRETE STEEL	TROWEL	]
	L		<u> </u>

CODE	SFZE (mm.)	EDGE	
ST 721	9x300x600	TROM	· .



ROOF PLAN

LIST OF MATERIALS 1 FLOOR 1.1 VINYL THE "FURTURE DESIGN "SAND" TYPE" 300 x 300 x 2.0 mm. DYNOFLEX 1.2 VINYL SKIRTING 1.6 x 100 mm. DYNOFLEX 1.3 TILES 1.3.1 CERAMIC THE 44021 TABAC 200 x 200 x 5 CAMPANA 1.4 STAIRNOSING BRASS STAIR NOSING W/ PVC. STRIP 2 WALL 2.1 PAINTING 2.1.1 EXTERIOR - ACRYLIC EMULSION JOTHAN , PARMASTIC" 2.1.2 INTERIOR ACRYLIC ENULSION . JOTHAN 2.1.3 WOOD DOOR VANISH "JOTHAN PARMASTIC" 214 WOOD DOOR "JOTHAN PARMASTIC 2.1.5 PARAPET PARMASTIC 2.2 DOOR & WHOOW 2.3 GLAZING COOLGREY OF16 5 mm 2" x 4" HARD WOOD ( TENG WOOD ) FOR GENERAL DOOR 2.4 WOOD DOOR JAMB AND 2"x 5" HARD WOOD ( TENG WOOD) FOR TOLET DOOR 2.5 WOOD DOOR 3.5 mm. THK, PLY WOOD DOOR THAI BANCH 2.6 THES 2.6.1 CERAMIC THE 44021 TABAC 200 x 2000 x 5 CAMPANA 3 CEILING 3.1 COUNG BOARD 3.1.1 GYPSUM BD. : (MOISTURE RESISTANCE TYPE ) 600 X 600 X 9 mm. ELEPHANT 3.1.2 ACOUSTIC BOARD ST-721 FISSURED 600 x 1200 x 15 mm. SQUARE EDGE TYPE NITTORO 3.1.3 THERMAL INSULATION : FIBERGLASS INSULATION SOmm. THK, DENSITY 48 kg/m MICRO FIBER 4 MISCELLANEOUS 4.1 WATER PROOFING : POLYWNY, CHLORID EWATER PROOFING RUBGER MEMBRANE 2.0 mm.THK. YONG THAI RUBBE

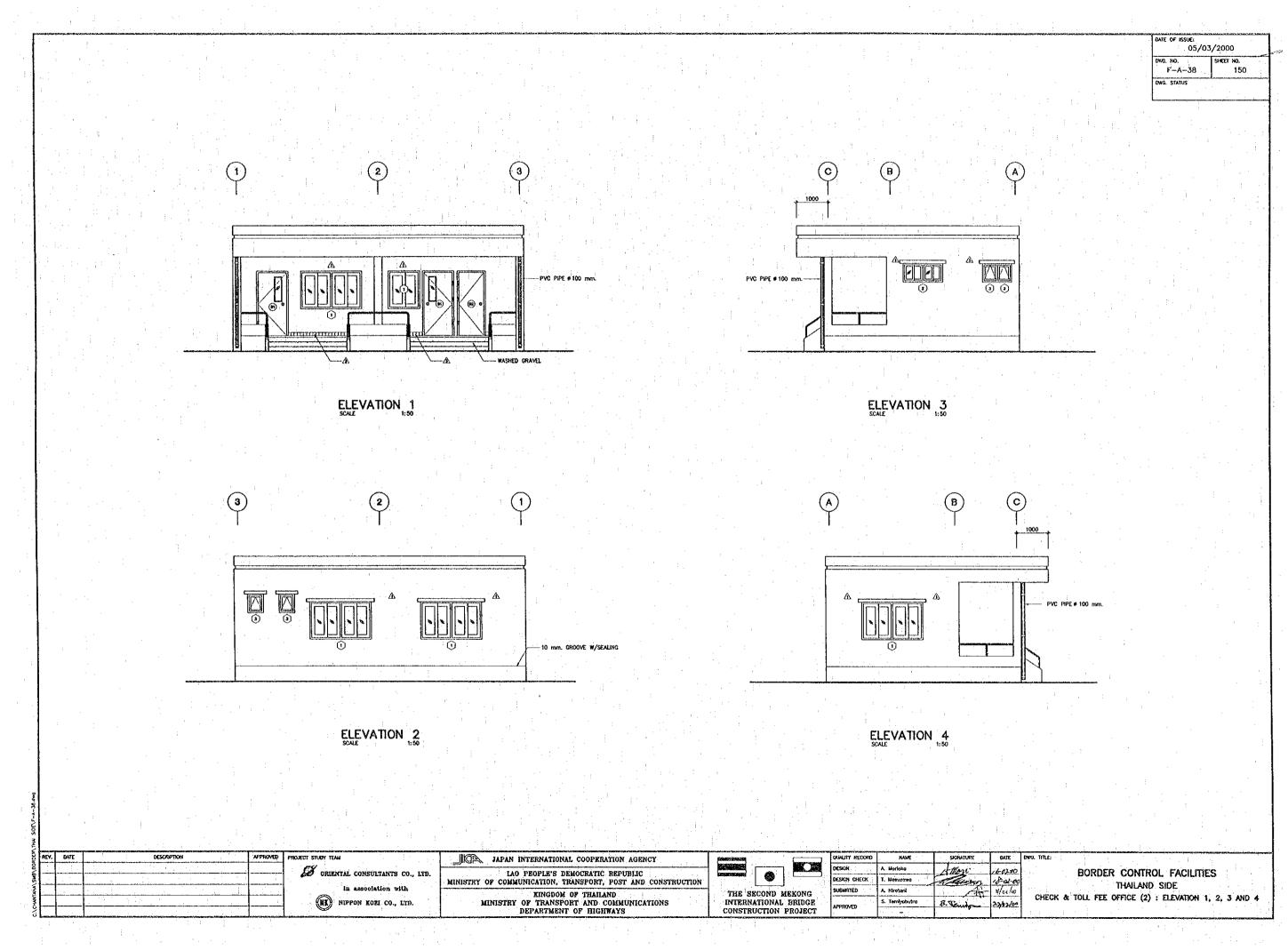
4.4 SANITARY WARES & TOILET ACESSORIES COTTO

		FINISHING S	SCHEDULE	
MARK	DESCRIPTION	SIZE	BRAND	REMARK
· .				
ញ	VINYL TILE	300 x 300 x 2	DYNOFLEX	ан. Алар
53	CERAMIC TILE	200 x 200 x 5	CAMPANA	
EI .	WASHED GRAVEL			
2	GRANITE TILE	100 x 100 x 5	KENZAI	
G	T-BAR ACOUSTIC CEILING BOARD	600x1200x15 mm.	NITTOBO	
(B)	T-BAR GYPSUM BOARD.	600x600x9 mm.	ELPHANT	1 I I I I I I I I I I I I I I I I I I I
i.	(MOISTURE RESISTANCE TYPE)			
٩	CEMENT PLASTER W/PAINT			
$\Delta$	PLASTER W/PAINT			
à	CERAMIC TILE	200 x 200	CAMPANA	
a a	GRANITE TILE	100 x 100	KÉNZAI	
1 - E			di stati i a	

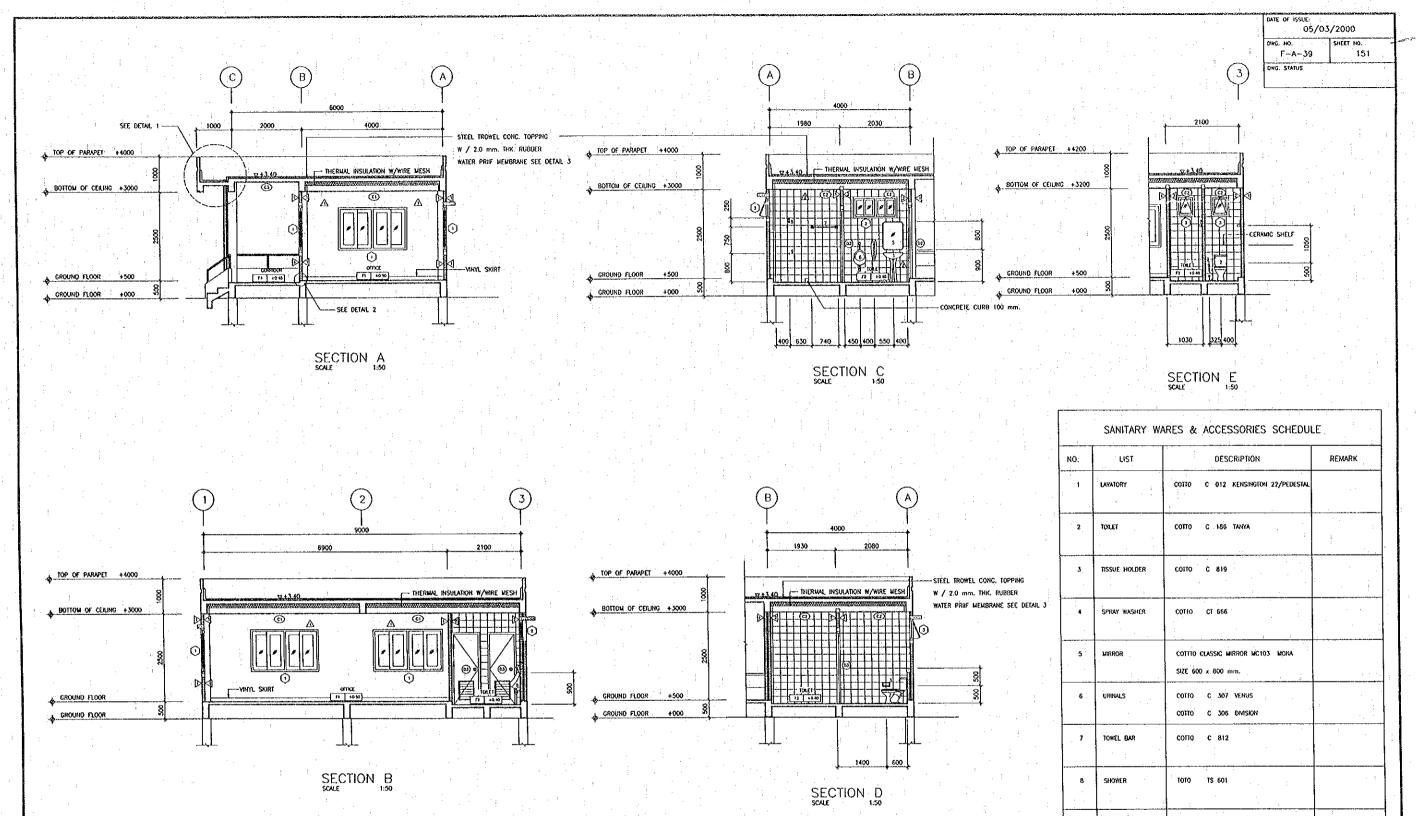
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1		· · · · · · · · · · · · · · · · · · ·						in association with	KINGDOM OF THAILAND		ECOND MEKONG	SUBARTIED	A Hirotan	745	21/02/00	CHECK & TOO
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			*****			1.00			DEPARTMENT OF HIGHWAYS	CONSTR	UCTION PROJECT	AT NOTED	E	0		
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MATERIALS AND I	FINISH SCHEDULE

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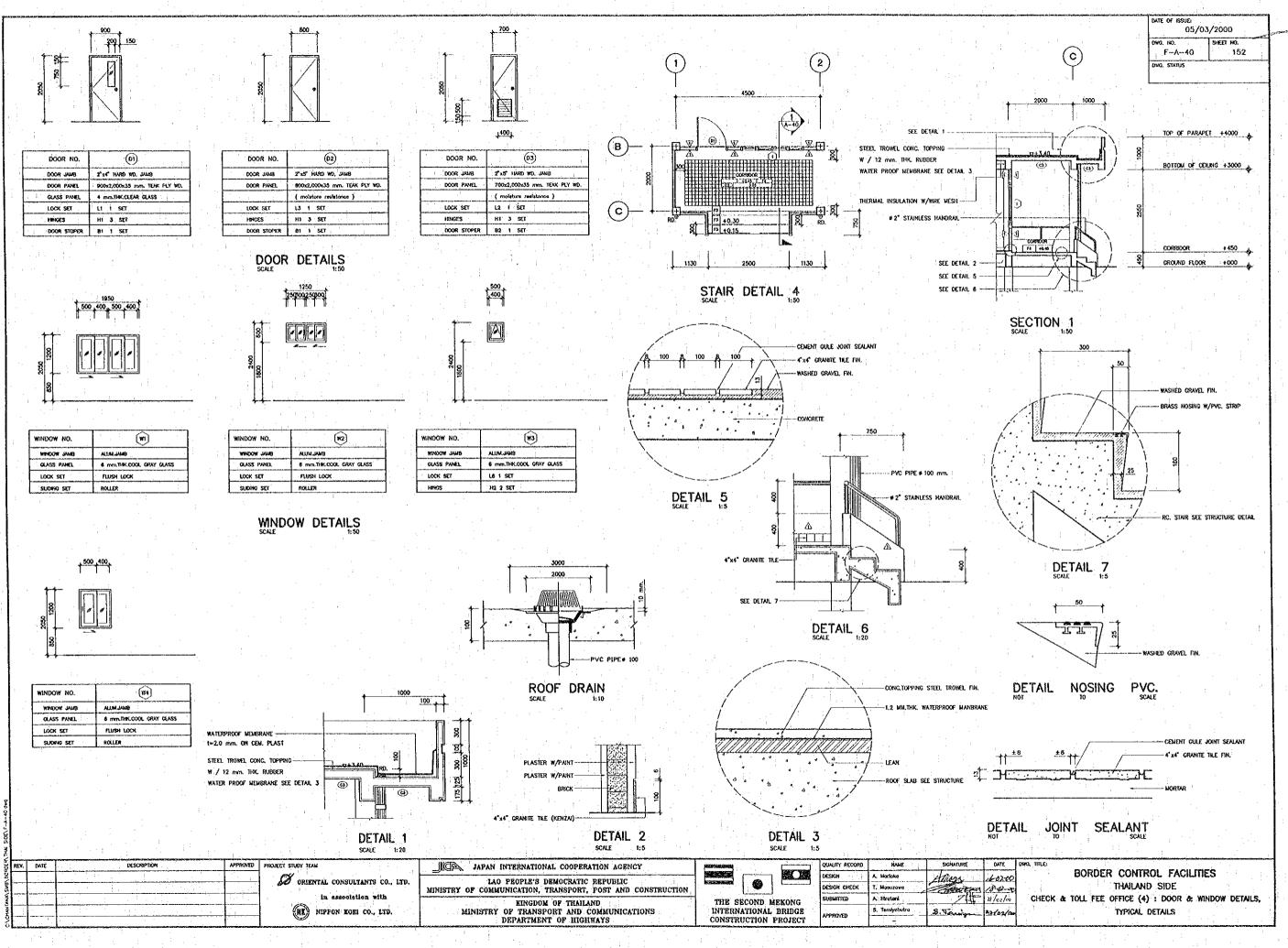


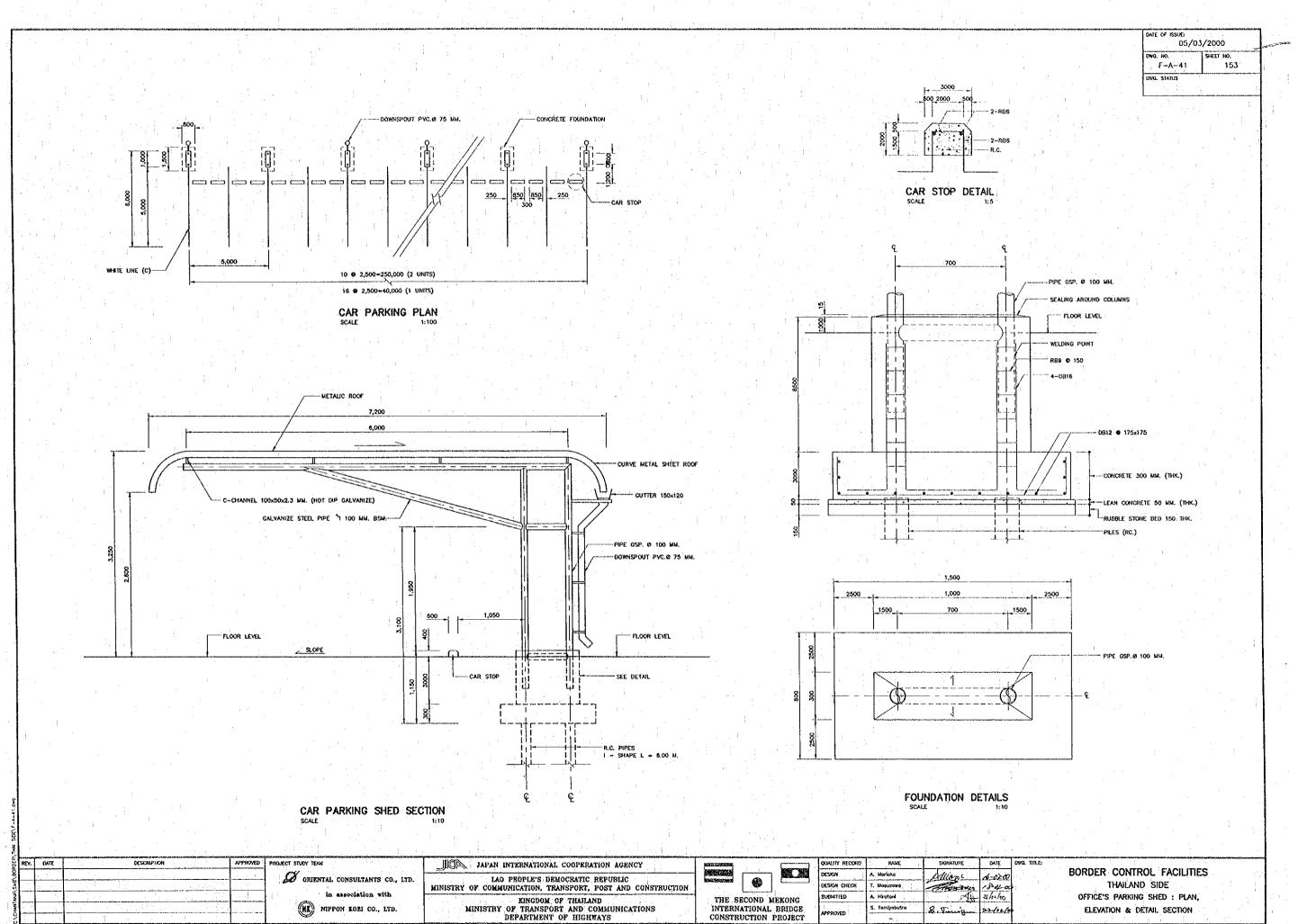
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UST	DESCRIPTION	REMARK
AVATORY	COTTO C 012 KENSINGTON 22/PEDESTAL	
Calet	COTTO C 186 TANYA	1
issue holder	COITO C 819	
opray washer	COTIO CT 666	
ARROR	COTTO CLASSIC MIRROR MC103 MONA SIZE 600 x 800 mm.	e e tra
URINALS	COTTO C 307 VENUS COTTO C 306 DMISION	
TOWEL BAR	сопо с 812	
Shower	TOTO TS 601	e de
FAUCET	COTTO CT 190 STOP VALE	
scap holder	COTTO C 805	
	BORDER CONTROL FACIL THAILAND SIDE K & TOLL FEE OFFICE (3) : SECTION AND SANITARY WARES & ACCESSORIE	N A, B, C, D, E

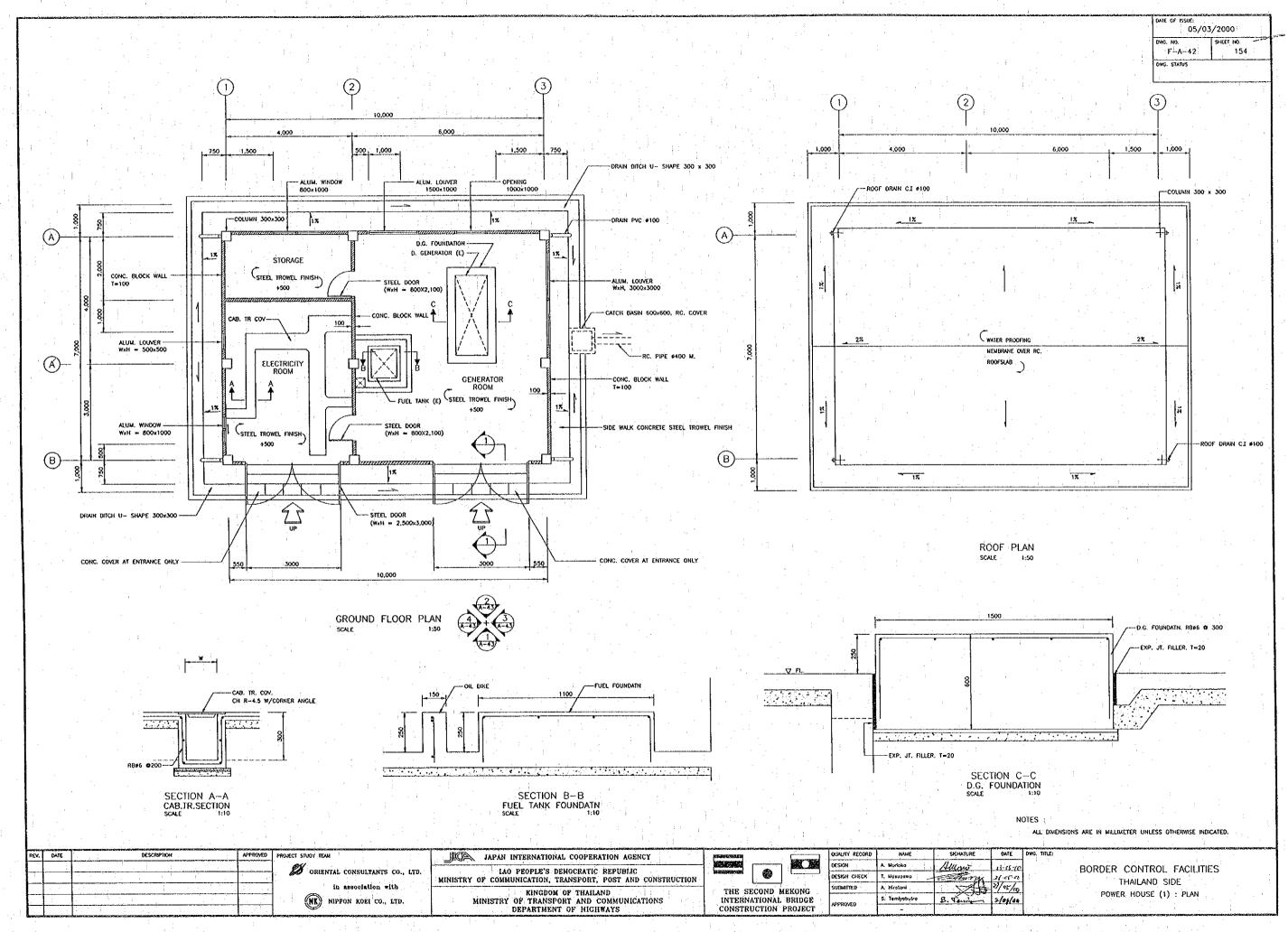
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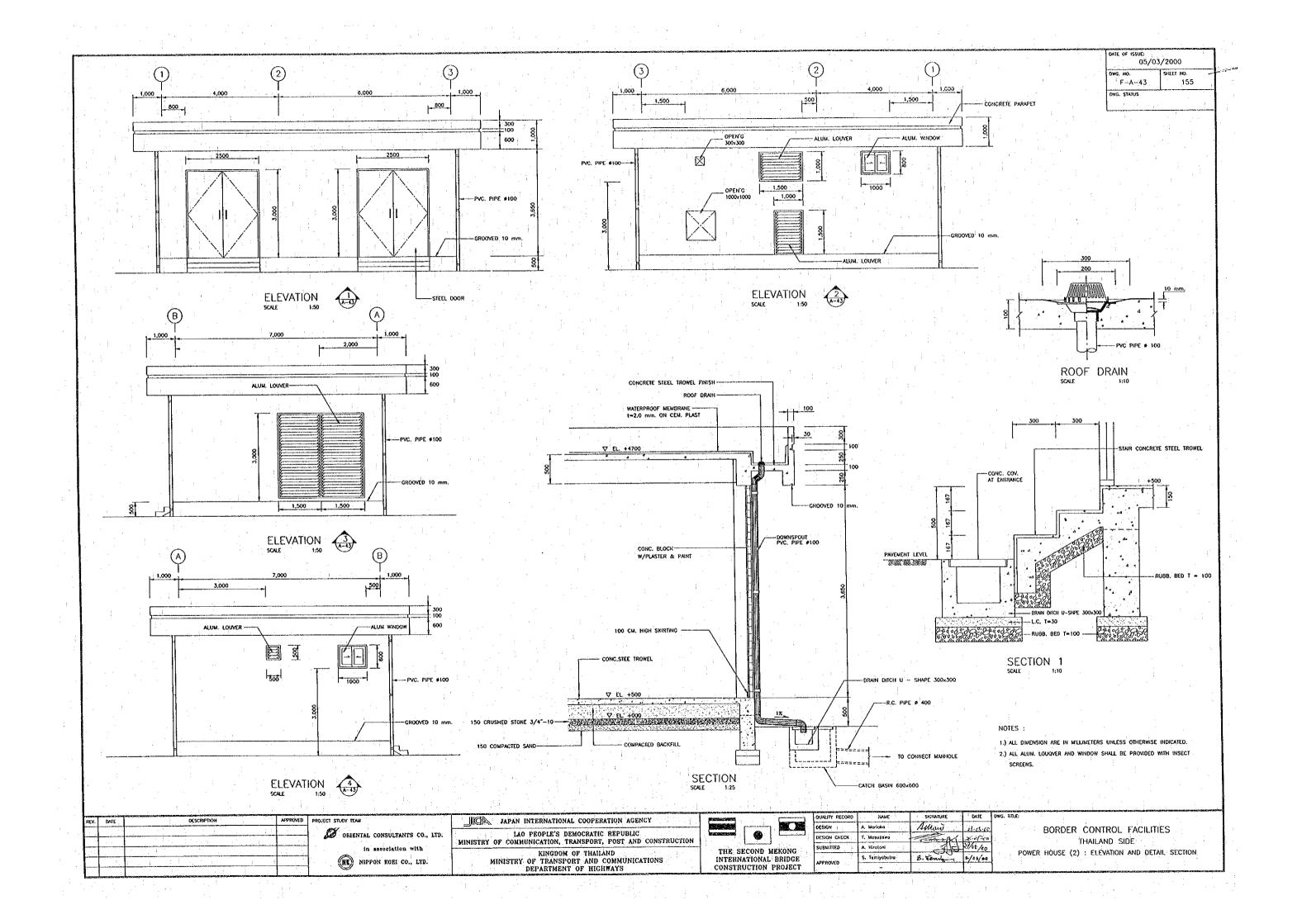
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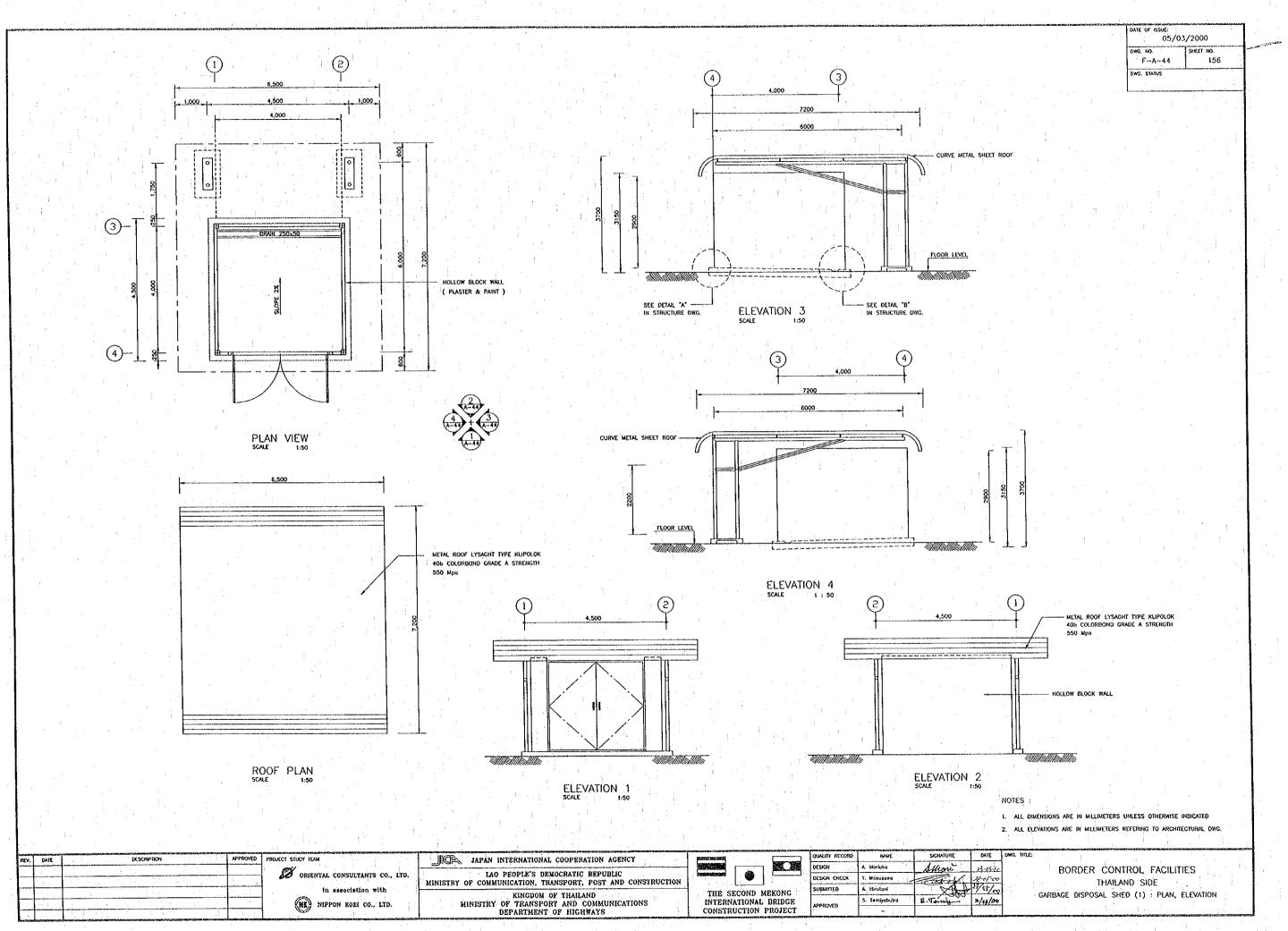




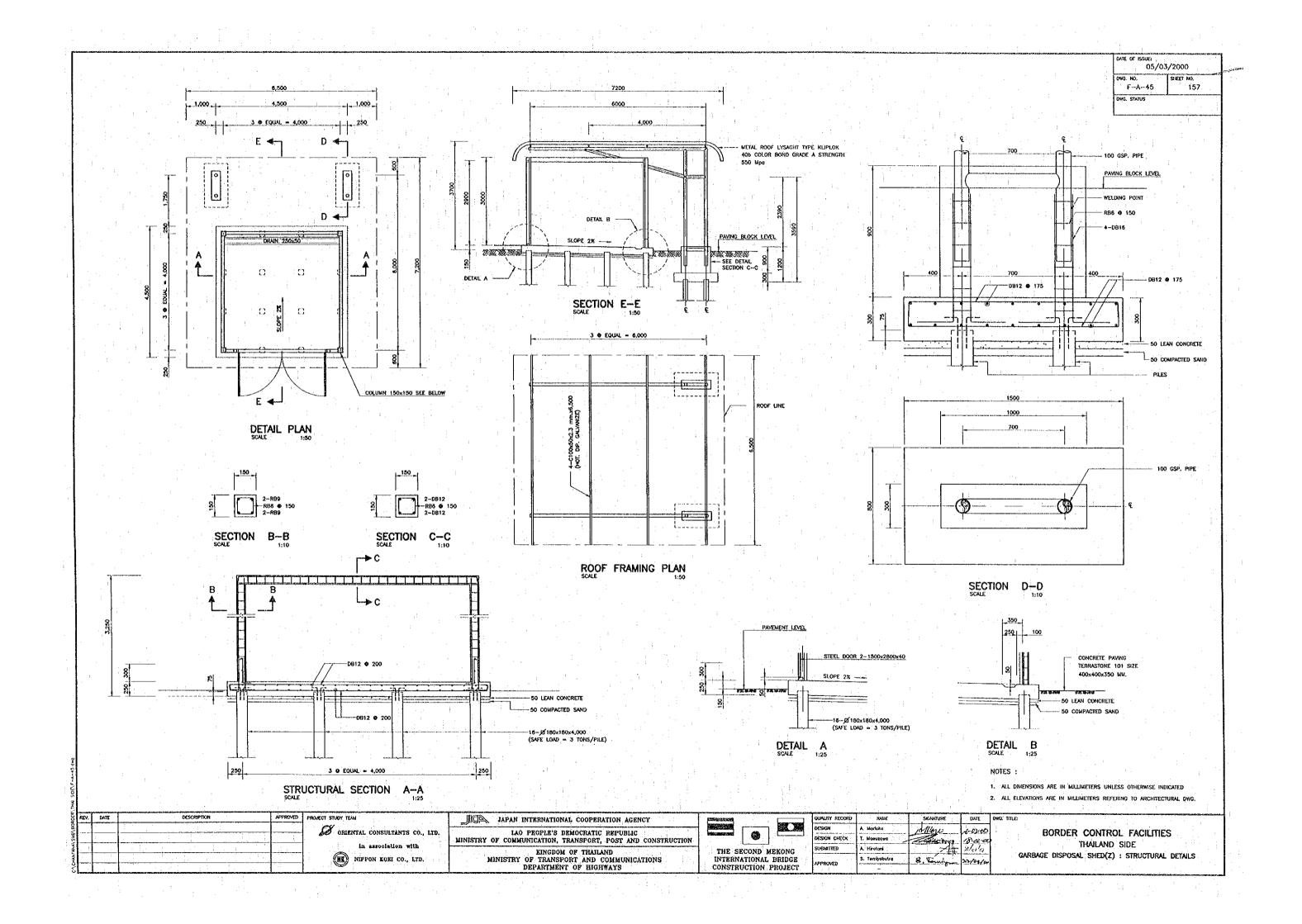
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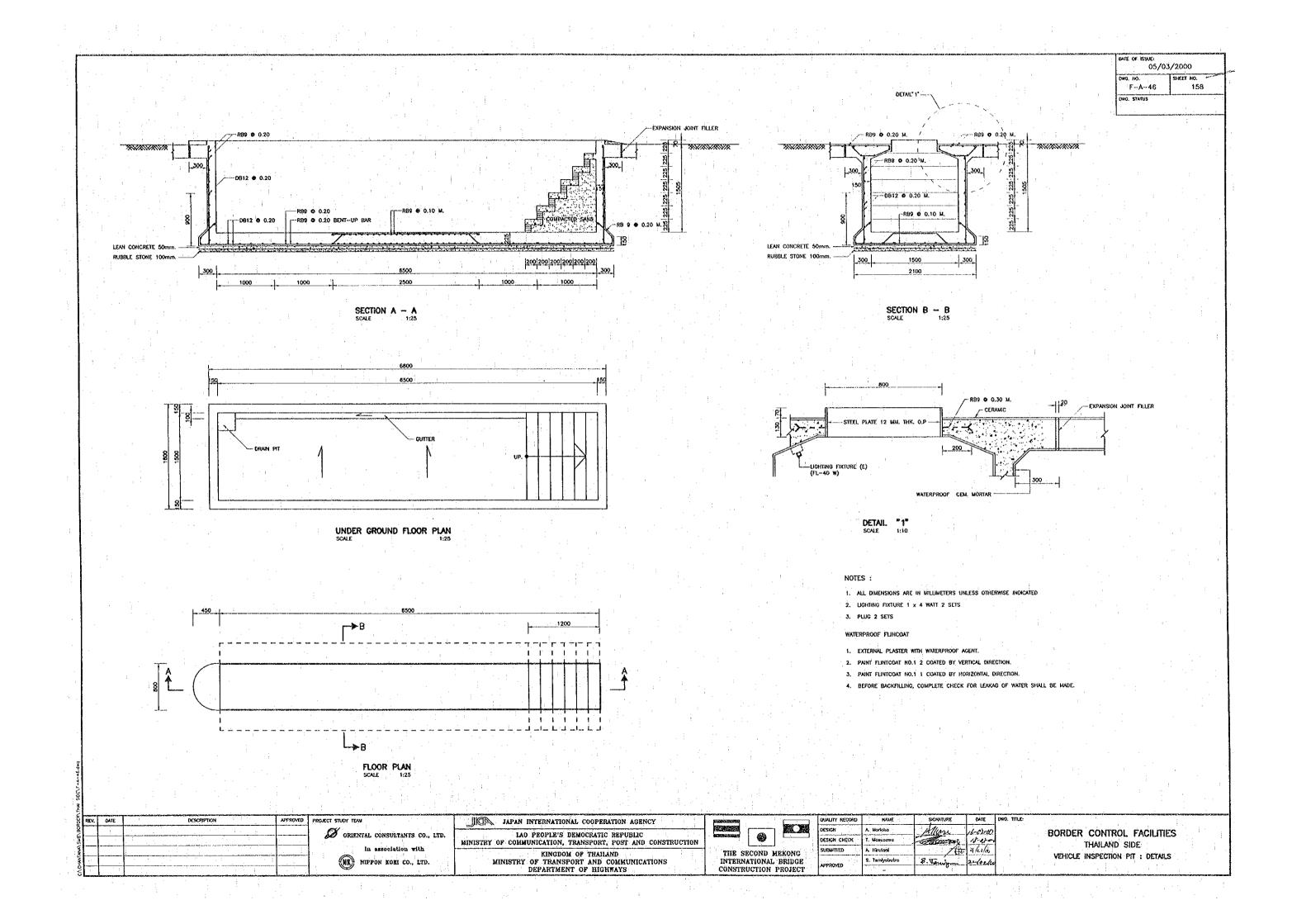


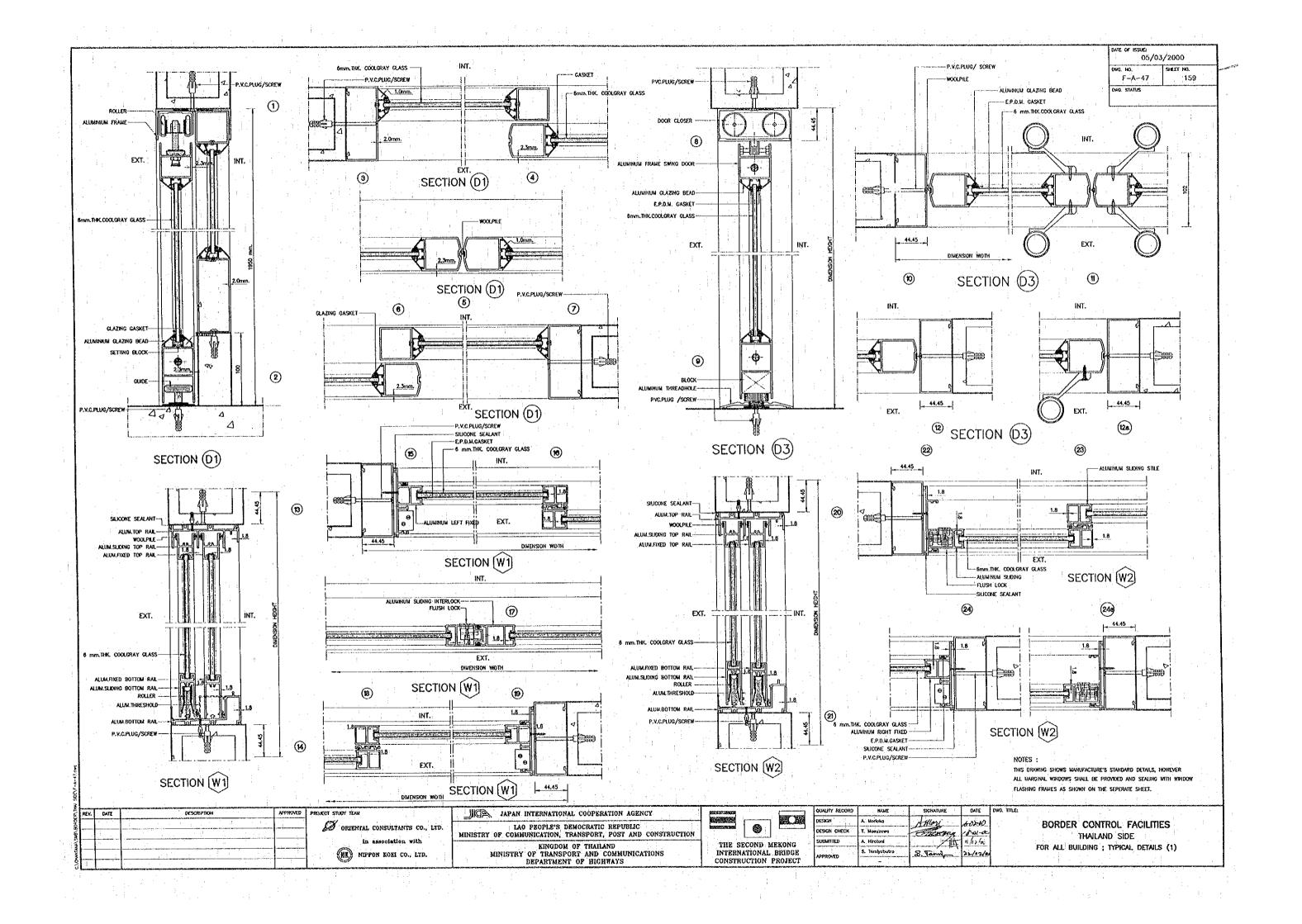


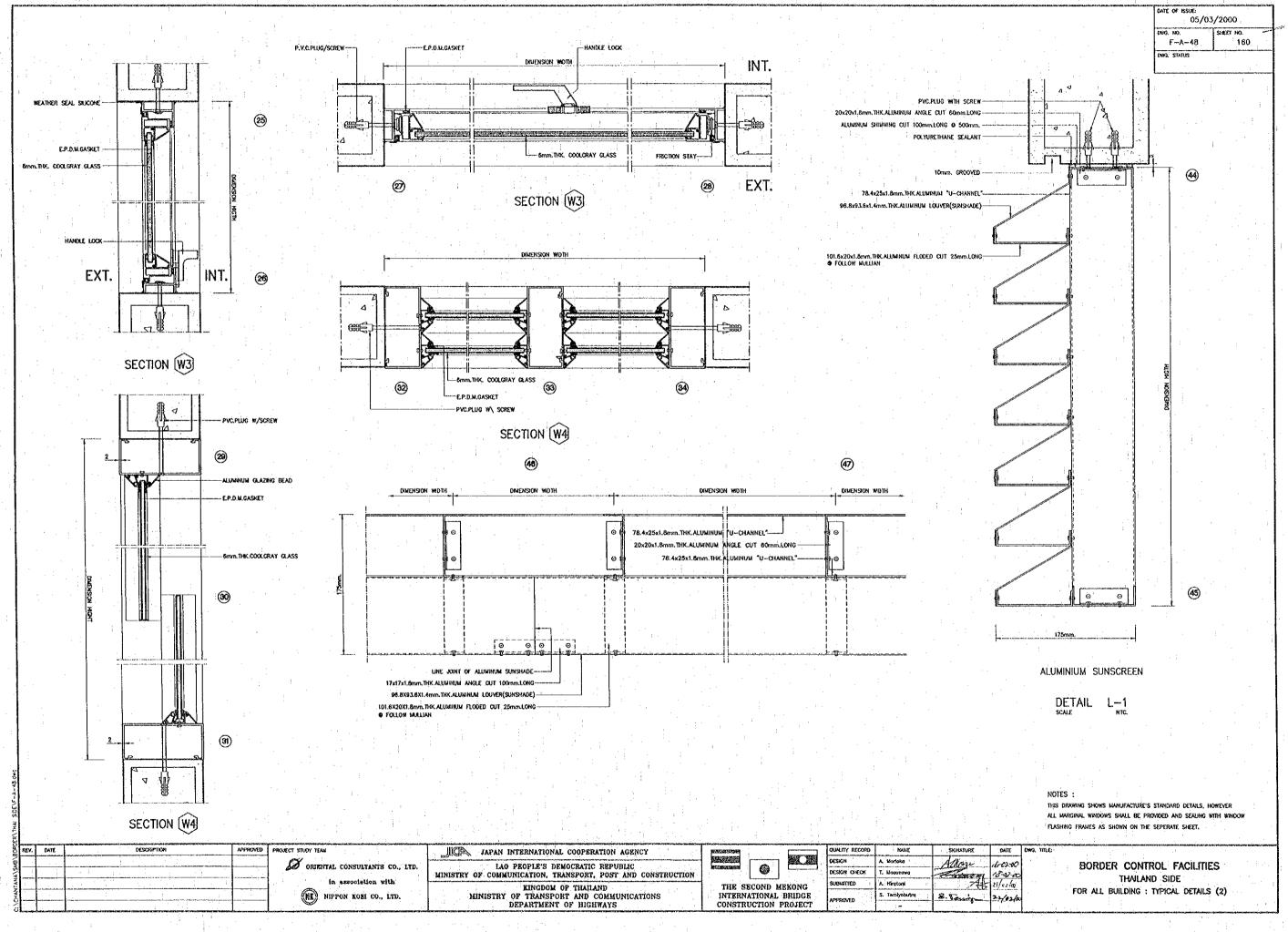


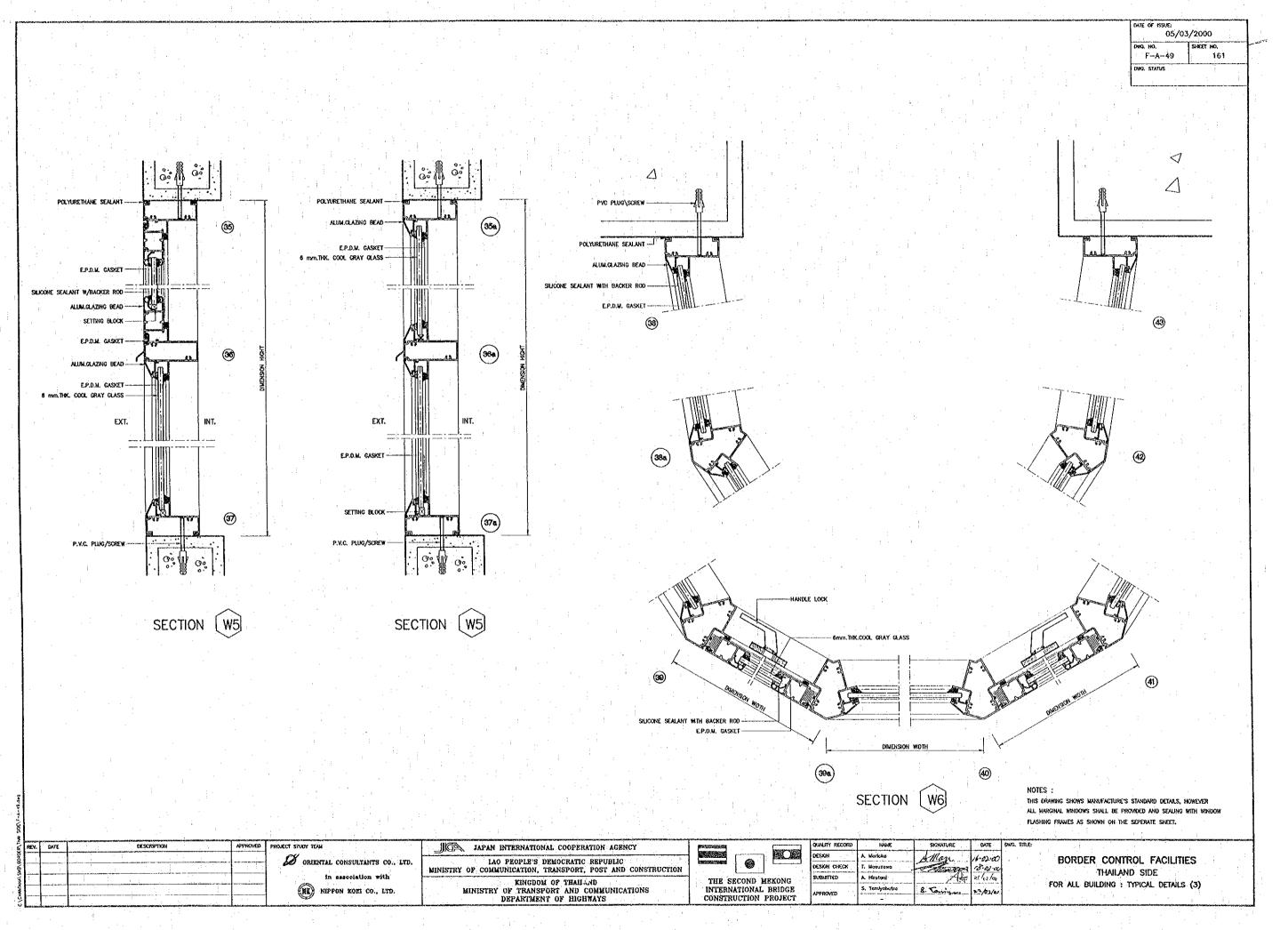
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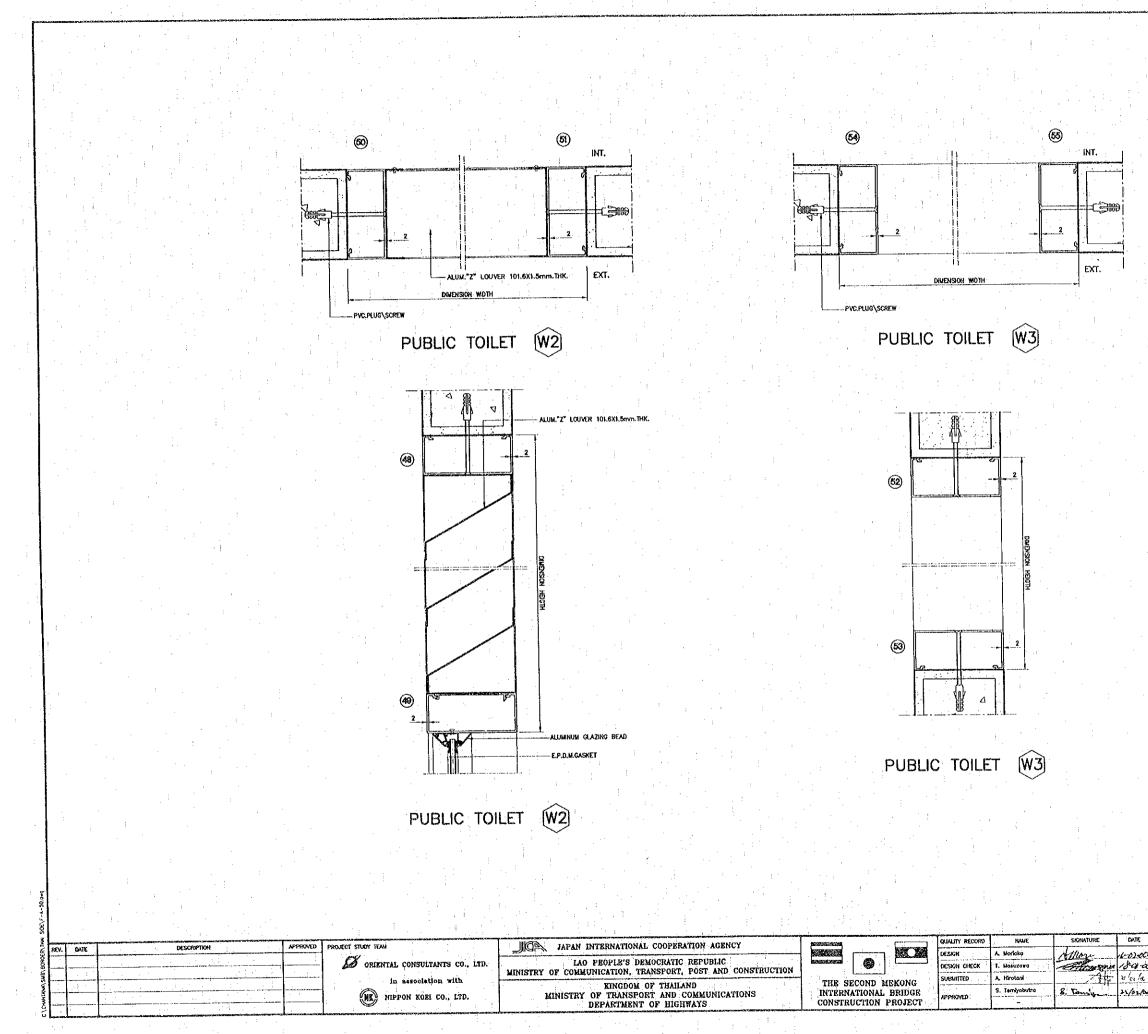




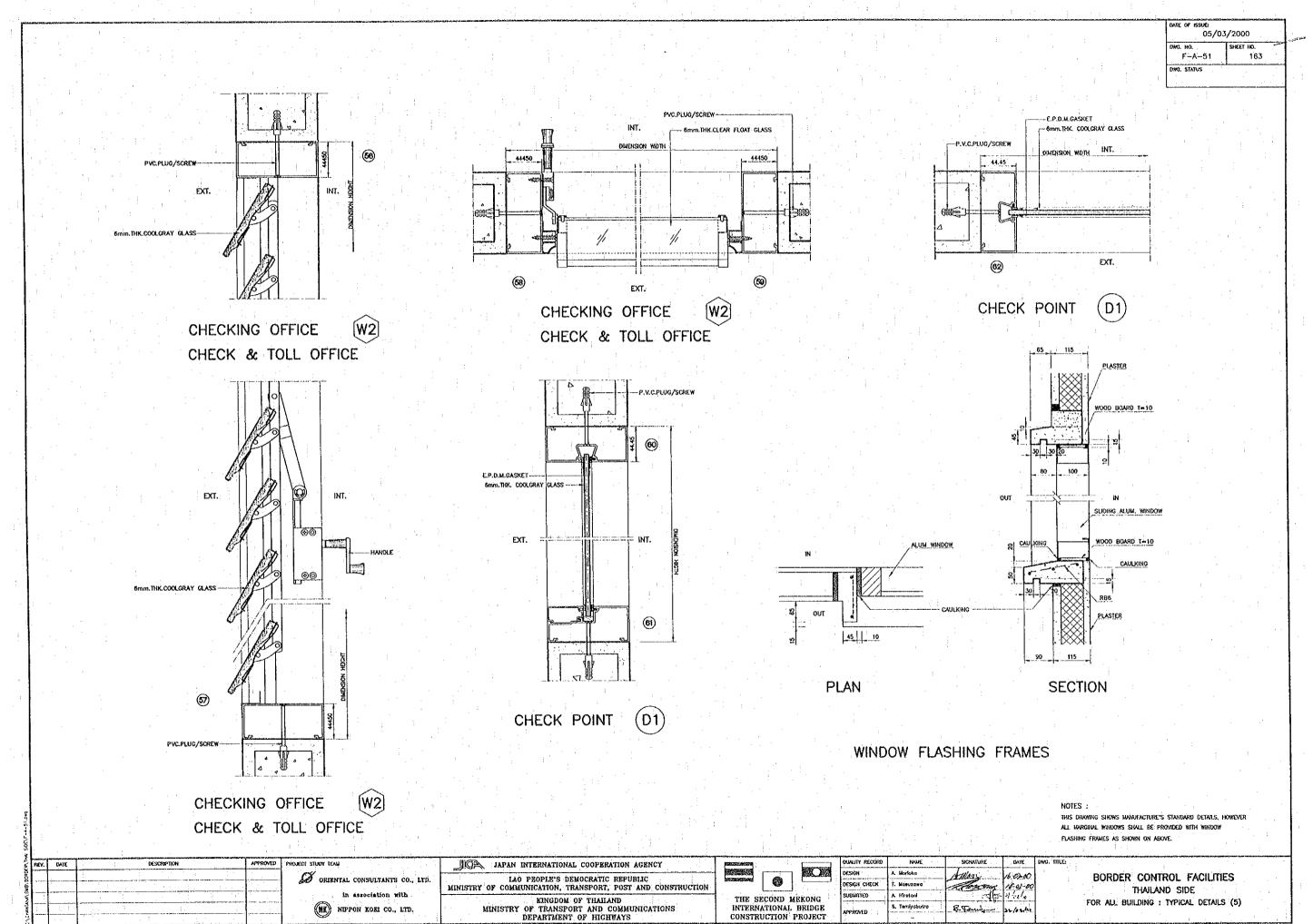


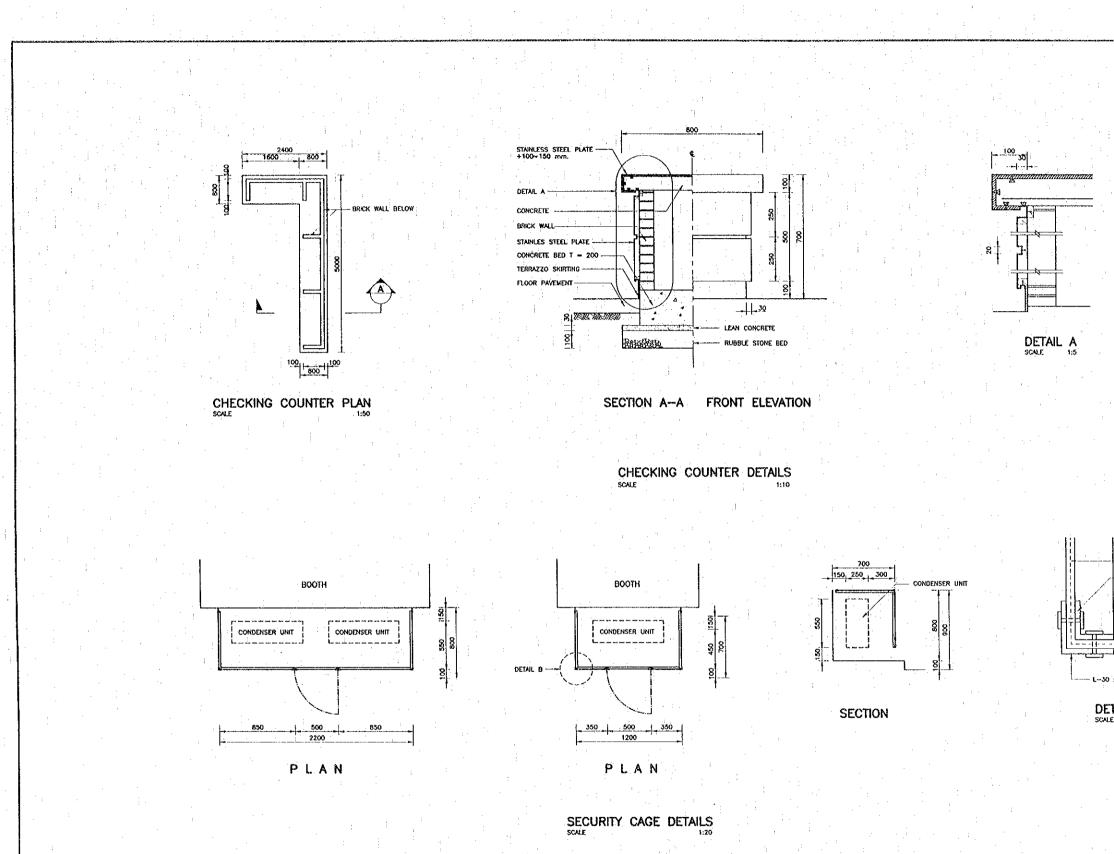






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GALVANIZED STEEL WIRE

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DETAIL B SCALE 1:1

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	ENSION ERMINED STEEL I	ENSION AFFIXED ERMINED BY THE STEEL MATERIAL	ENSION AFFIXED (*) SHA ERMINED BY THE ENGINER STEEL MATERIAL SHALL I	ENSION AFFIXED (+) SHALL BE TE ERMINED BY THE ENGINEER STEEL MATERIAL SHALL BE GALVAR	ERMINED BY THE ENGINEER STEEL MATERIAL SHALL BE GALVANIZED	ension Affixed (+) shall be tentative, which sh ermined by the engineer

THAILAND SIDE MISCELLANEOUS DETAILS

# STRUCTURAL NOTES

#### DESIGN STANDARD

STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, AASHTO-1996 THE STRUCTURAL DESIGN SHALL BE BASED ON THE FOLLOWING CODES: REINFORCED CONCRETE STRUCTURES: AMERICAN CONCRETE INSTITUTE (ACL 318) OR THE ENGINEERING OF THAVAND (EIT) STANDARD STEEL STRUCTURES: AMERICAN INSTITULE OF STEEL CONSTRUCTION (AISC) OR THE ENGINEERING INSTITUTE OF THAILAND (EIT) STANDARD

#### LOAD

DEAD LOAD AND LIVE LOAD SHALL BE CALCULATED IN ACCORDANCE WITH THE EIT CODE OR AMERICAN SOCIETY OF CIVIL ENGINEER (ASCE)

### CONCRETE

CLASS OF CONCRETE AND SPECIFIED CYLENDER COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE AS FOLLOWS: ORDINARY REINFORCED CONCRETE fc' = 240 KG/CM.<sup>2</sup>

• *	LEAN CONCRETE		fot =	150 кс/см. <sup>2</sup>	

### TYPE OF REINFORCING STEEL

HIGH YIELD DEFORMED BARS GRADE SD 40 ACCORDING TO TIS 24-2527 SHALL BE USED FOR ALL BARS WHOSE DIAMETER IS 12 MM. OR GREATER UNLESS OTHERWISE NOTED. MILD STEEL ROUND BARS GRADE SR 24 ACCORDING TO TIS 20-2527 SHALL BE USED FOR BARS WHOSE DWHETER IS 9 MM, OR SMALLER UNLESS OTHERWISE NOTED.

#### CUTTING

BARS SHALL BE SHEARED, FLAME CUTTING SHALL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.

#### ANCHORAGE LENGTH

THE ANCHORAGE LENGTH OF STRAIGHT DEFORMED BARS SHALL BE AT LEAST 40 TIMES OF BAR DIAMETERS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

#### SPLICING

REINFORCING BARS SHALL BE SPLICED BY LAPS. LAP LENGTH SHALL BE EQUAL TO 40 TIMES OF DIAMETERS OF LARGER BAR, UNLESS OTHERWISE SHOWN ON THE DRAWINGS. SPLICING OF BARS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE ENGINEER. BARS DRAWN IN FULL LENGTH (ALSO CALLED CONTINUOUS BARS) SHALL HAVE AS FEW SPLICES AS POSSIBLE. NO MORE THAN 1 BAR IN 3 SHALL BE SPLICED AT THE SAME SECTION, EXCEPT WHERE SHOWN ON THE DRAWINGS.

#### BENDING

BARS SHALL BE COLD BENT AROUND A PIN WITH THE FOLLOWING MINIMUM DIAMETER (D) IN RELATION TO THE DIAWETER OF THE BAR (d):

 $\alpha$  = 6d FOR R89, 0810 , 0812 , 0816 , 0820 , 0825

0 = 86 FOR D828 , D832

## HOOKS

ALL HOOKS, IF NOT SHOWN ON THE DRAWING, SHALL COMPLY WITH ACI STANDARD HOOK AS SET FORTH BELLOW :

# MAIN REINFORCING BAR HOOK DIMENSIONS (IN METER)

DETAILING		-		
DIMENSION A		180	90.400	
	BAR SIZE	A -		٨
	RB9	0.12	0.08	0.15
4d OR	0810	0.12	0.08	0.20
0.065 MIN	0812	0.15	0,10	0.20
DETAILING	DB16	0.20	0.13	0.25
DIMENSION	DB20	0.24	0.15	0.30
	0B25	0.30	0.20	0.40
v 90'4)	0928	0.40	0.28	0.50
	DB32	0.45	0.32	0.55

### STIRRUP AND THE HOOK DIMENSIONS (IN METER)

·	DETAILING MIN DIMENSION 60			· : :	
- <b>1</b>			135	HOOK	<b>BOLHOOK</b>
28		BAR SIZE	Α.	H APPROX	A
DIMENSION		RB6	0.05	0.05	0.06
비용		R59	0.09	0.08	0.09
<u>.</u>		D810	0.10	0.10	0.10
10 D	C BEAM	D812	0.12	0,10	0.12
	l i≨ n	DB16	0.16	0.15	0.16
Š.	8 11135	DB20	0.20	0.18	0.20
- <b>I</b>	B S T	DB25	0.25	0.22	0.25
DETAUNG				·	

#### SPACING

CLEAR HORIZONTAL DISTANCE BETWEEN BARS OR PAIR OF BARS SHALL BE AT LEAST 40 MM. CLEAR VERTICAL DISTANCE BETWEEN INDIVIDUAL BARS SHALL BE AT LEAST 25 MM. CLEAR VERTICAL DISTANCE BETWEEN PAIR OF BARS SHALL BE AT LEAST 40 MM.

### CONCRETE COVER

Ġ BEAM

UNLESS	NOTED ON THE DRAWINGS THE FOLLOWING MINIMUM CONCRETE CO	OVER	
	FACE OF CONCRETE TO FACE OF BAR) SHALL BE PROVIDED:	:	
	BOTTOM OF ALL PILE CAPS,	ં ૧૦	СΜ,
, i	SIDE AND TOP OF PILE CAPS.	_'4 C	СМ,
	SIDE AND TOP OF ALL COLUMNS	4 0	CM.
	TOP OF ALL SLABS.	4 (	ĊМ.
- E.	BOTTOM OF ALL SLABS.	2.5 0	ж,
	TOP OF STAIRS AND STAIR SLABS.	2.50	ЭΜ.
	SIDE AND BOTTOM OF STAIRS AND STAIR SLABS.	2.5 0	ж.

#### CHAMFERING

ALE EXPOSED CONCRETE CORNERS SHALL BE 2.0 CM. CHAMFER UNLESS OTHERWISE NOTED.

#### CONCRETE EXPOSED TO SEA WAT

1, PILE, FOUNDATION AND PIER EXPOS CEMENT TYPE X . THE CLEAR DISTAN FACE OF REINFORCEMENT (CLEAR CO SHALL NOT BE PERMITTED WITHIN TH AND HIGHEST LEVEL AS DETERMINED CONTACT WITH CONCRETE FOR A PER

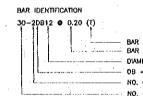
2. DEPOSITING CONCRETE UNDER WATER BY THE ENGINEER DURING OPERATION

#### STRUCTURAL STEEL

- 1. ALL STRUCTURAL STEEL SHAPES SHALL BE OF STRUCTURAL STEEL WITH A MINIMUM YIELD STRENGTH
- 2. ALL STRUCTURAL STEEL PREFABR
- MENTIONED IN THE SPECIFICATION 3. ALL ANCHOR BOLTS SHALL BE GA
- 4. ALL WELDING SYMBOLS ARE IN A
- 5. SIZE, INCREMENT LENGTH AND P

### STRUCTURAL SYMBOLS

	SECTION THROUGH REA
	SECTION THROUGH PLA
etterter a	SECTION THROUGH STR
	SECTION THROUGH TIME
COMPLEXING B	SECTION THROUGH ASP
Section 20	SECTION THROUGH SAN
·	BAR AS SHOWN ON CR
•	BAR BENT PERPENDICU
	BAR LAP (CHOICE OF I
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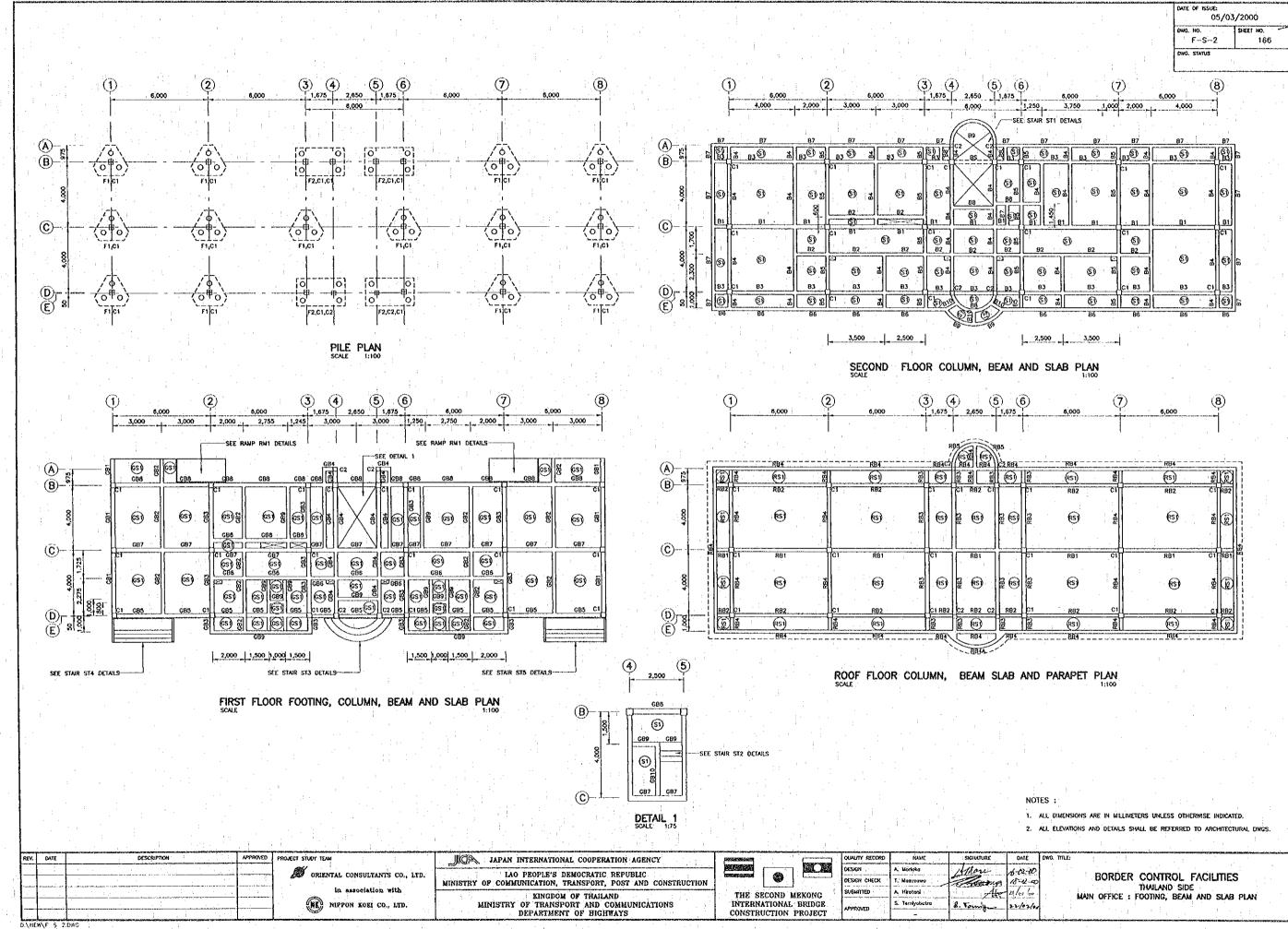
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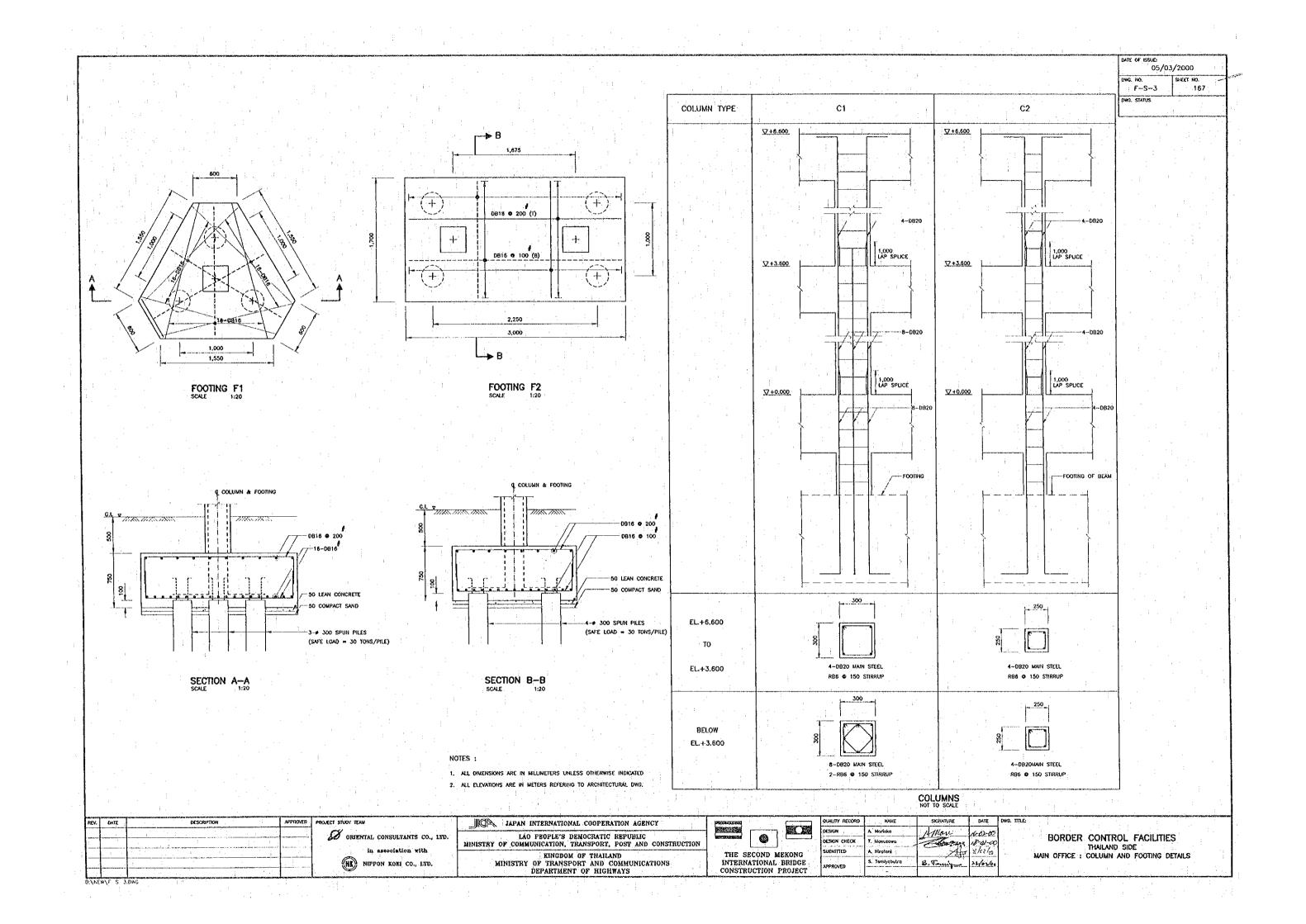
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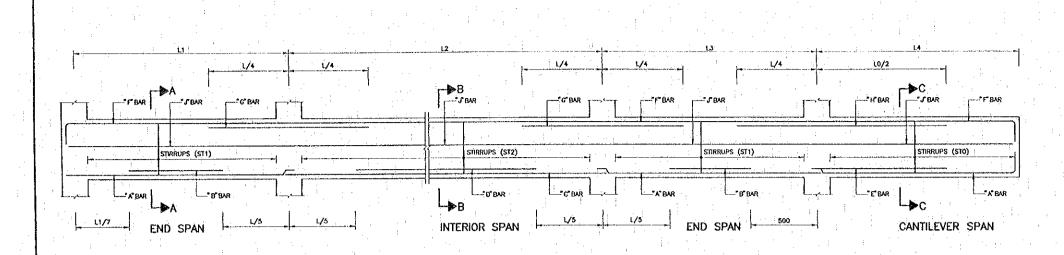


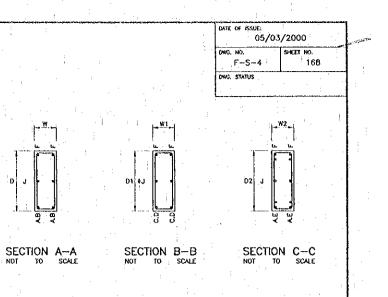
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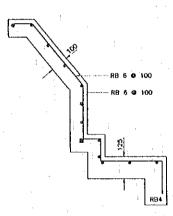
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GB1	+0.00	250	500	250	500	250	500	2D820	-	2-0920		-	2-0B20	-	-		R890150	R89@150	RB9 <b>0</b> 150	
G82	+0.00	200	450	200	450	200	450	2-0B16	-	2-DB16	-		2-0820		+	-	RB90150	R890150	R89 <b>0</b> 150	
683	+0.00	250	500	250	500	250	500	3-0820		3-0820		-	3-DB16	-	-	-	R890150	R69@150	R899150	
G84												:			:	:			: 	SEE DWG. NO. MOB-ST
G85	+0.00	250	500	250	500	-	-	2-D920	1-0820	2-0920	1-0920	·	2-D825	0823		~		R89@100	R690100	·
CB6	+0.00	200	450	200	450	-		2-0920	·· .·	2-0820	- :	-	20920		·		-	R890150	RB9@150	
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81	+3.60	250	500	250	500	200	400	2-0816	-	2-0925	-	-	2-D825	20825	2~DB25	-	RB90150	R890100	R890100	SEE DWG. NO. MOB-S
D2	+3.60	200	400	200	400	:-		2~0820	-	2-DB20	-	:	3-0820	-		-	-	R896100	R89 <b>0</b> 100	SEE DWG. NO. MOB-S
B3	+3.60	200	400	200	400	200	400	3-D920		3-0620	-		3-0920	-	-	~	RB90150	R890150	RB9 <b>0</b> 150	SEE DWG. NO. MOB-S
B4	+3.50	200	400	200	400	200	400	30B20	-	3-D820	· -	-	3-0820	-		· -	R89 <b>0</b> 100	R89\$100	8899100	SEE DWG, NO. MOB-S
85	+3.60	200	400	200	400	200	400	3-D820	-	3-0820		-	2-0916	-	-	-	R890100	R890100	R890100	-
88	+3.60	200	400	200	400	200	400	3-0820		3D920	-	-	2D820	DB2Q	-		R890150	R890150	RB90150	SEE DWG. NO. MOB-S
87	+3.60	200	400	200	· 400	200	400	2-DB16	-	2-0816	-	-	2-0815	-	· •	-	R89@150	RB90150	RB9@150	-
88	+3.60	200	400	200	400	200	400	2-D916	. –	2-0816	-	÷	2-0915	- :	-	-	R890150	R890150	R890150	SEE DWG. NO. MOB-S
63	+3.60	200	400	200	400	200	400	3-0820	_	3-0820	-		2D820	-	-	-	RB90150	R890150	R890150	SEE DWG. NO. MOB-S
B10	+3.60	200	300	200	300	200	300	2-D916	-	-	-	-	2-0916	-	-	· -	RB90150	R89@100	RB90100	SEE DWG. NO. MOB-S
RBI	+6.60	200	400	: 200	400	200	400	2-0820	0820	2-0820	0820	-	2-D820	0620	0920	-	R890100	R89@100	RB90100	SEE DWG. NO. MOB-S
RB2	+6.60	200	400	200	400	200	400	2~DB20	-	2D020	-	-	2-D820	0820			RB9@100	R89@100	R890100	SEE DWG, NO, MOB-S
RB3	+5.60	250	400	250	400	250	400	2~D820	-	2-0820	-	-	2-DB25	0825	D825	-	R890100	R890100	R890100	SEE DWG. NO. MOB-S
R84	+6.60	200	400	200	400	200	400	2~DB16		2-0816	1.4	-	2~0816	- :	1 H	-	R890100	R890100	R89@100	SEE DWG. NO. MOB-S
RB4'	+6.60	200	400	200	400	200	400	2-D815	DB16	2DB16	DB16	- ,	2-0816	DB16	OB18	-	RB90100	RB90100	R890100	SEE DWG. NO. MOB-S
R85	+6,60	200	400	200	400	200	400	2-DB20	-	2-0820	_ :	-	2~0820	: _ ·		-	RB90100	R890100	R890100	SEE DWG. NO. MOB-S
R86	+6.60	200	400	200	400	200	400	2-0820	1 - 1	2-0920		~	2-D820	-		· :	R890100	RB90100	RB90100	SEE DWG. NO. MOB-S

TYPICAL BEAM DETAILS

L = LONGER SPAN OF THE ADJACENT SPANS







# REINFORCED CONCRETE WALL DETAIL

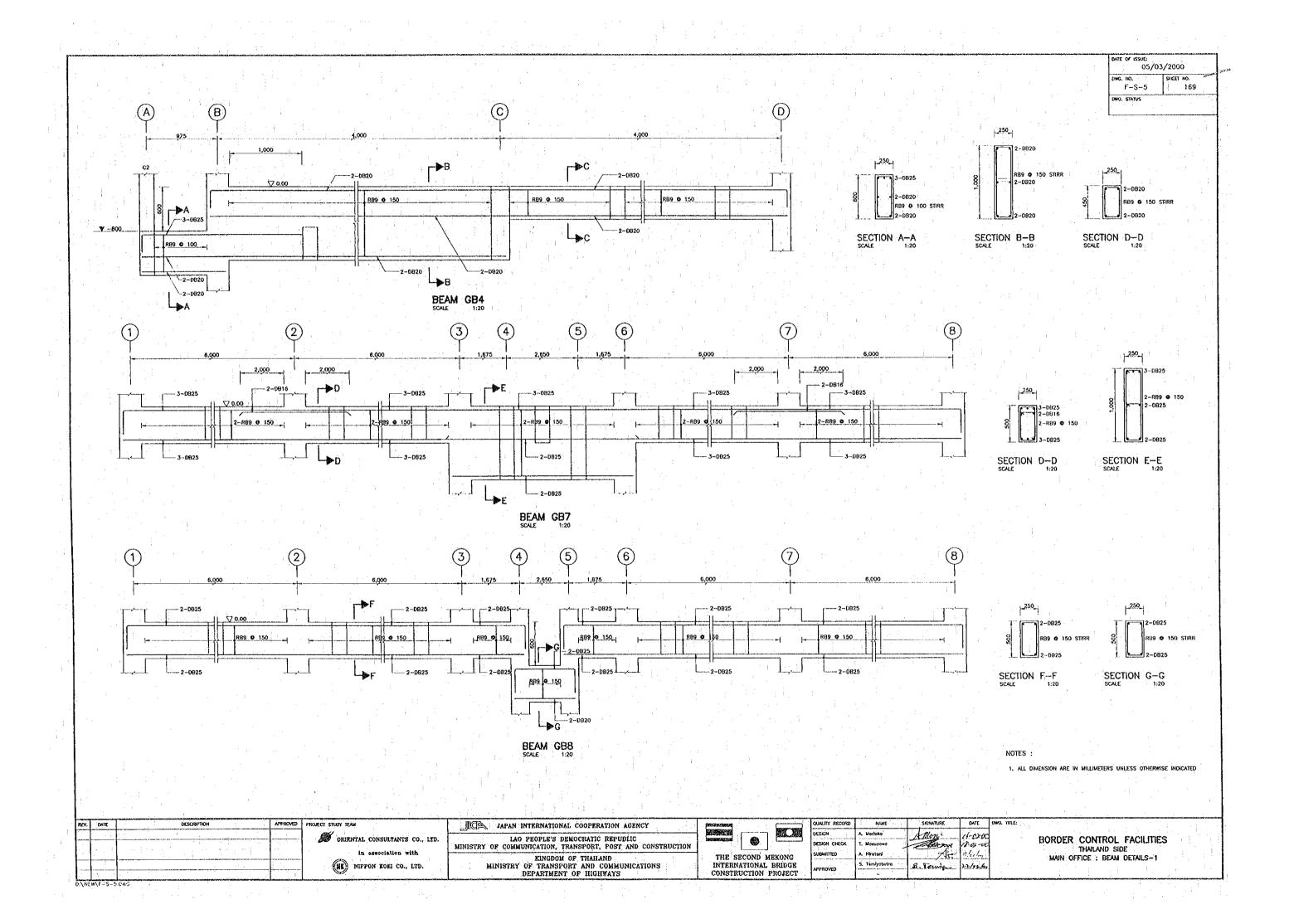
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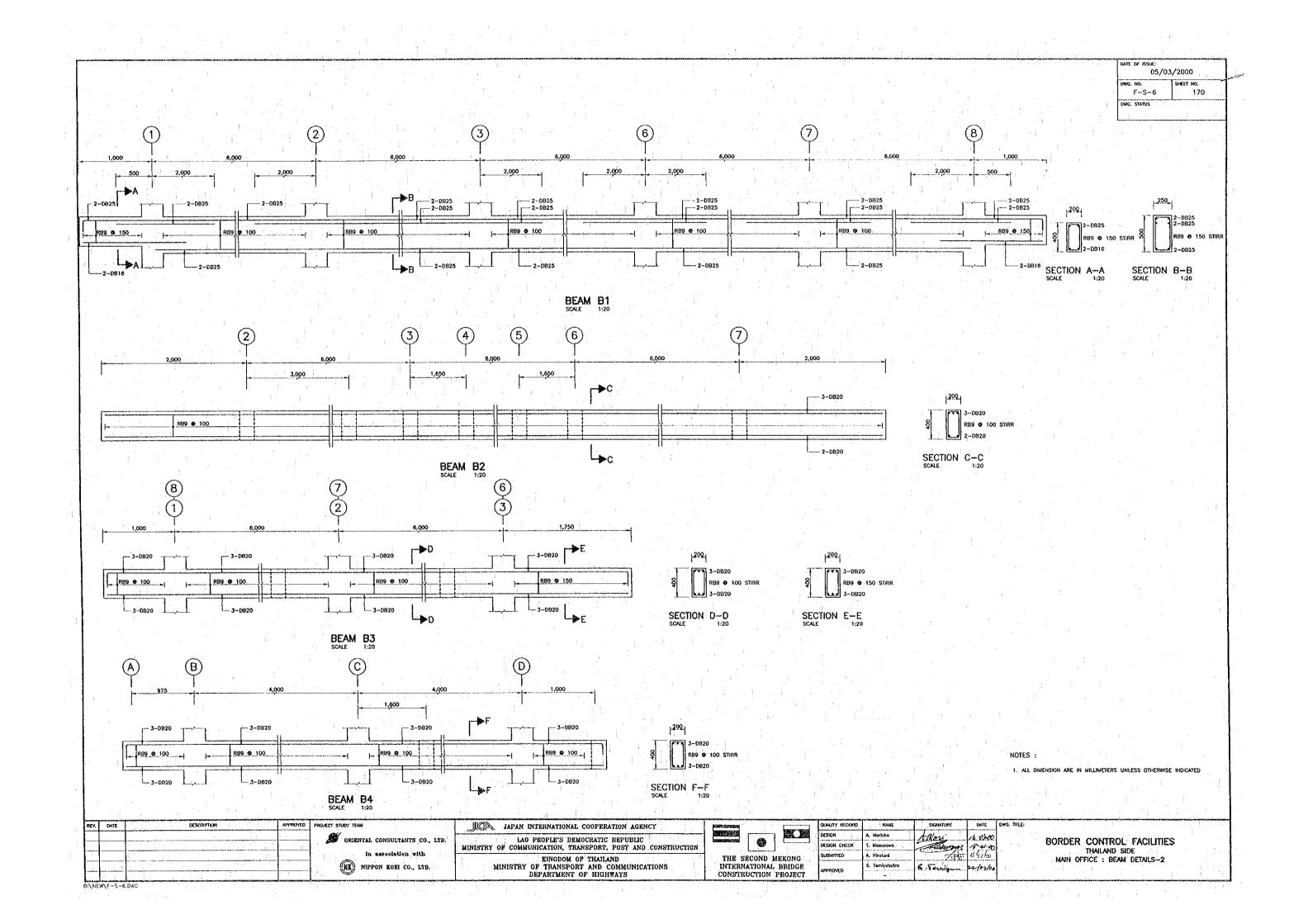
# NOTES :

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- ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED NO DIMENSION SHALL BE SCALED.
   ALL ELEVATIONS ARE IN METERS REFERING TO ARCHITECTURAL DWGS.
   STANDARD 90' BEIND SHALL CONFORM ITO GENERAL INOTES P21-S03.
   LAP SPLICES FOR TOP BAR SHALL BE PLACED AT MIDDLE OF SPAN, FOR BOTTOM BAR SHALL BE PLACED AT SUPPORT (WHEN NECSSARY)

BORDER CONTROL FACILITIES THAILAND SIDE MAIN OFFICE : BEAM SCHEDULE





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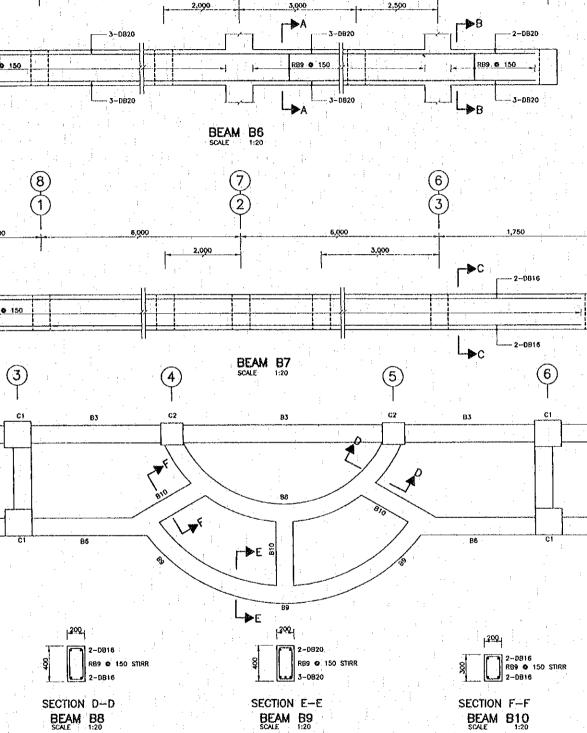
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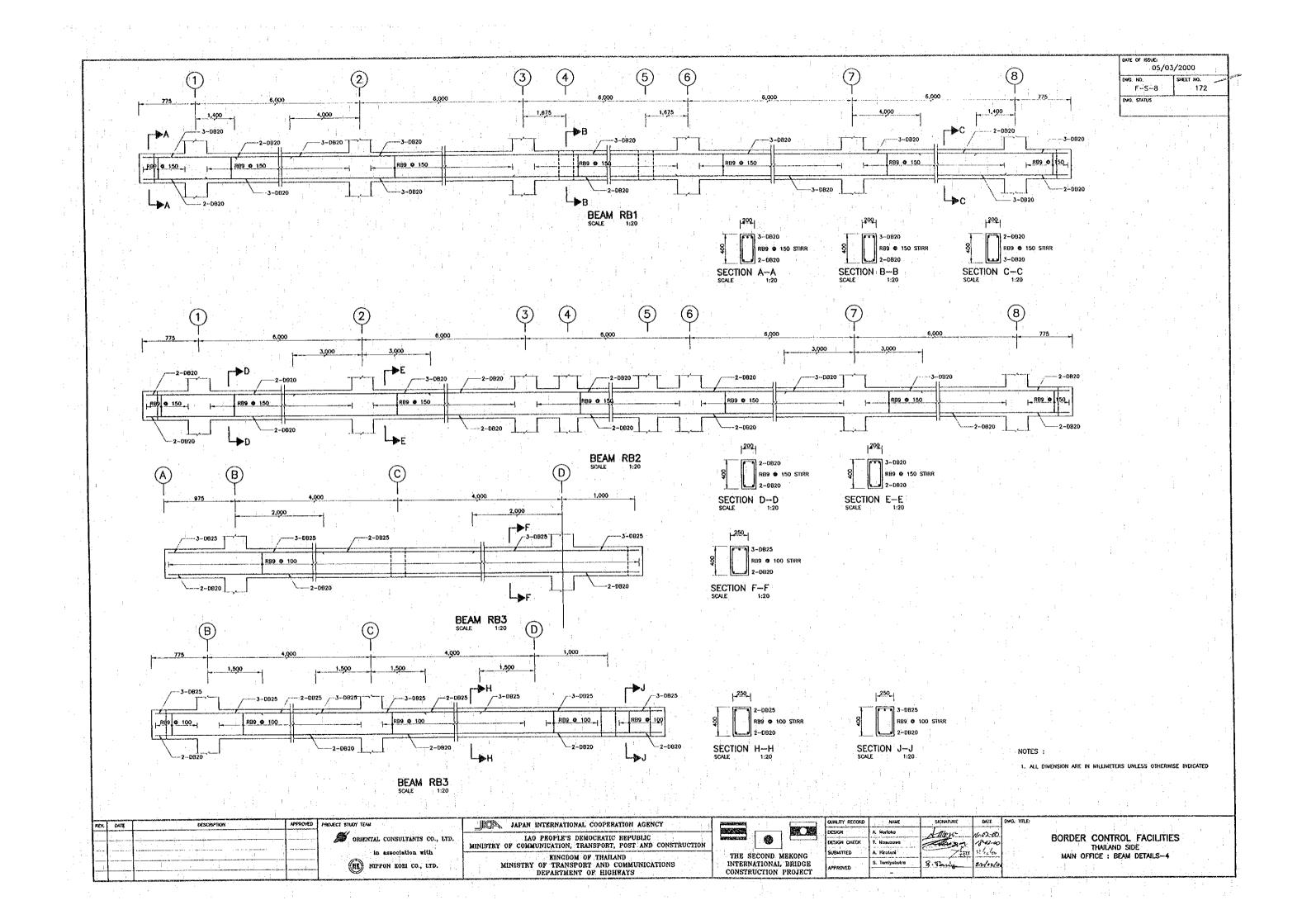
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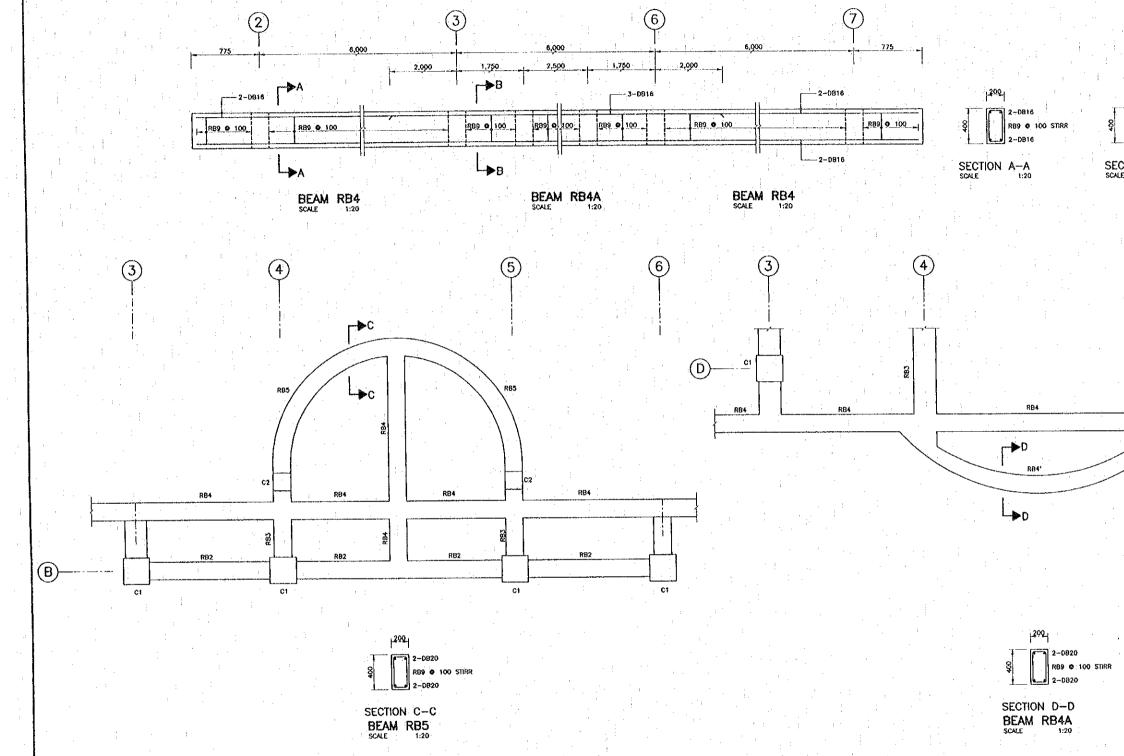
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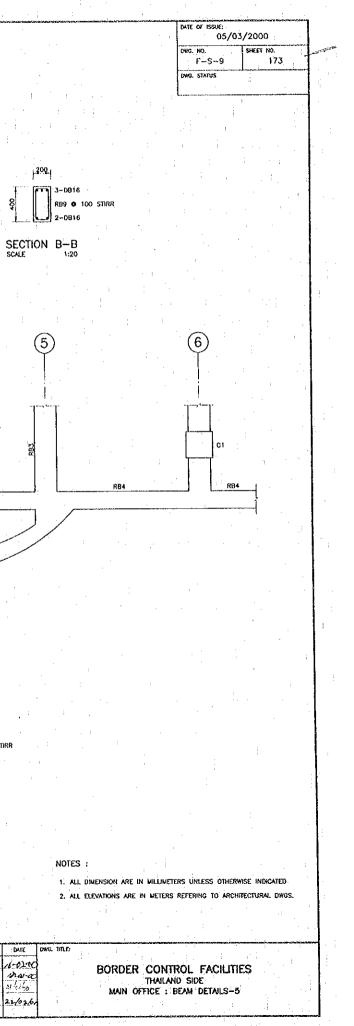
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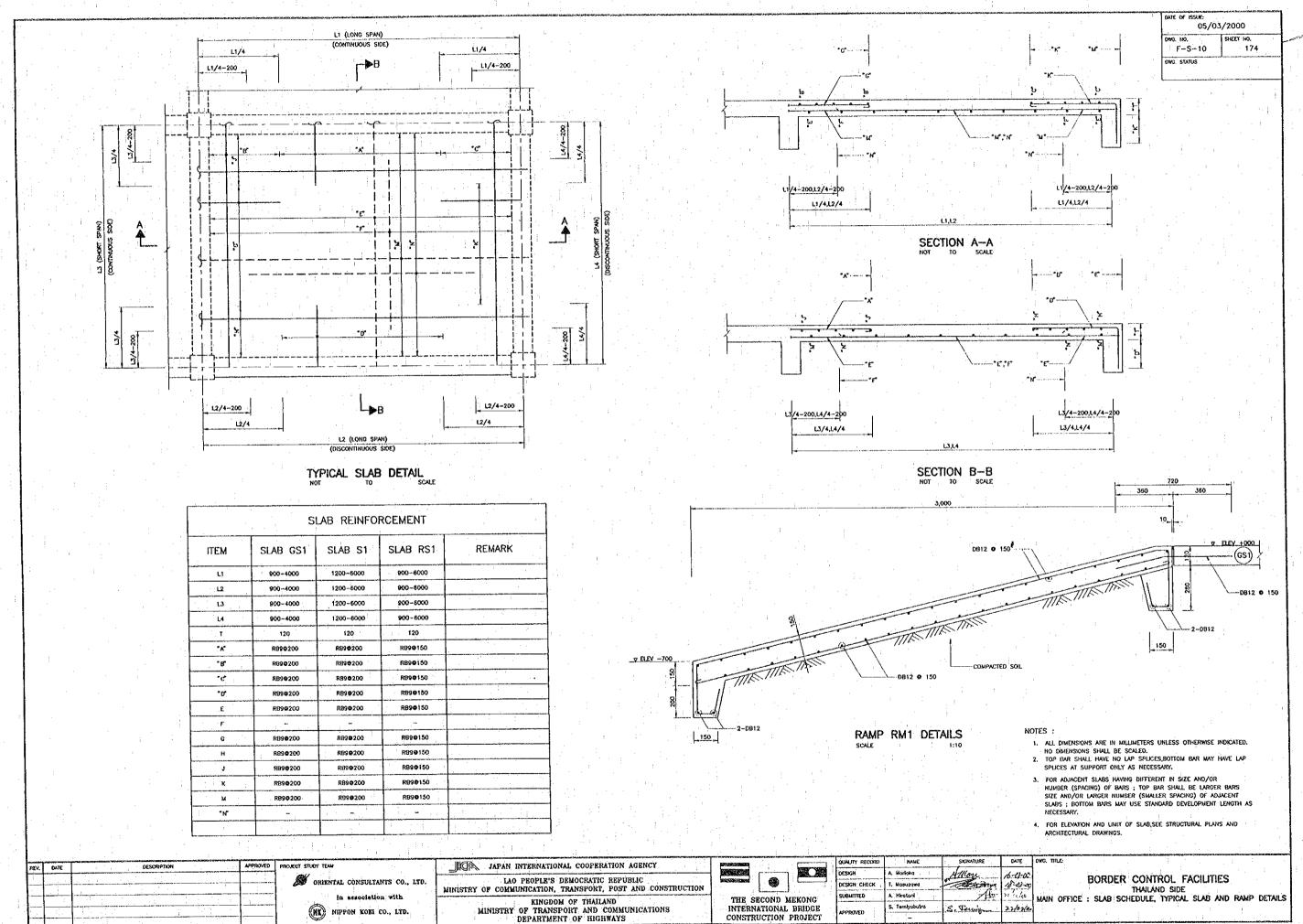


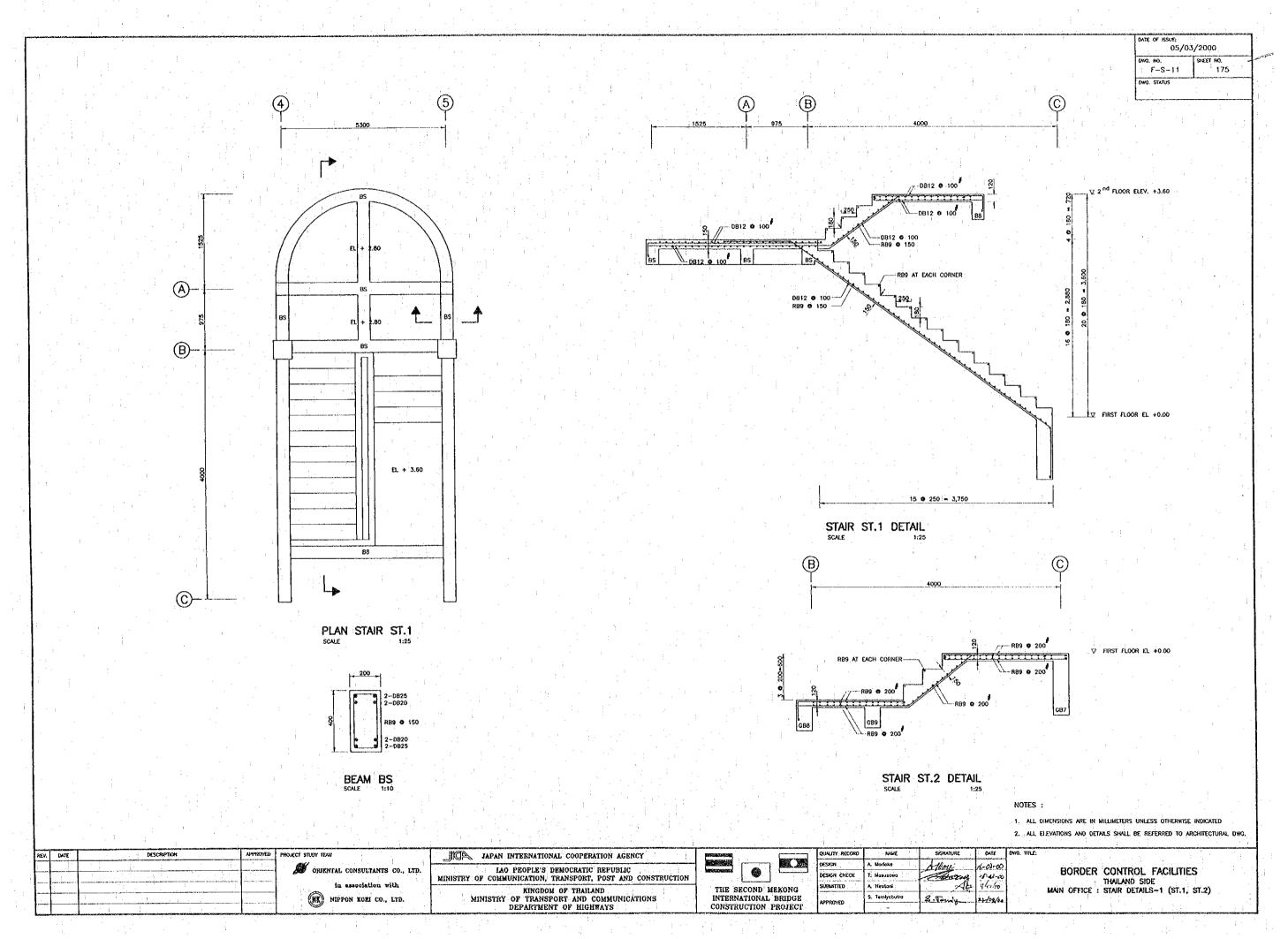
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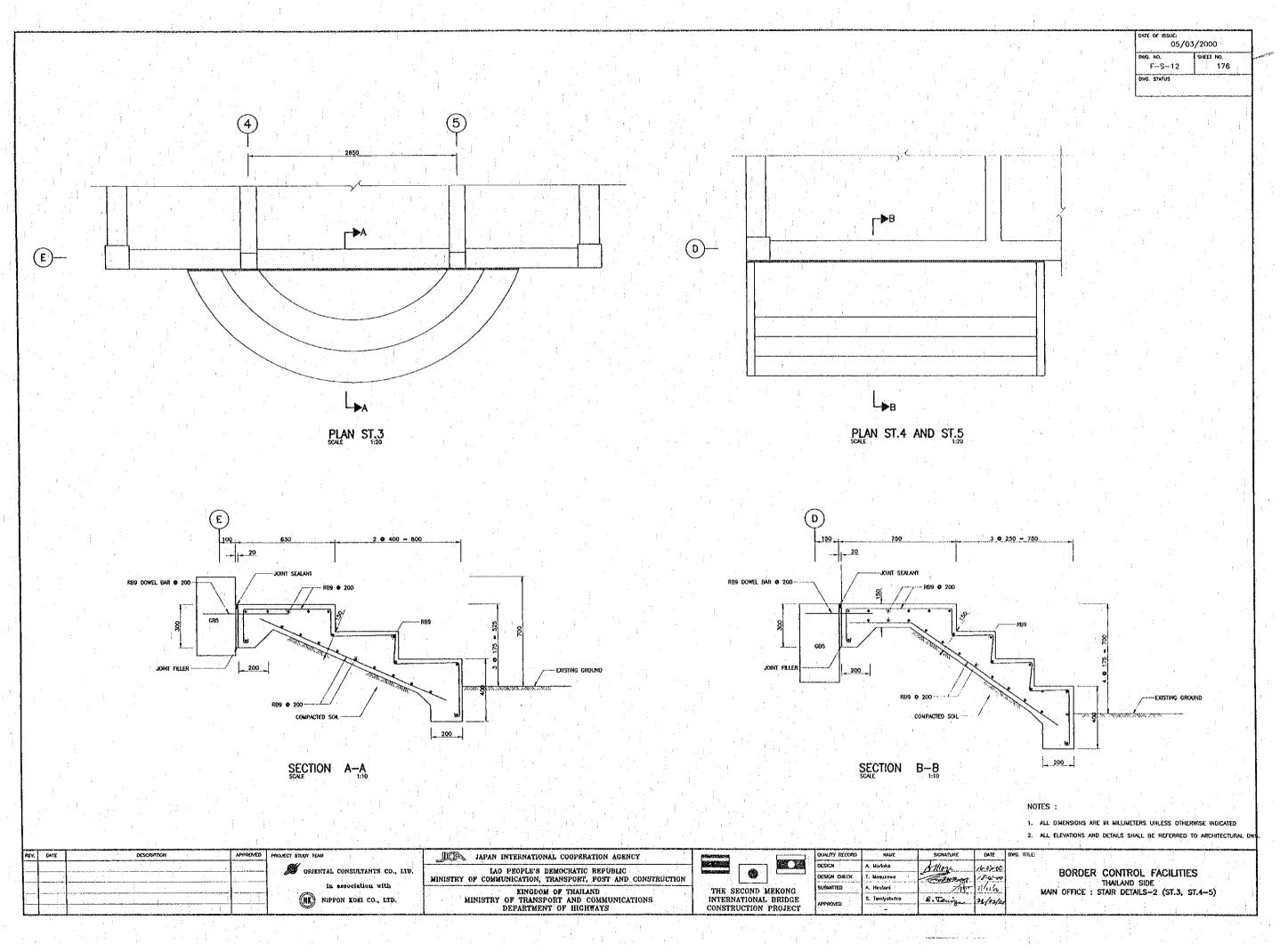


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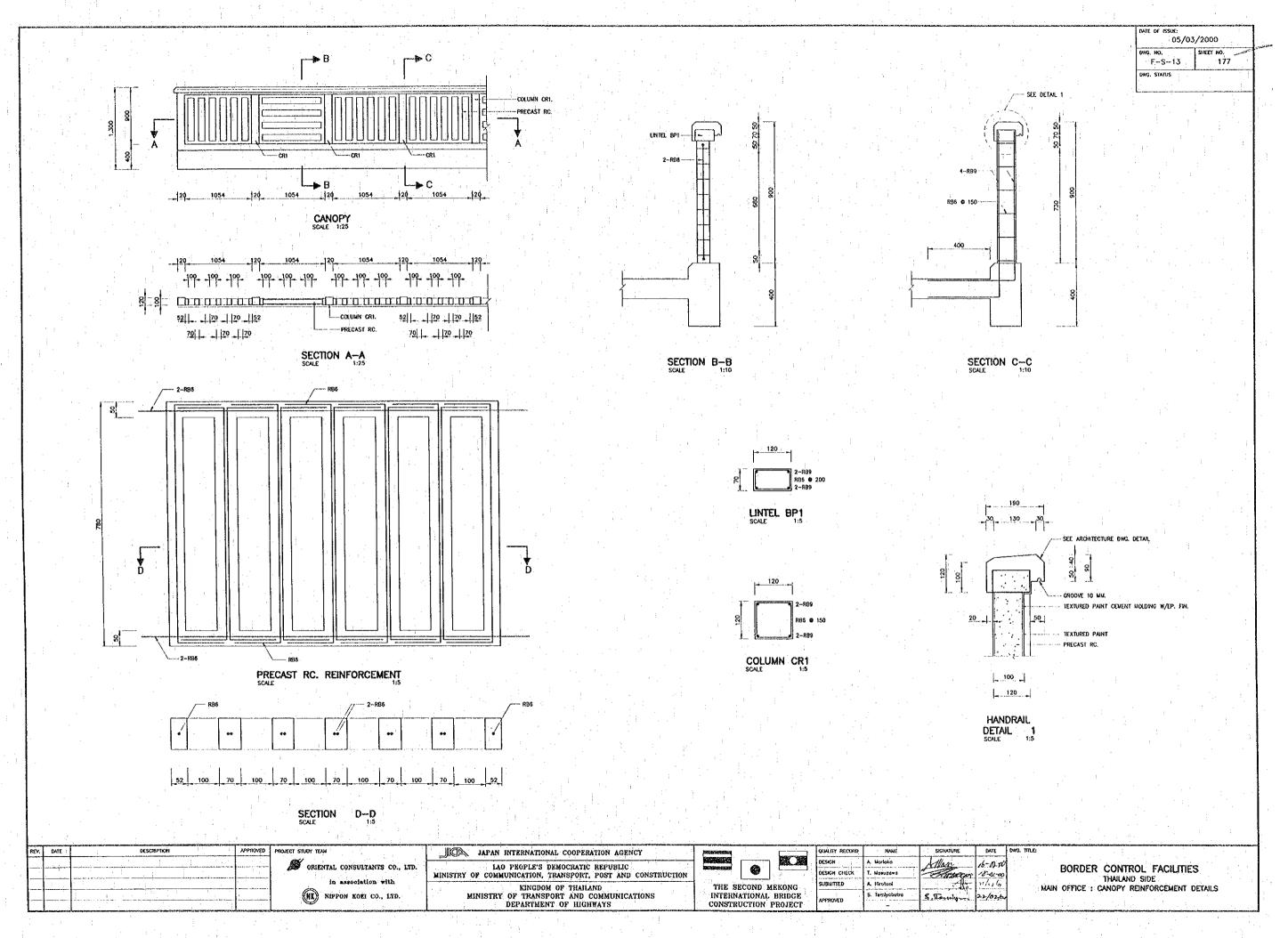


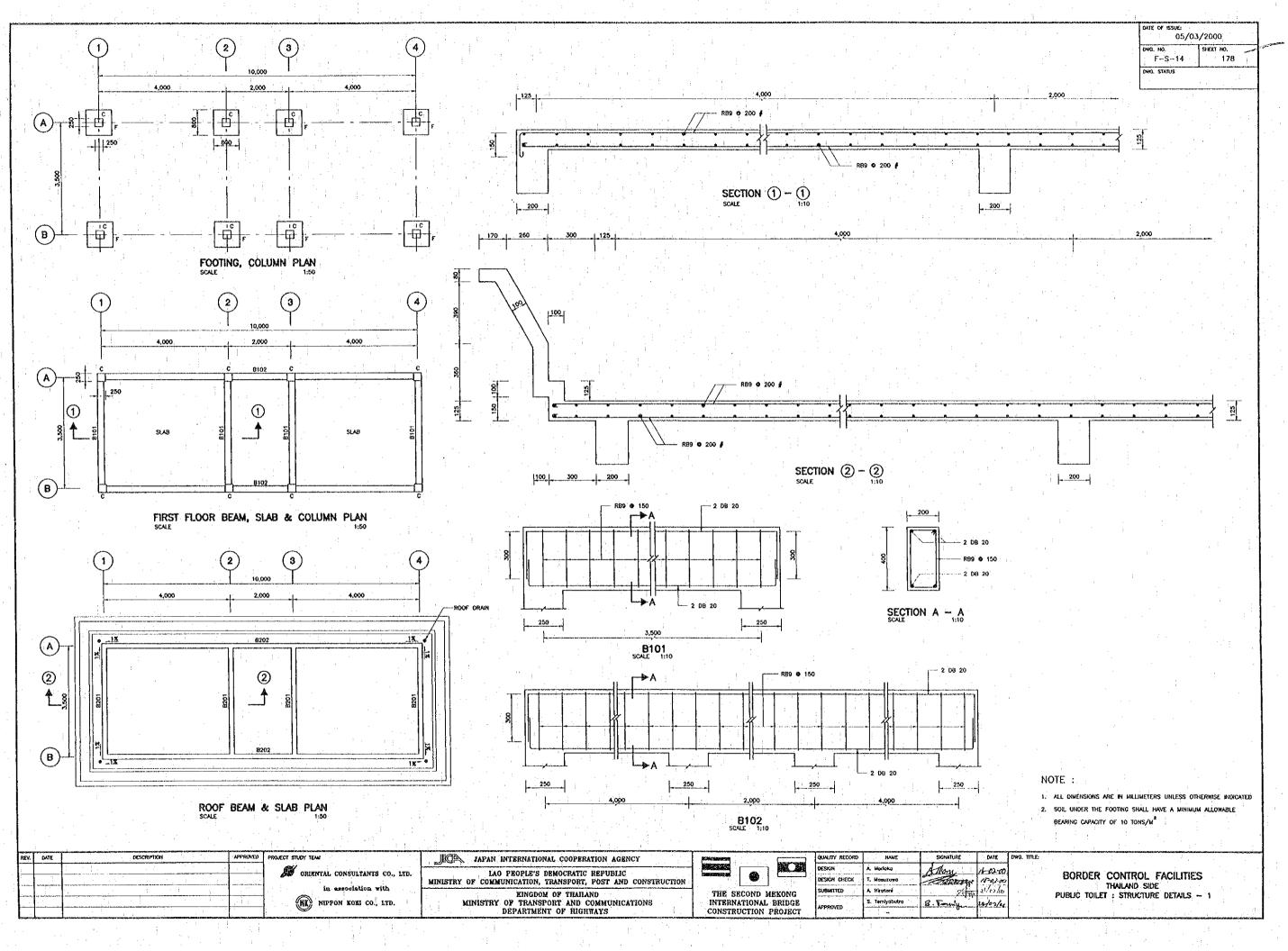




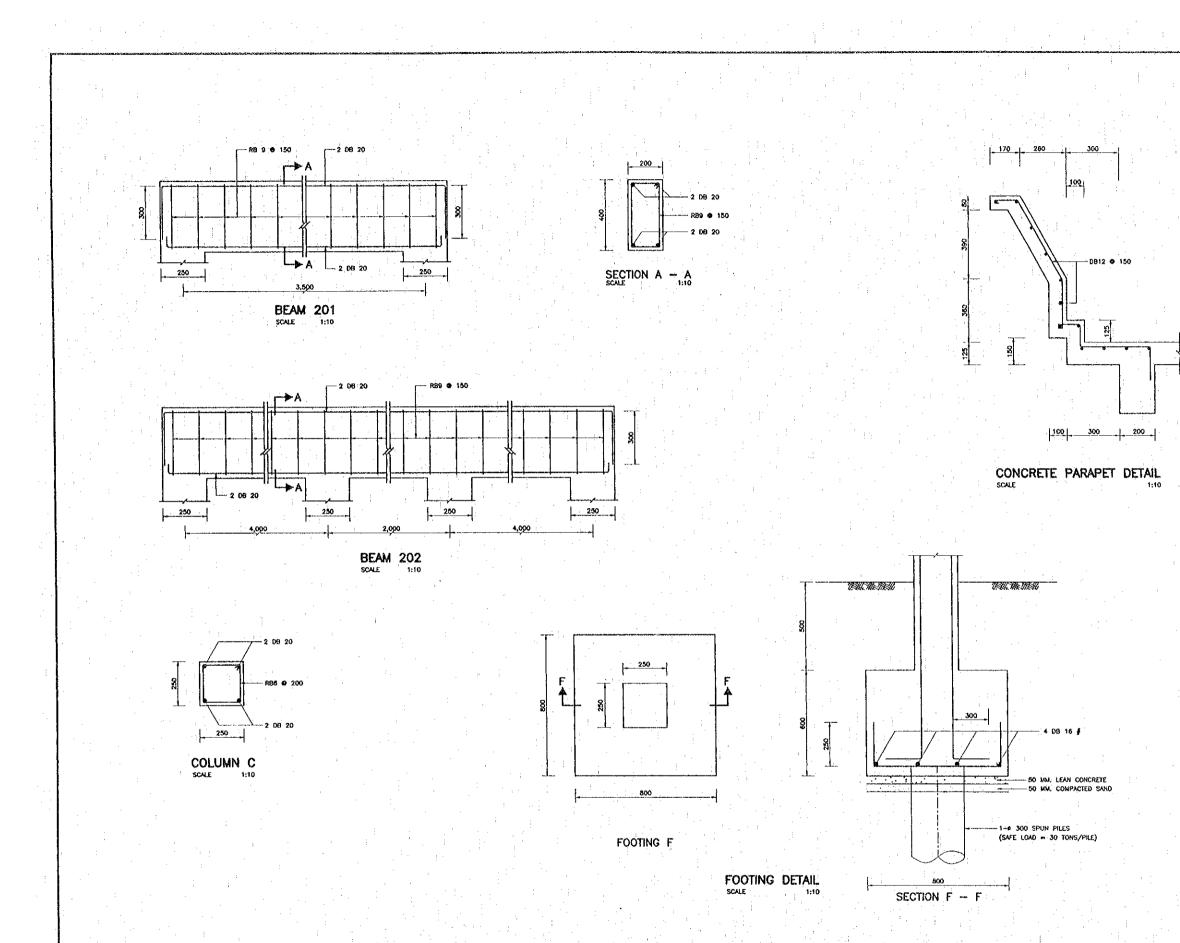


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						DEPARTMENT OF HIGHWAYS	CONSTR	UCTION PRO	DIECL	AFFRONED	4		<u> </u>





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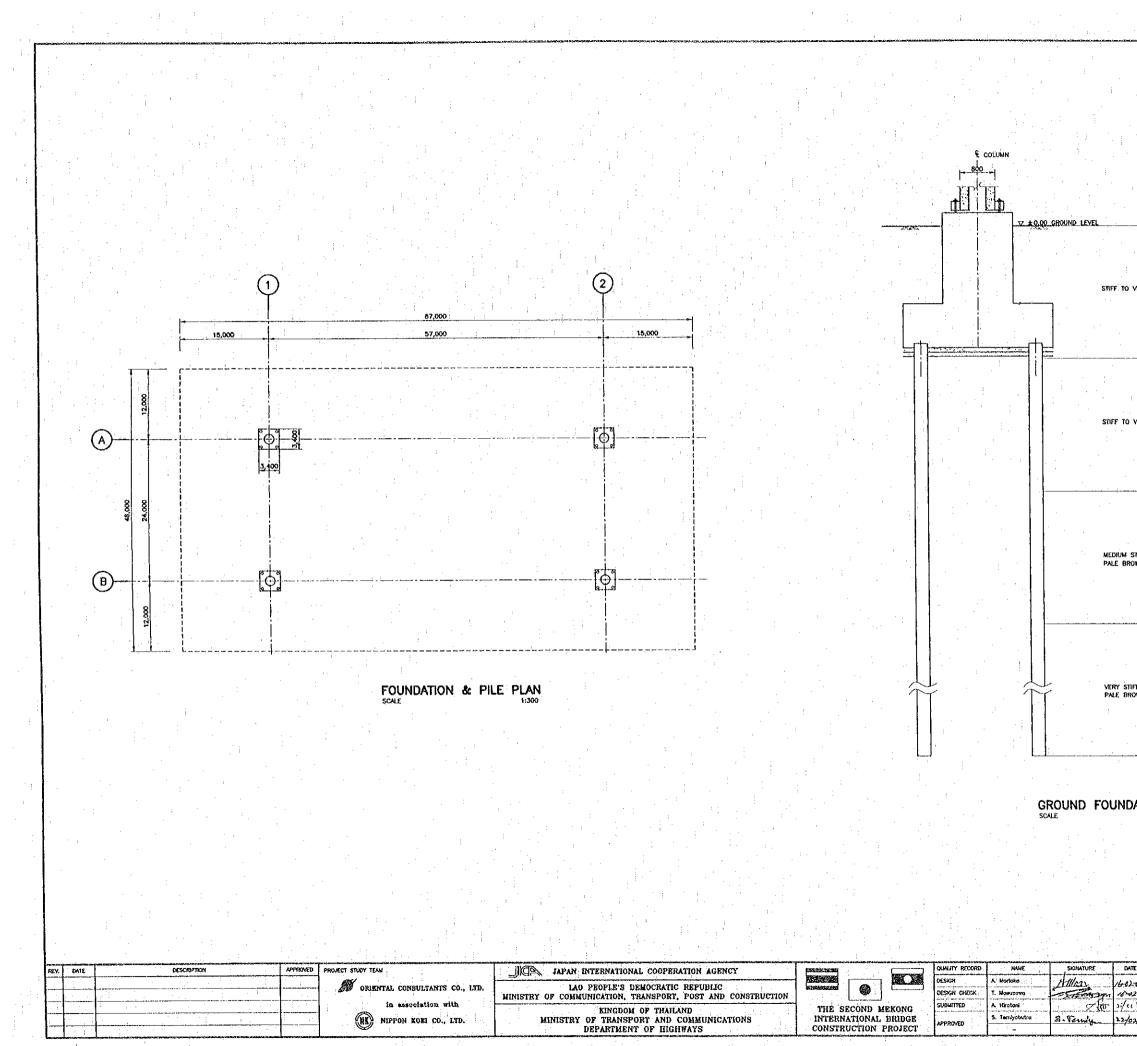
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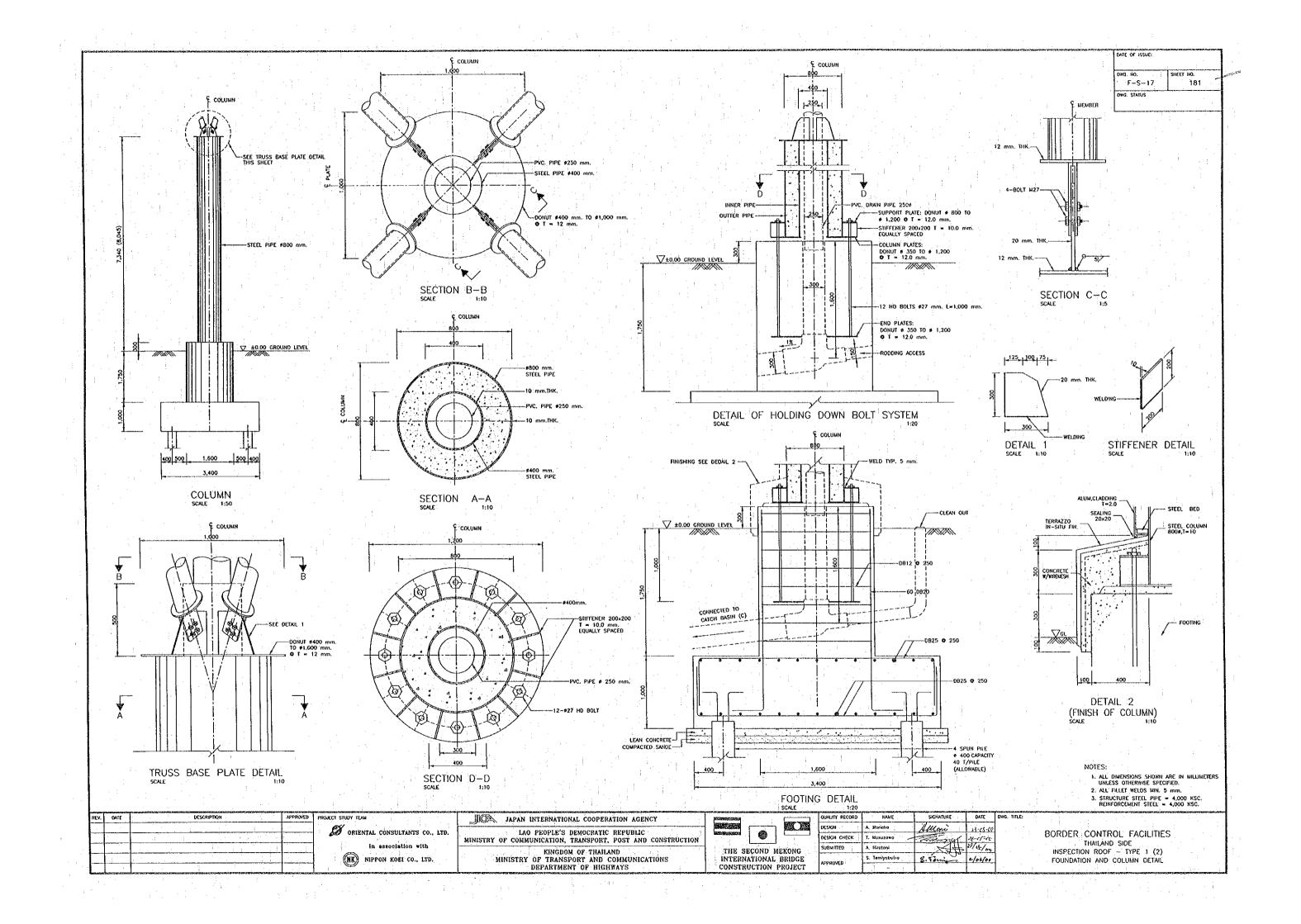
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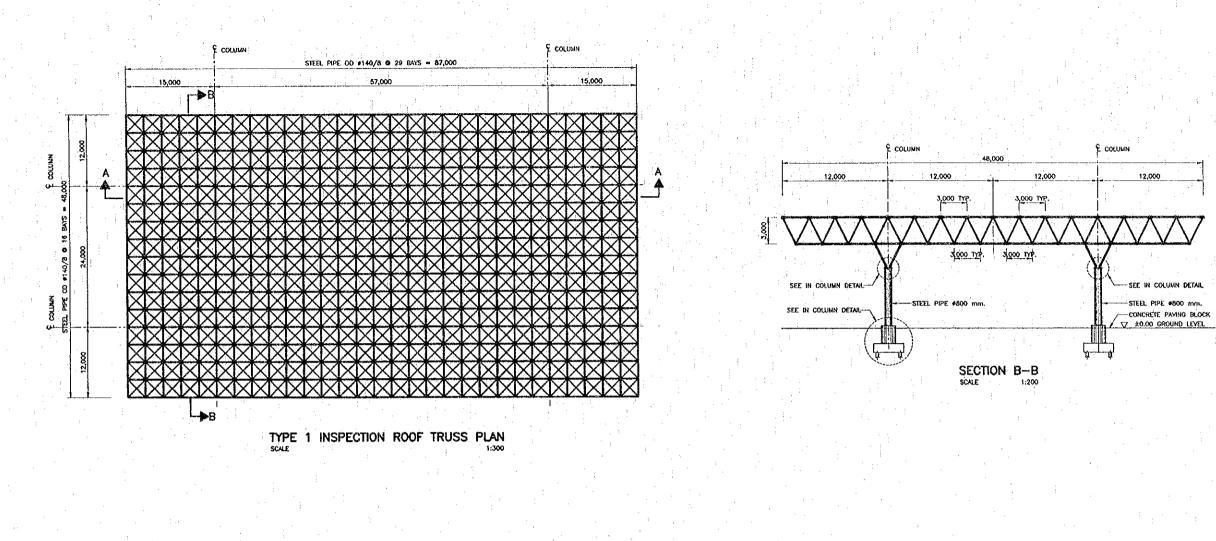
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- 2. SOIL UNDER THE FOOTING SHALL HAVE A MINIMUM BEARING CAPACITY OF 10 TONS/Mª

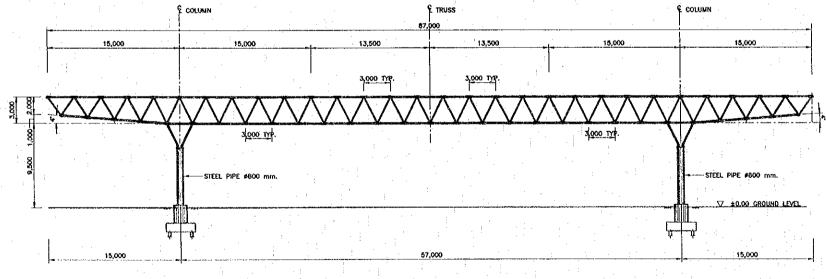
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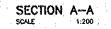


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				. 4			(NK) NIPPON KOKI CO., LTD.	MINISTRY OF TRANSPORT AND COMMUNICATIONS	INTERNAT	TIONAL BRIDGE	APPROVED	5. Temiyobutra	S. Vormine	12/02/04	ja in	PLAN & ELEVATION	(0)
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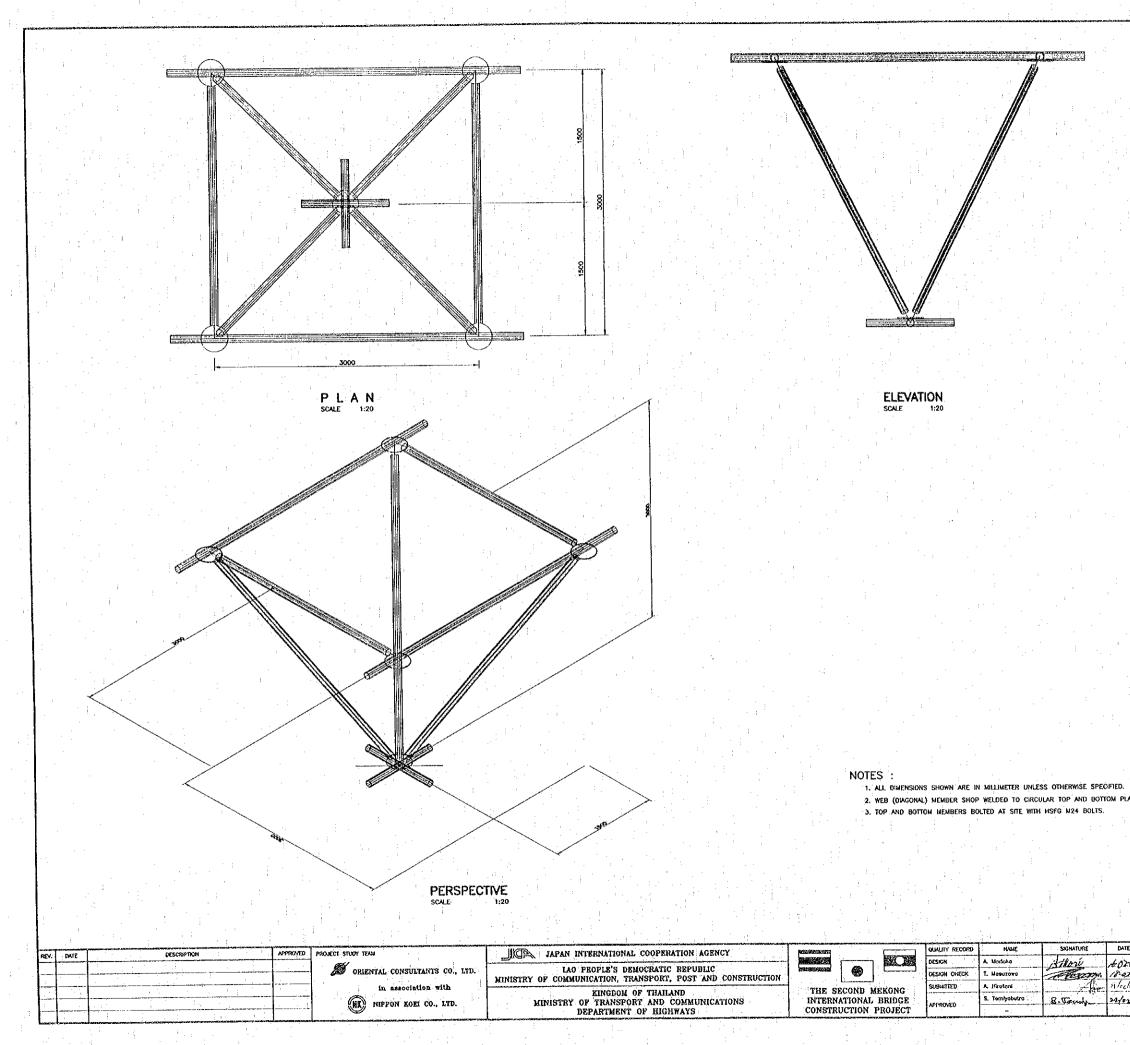
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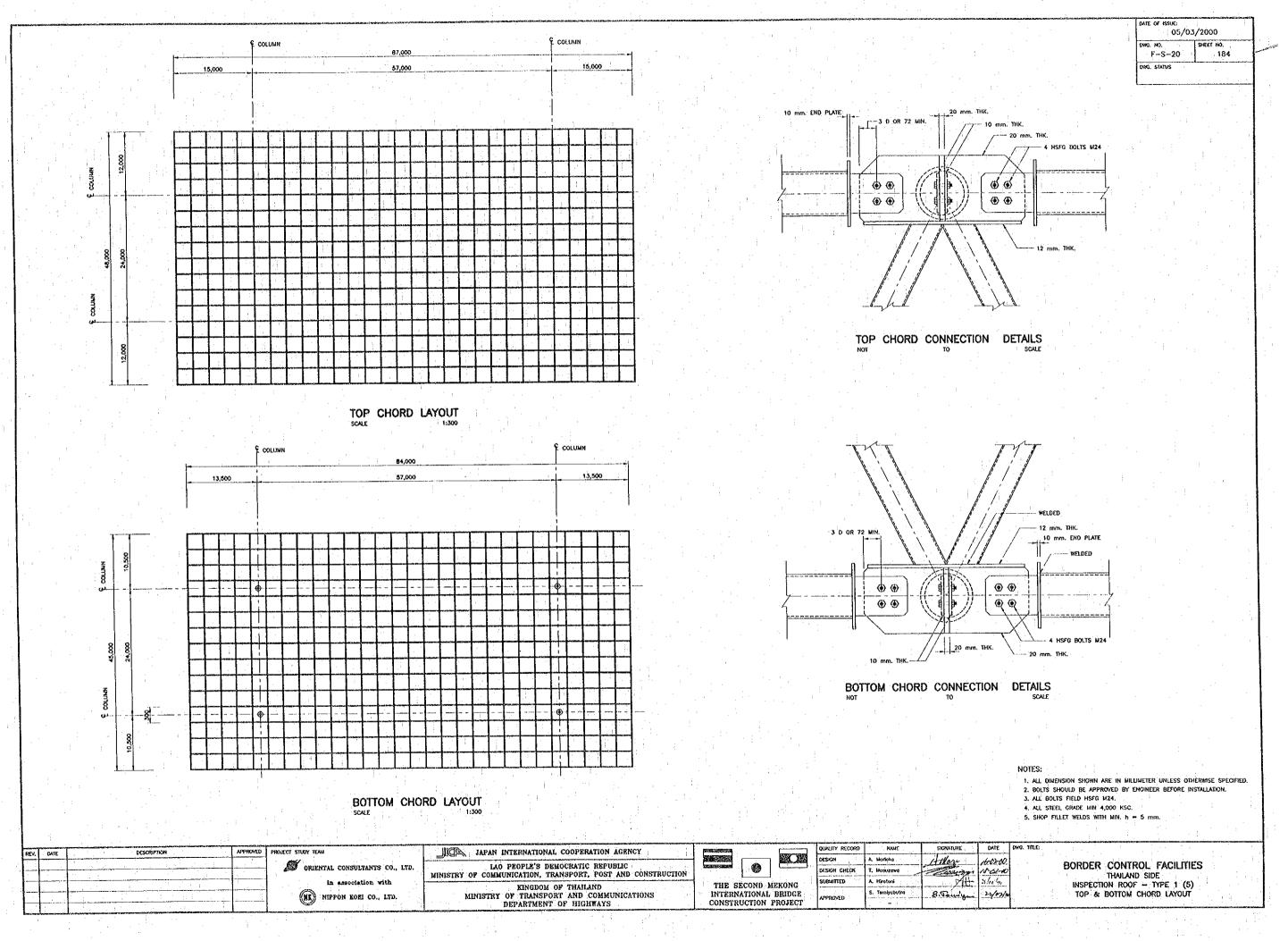
 ALL DIMENSIONS SHOWN ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
 STRUCTURAL STELL PIPE = 4,000 KSC.
 USE CORRUGATED ROOF SHEET 0.5 mm THX. ON PURLINS..
 INSTALLATION DETAIL OF STELL ROOF SHEET SHALL BE SUBMITTED BY THE SUPPLIER AND APPROVED BY THE ENGINEER
 TABLE OF PIPE SIZE.

LOCATION	SIZE
UPPER CHORD	140x8 mm.
LOWER CHORD	140x8 mm.
WEB (DIAGONAL)	140x8 mm.
COLUMN SUPPORT	168x8 mm.

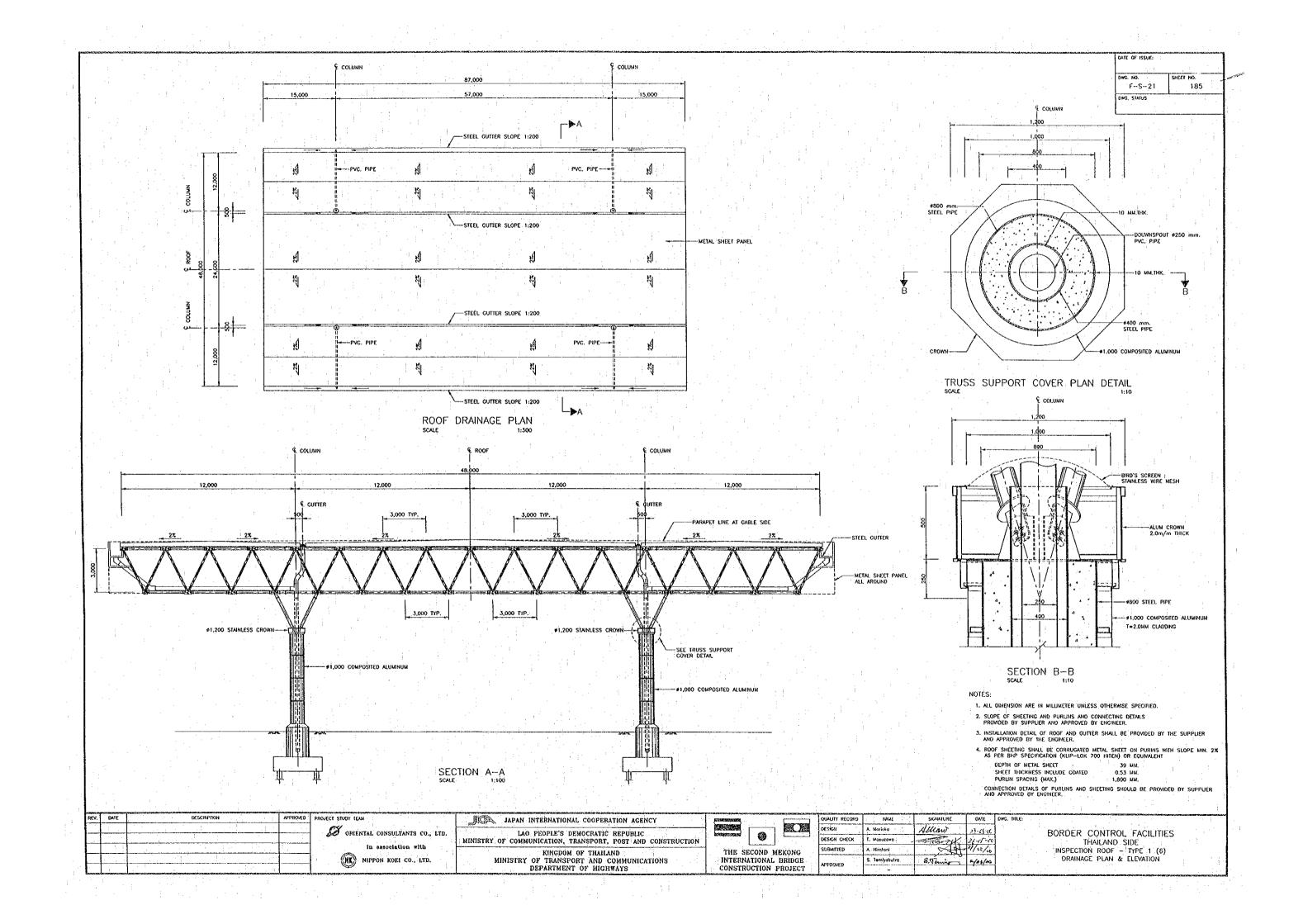
 THE STRUCTURE WELDING USE "FILLET WELD" LEG SIZE EQUAL OR MORE THAN THICKNESS OF STRUCTURE BUT NOT LESS THAN 5 mm.
 OPEN ENDS OF STEEL PIPE SHOULD BE CLOSED WITH 10 mm WELDED END PLATES.
 ALL BOLTS HISFO M24 O.N.O. COMPLYING TO BS4360 GRADE END DISTANCES MIN. 30.

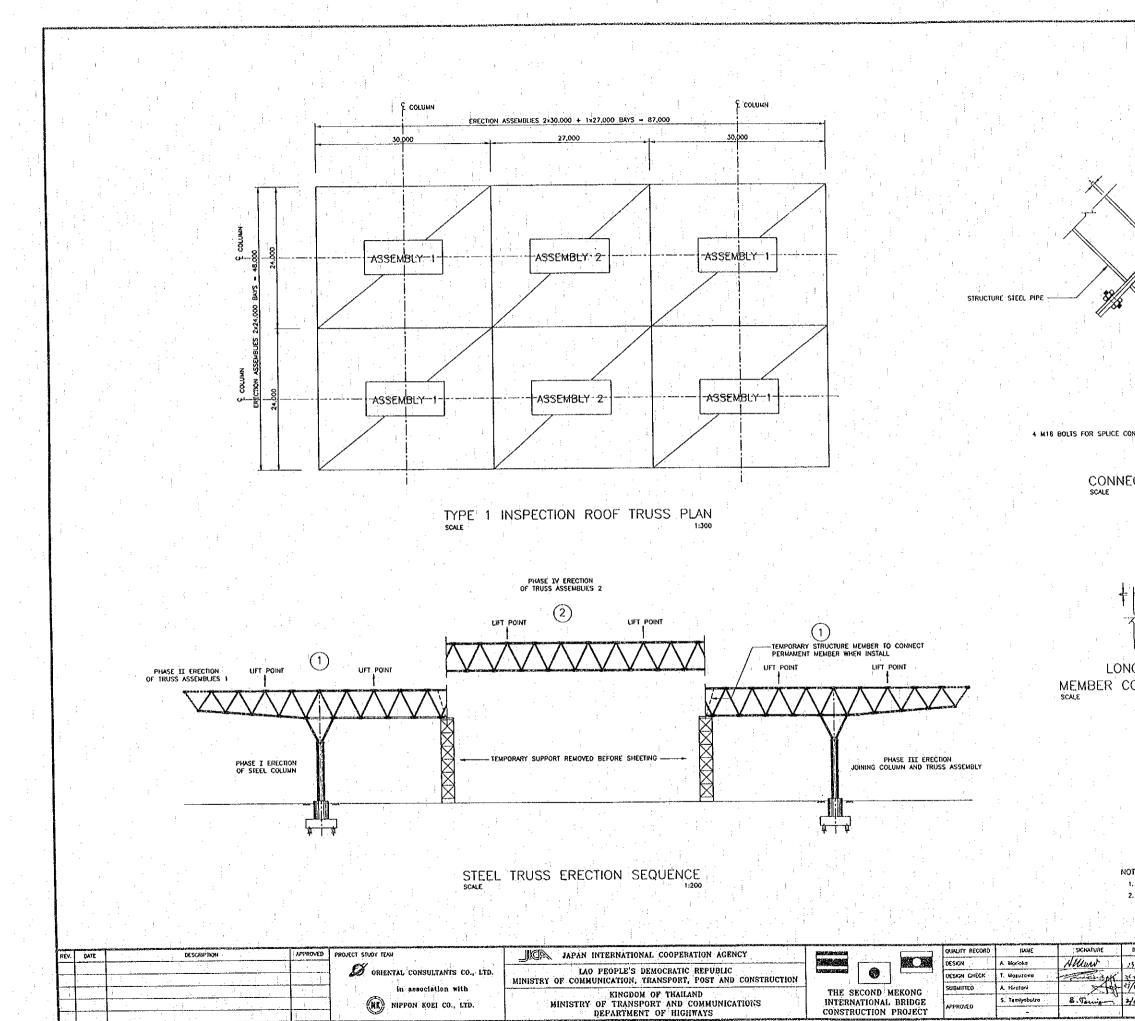


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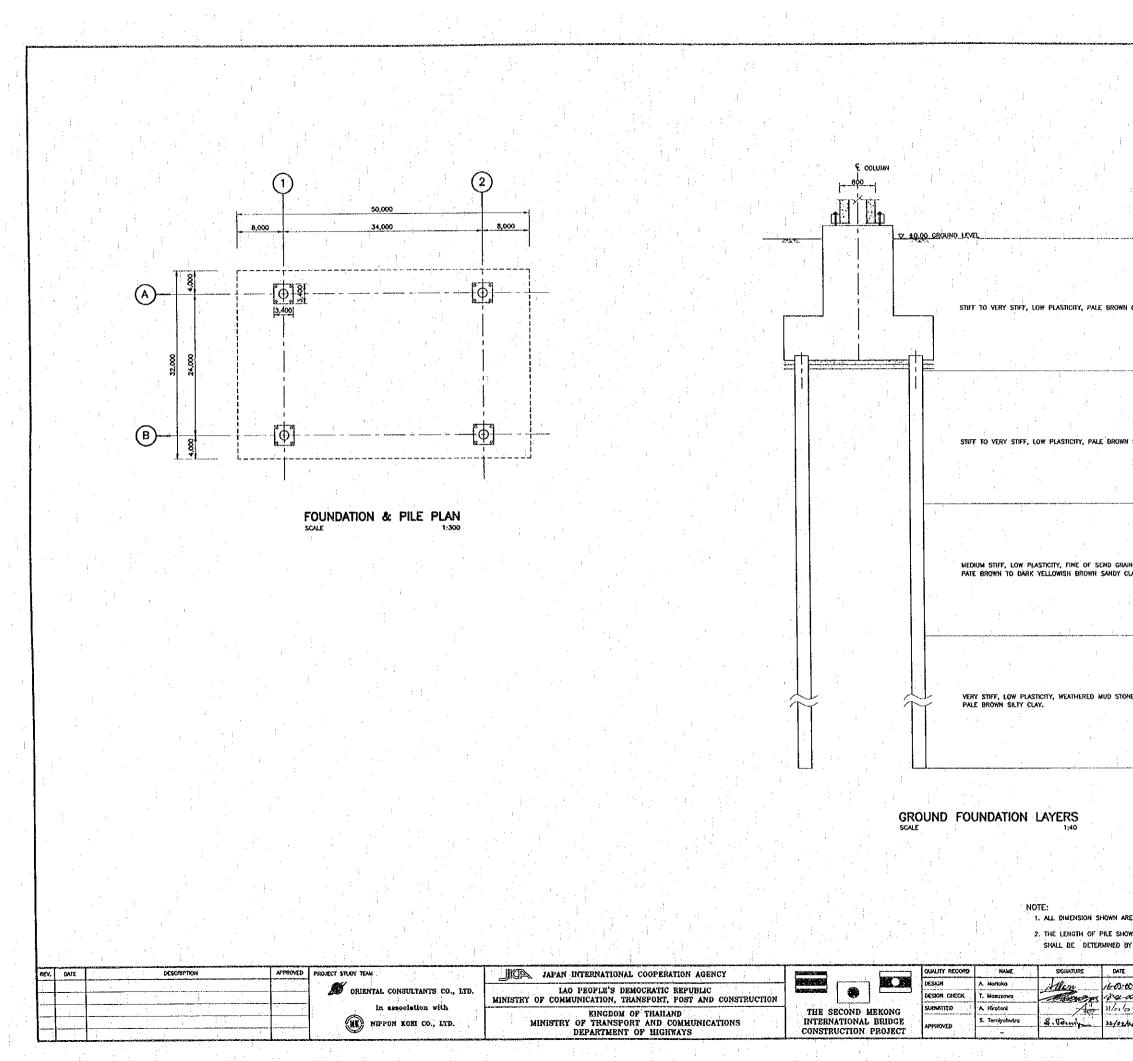


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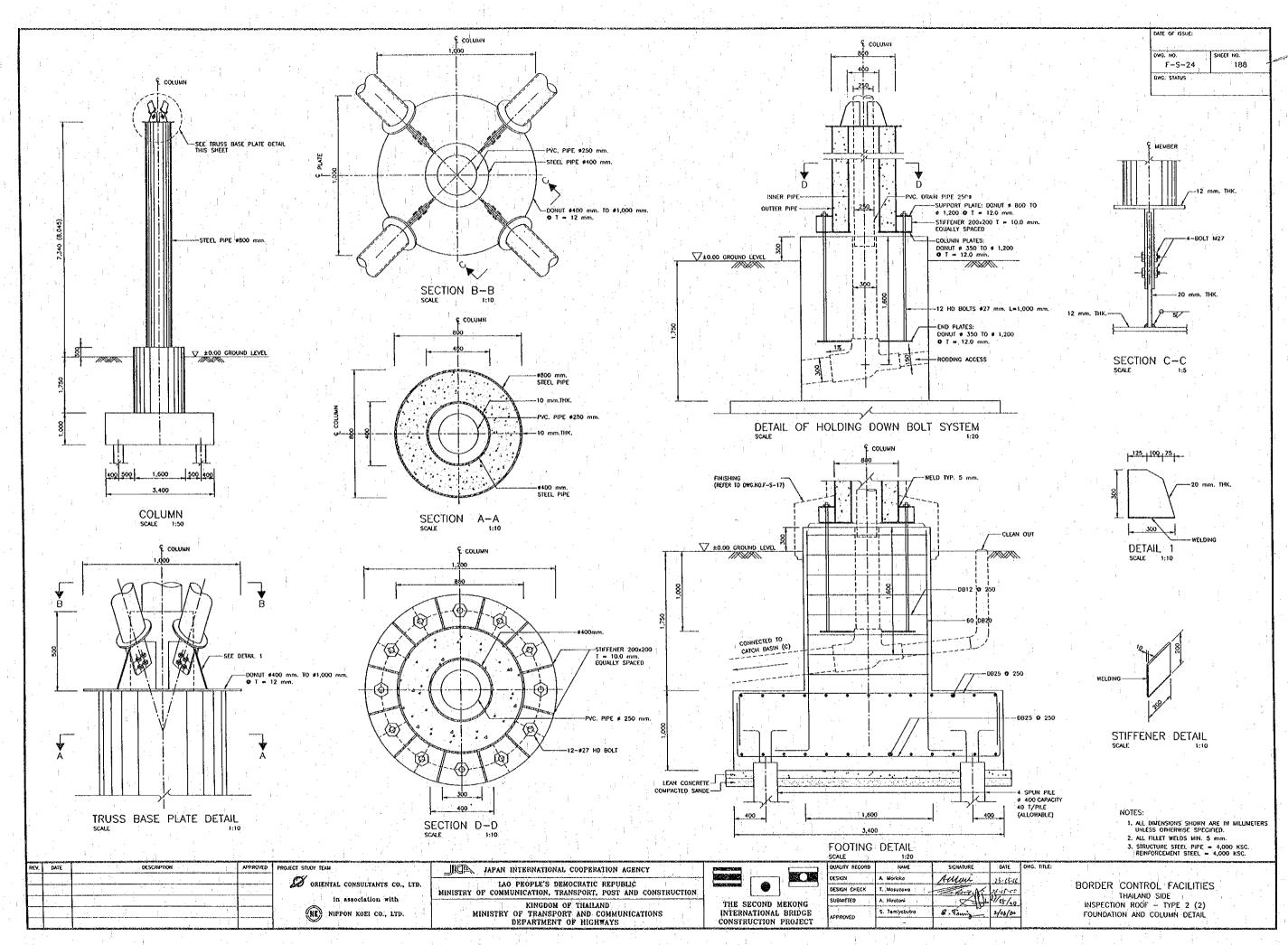


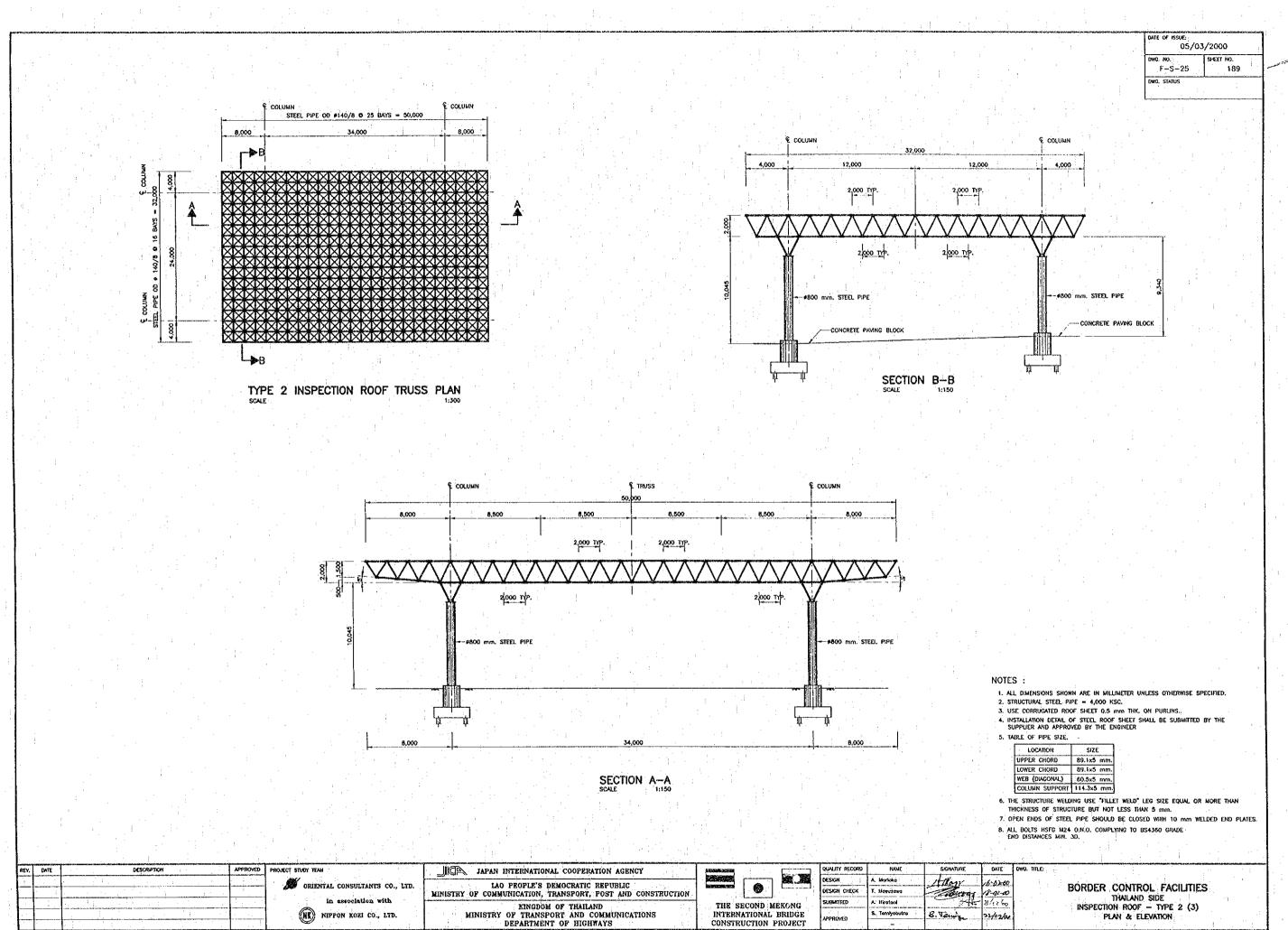
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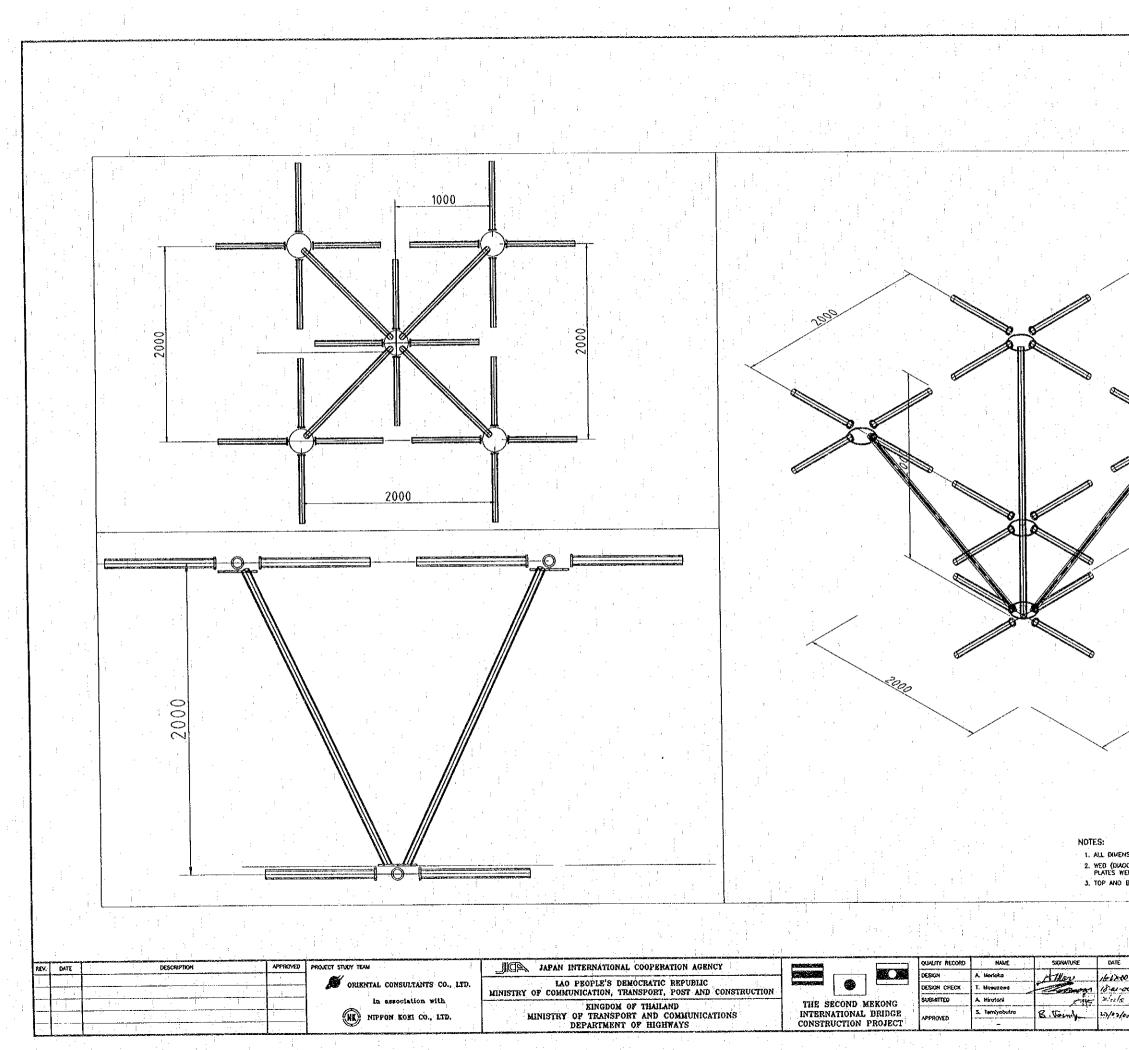


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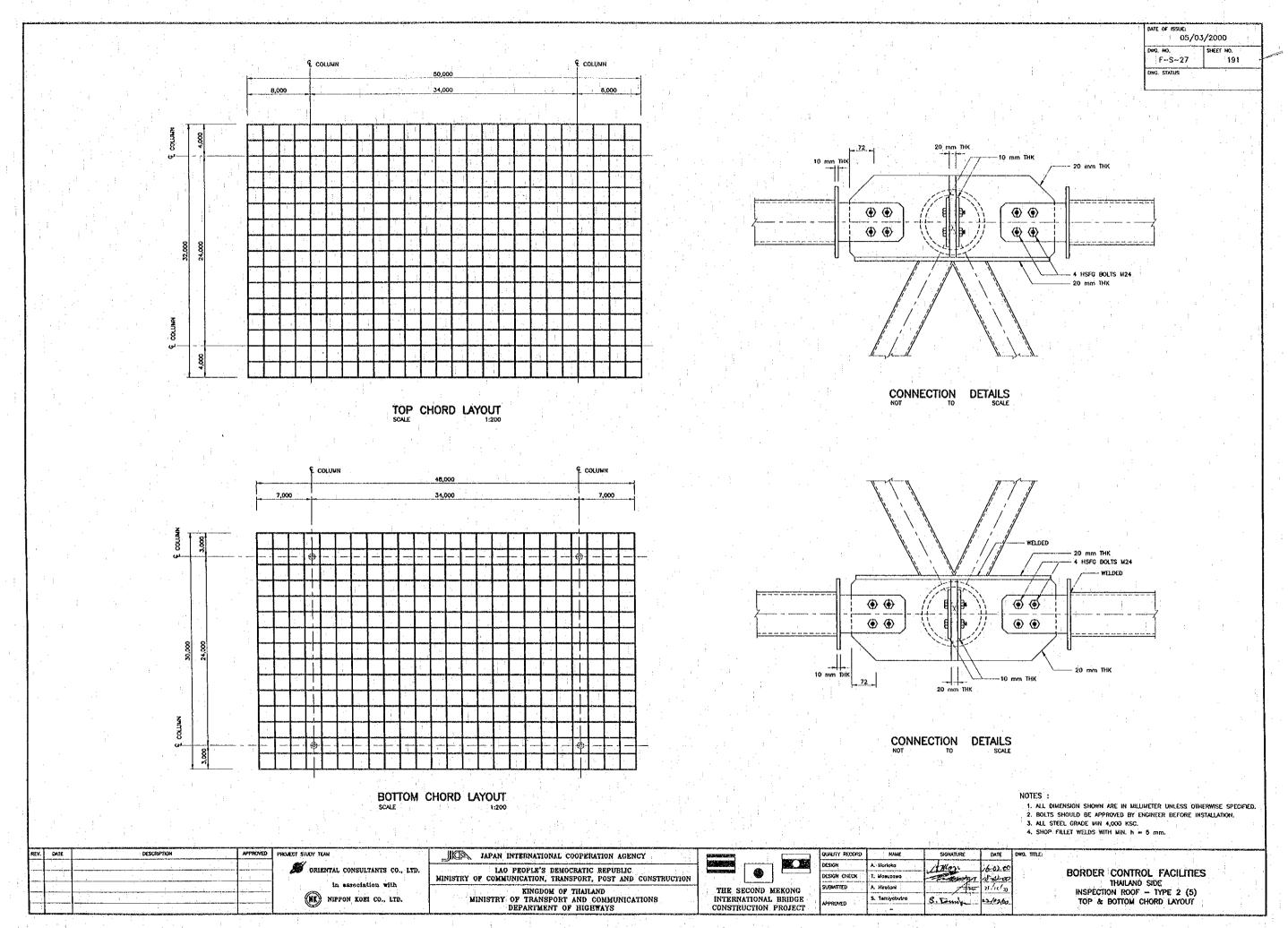
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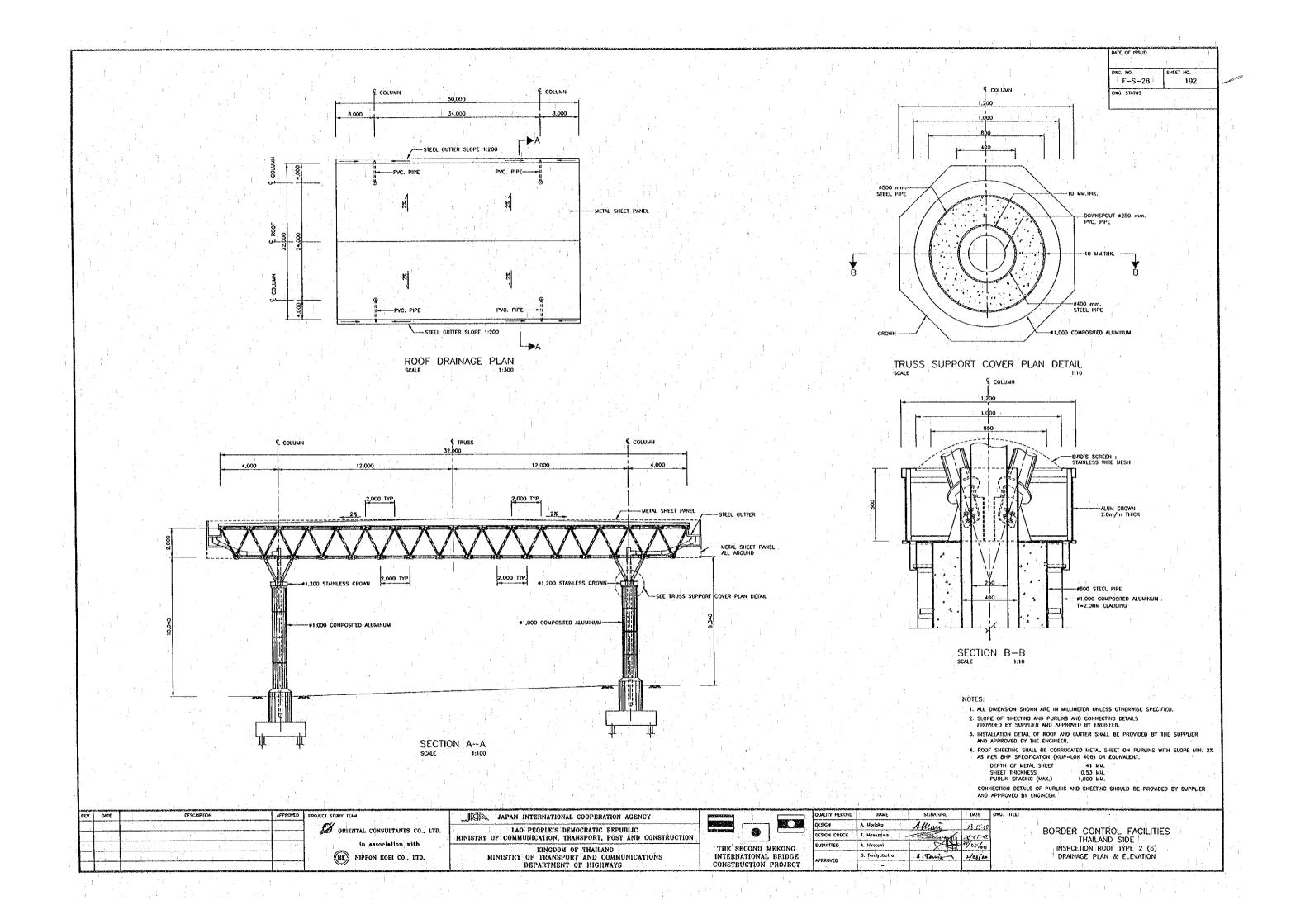


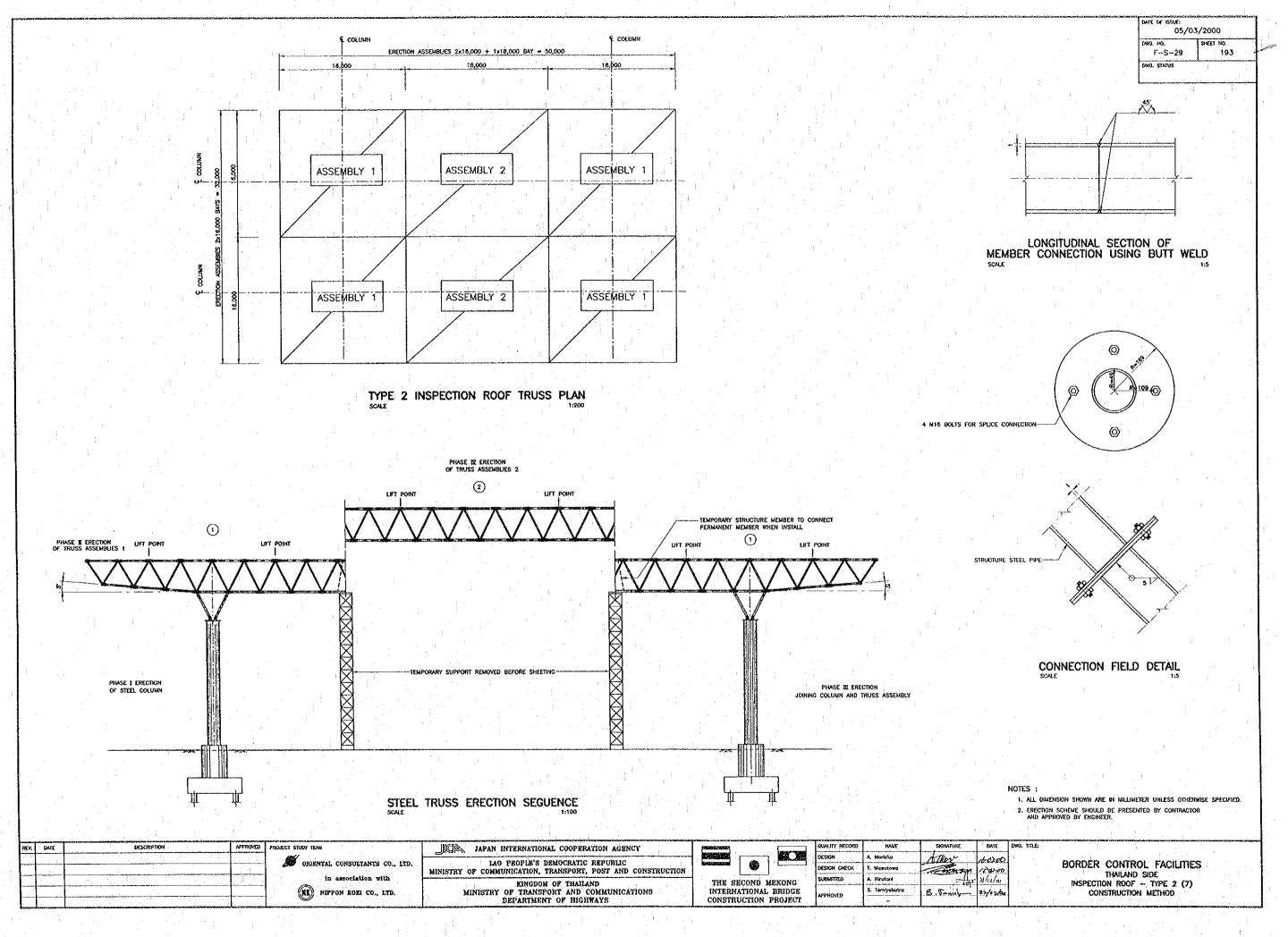
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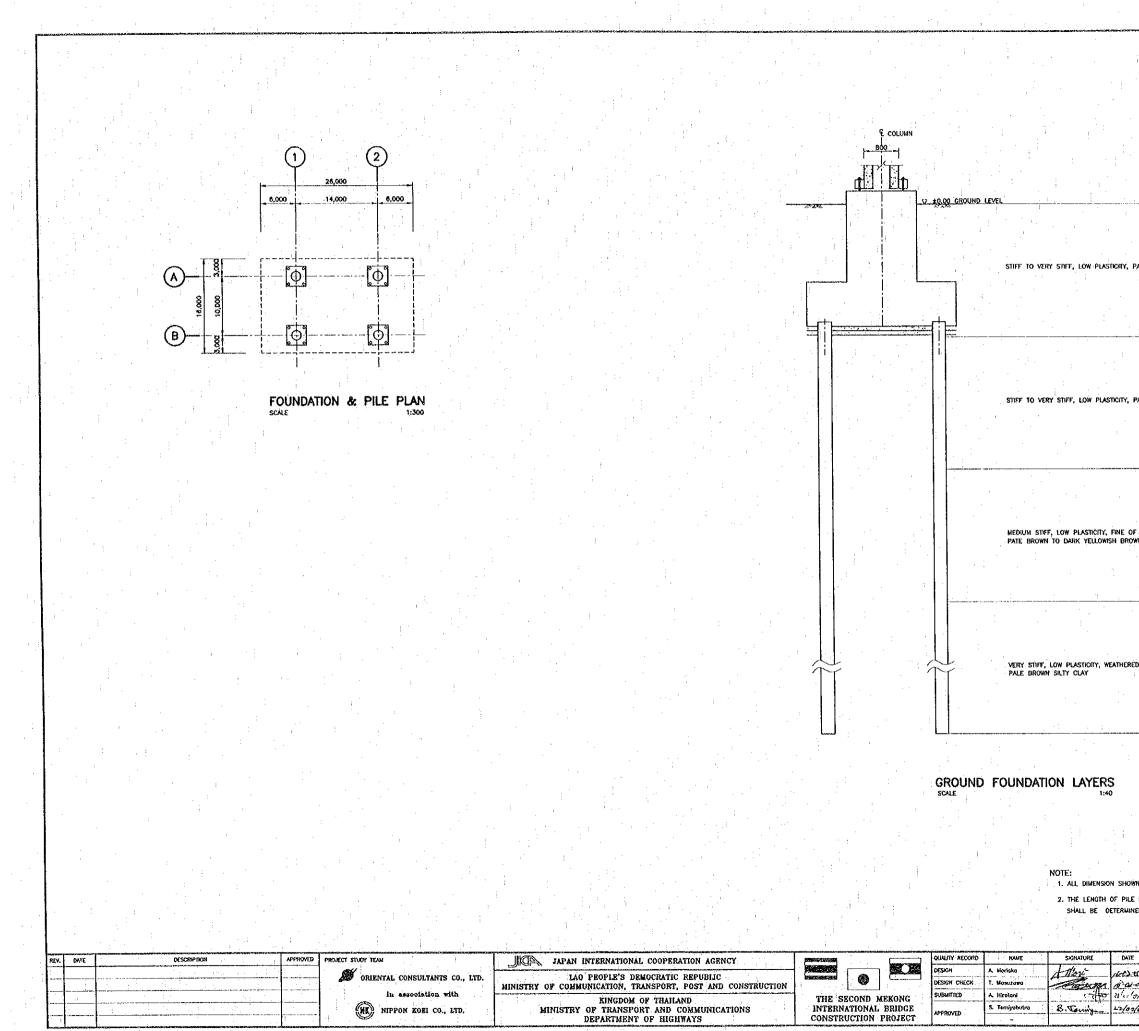
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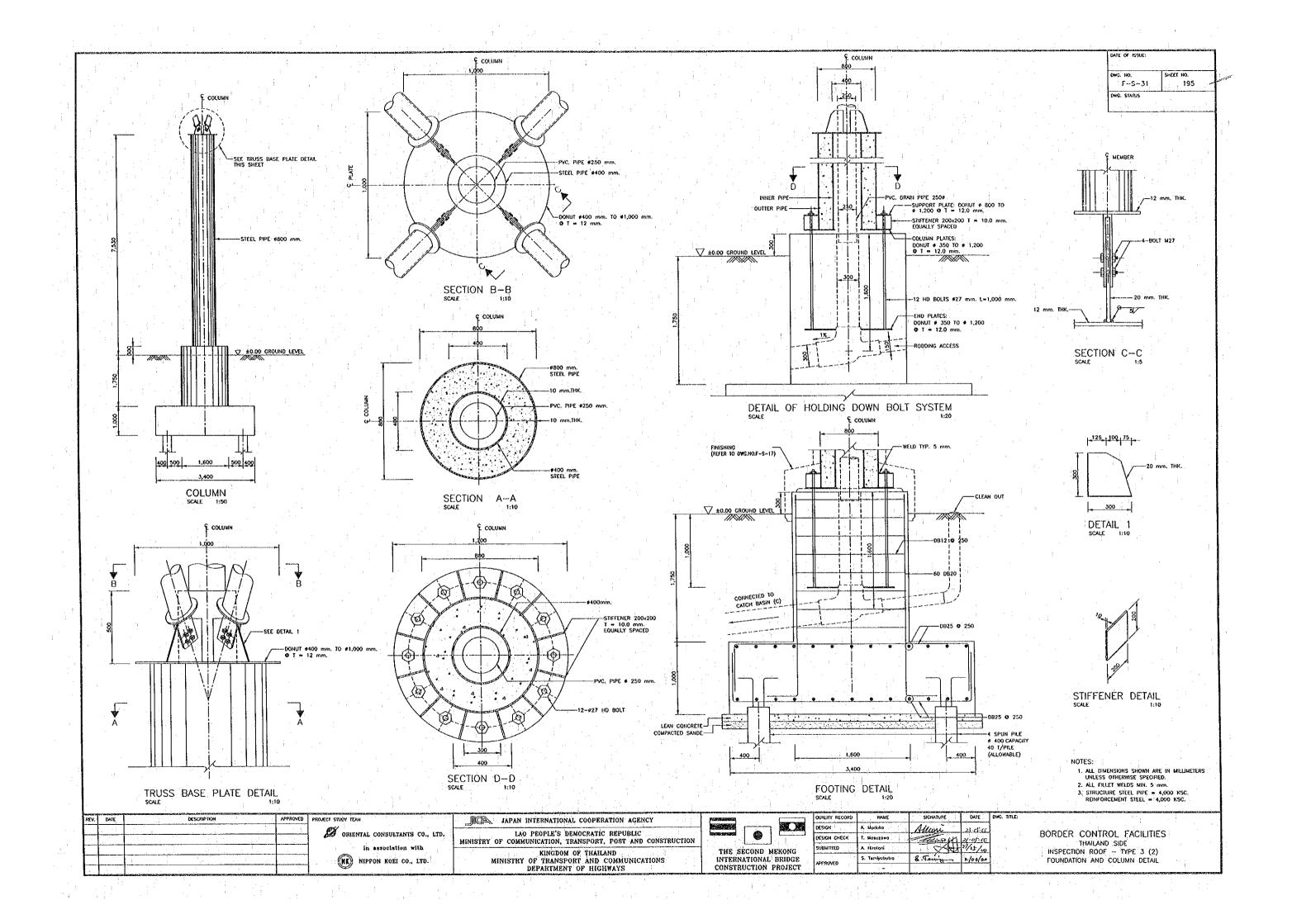


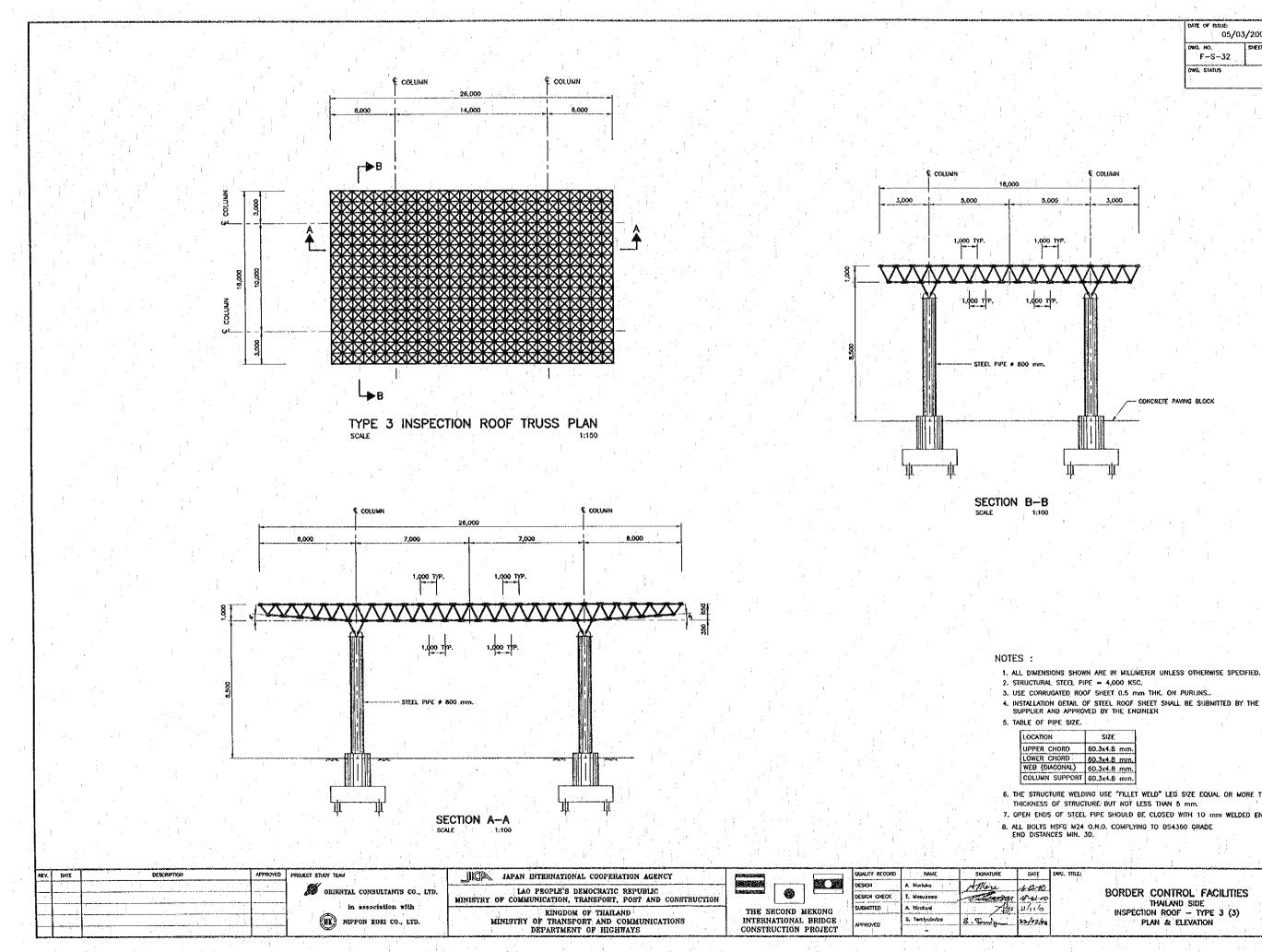
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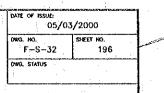


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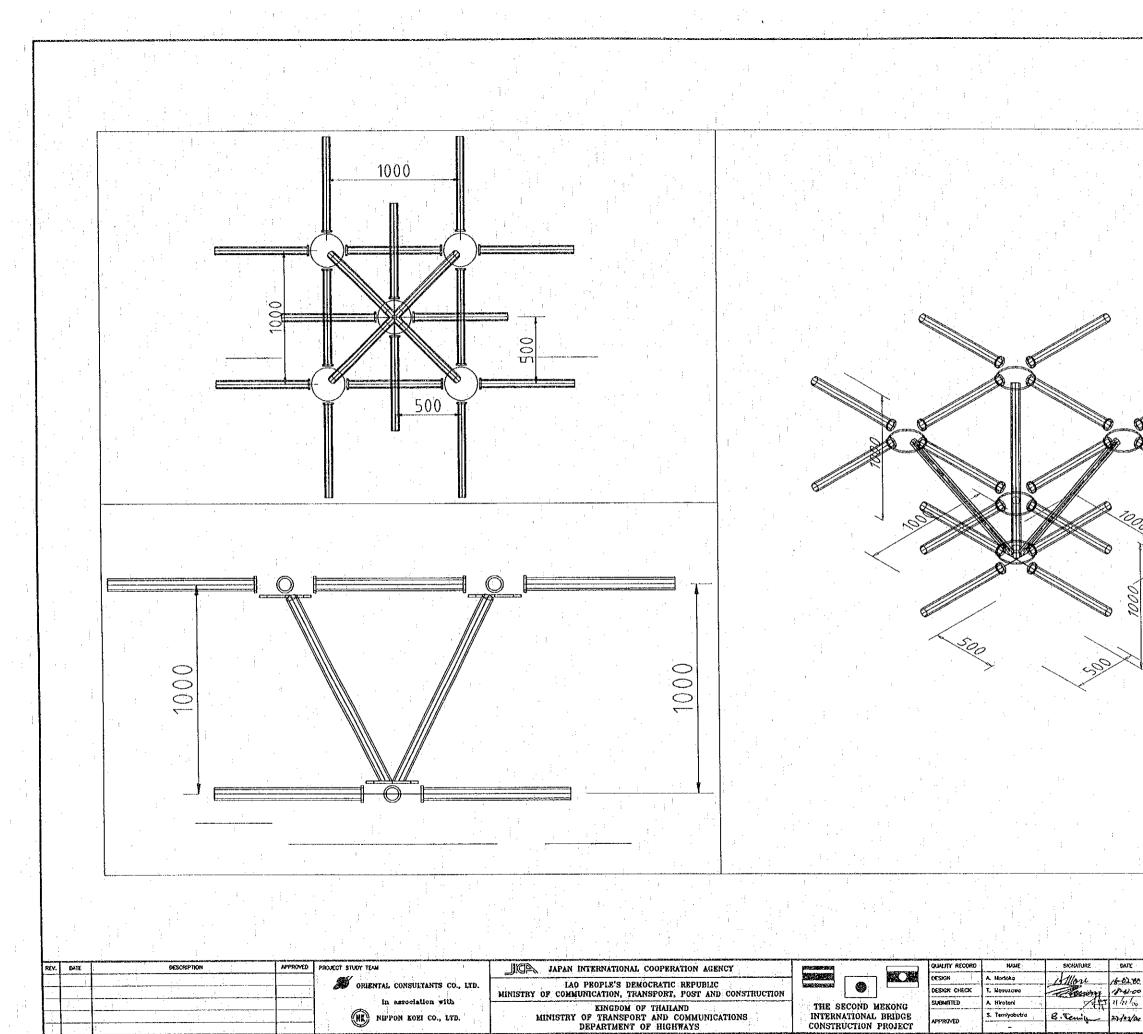




DN	SIZE
CHORD	60.3x4.8 mm.
CHORD	60.3x4.8 mm.
DIAGONAL)	60.3x4.8 mm.
N SUPPORT	60.3x4.8 mm.

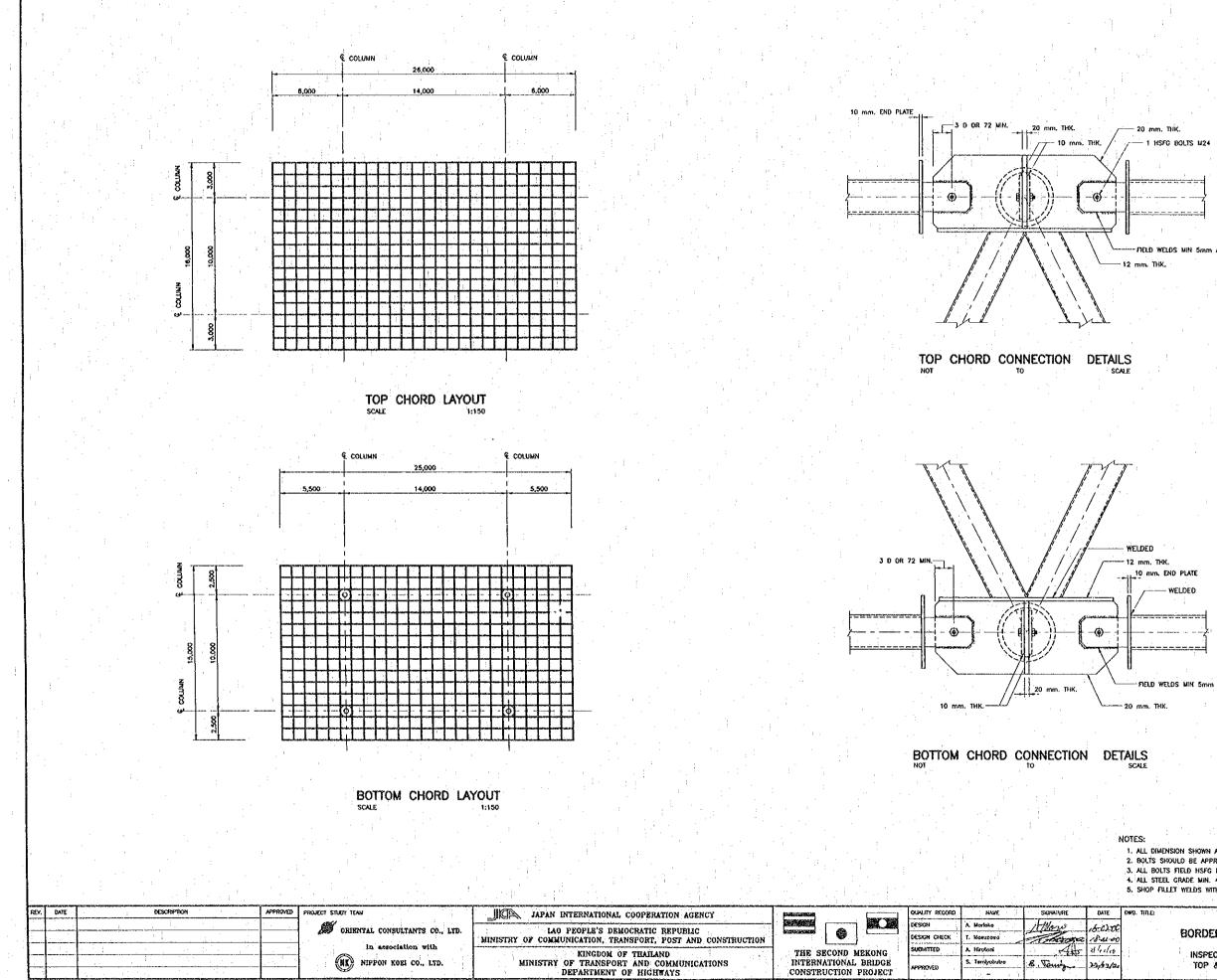
6. THE STRUCTURE WELDING USE "FILLET WELD" LEG SIZE EQUAL OR MORE THAN 7. OPEN ENDS OF STEEL PIPE SHOULD BE CLOSED WITH 10 mm WELDED END PLATES.

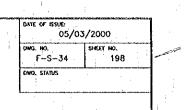
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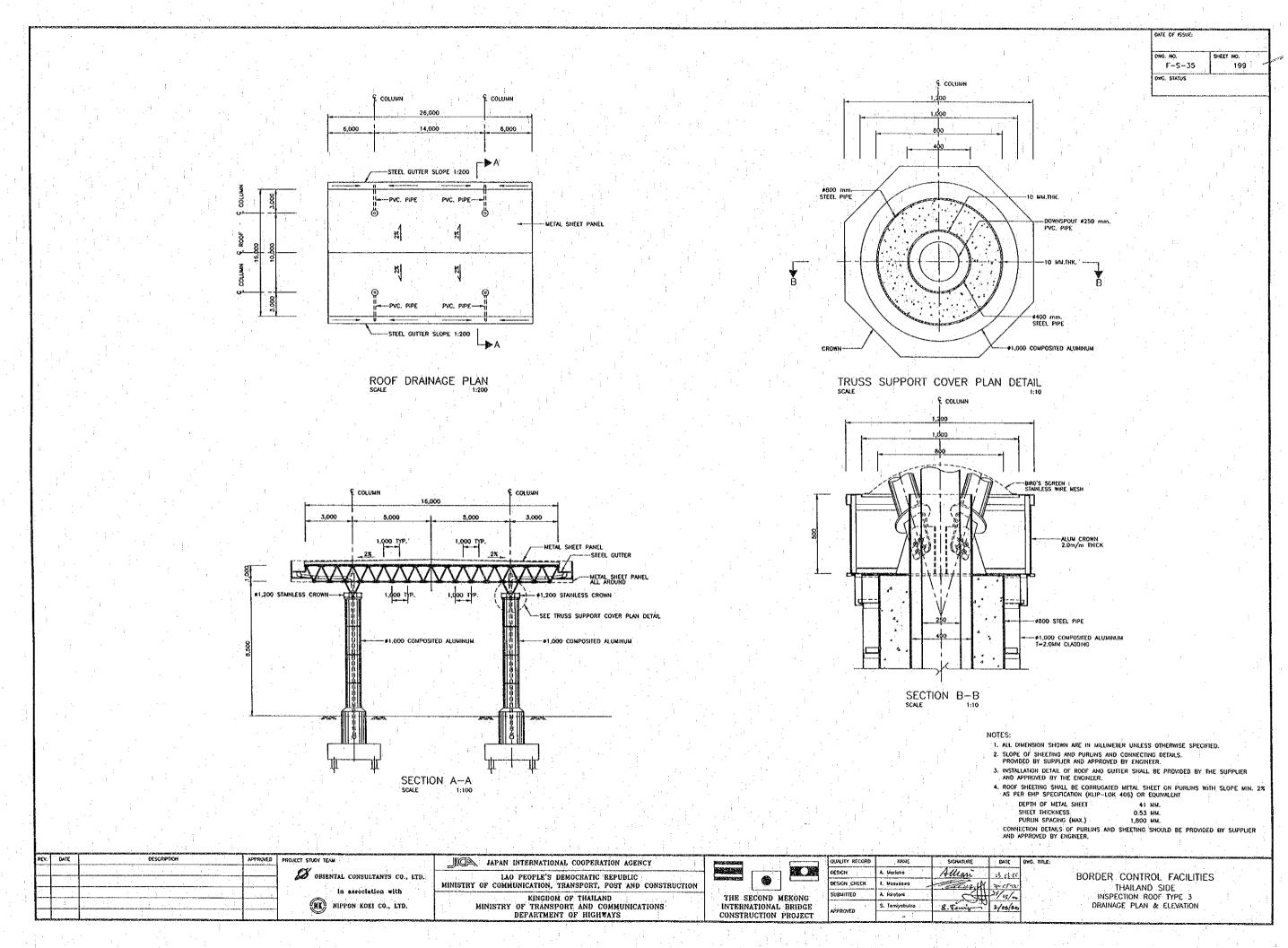


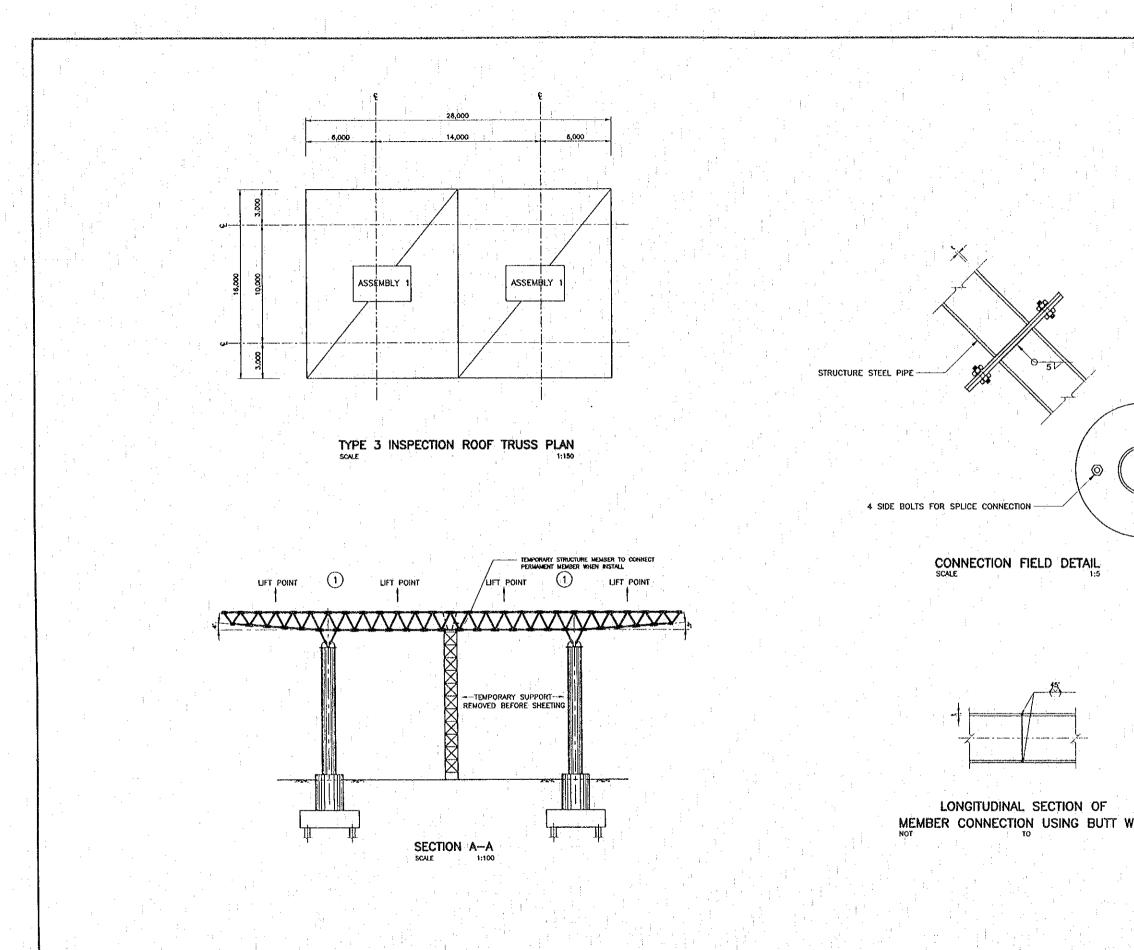
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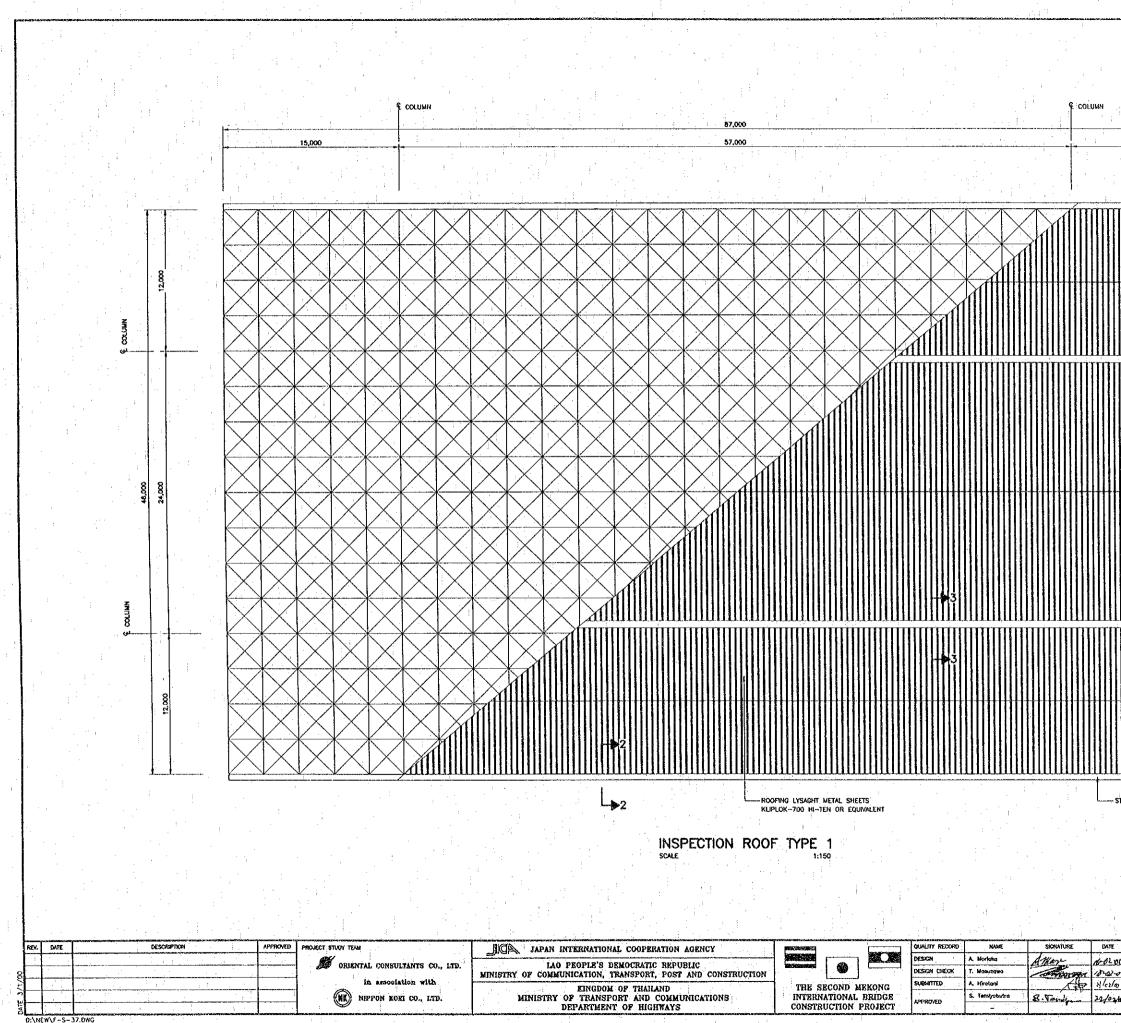
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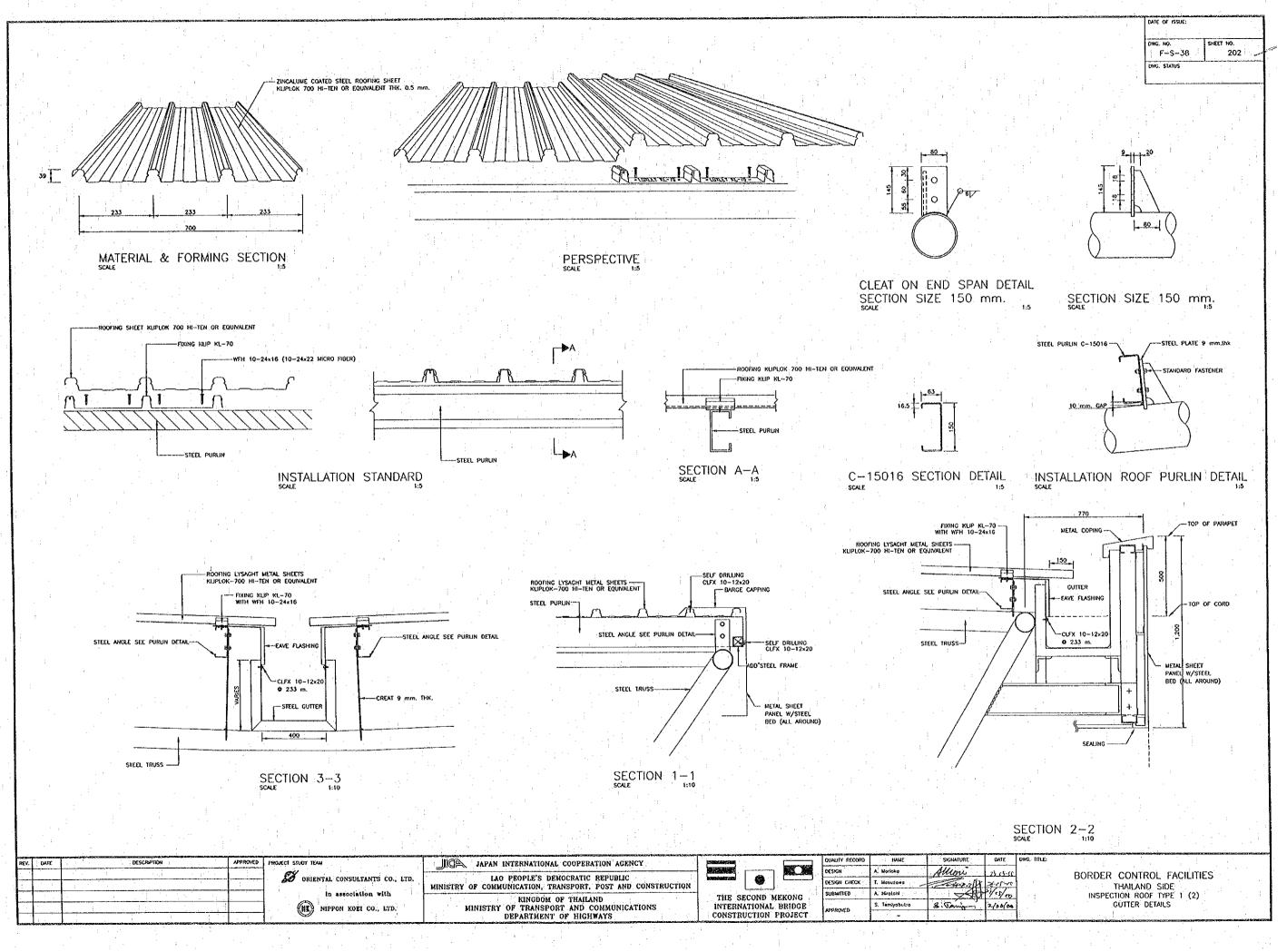


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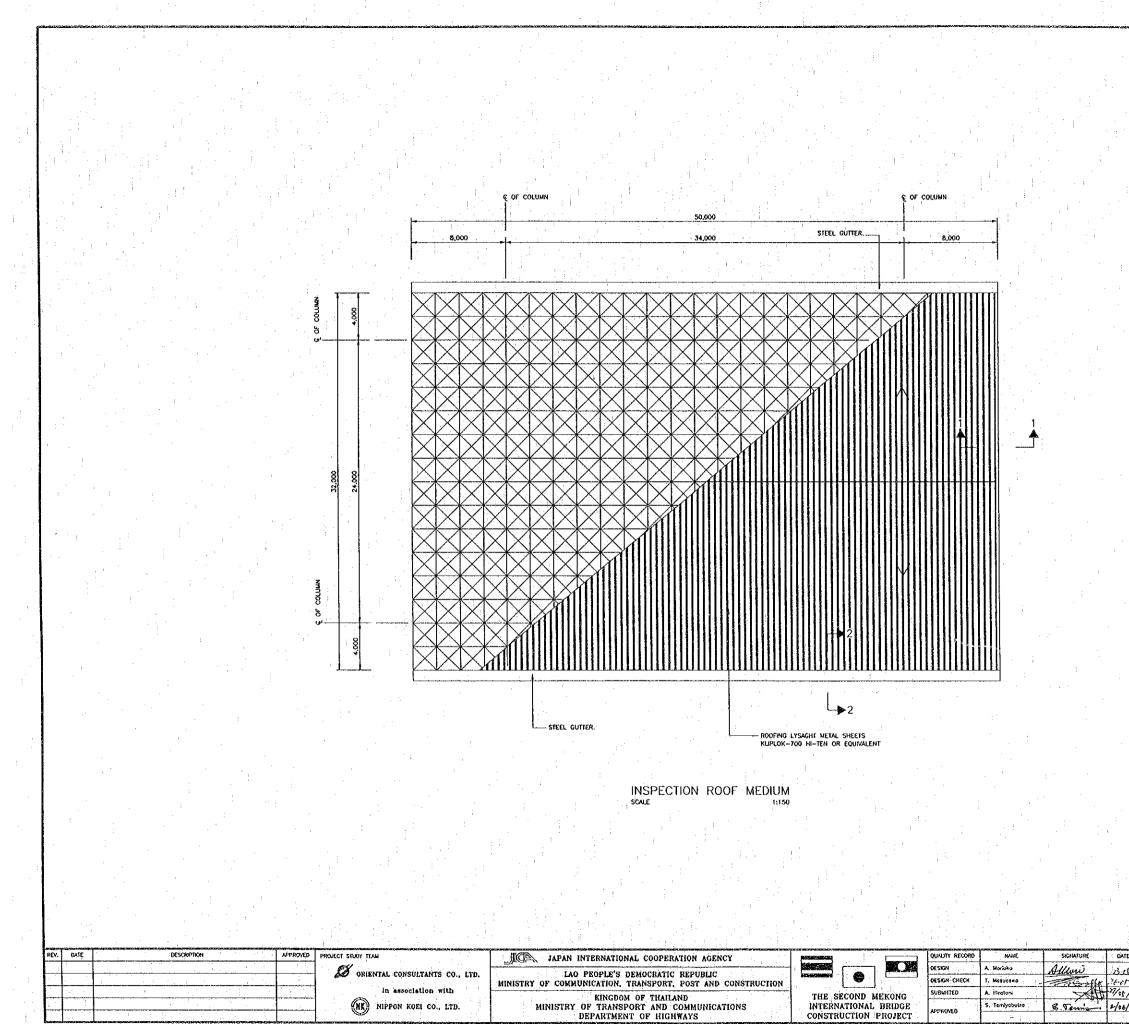
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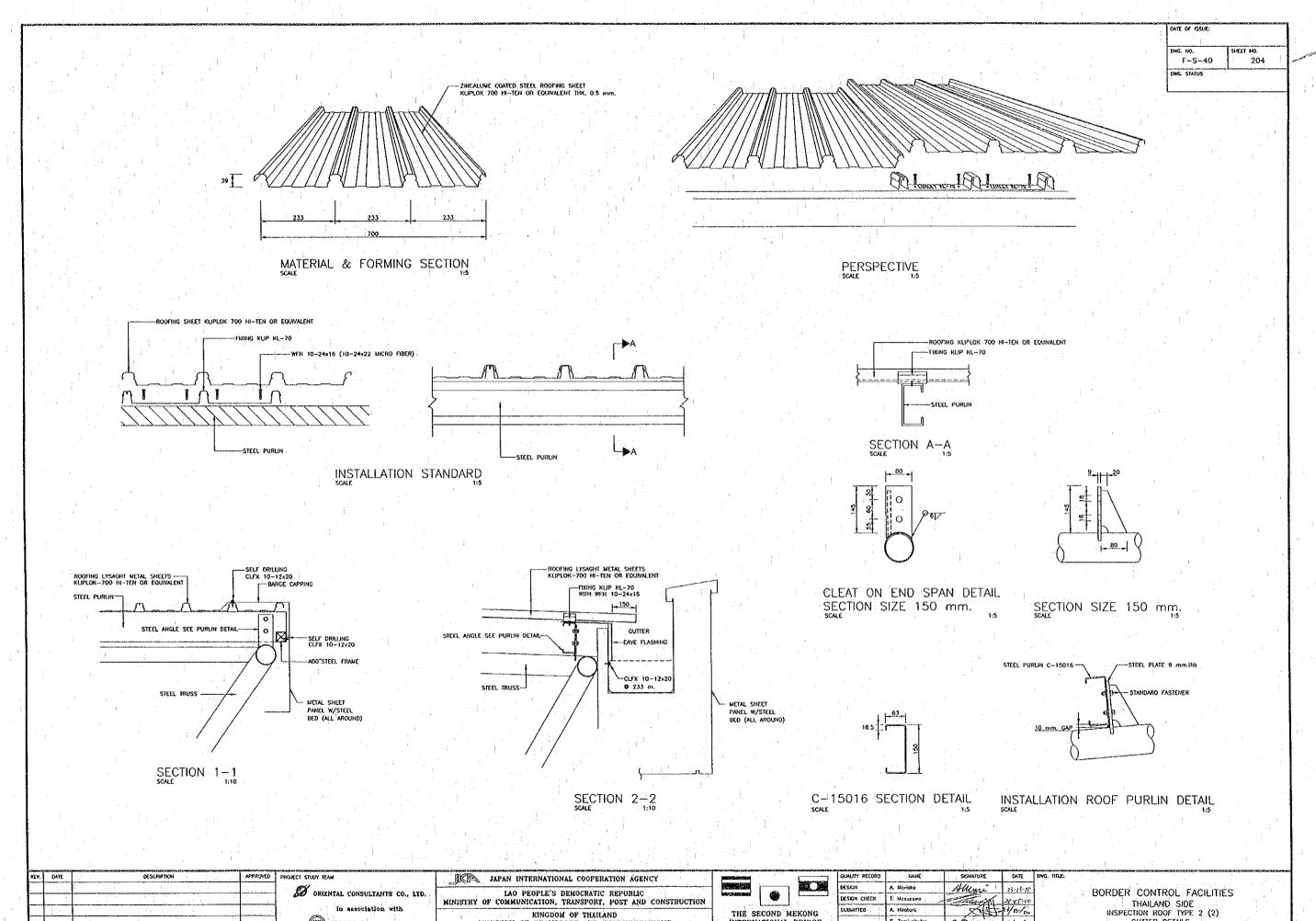
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INTERNATIONAL BRIDGE

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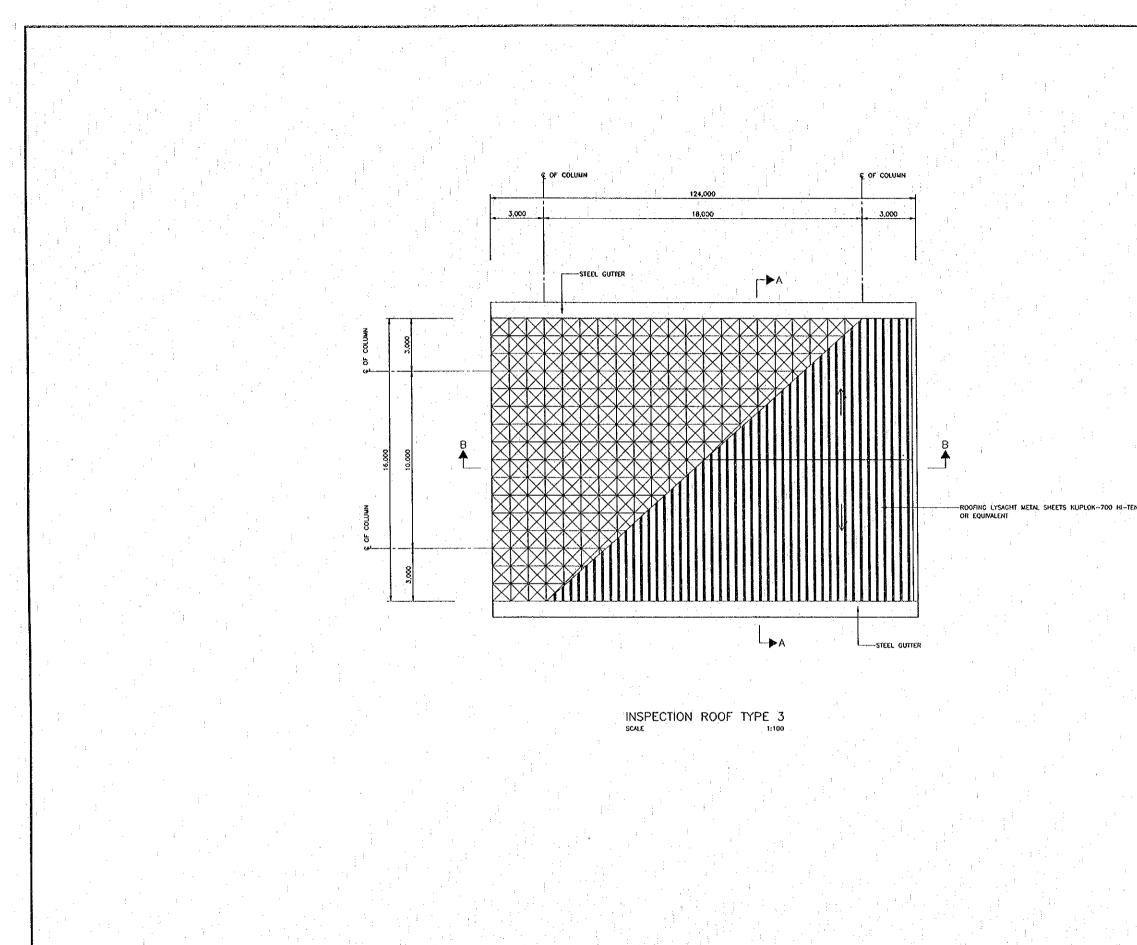
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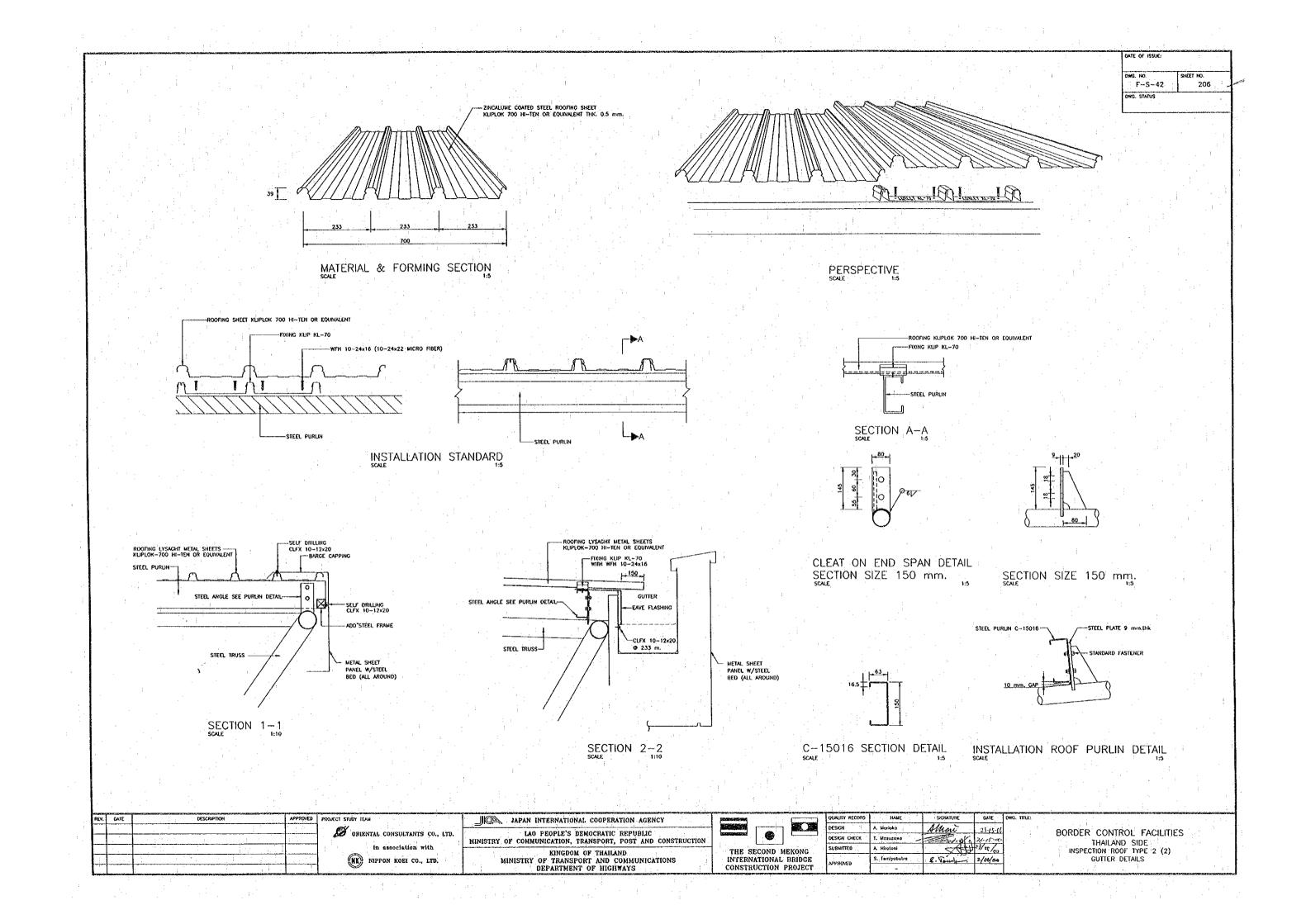
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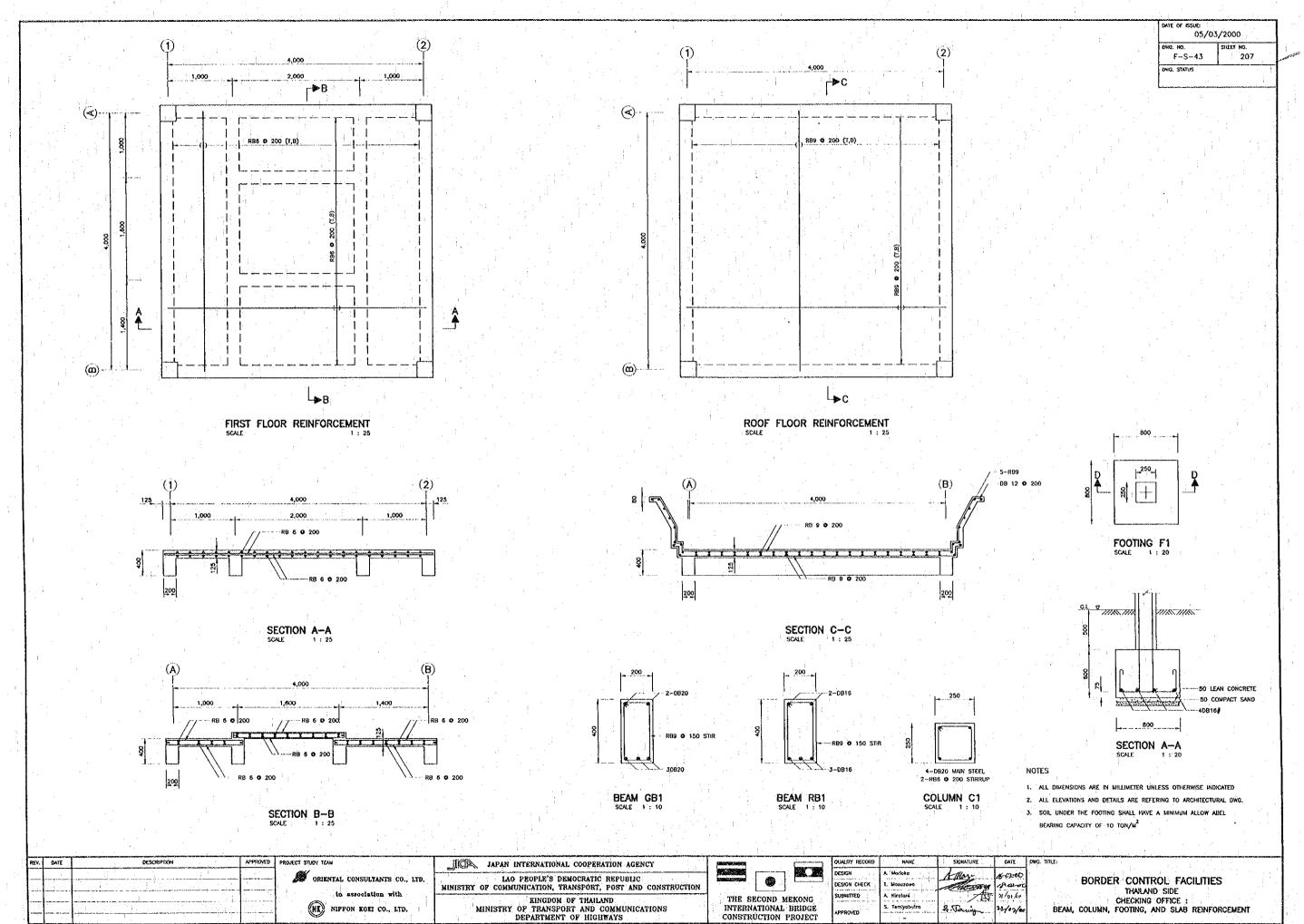
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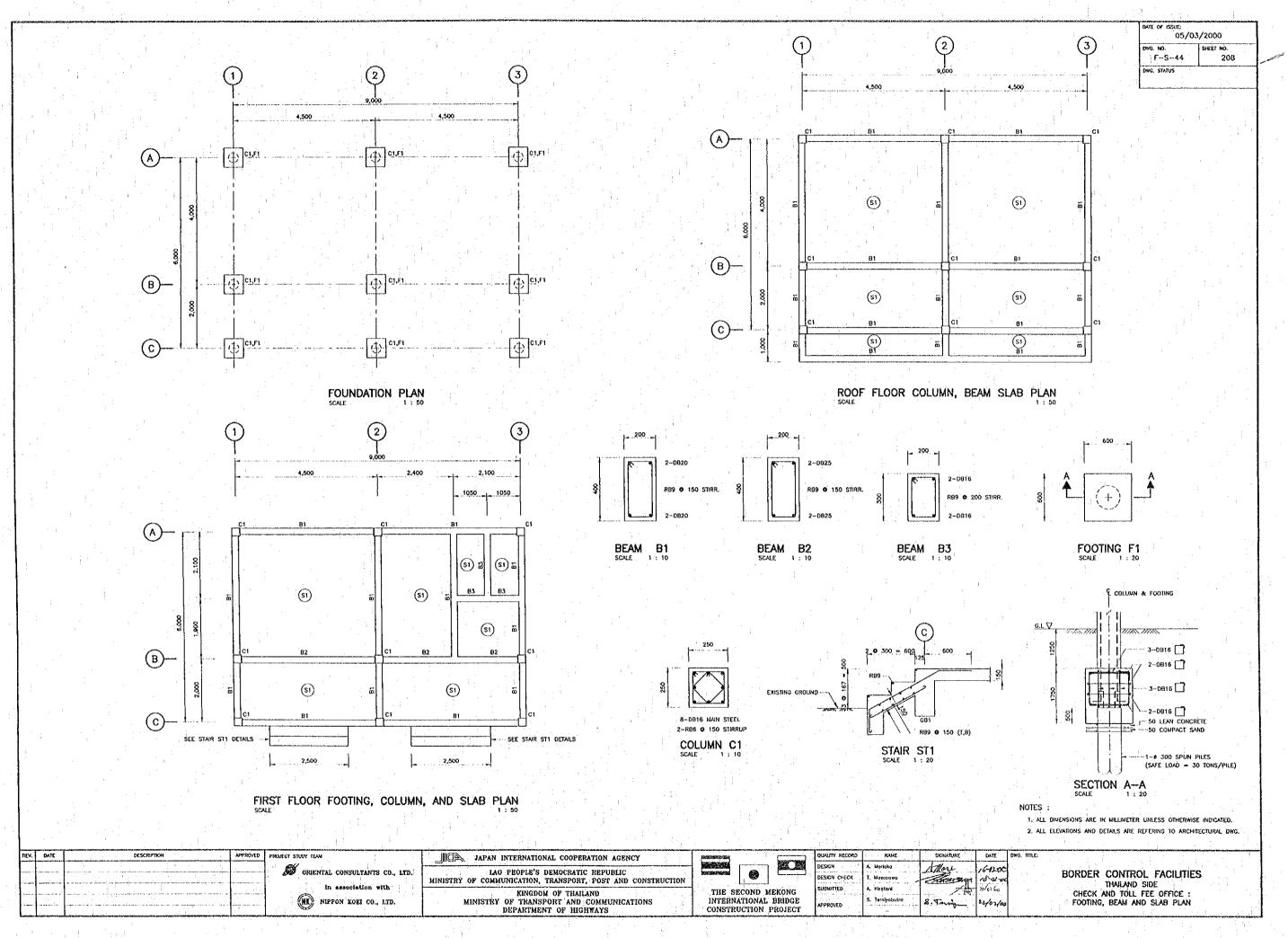


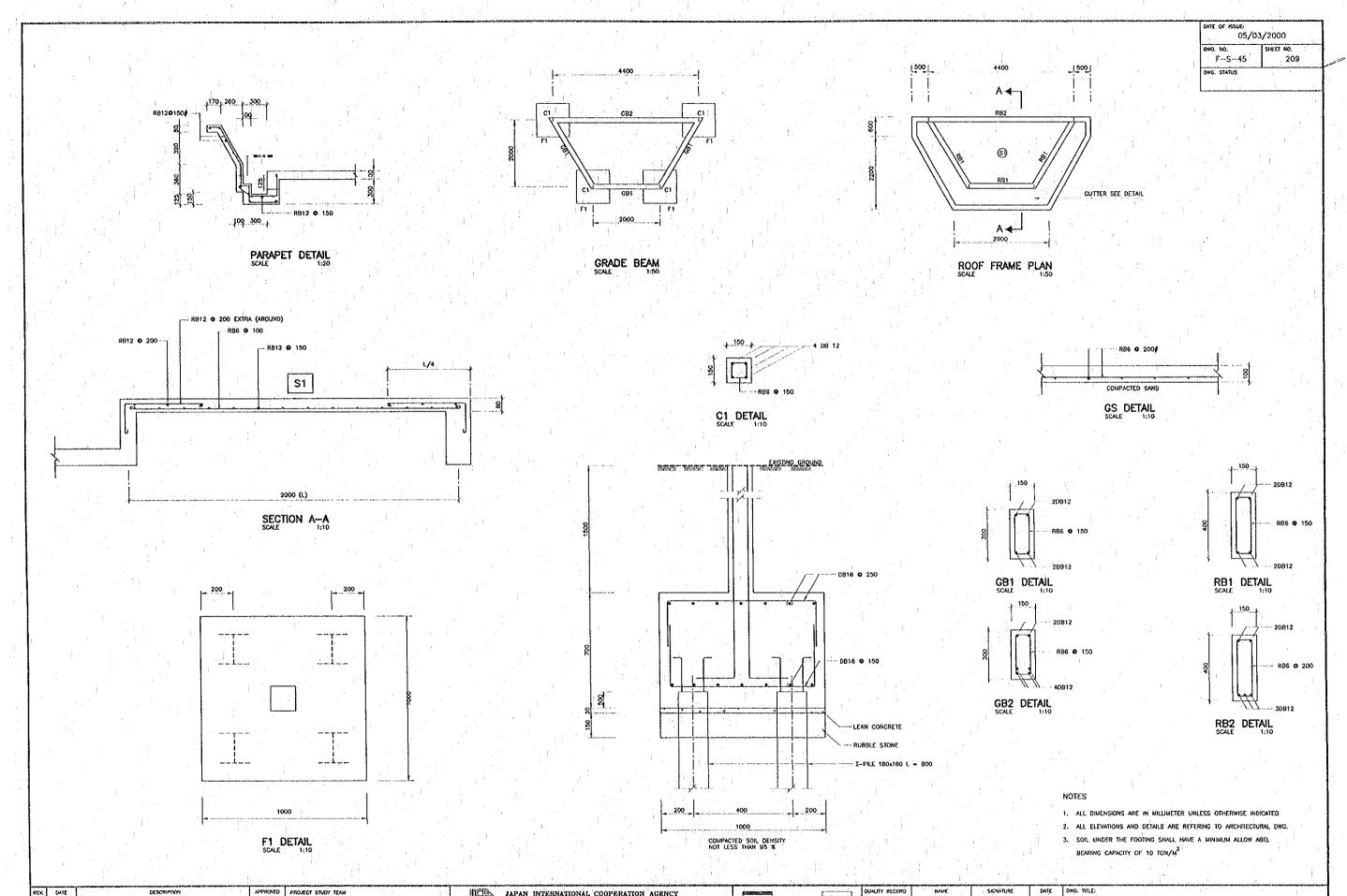
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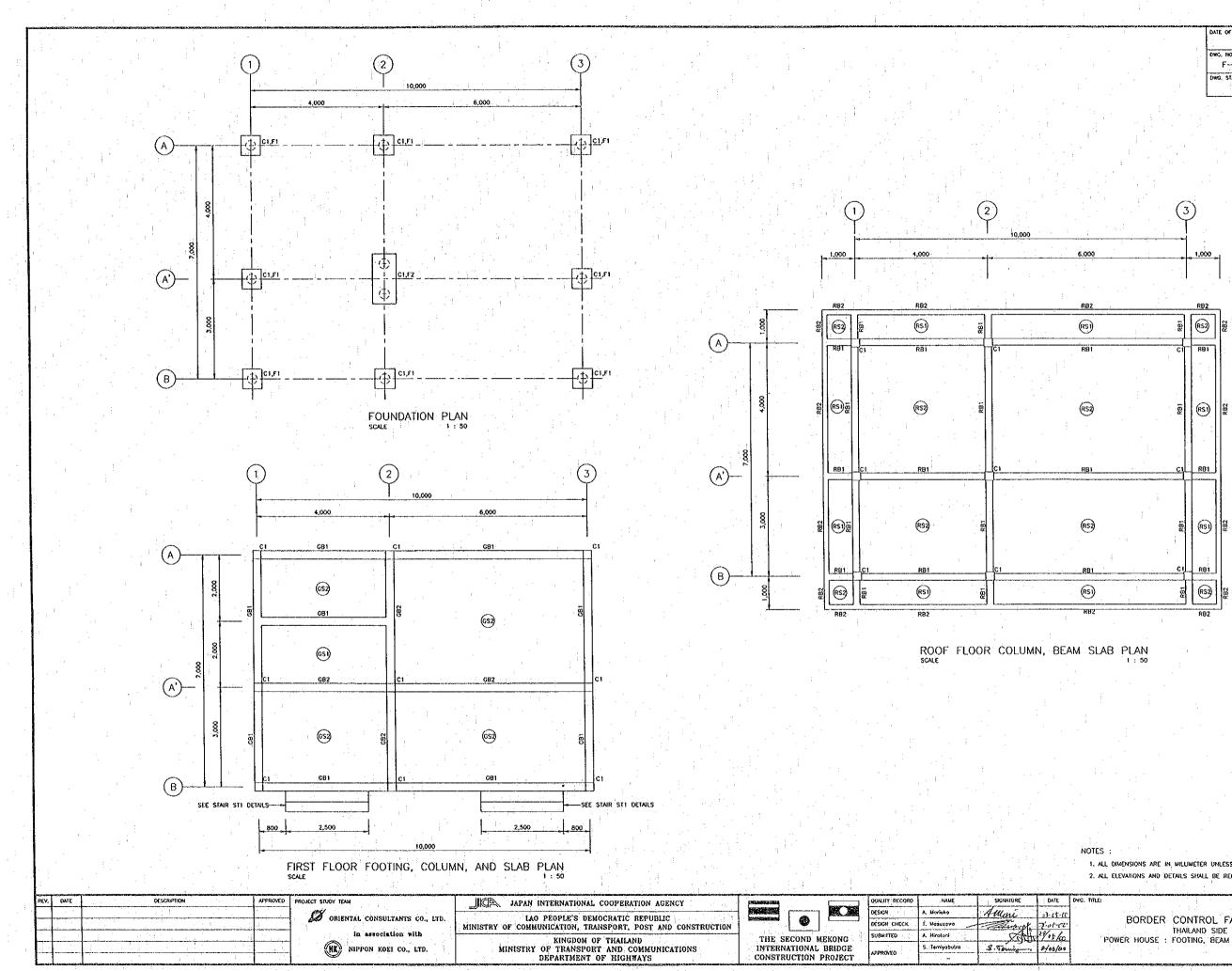


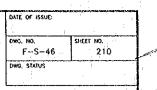




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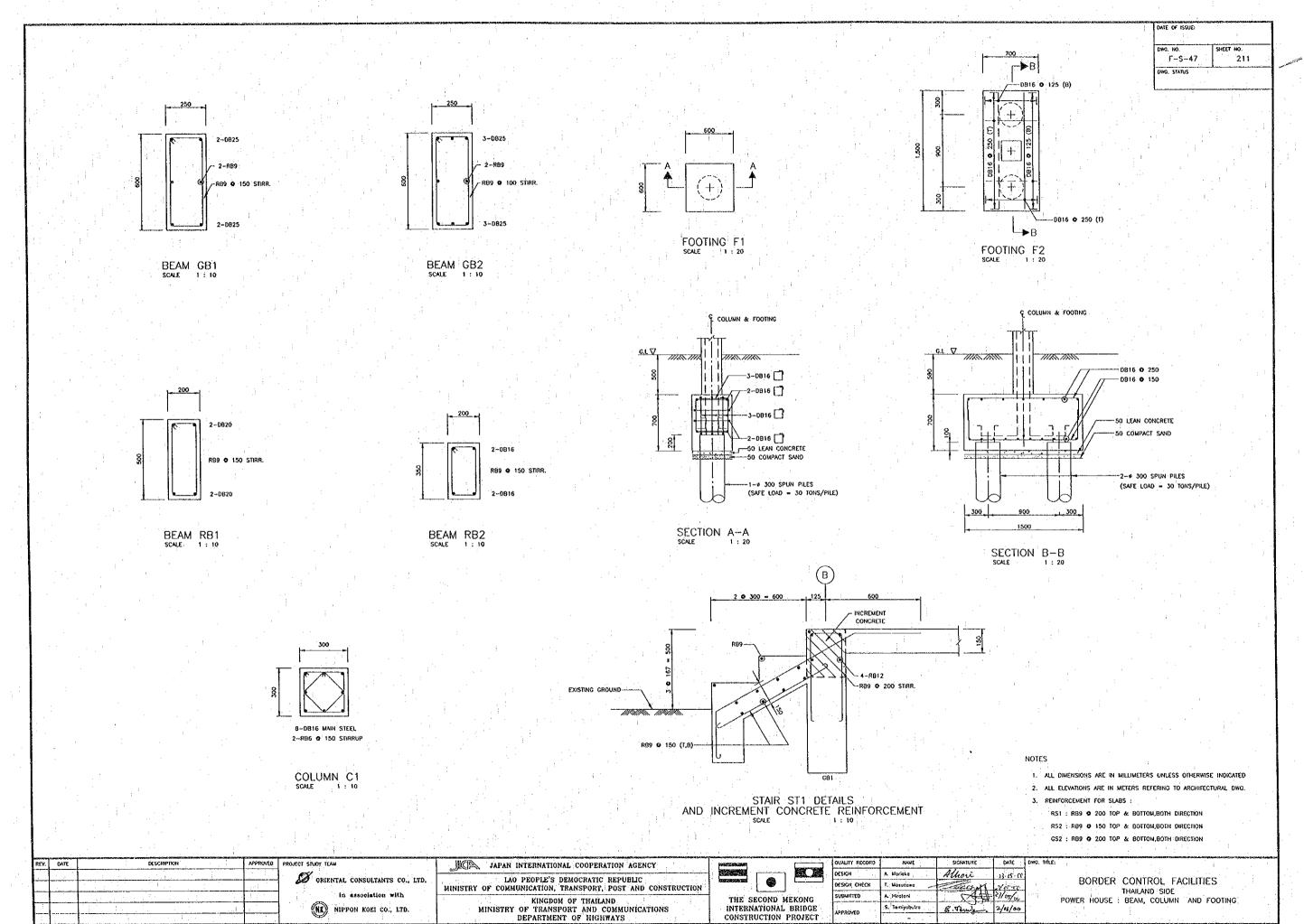
BORDER CONTROL FACILITIES THAILAND SIDE CHECK POINT BOOTH : STRUCTURAL DETAILS





1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED. 2. ALL ELEVATIONS AND DETAILS SHALL BE REFERRED TO ARCHITECTURAL DWG.

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		(2) EMERGENCY DIEGEL GENERATOR		(1) WATER SUPPLY SYSTEM	
		(3) POWER DISTRIBUTION PANEL,	1. 1	(2) WASTE WATER DRAINAGE SYSTEM	
		(4) EXTERNUL LIGHTING		1-2 AR CONDITIONING AND VENTILATION SYSTEM	
	E La C	(5) CABLE AND MIRBAS		1-3 FIRE FIGHTING SYSTEM	
		(6) UNDER GROUND CONDUTT, MANHOLE AND HANDHOLE	· · · · ·	1-4 CML WORK FOR UNDER GROUND PIPE	•
		(7) CONDURTS, FITTINGS AND DOXES			
	4	(8) UCHTING AND POWER OUTLET SYSTEM		2, GENERAL NOTES	
		(0) PRVATE TELEPHONE SYSTEM		(1) EXPENSES RELATED TO CONSTRUCTION AND PROCEDURES FOR WATER DISTRIBUTION OBLIGATE	D TO
		(10) PUBLIC ANNOUNCING SYSTEM	· ·	THE WATER AUTHORITY SHALL BE PAID BY THE CONTRACTOR.	
		(11) TY SYSTEM		(2) WATER SOURCE : WELL (NEW CONSTRUCTION : SCOPE OF WORK)	:
		(12) COMPUTER SYSTEM		(3) UNDER GROUND PIPES SHALL BE INSTALLED NOT LESS THAN 1000mm BELOW F.GL	
		(13) GROUNDING		(4) THE PRESSURE CLASS OF PVC PIPES SHALL BE AS FOLLOWS.	
		(15) CML WORKS FOR UNDER GROUND CONDUIT.		FOR WATER SUPPLY : CLASS 13.5	•
	:			OTHERS : CLASS 8.5	4 <sup>1</sup>
			1.1	(5) THE QUALITY OF DISCHARGING WATER TREATED BY SEPTIC TANK SHALL BE AS FOLLOWS.	
		2. GENERAL NOTES		BOD : UNDER 60mg	
		(1) ALL EXPENSES RELATED TO CONSTRUCTION AND PROCEDURES ON POWER DISTRIBUTION OBLICATED TO		SS UNDER 50mg	· · · ·
		THE ELECTRICITY AUTHORITY SHALL BE TOTALLY PAID BY CONTRACTOR.		(8) THE INVERT FOR ORAINAGE PIPE SHALL BE INSTALLED AT LESS THAN JOIN OF INTERVAL	
		(2) ALL EXPENSES RELATED TO CONSTRUCTION AND PROCEDURES ON TLEPHONE LINE DISTRIBUTION	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	(7) AR TEMPERATURE	
		obligated to the telephone authority shall be totally paid by contractor.		MAXIMUM DUTDOOR : 40.5 °C	
		(J) POWER		RECOMMENDED INDOOR : 26.0 °C	
	1	RECEIVING : 3 PHASE 3 WIRE 22KV SOHZ (FROM PEA)	a di	(8) RECOMMENDED AR VOLUME : 30m/HR*men	: ".
		DISTRIBUTION : 3 PHASE 4 WIRE 380-220V 50HZ		(9) ALL AR CONDITIONER UNIT SHALL BE SPRIT TYPE.	
		1 PHASE 2 WIRE 220V 50HZ		(10) EXPENCES ON ELECTRICITY, WATER AND OTHER UTILITIES DURING CONSTRUCTION SHALL BE F	PAID BY TH
		(4) UNDER GROUND CONDUTTS SHALL BE INSTALLED NOT LESS THAN GOOMAN BELOW F.GL		(11) DON'T SCALE FROM THE LAYOUT MECHANICAL DRAWING,	
		(5) LIGHTING SWITCHES SHALL BE MOUNTED AT 120cm F.FL UNLESS OTHERWISE INDICATED.		THE WORK ACCORDING TO ARCHITECTURAL AND MECHANICAL DETAILS.	
		(6) POWER OUTLETS SHALL BE MOUNTED AT 30cm ETHER ABOYE F.FL OR ABOYE BENCH			
:	:	LEVEL AS APPROPRIATE UMLESS OTHERMISE INDICATED.			
		(7) TELEPHONE OUTLETS SHALL BE LOCATED AT JOEM ABOVE F.FL UNLESS OTHERWISE INDICATED.			
		(8) THE CONTRACTOR SHALL PROVADE AND INSTALL ALL JUNCTION AND PULL BOXES REQUIRED FOR			
		THE INSTALLATION OF FLECTRICAL DEVICES AND EQUIPMENT, WHETHER OR NOT SPECIFICALLY INDICATED ON THE PLANS.			
	1 :	(9) WALL MOUNTED POWER DISTRIBUTION PANELS SHALL HAVE 2 SPARE 1 INCH DIA. CONDUITS STORED TO ABOVE AN			: '
		ACCESSIBLE CELLING FOR FUTURE PLAN.			•
:		(10) THE CONTRACTOR SHALL PROVIDE CONDUIT AND OUTLET BOXES WITH PULL WIRE FOR COMPUTER SYSTEM. (11) LIGHTNING ELECTRODE SHALL NOT BE USED FOR ANY OTHER PURPOSES.			
		(11) DURINING ELECTRICITY, WATER AND OTHER UTILITIES DURING CONSTRUCTION SHULL BE PAID BY THE CONTRUCTOR.			
		(12) EAPENCES ON ELECTRICIT, MALER AND OTHER OTIDITES DORING CONSTRUCTION SHALL BE PAUL BY THE CONTRUCTOR. (13) DON'T SCALE FROM THE LAYOUT ELECTRICAL DRAWING.			
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GENERAL SPECIFICATION FOR UTILITY WORK

THE WORK ACCORDING TO ARCHITECTURAL AND ELECTRICAL DETAILS.

1. CONSTRUCTION ITEM

(1) POWER RECEMING FACILITY

I ELECTRICAL WORK

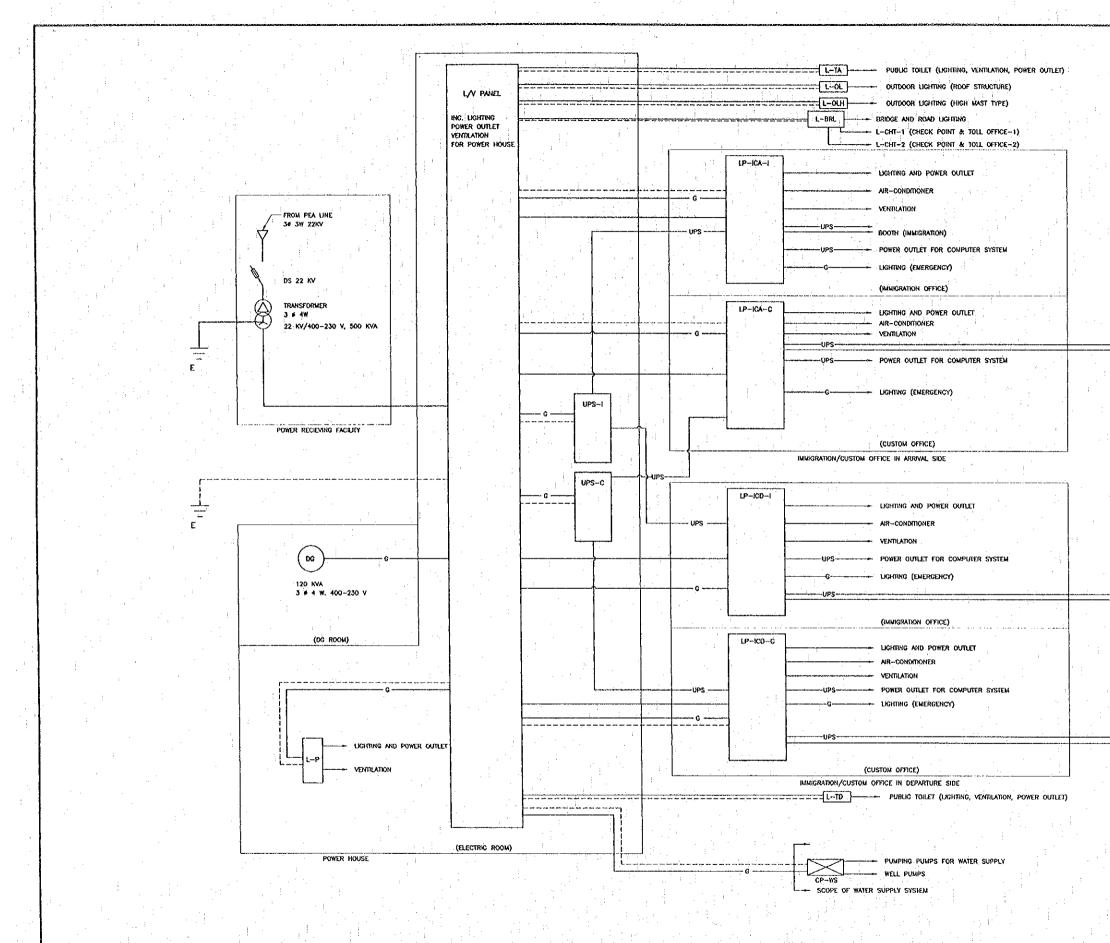
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II MECHANICAL WORK

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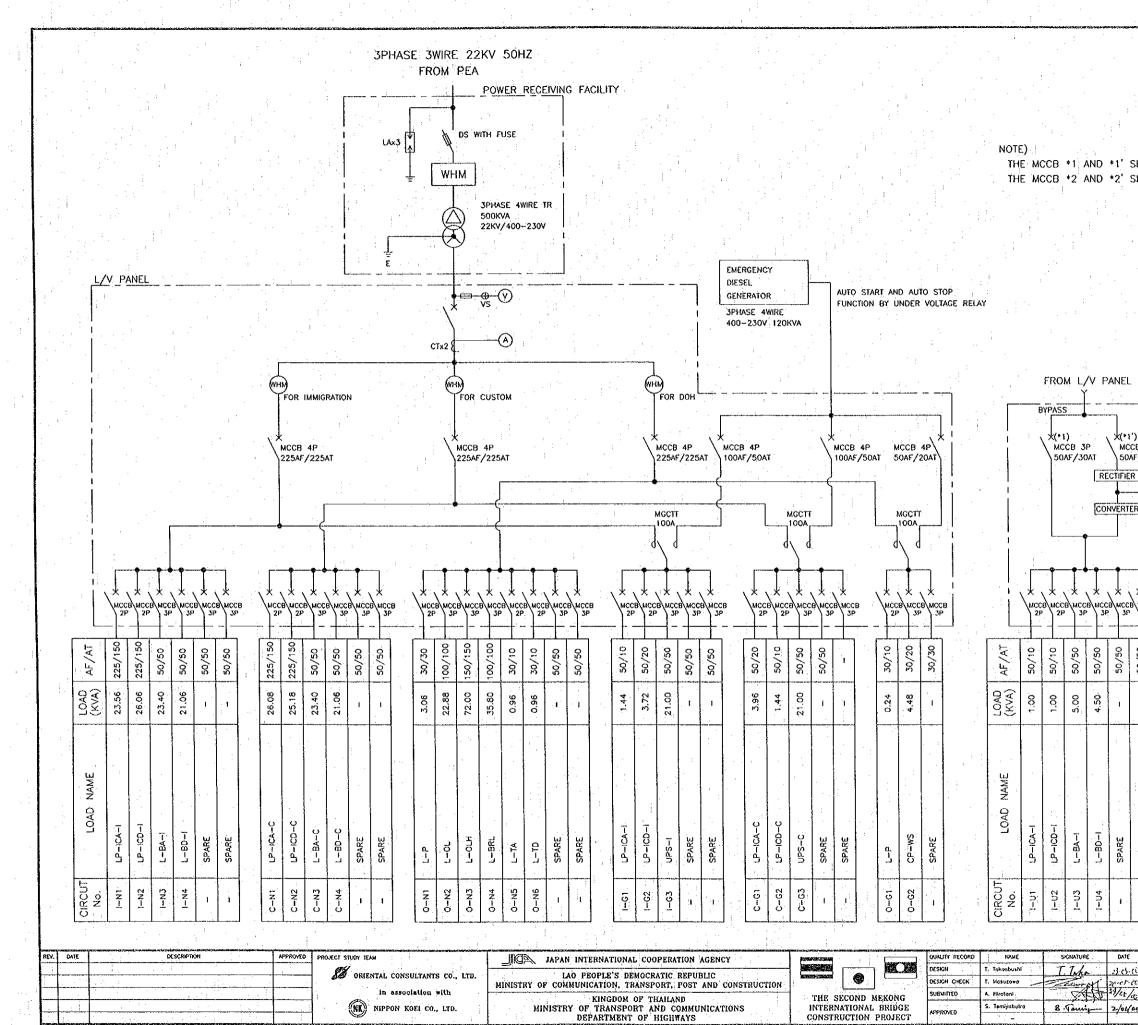
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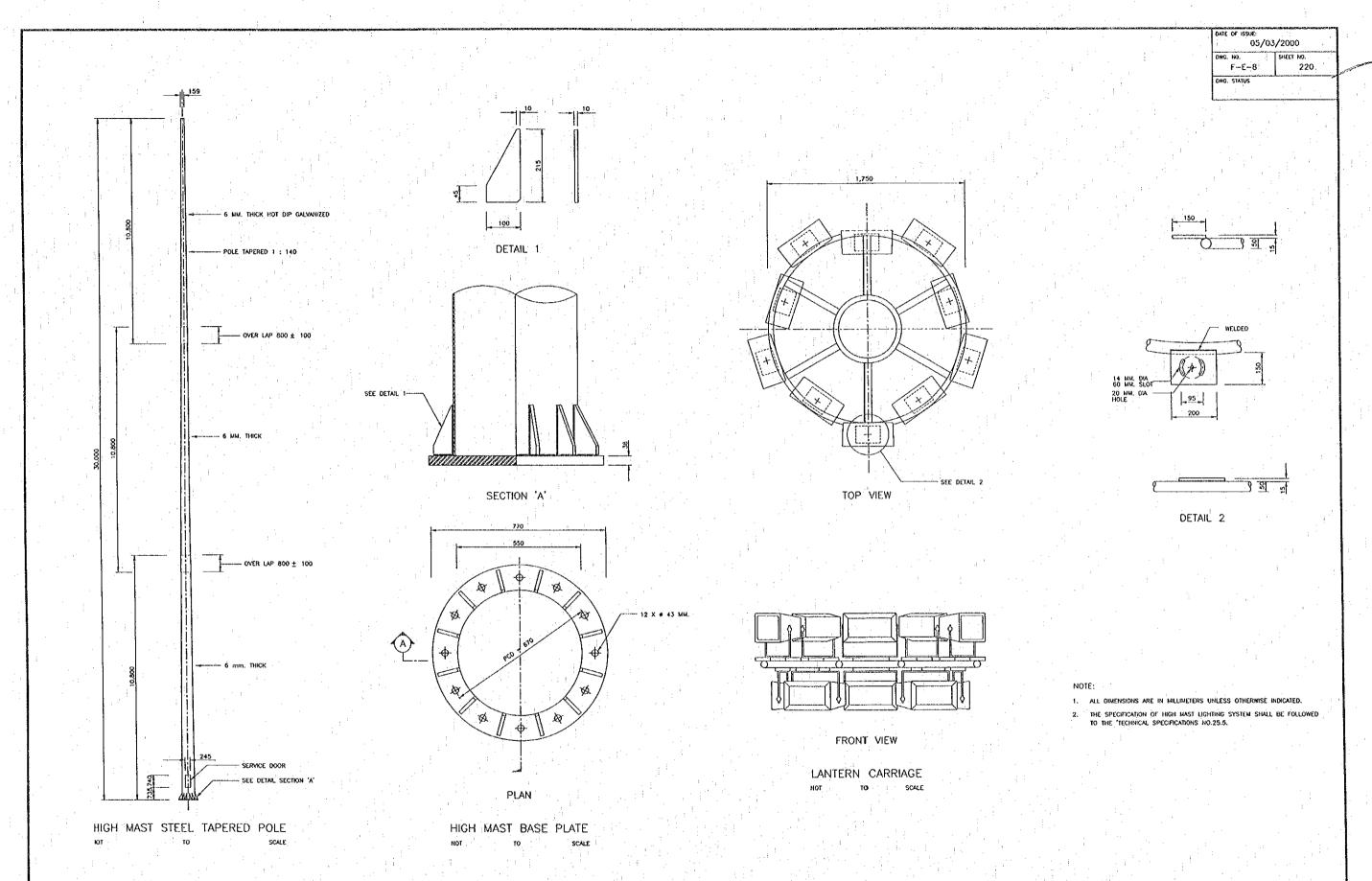
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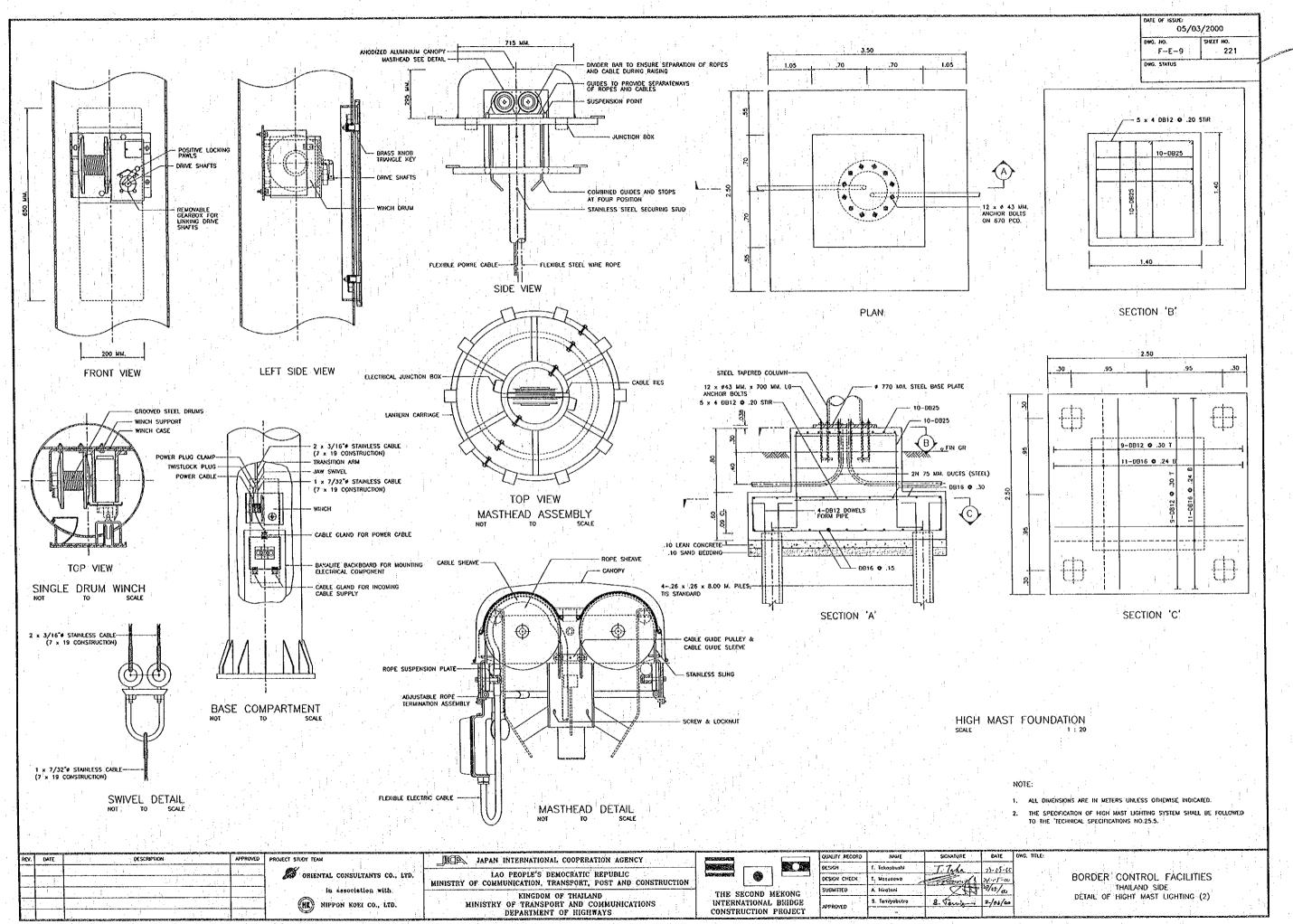
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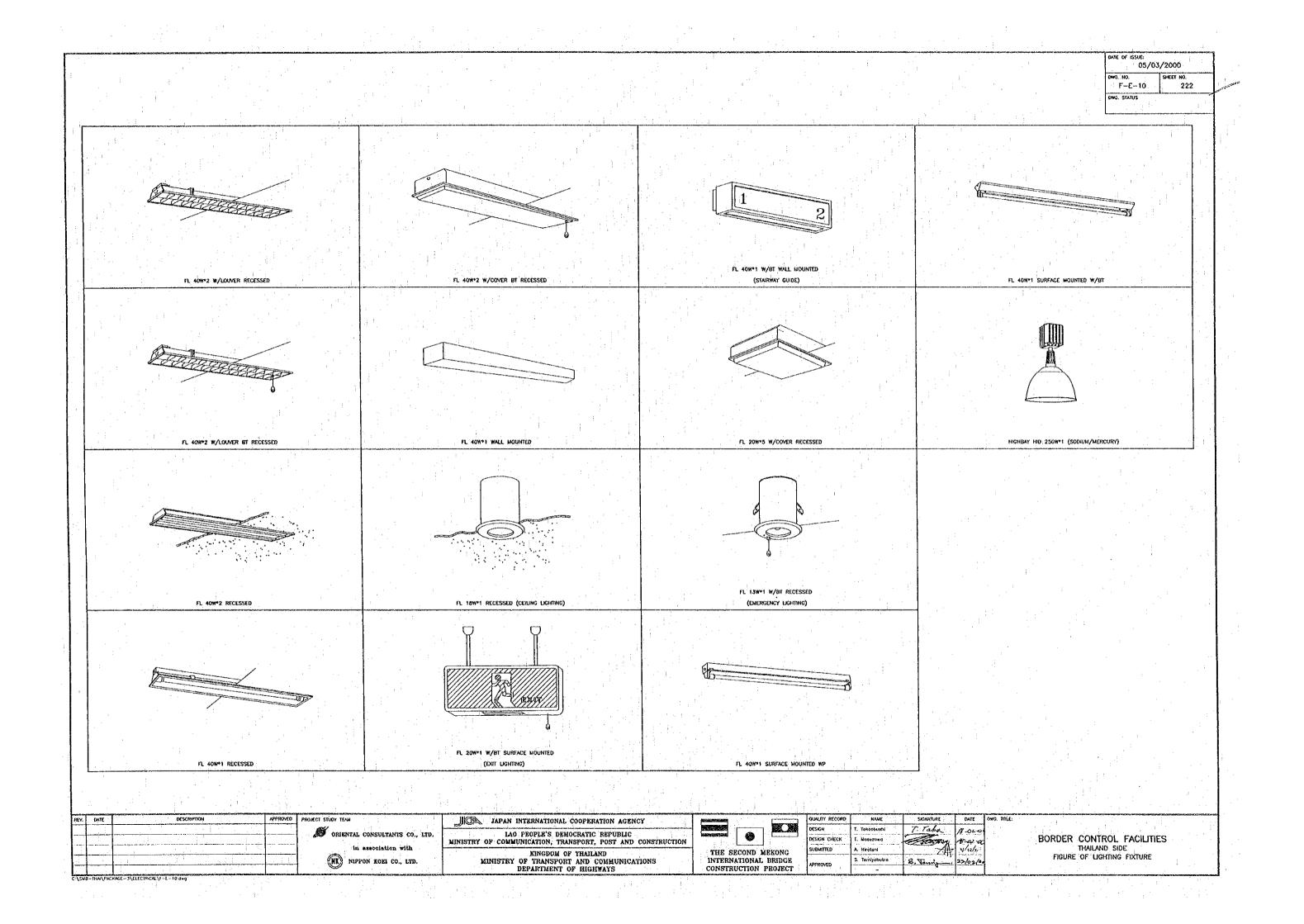
BORDER CONTROL FACILITIES THAILAND SIDE DETAIL OF DISTRIBUTION PANEL (5)



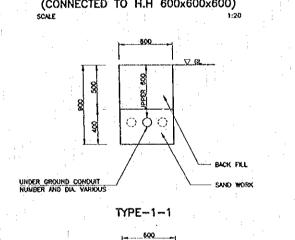
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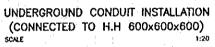
BORDER CONTROL FACILITIES THAILAND SIDE DETAIL OF HIGH MAST LIGHTING (1)





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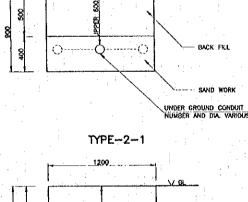


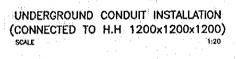


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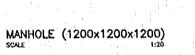
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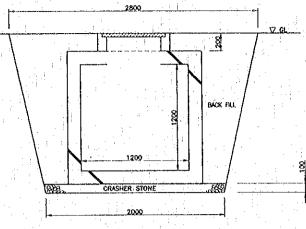


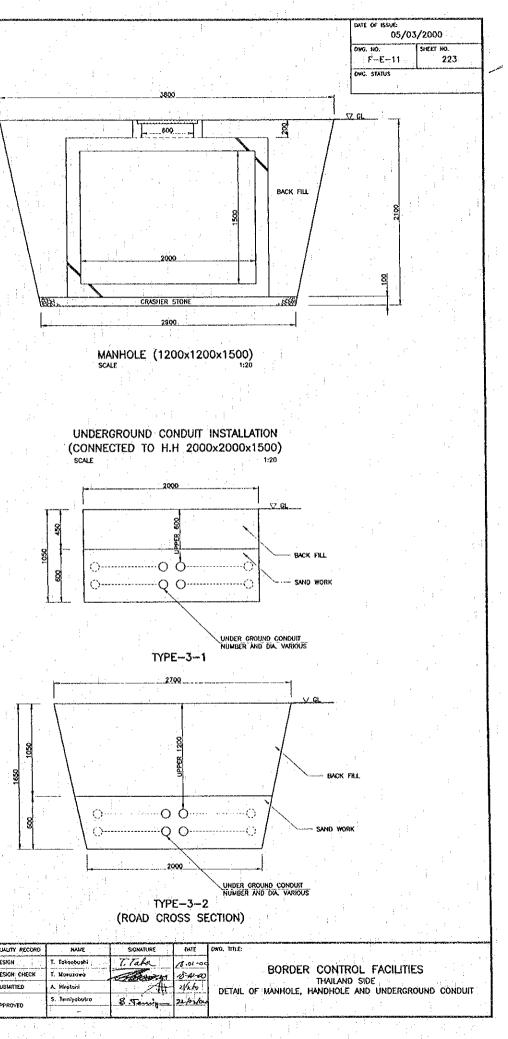


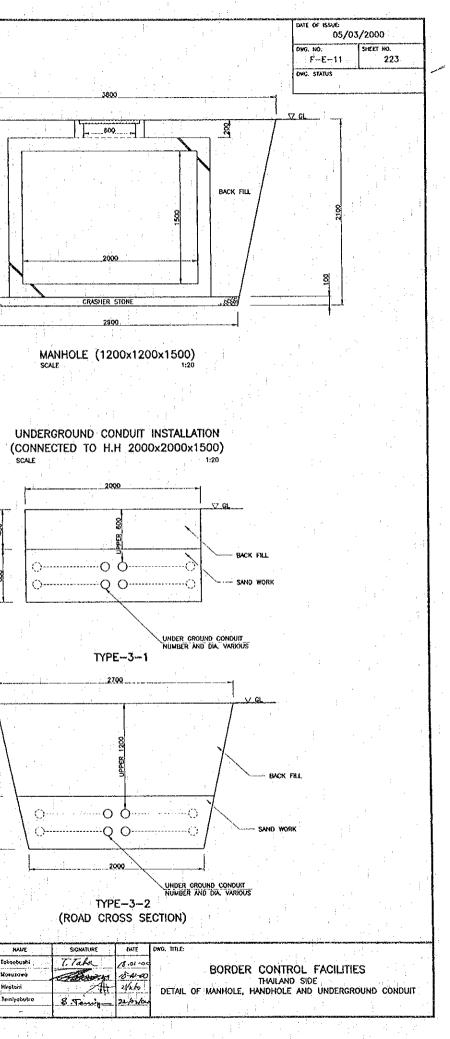
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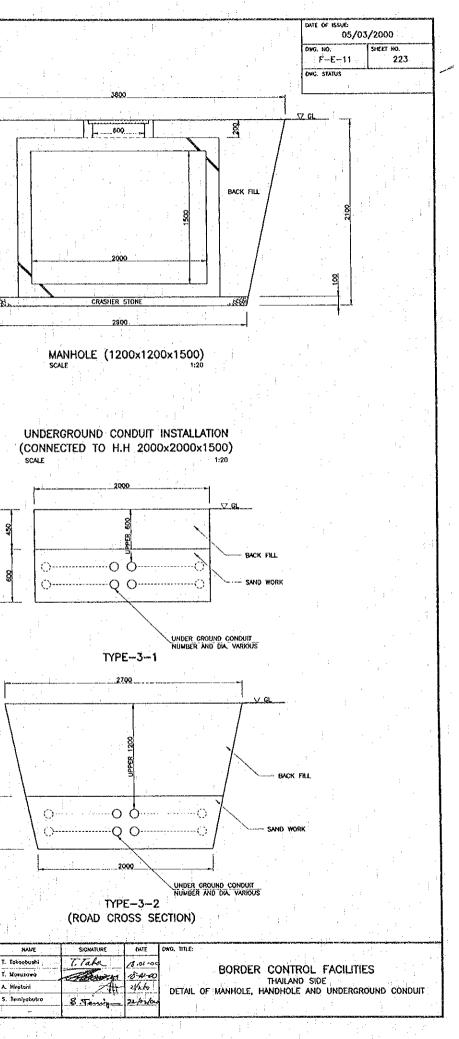


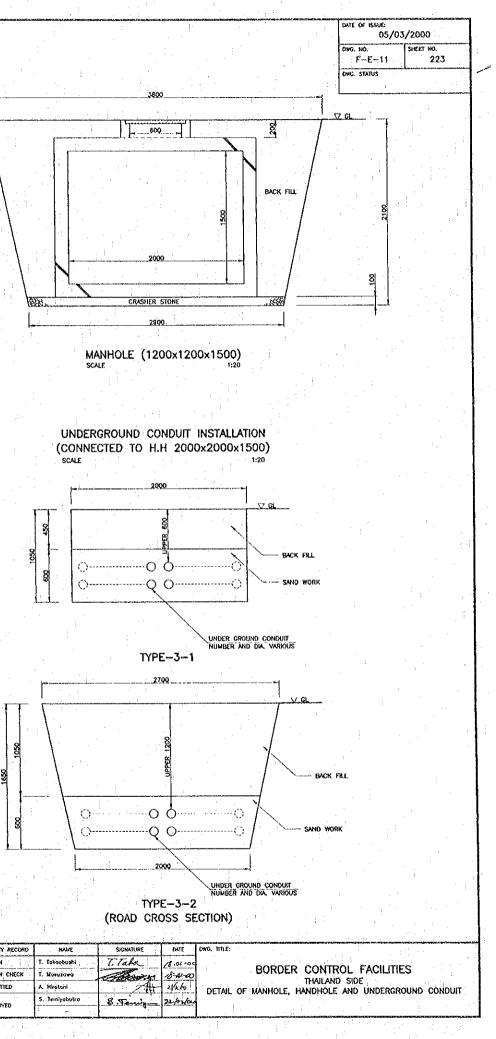


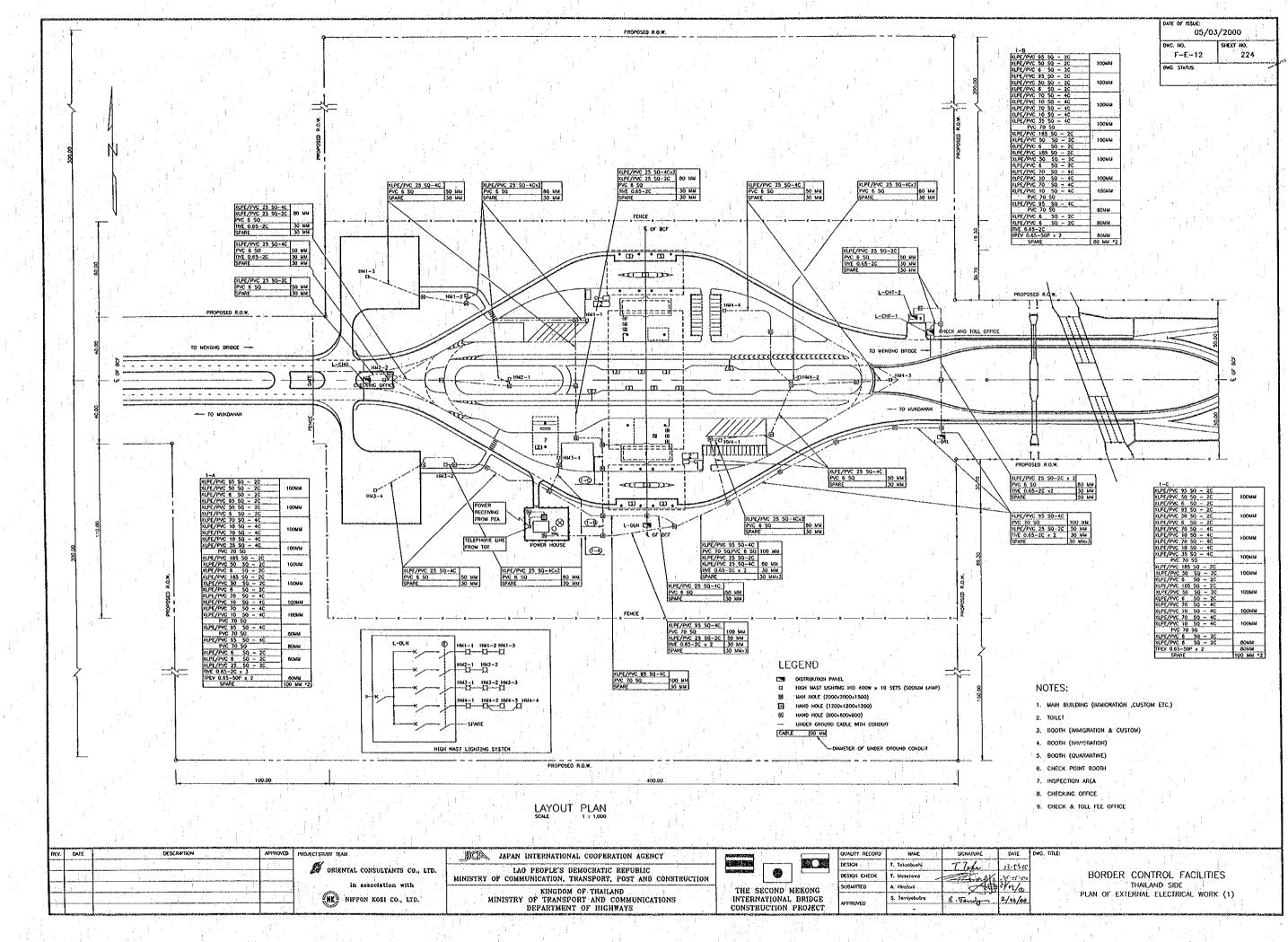


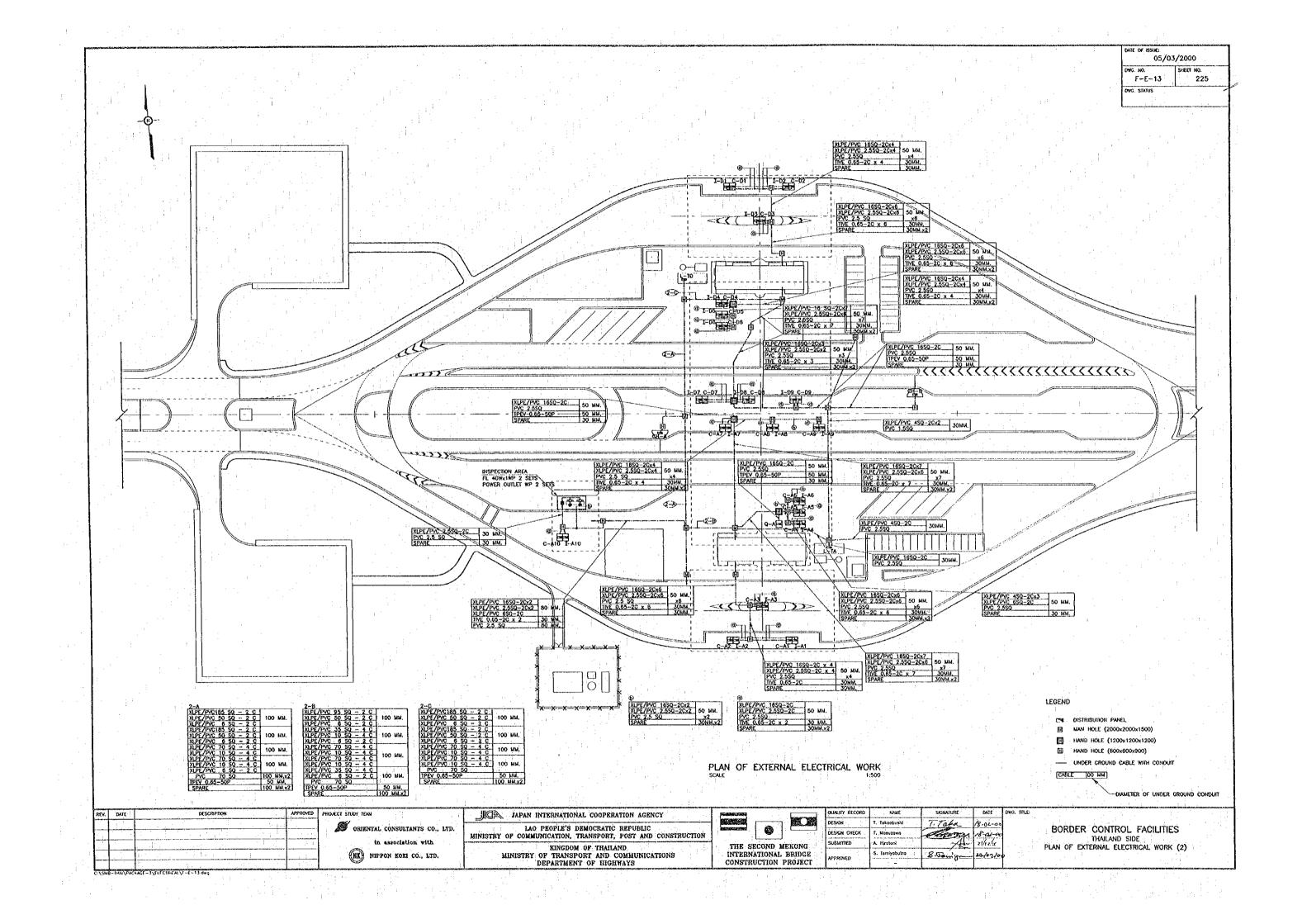


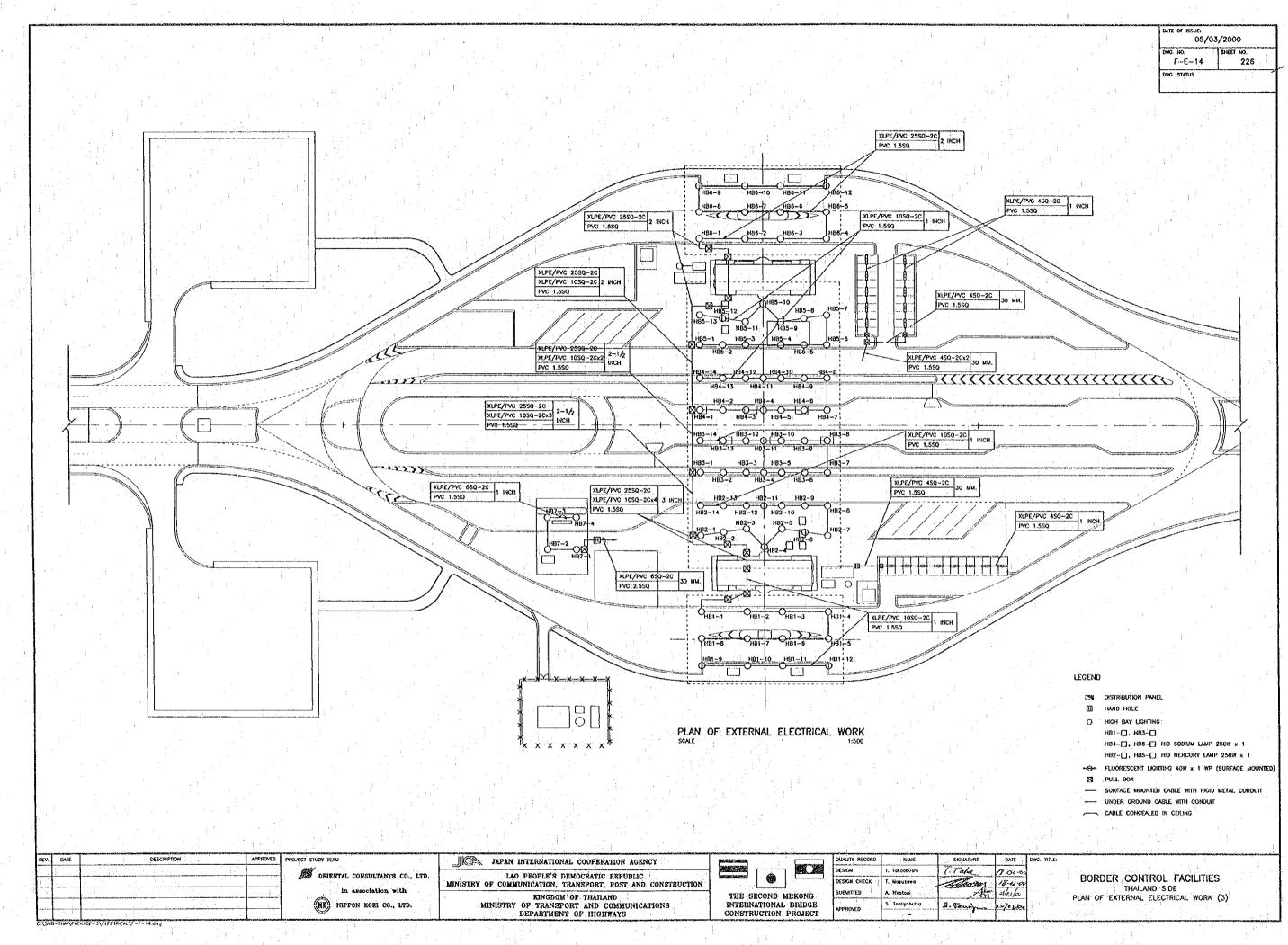


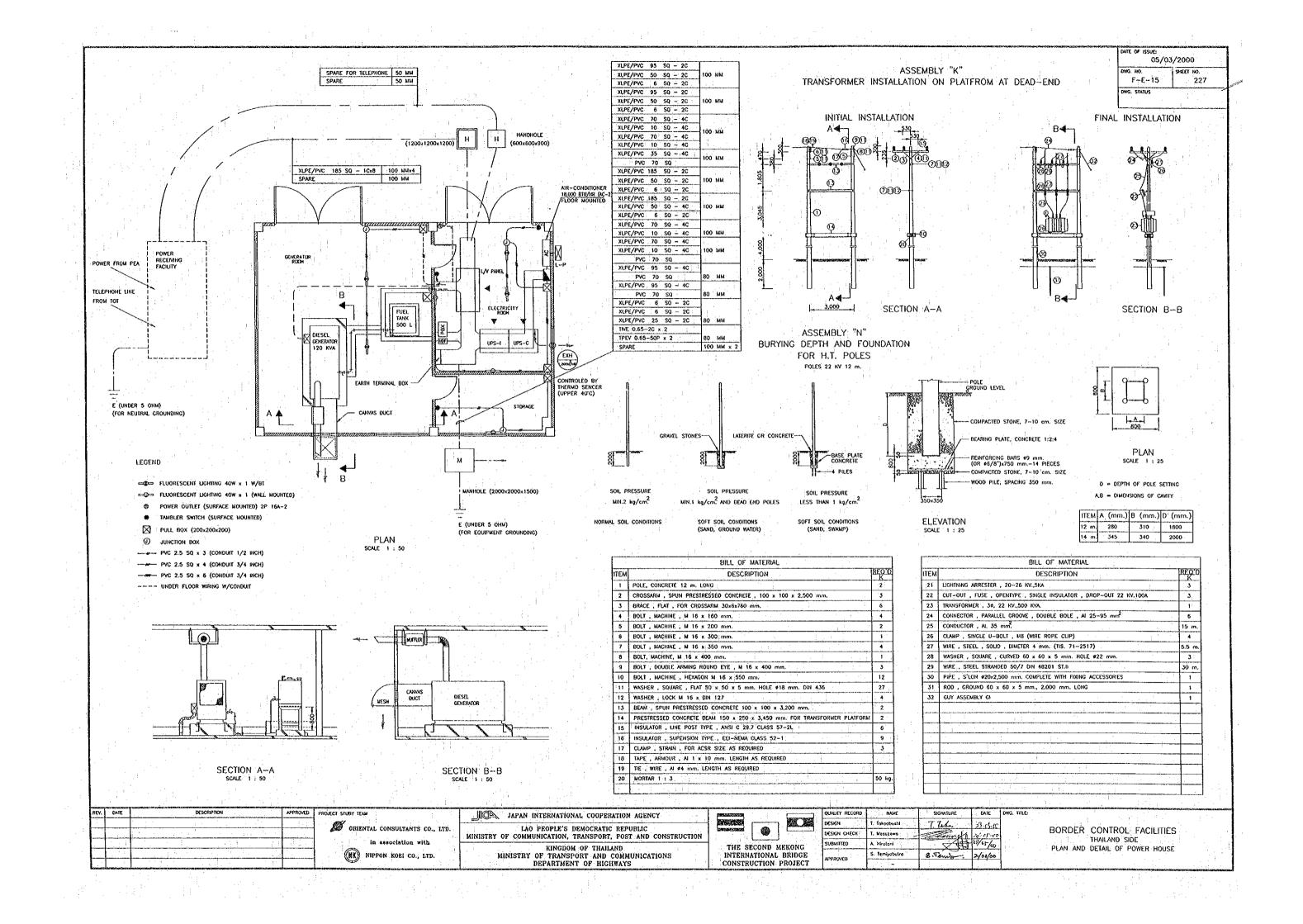


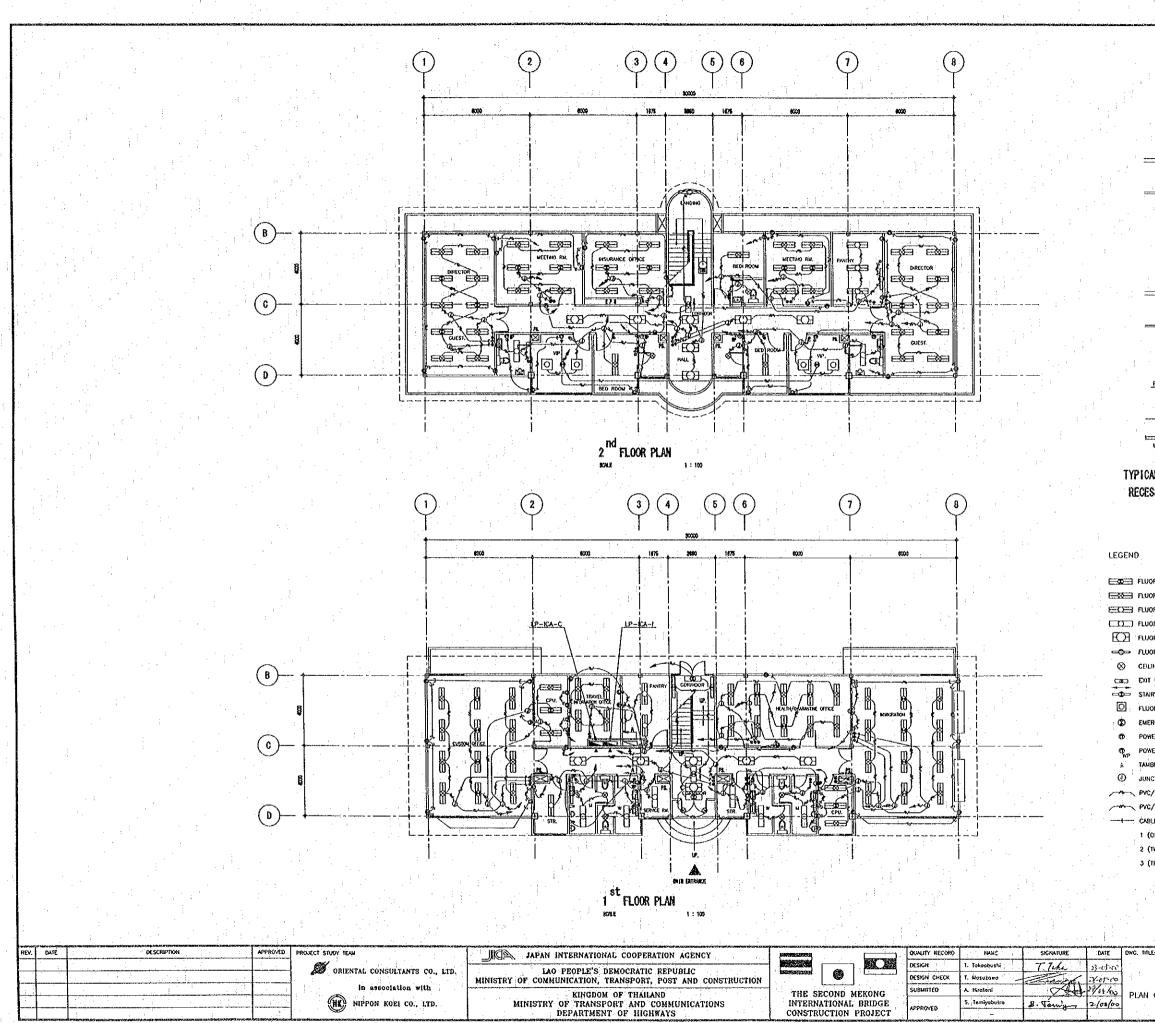


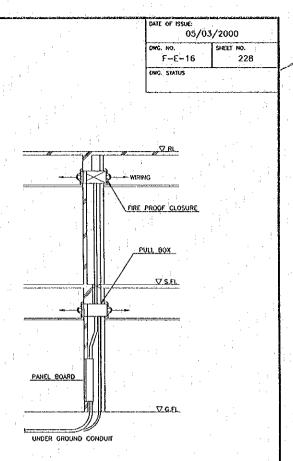










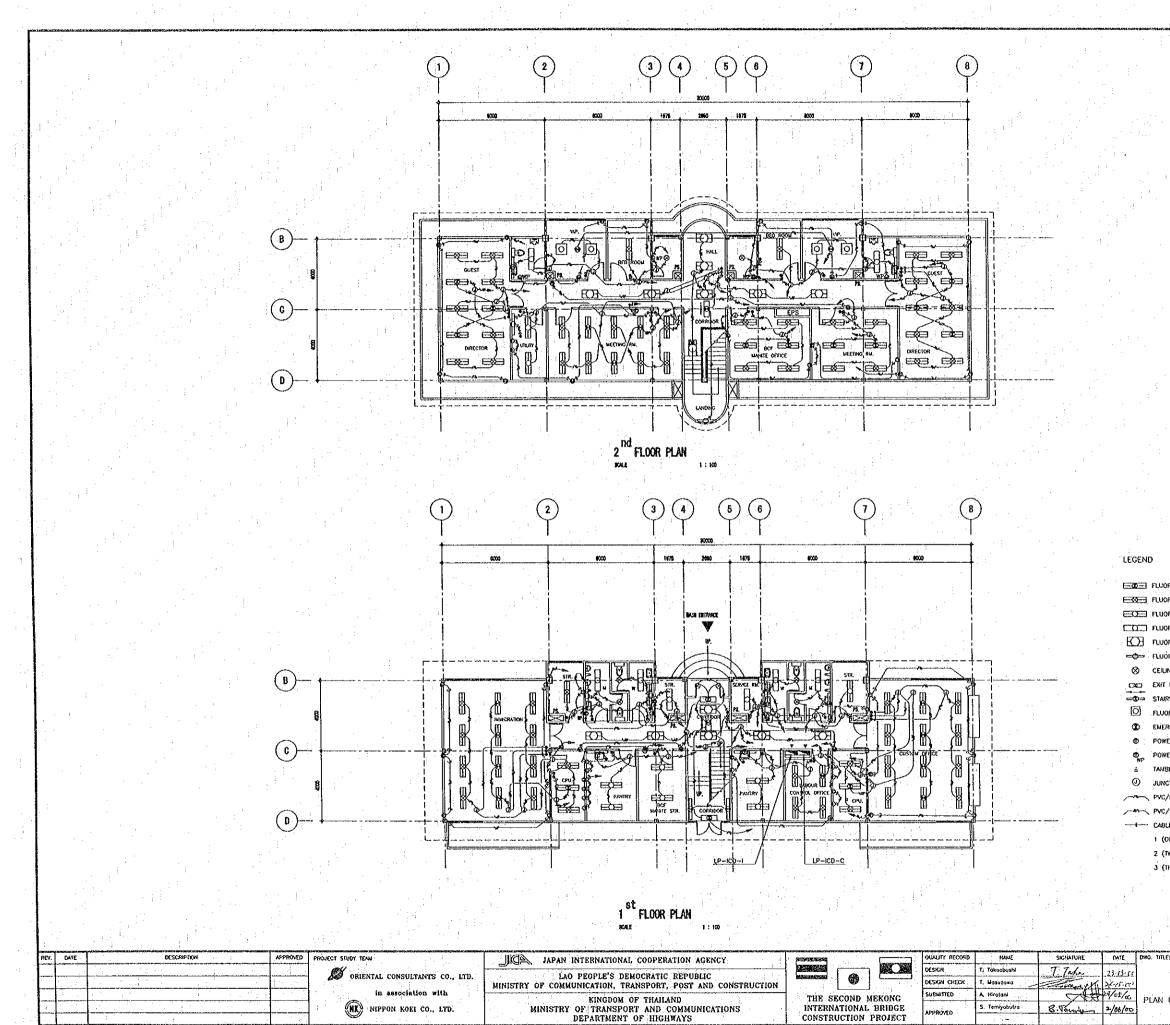


TYPICAL INSTALLATION OF WALL RECESSED PANEL BOARD A-A

LEGEND

FLUORESCENT LIGHTING W/LOUVER 40W x 2 (RECESSED) FLUORESCENT LIGHTING W/LOUVER, BT 40W x 2 (RECESSED) FLUORESCENT LIGHTING 40W x 2 (RECESSED) FLUGRESCENT LIGHTING 40W x 1 (RECESSED) FLUORESCENT LIGHTING W/COVER, BT 40W x 2 (RECESSED) -C- FLUORESCENT LIGHTING 40W x 1 (WALL MOUNTED)  $\otimes$ CEILING LIGHTING FL 18W x 1 (RECESSED)  $\odot$ (SURFACE MOUNTED) EXIT UGH -œ-× 1 W/BT (WALL MOUNTED) 0 FLUORESCENT LIGHTING 20W x 5 W/COVER (RECESSED) ŝ. EMERGENCY LIGHTING FL 13W x 1 W/0T (RECESSED) POWER OUTLET 2P 16A-2 Ø. POWER OUTLET 2P 16A-2 (WATER PROOF) Q., TAMBLER SWITCH JUNCTION BOX PVC/PVC 2.5 SO-3C (CONCEALED IN CEILING) - PVC/PVC, 2.5 SQ-4C (CONCEALED IN CEILING) ---- CABLE & WIRING IN WALL 1 (ONE) CABLE : PFLEX-CD 22 2 (TWO) CABLE : PFLEX-CD 28 3 (THREE) CABLE : PFLEX-CD 36

BORDER CONTROL FACILITIES THAILAND SIDE PLAN OF INTERNAL LIGHTING & POWER OUTLET IN MAIN OFFICE (ARRIVAL SIDE)



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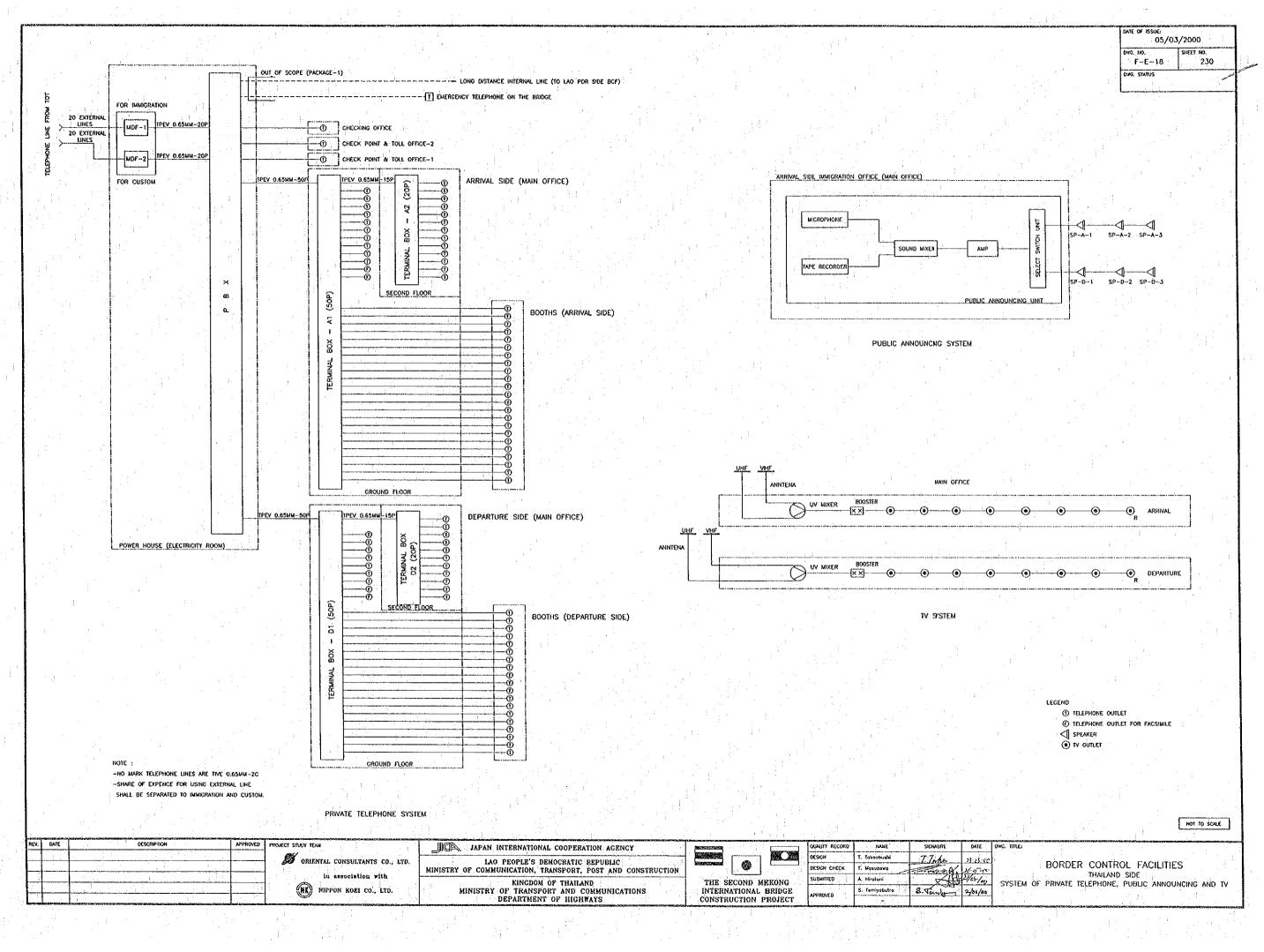
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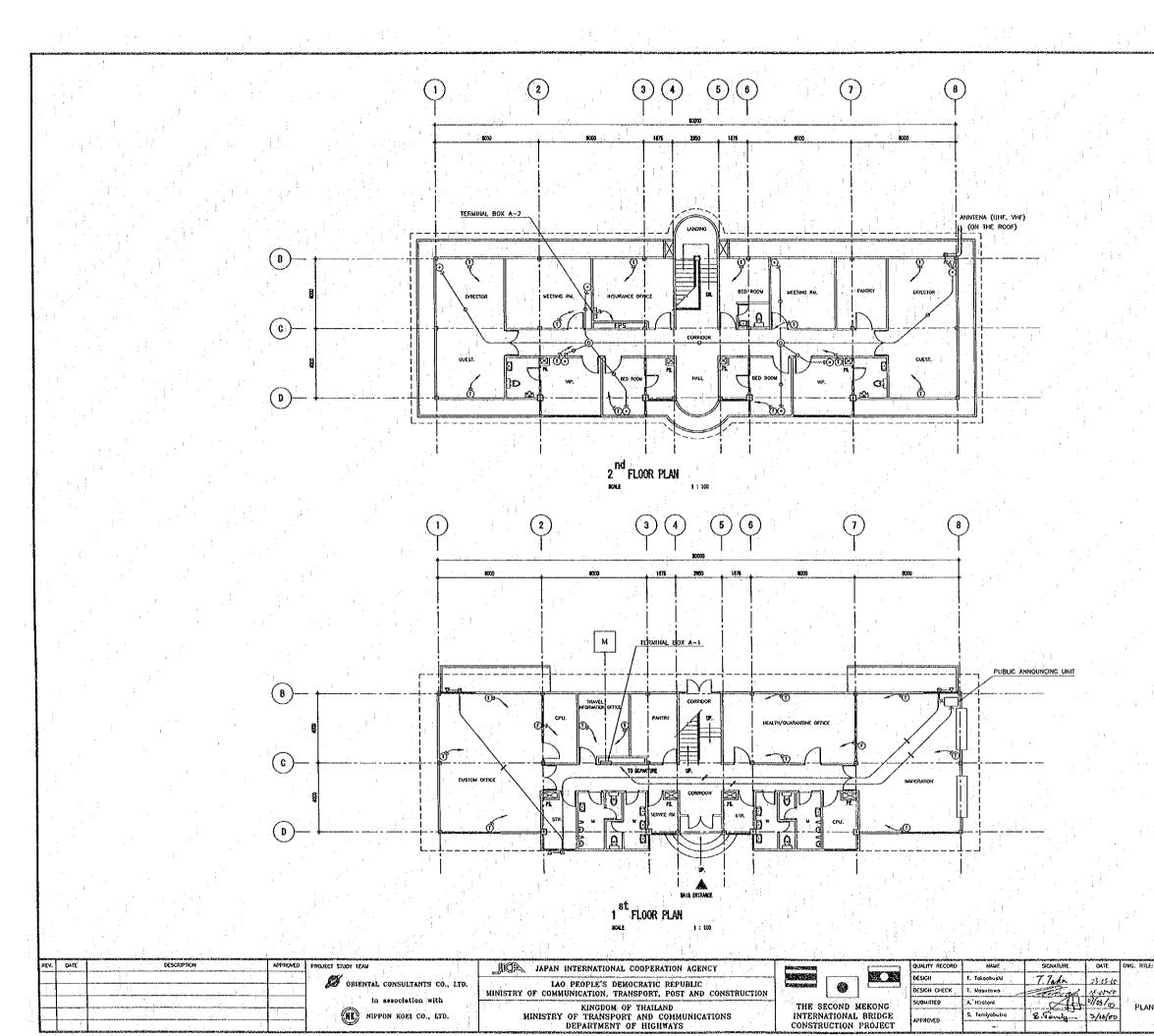
CONSTRUCTION PROJECT

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3 (THREE) CABLE : PFLEX-CD 36

BORDER CONTROL FACILITIES THAILAND SIDE PLAN OF INTERNAL LIGHTING & POWER OUTLET IN MAIN OFFICE (DEPARTURE SIDE)





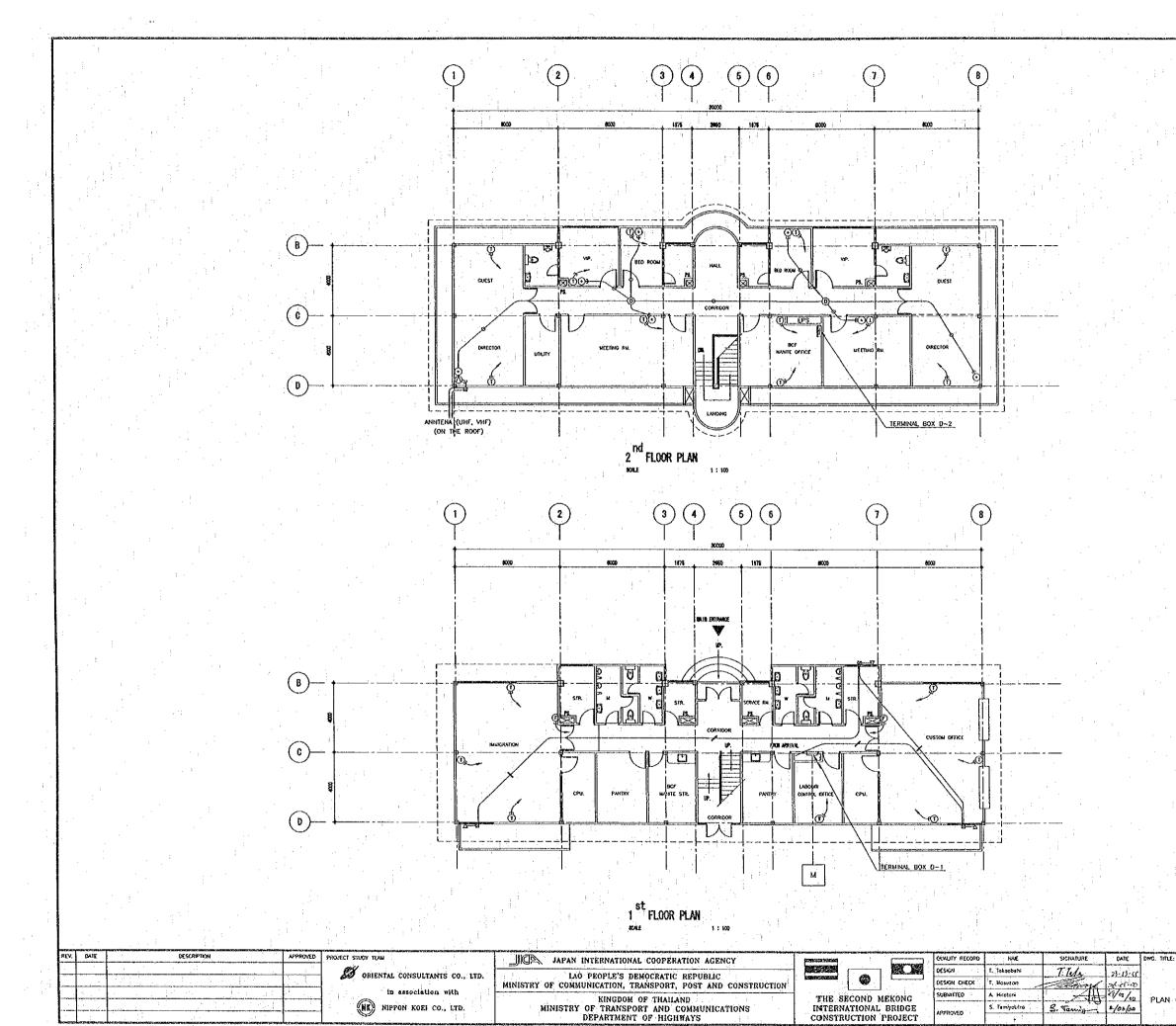
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<b>O</b>	TELEPHONE OUTLET
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4	SPEAKER (HORN TYPE JW)
$\odot$	TV OUTLET
<u> </u>	TIVE 0.65MM-20
	AE 1.2MM20
<del>-</del>	COAXIAL CABLE (5C~2V)
Ø	PB (200×200×200) AND ENT 1/2 INCH
	CABLE & WIRING IN WALL
	I (ONE) CABLE : PFLEX-CD 22
	2 (TWO) CABLE : PFLEX-CD 28

3 (THREE) CABLE : PFLEX-CO 36

### BORDER CONTROL FACILITIES THAILAND SIDE PLAN OF TELEPHONE, TV AND PUBLIC ANNOUNCING SYSTEM IN MAIN OFFICE (ARRIVAL SIDE)



СМИТЕ СТОРУТ ПОЛТАЛА ЦЕ МО СТАТИТА ИМИ И МИ И ВОРТИСИ, КОТОЛИКИ СИ МИ КОМИСКИ ПРИВЛИКИ И МОЛТОРО СТОРУТ ВО ДОД СТОРУТ СТОРУТ ПОЛТАЛА ЦЕ МО СТАТИТА ИМИ И МИ И ВОРТИСИ, КОТОЛИКИ СИ МИ КОТОРИСКИ ПРИВЛИКИ И МОЛТОРО СТОРУТ ВО Д

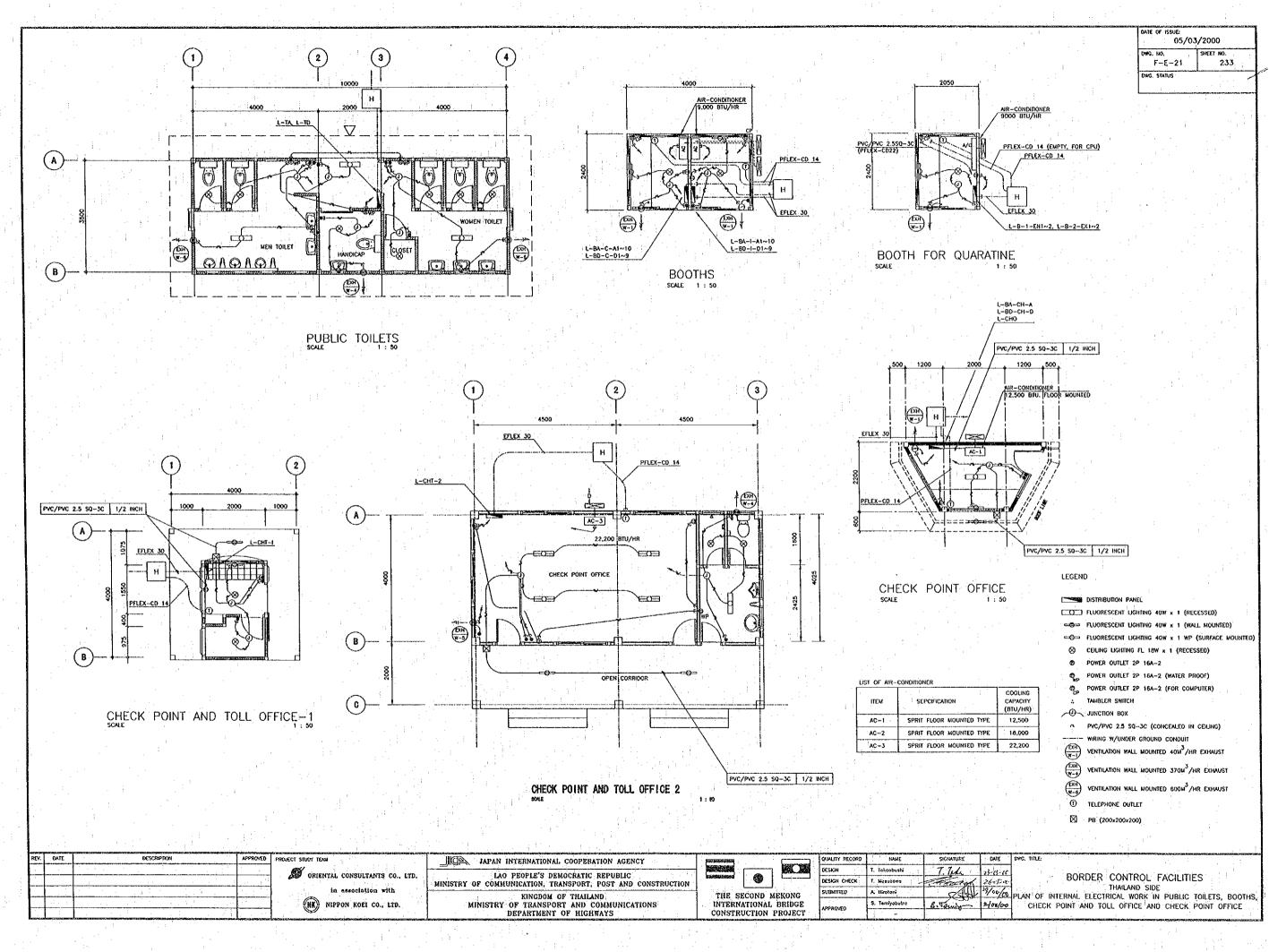
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©	FACSINILE OUTLET
٩	SPEAKER (HORN TYPE 3W)
•	TV OUTLET
	TIVE 0.65MM2C
	AE 1.2MM-2C
0	COAXIAL CABLE (5C-2V)
⊠—	PB (200x200x200) AND EMT 1/2 INCH
€	CABLE & WIRING IN WALL
$\leq 1$	1 (ONE) CABLE : PFLEX-CD 22
	2 (TWO) CABLE : PFLEX-CD 28

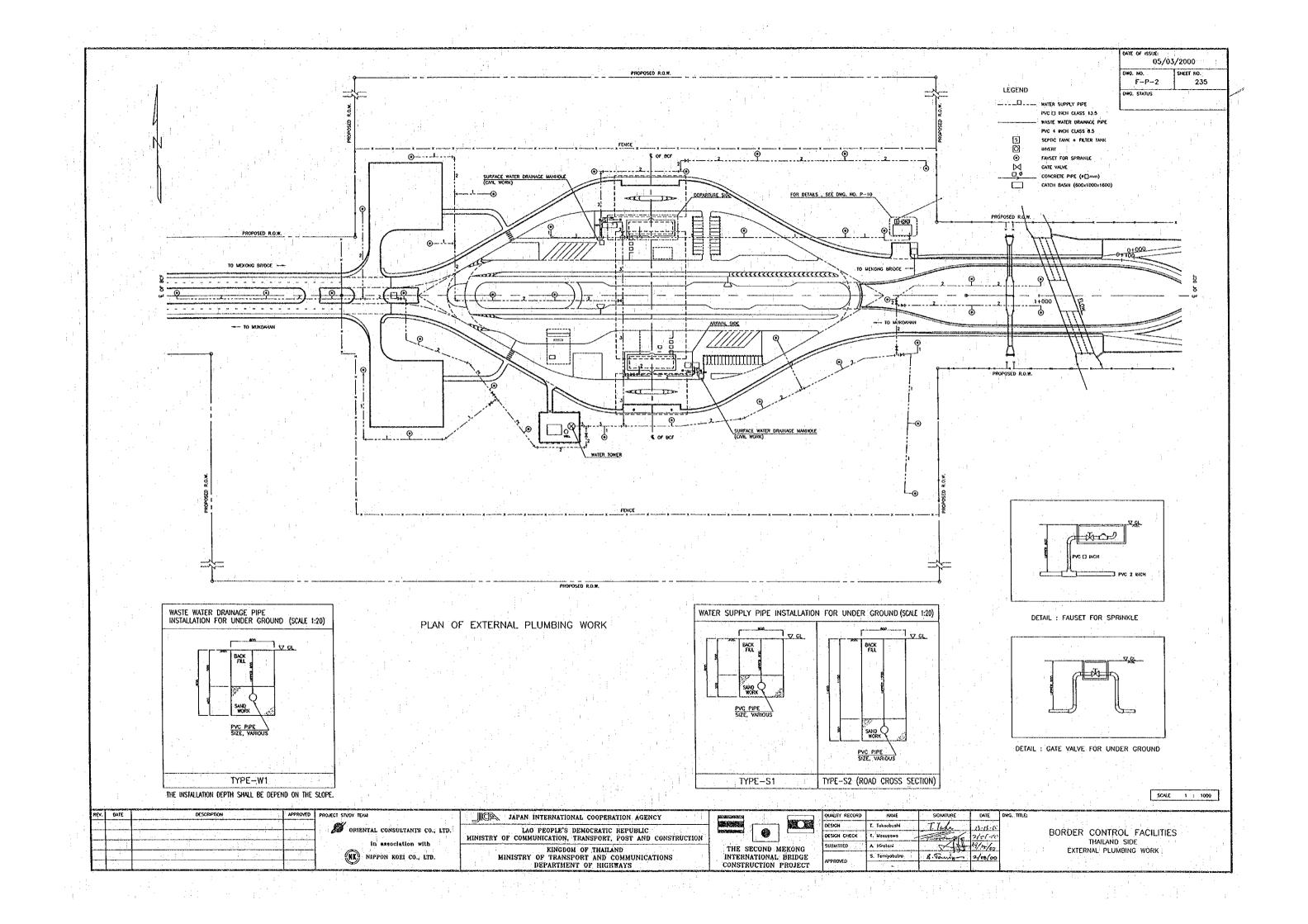
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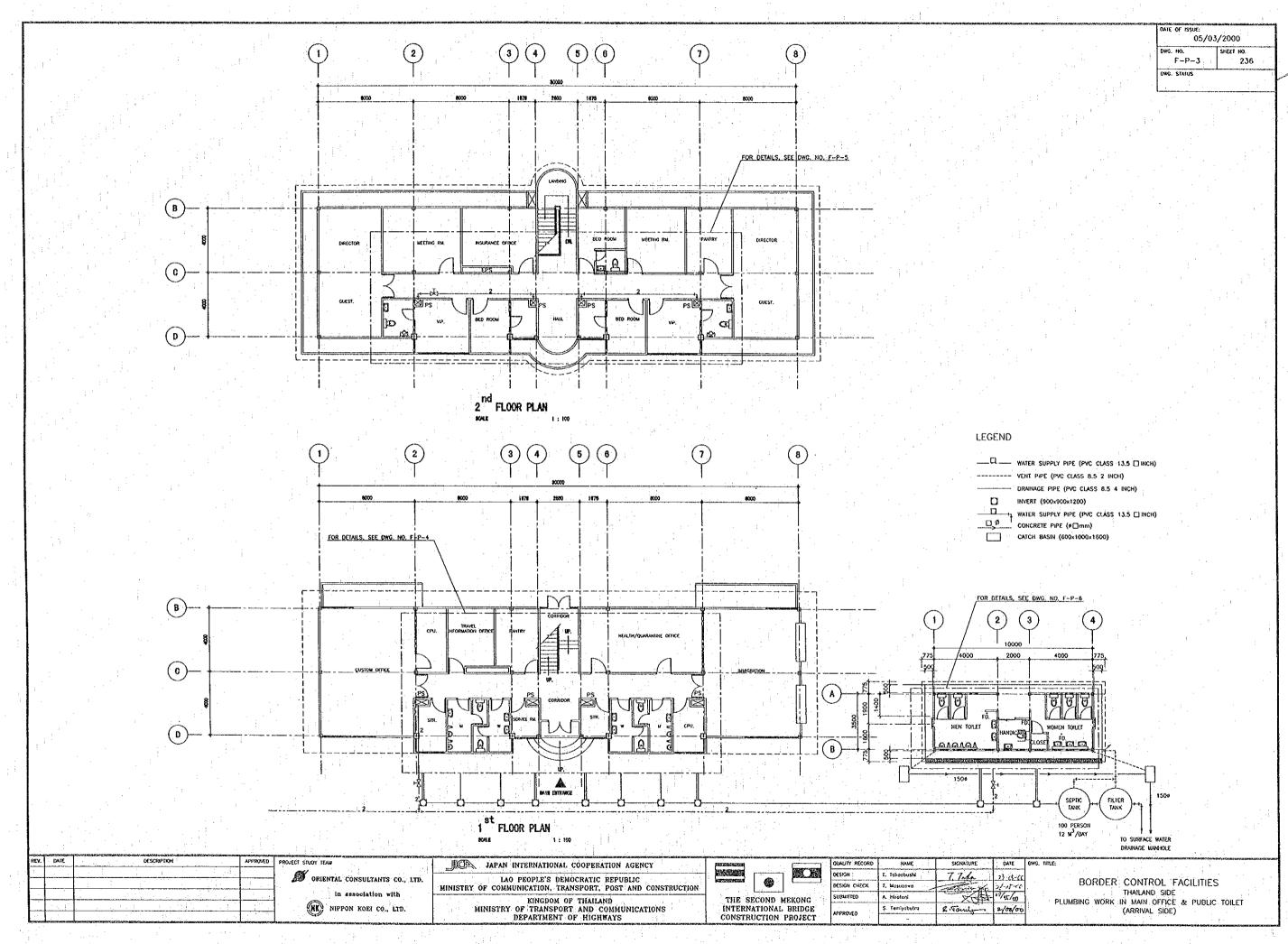
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IN MAIN OFFICE (DEPARTURE SIDE)	

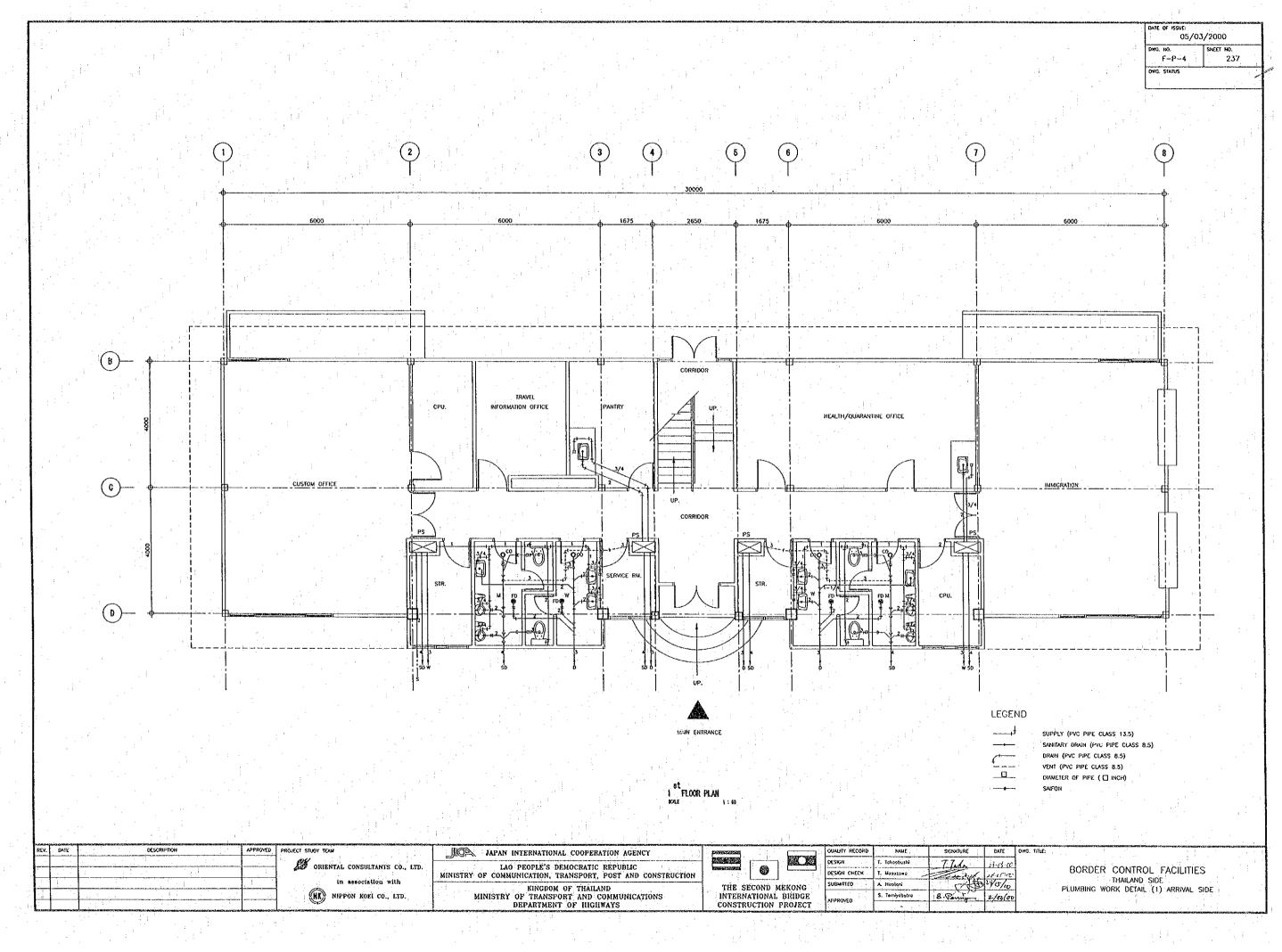


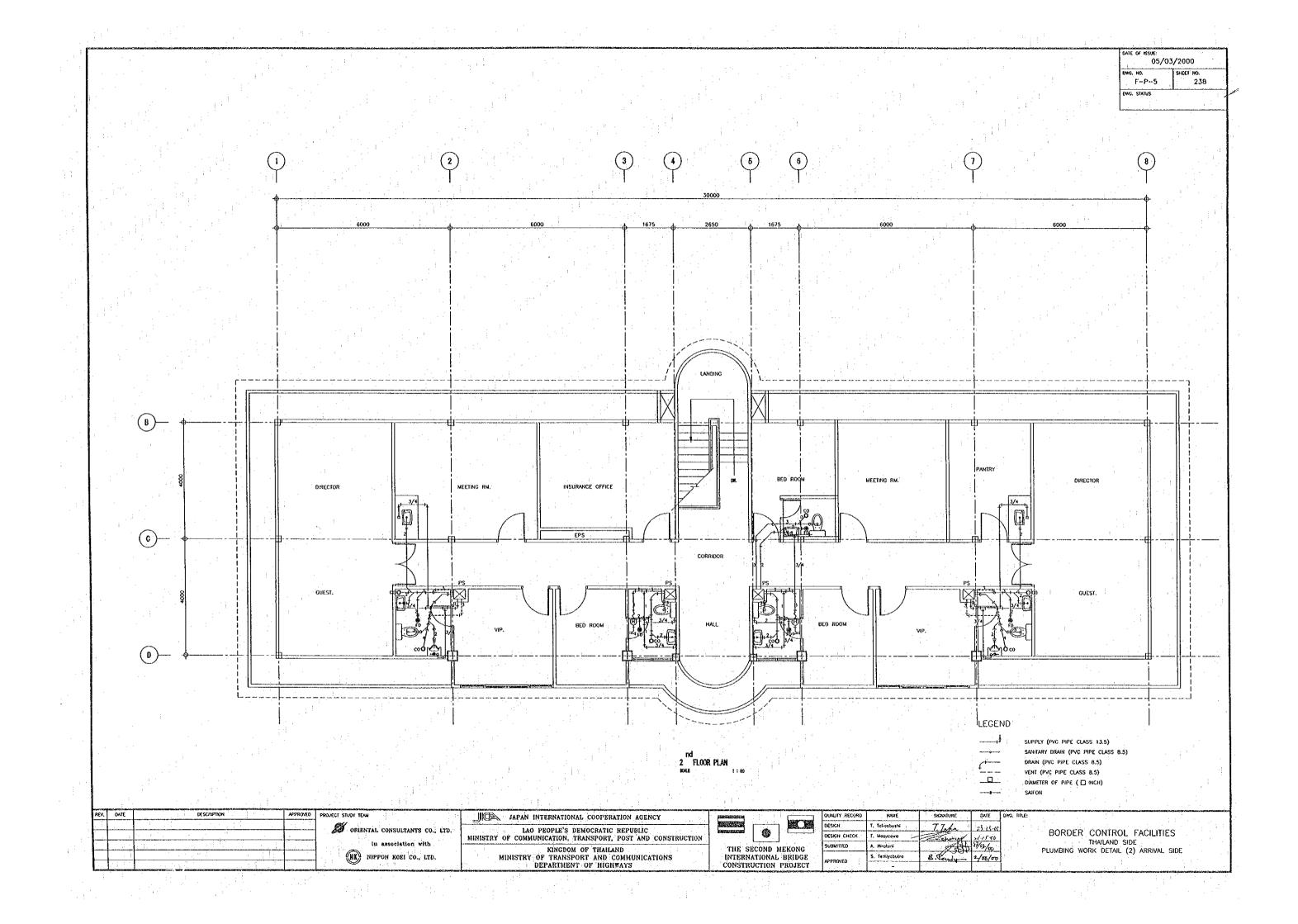
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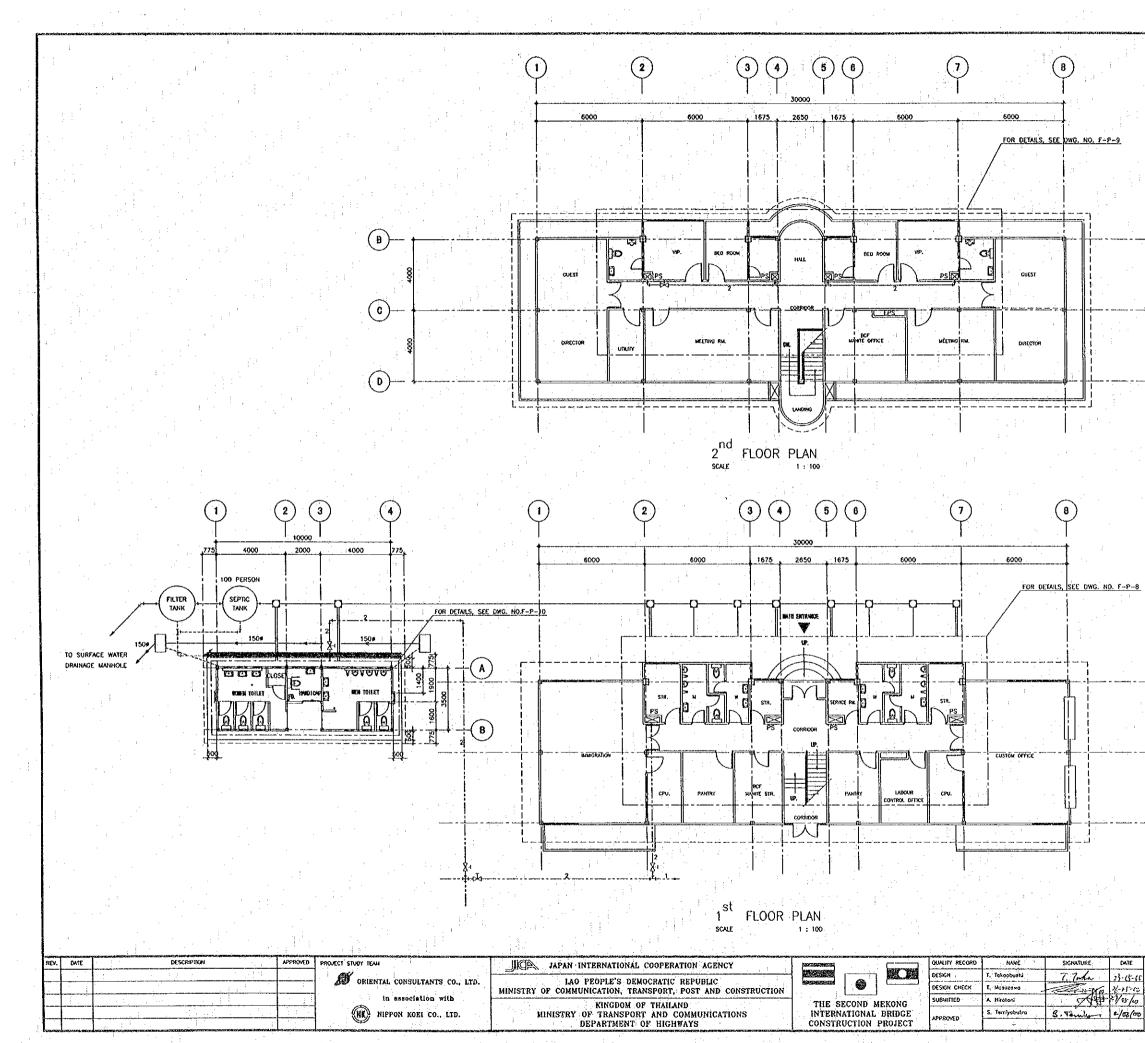
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SUPPLY (PVC PIPE CLASS 13.5) SANITARY DRAIN (PVC PIPE CLASS 8.5) DRAIN (PVC PIPE CLASS 8.5) VENT (PVC PIPE CLASS 8.5) DIAMETER OF PIPE ( ] INCH) SAFON

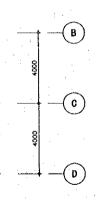
BORDER CONTROL FACILITIES THAILAND SIDE PLUMBING WORK DETAIL (3) ARRIVAL SIDE



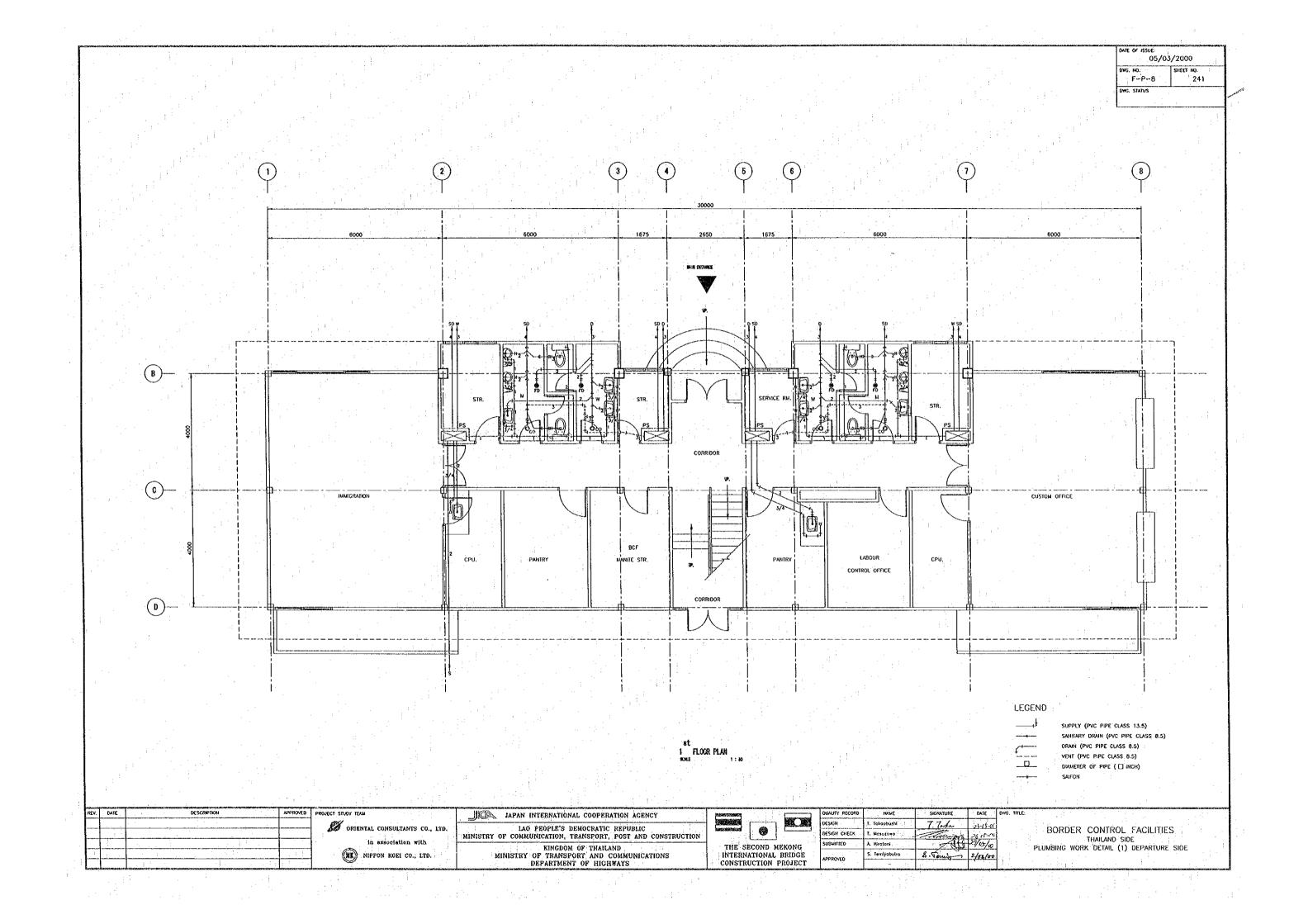
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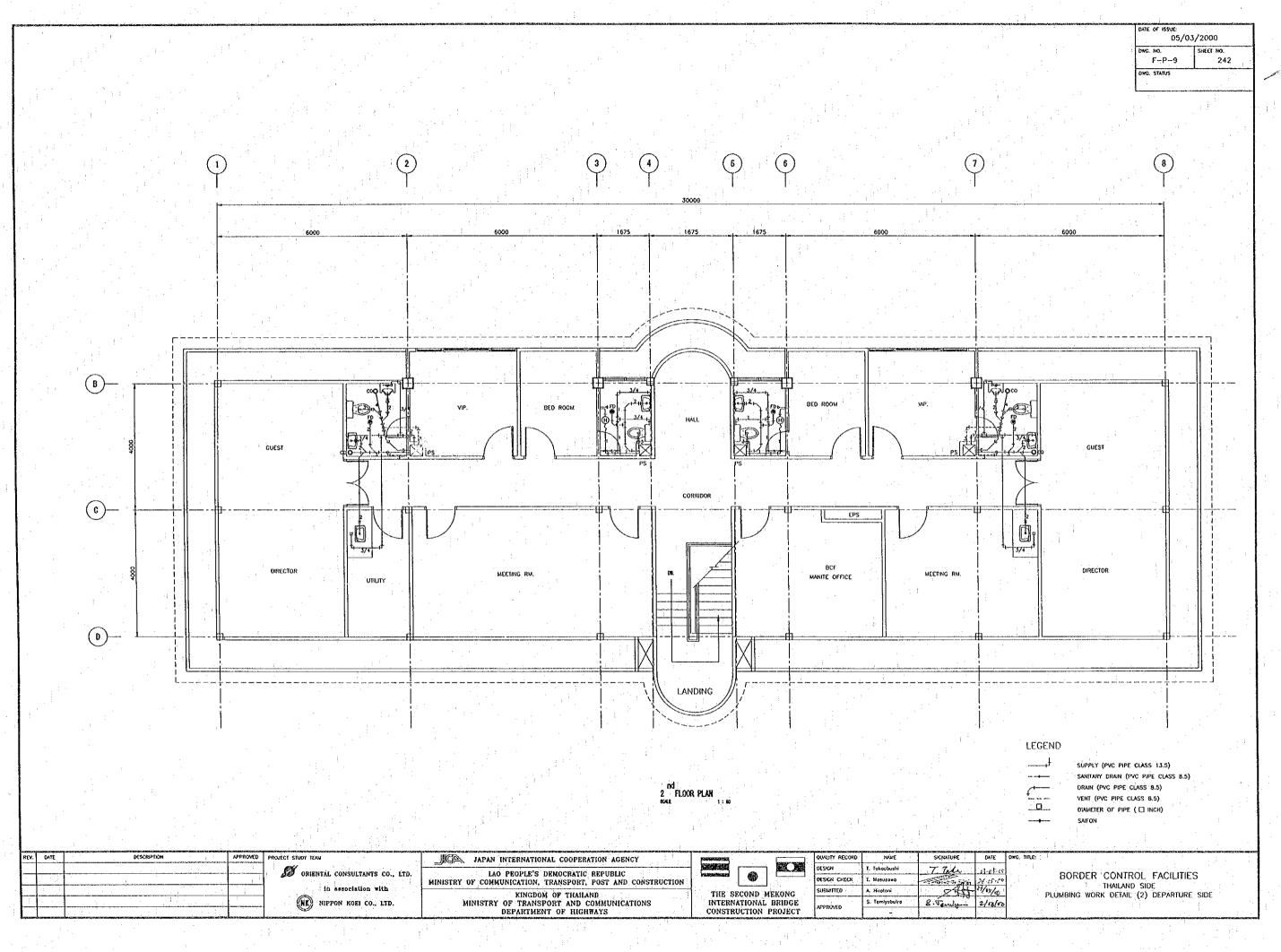
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VENT PIPE (PVC CLASS 8.5 2 INCH) DRAINAGE PIPE (PVC CLASS 8.5 4 INCH) INVERT (900x900x1200) WATER SUPPLY PIPE (PVC CLASS 13.5 () INCH) CONCRETE PIPE (@ mm) CATCH BASIN (600×1000×1600)

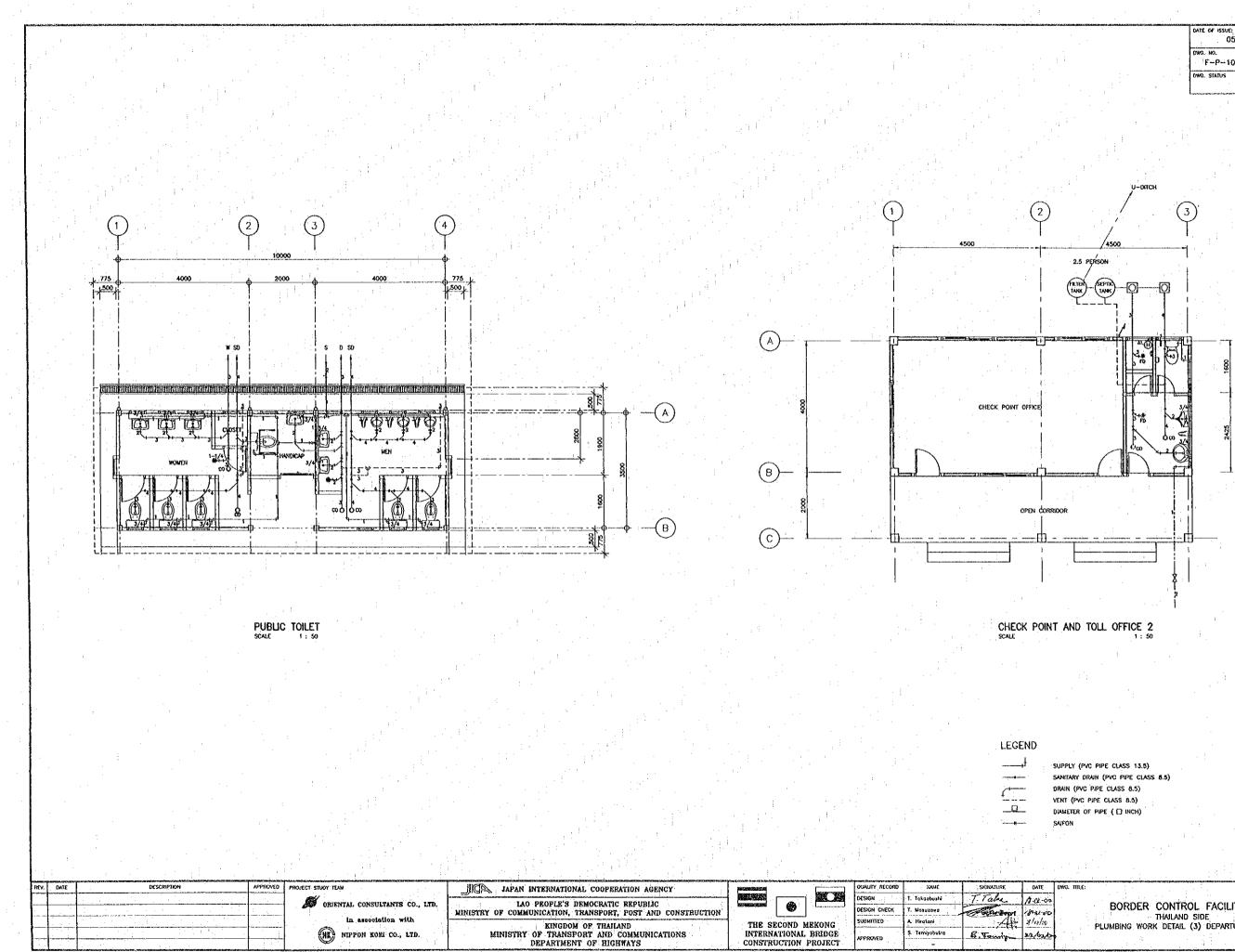


DWG. TITLE BORDER CONTROL FACILITIES THAILAND SIDE PLUMBING WORK IN MAIN OFFICE & PUBLIC TOILET (DEPARTURE SIDE)





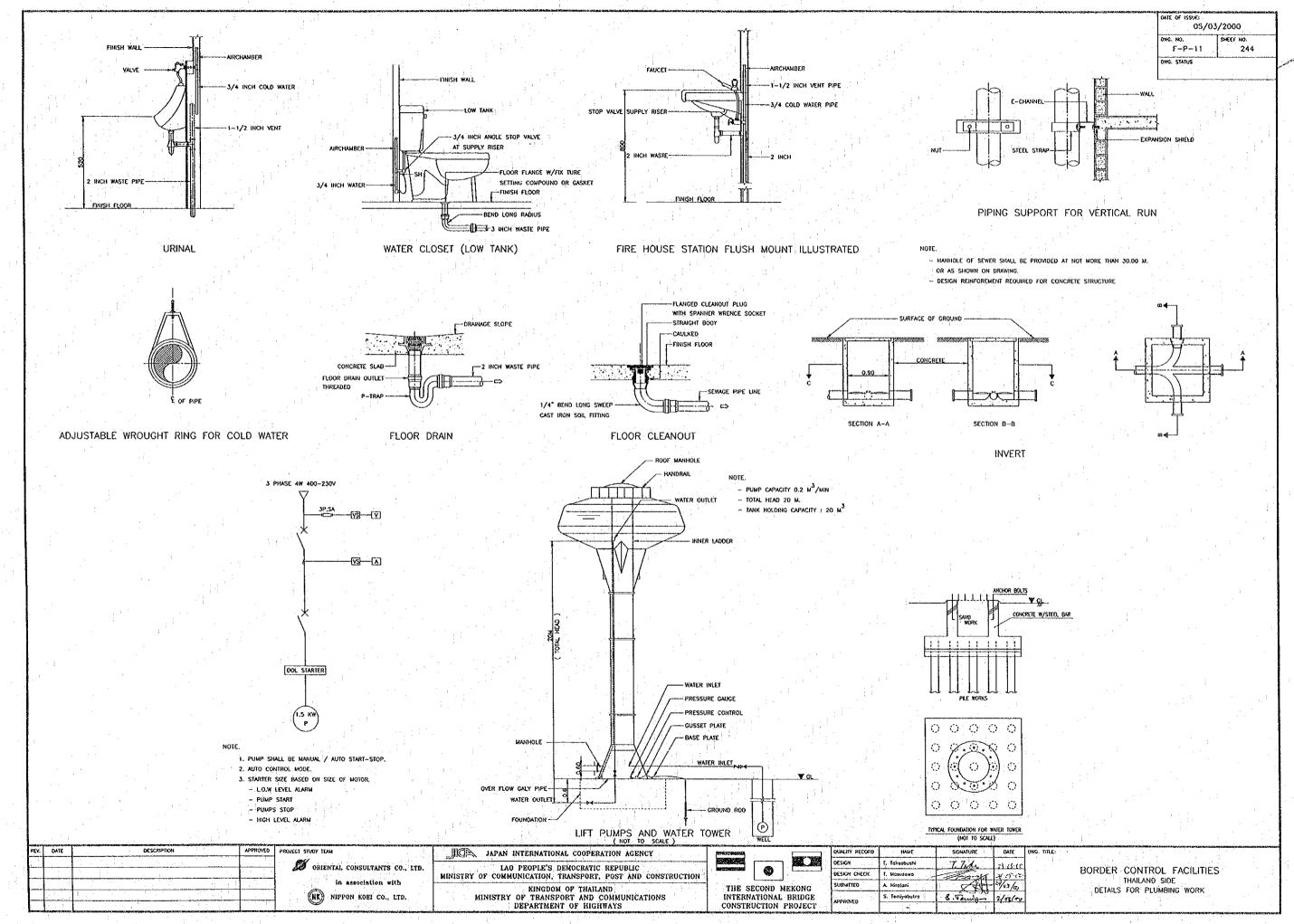
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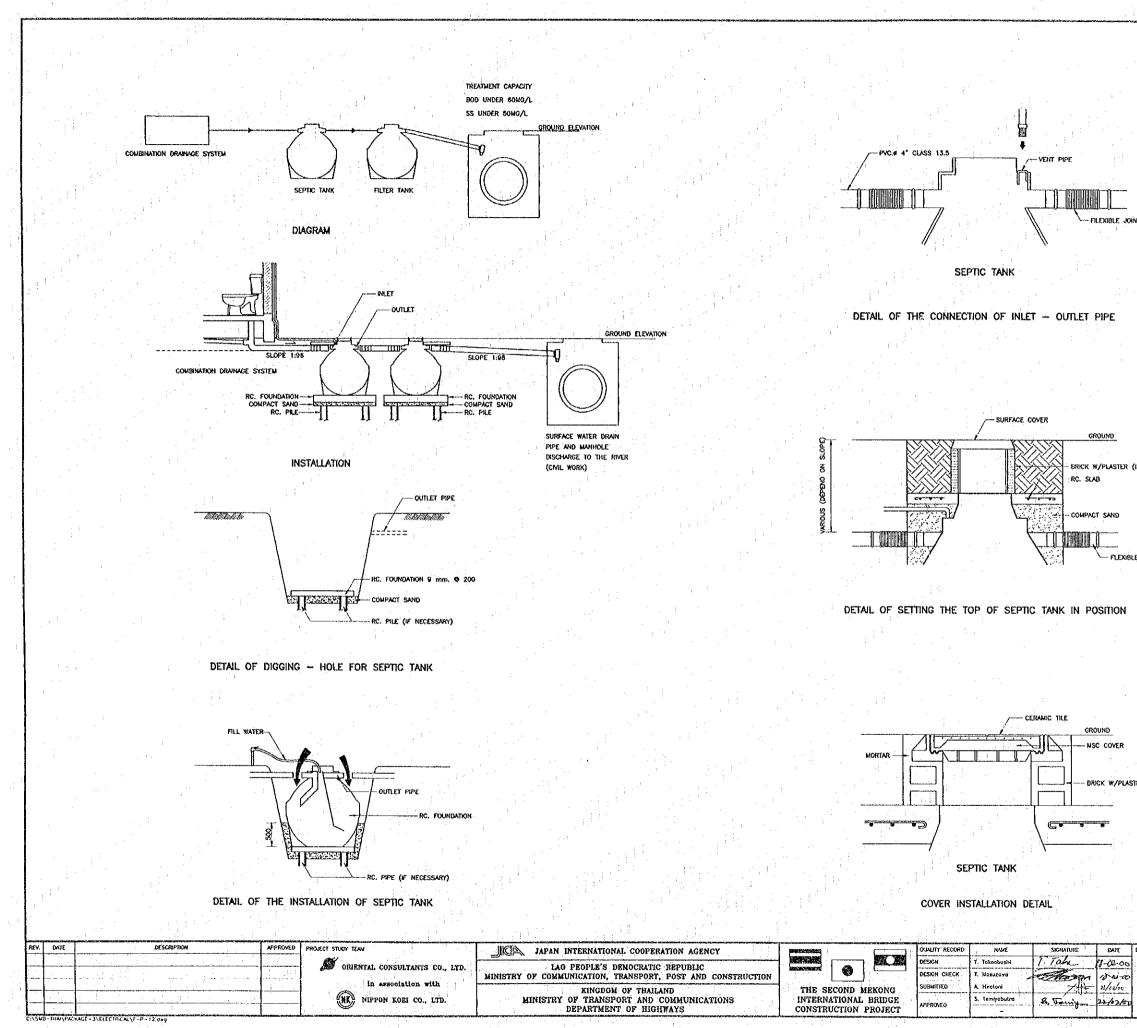


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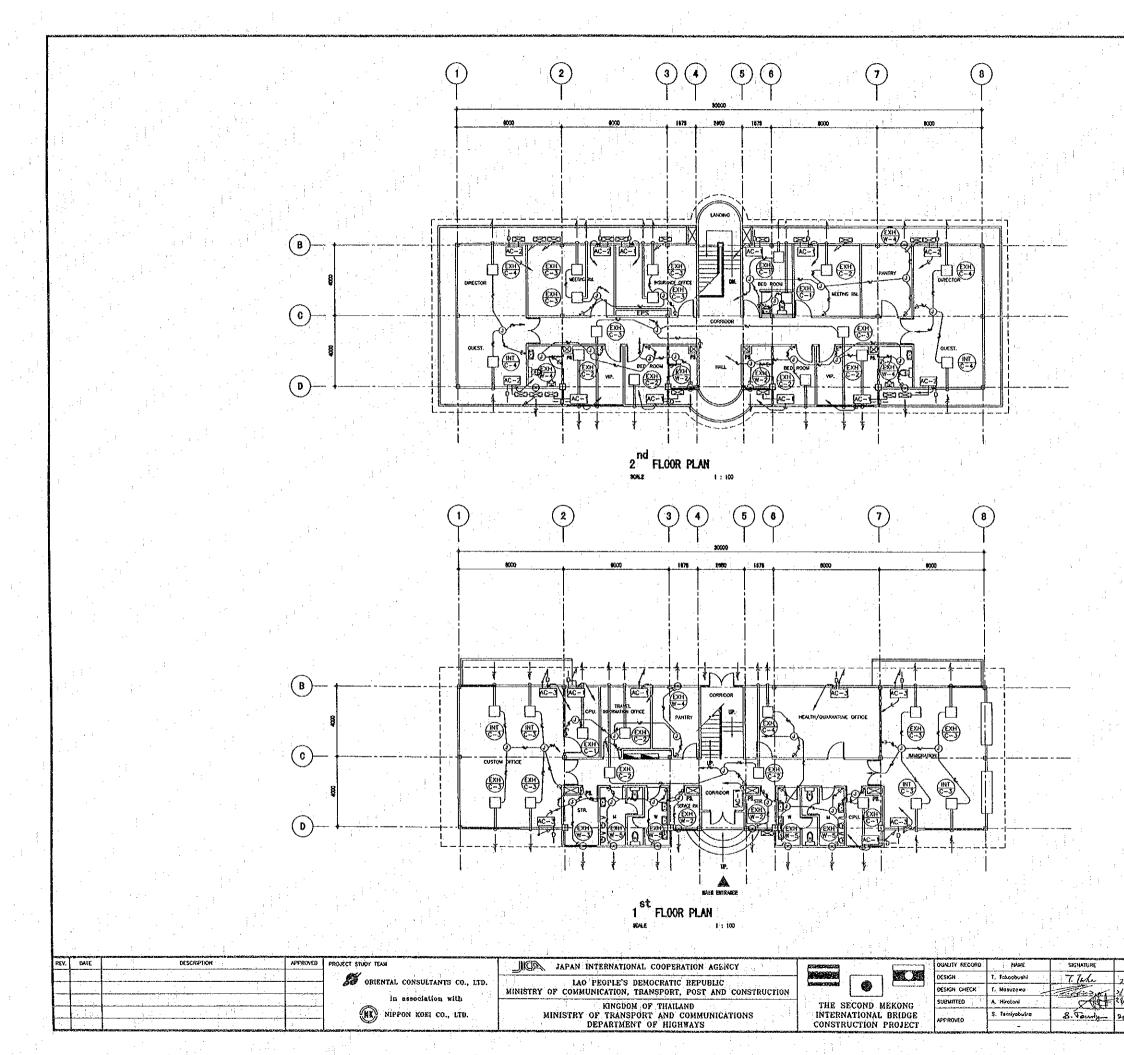


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CONDENTION UNIT FOR A/C
 O
 DRAIN PIPE
 REFRIGERATOR PIPE AND CONTROL WIRE
 TAMBLER SWITCH
 PVC/PVC 2.5 S0-3C (CONCEALED IN CEILING)
 PVC/PVC 4 S0-3C (CONCEALED IN CEILING)
 CABLE IN WALL WITH CONDUIT (PFLEX-CD 22)
 U
 JUNCTION BOX

## LIST OF AIR-CONDITIONER

пем	SEPCIFICATION	COOLING CAPACITY (BTU/HR)
AC-1	SPRIT FLOOR MOUNTED TYPE	12,500
AC-2	SPRIT FLOOR MOUNTED TYPE	18,000
VC-3	SPRIT FLOOR MOUNTED TYPE	22,200

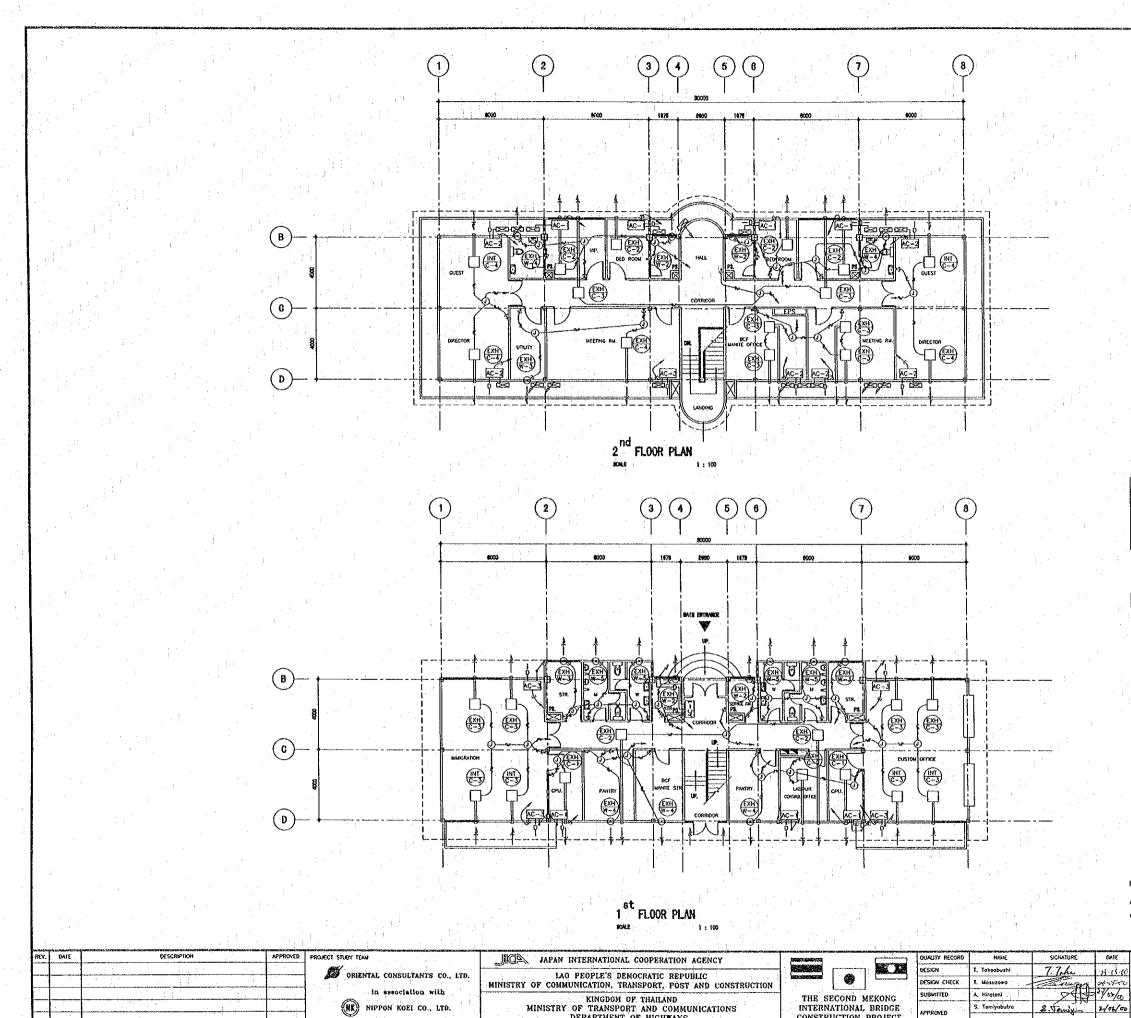
LIST OF VENTILATION

ПЕМ	SEPCIFICATION	VENTILATING VOLUME (M3/HR)
EXH C-1	CEILING MOUNTED TYPE EXHAUST	70
EXH C-2	CEILING MOUNTED TYPE EXHAUST	130
EXH C-3	CEILING MOUNTED TYPE EXHAUST	190
INT C-3	CEILING MOUNTED TYPE INTAKE	190
EXH C-4	CEILING MOUNTED TYPE EXHAUST	250
INT C-4	CEILING MOUNTED TYPE INTAKE	250
EXH C-5	CEILING MOUNTED TYPE EXHAUST	400
EXH W-1	WALL MOUNTED TYPE EXHAUST	40
EXH W-2	WALL MOUNTED TYPE EXHAUST	80
EXH W-3	WALL MOUNTED TYPE EXHAUST	130
EXH W-4	WALL MOUNTED TYPE EXHAUST	200
EXH W-5	WALL MOUNTED TYPE EXHAUST	370
EXH W-6	WALL MOUNTED TYPE EXHAUST	720

NOTE

ALL CONDENTION UNIT FOR A/C SHALL BE INSTALLED ON THE UPSTAIR VERADA

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ORIENTAL CONSULTANTS CO., LTD. in association with NIPPON KOEL CO., LTD.

LAO PEOPLE'S DEMOCRATIC REPUBLIC MINISTRY OF COMMUNICATION, TRANSPORT, POST AND CONSTRUCTION KINGDOM OP THAILAND MINISTRY OF TRANSPORT AND COMMUNICATIONS DEPARTMENT OF HIGHWAYS

	QUALITY RECORD	NAME
	DESKN	T, Tokoobush
	DESIGN CHECK	T. Hosuzowa
THE SECOND MEKONG	SUBVITTED	A Biroleni
INTERNATIONAL BRIDGE	APPROVED	S. Tembobub
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DESI CONDENTION UNIT FOR A/C REFRIGERATOR PIPE AND CONTROL WIRE TAMBLER SWITCH PVC/PVC 2.5 SO-3C (CONCEALED IN CEILING) PVC/PVC 4 SQ-3C (CONCEALED IN CEILING)

----- CABLE IN WALL WITH CONDUIT (PFLEX-CD 22) O JUNCTION BOX

## LIST OF AR-CONDITIONER

ITEM	SEPCIFICATION	COOLING CAPACITY (BTU/HR)
AC-1	SPRIT FLOOR MOUNTED TYPE	12,500
AC-2	SPRIT FLOOR MOUNTED TYPE	18,000
AC-3	SPRIT FLOOR MOUNTED TYPE	22,200

LIST OF VENTILATION

ITEM	SEPCIFICATION	VENTILATING VOLUME (M3/HR)
EXH C-1	CEILING MOUNTED TYPE EXHAUST	70
EXH C-2	CEILING MOUNTED TYPE EXHAUST	130
EXH C-3	CEIUNG MOUNTED TYPE EXHAUST	190
INT C3	CEILING MOUNTED TYPE INTAKE	190
EXH C-4	CEILING MOUNTED TYPE EXHAUST	250
INT C-4	CEILING MOUNTED TYPE INTAKE	250
EXH C-5	CEILING MOUNTED TYPE EXHAUST	400
EXH W~1	WALL MOUNTED TYPE EXHAUST	40
EXH W-2	WALL MOUNTED TYPE EXHAUST	80
EXH W-3	WALL MOUNTED TYPE EXHAUST	130
EXH W-4	WALL MOUNTED TYPE EXHAUST	200
EXH W-5	WALL MOUNTED TYPE EXHAUST	370
EXH W-6	WALL MOUNTED TYPE EXHAUST	720

NOTE

DWG. TITLE:

S. Jemis

ALL CONDENTION UNIT FOR A/C SHALL BE INSTALLED ON THE UPSTAIR VERADA

BORDER CONTROL FACILITIES THAILAND SIDE PLAN OF AIR-CONDITIONER & VENTILATION IN MAIN OFFICE (DEPARTURE SIDE)

