THE HORTICULTURAL DEVELOPMENT PROJECT IN THE KINGDOM OF NEPAL

CONTRACT
FOR
THE CONSTRUCTION
OF
DEMONSTRATION FARM
IN
THE NEPALGUNI SUB-CENTER

VOLUME II

DRAWINGS

MARCH 1986

JAPAN INTERNATIONAL COOPERATION AGENCY

ADD JR

86-24

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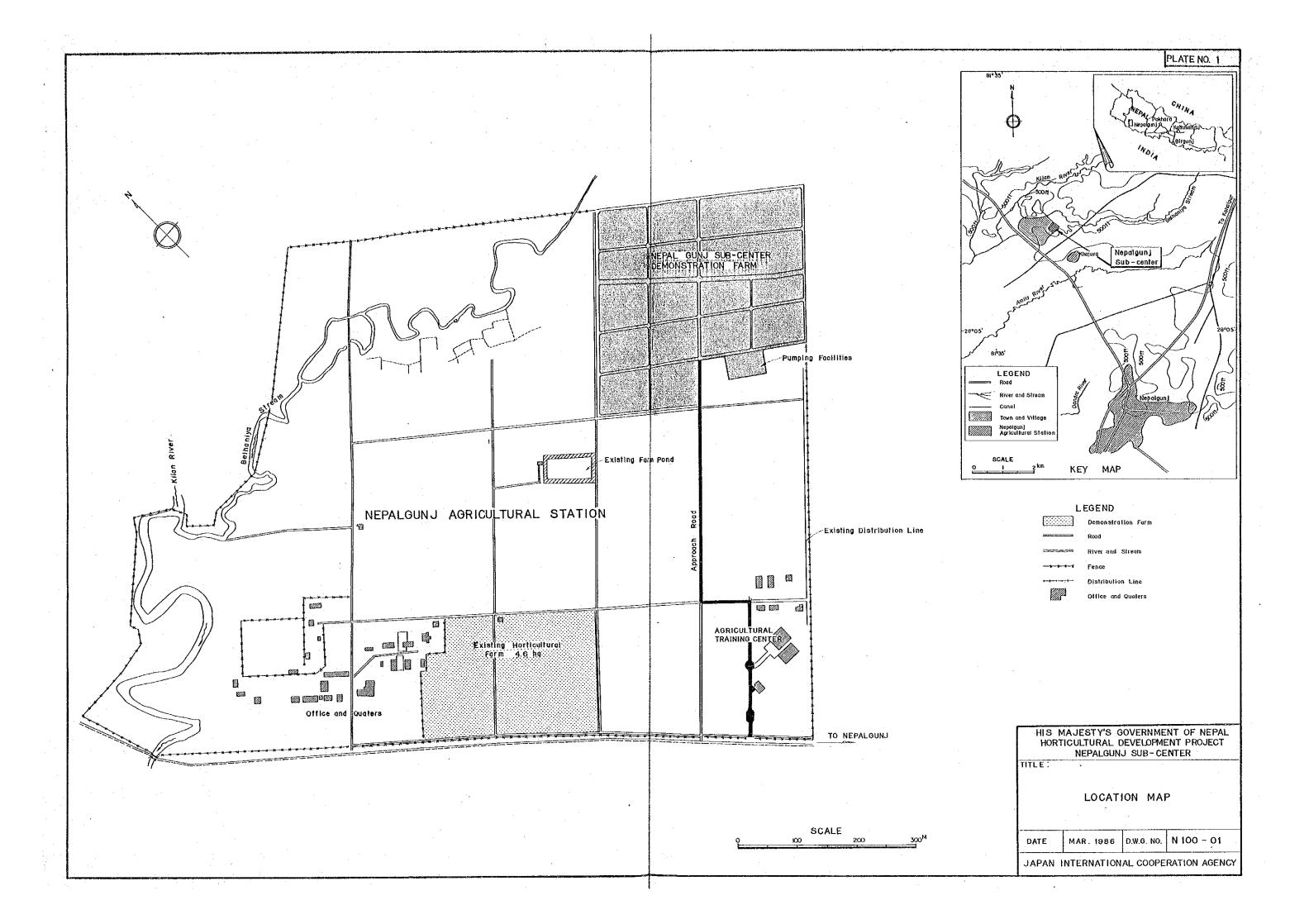
MARCH 1986

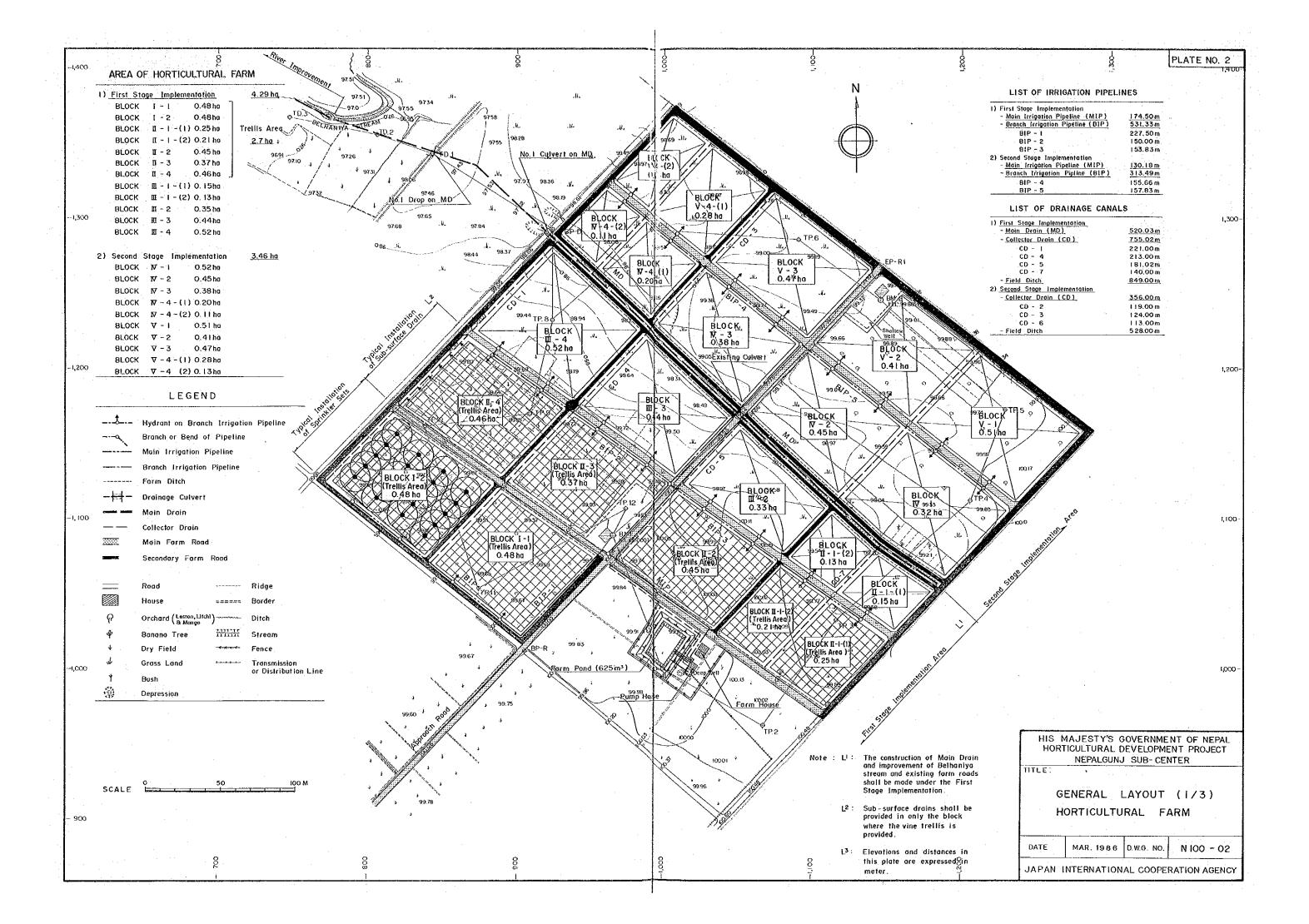
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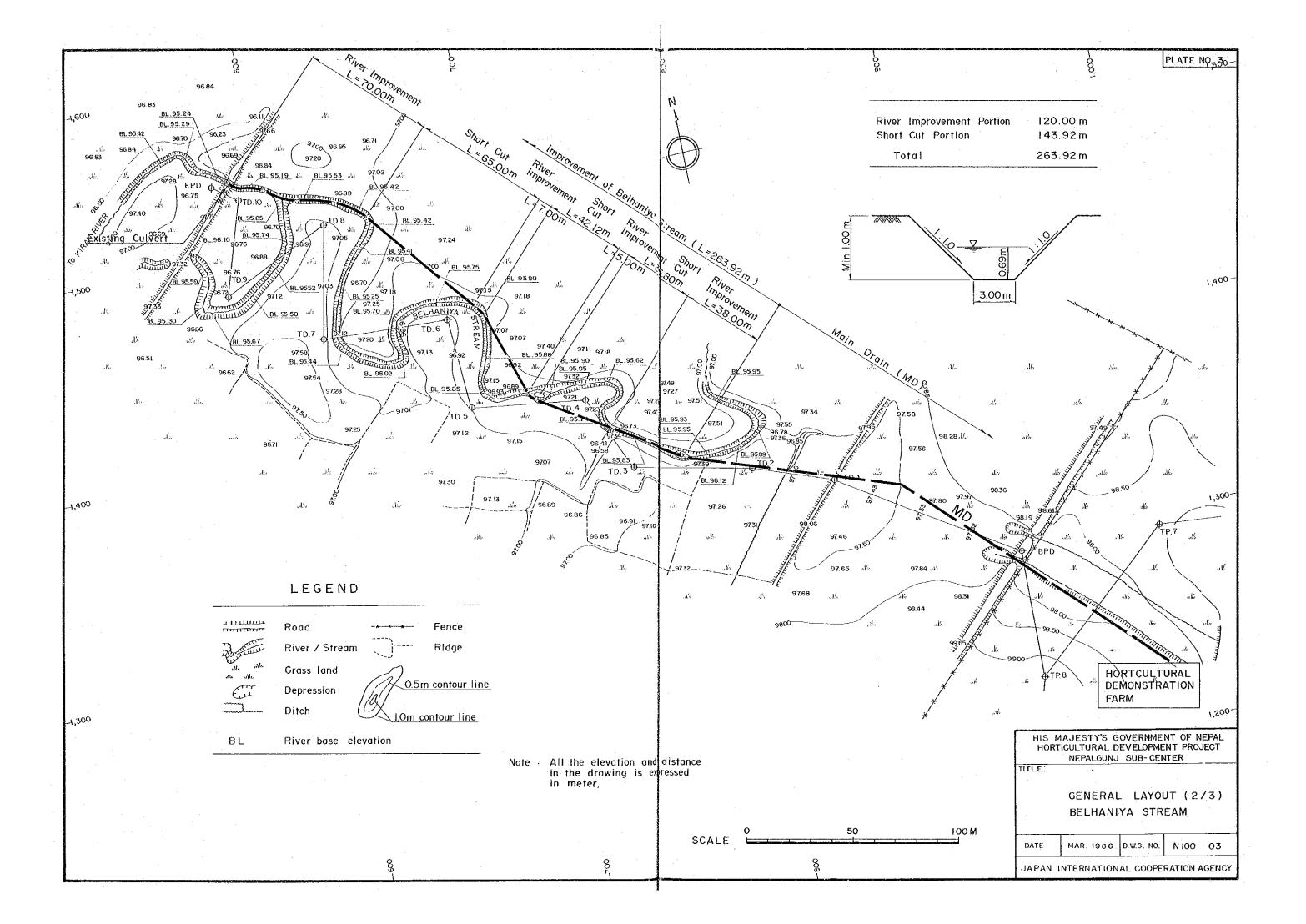
LIBRARY 1060538[4] CONTRACT
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VOLUME II

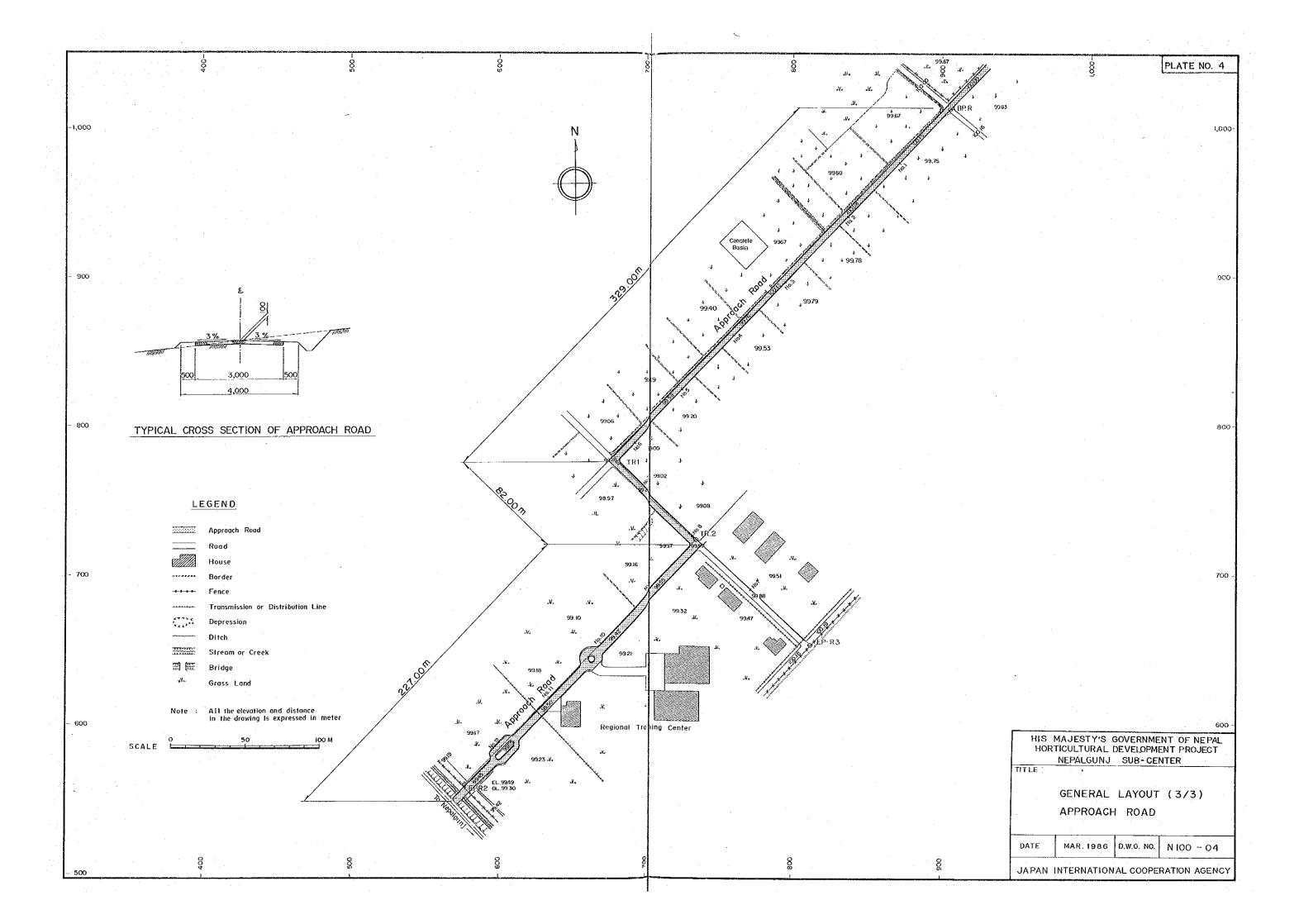
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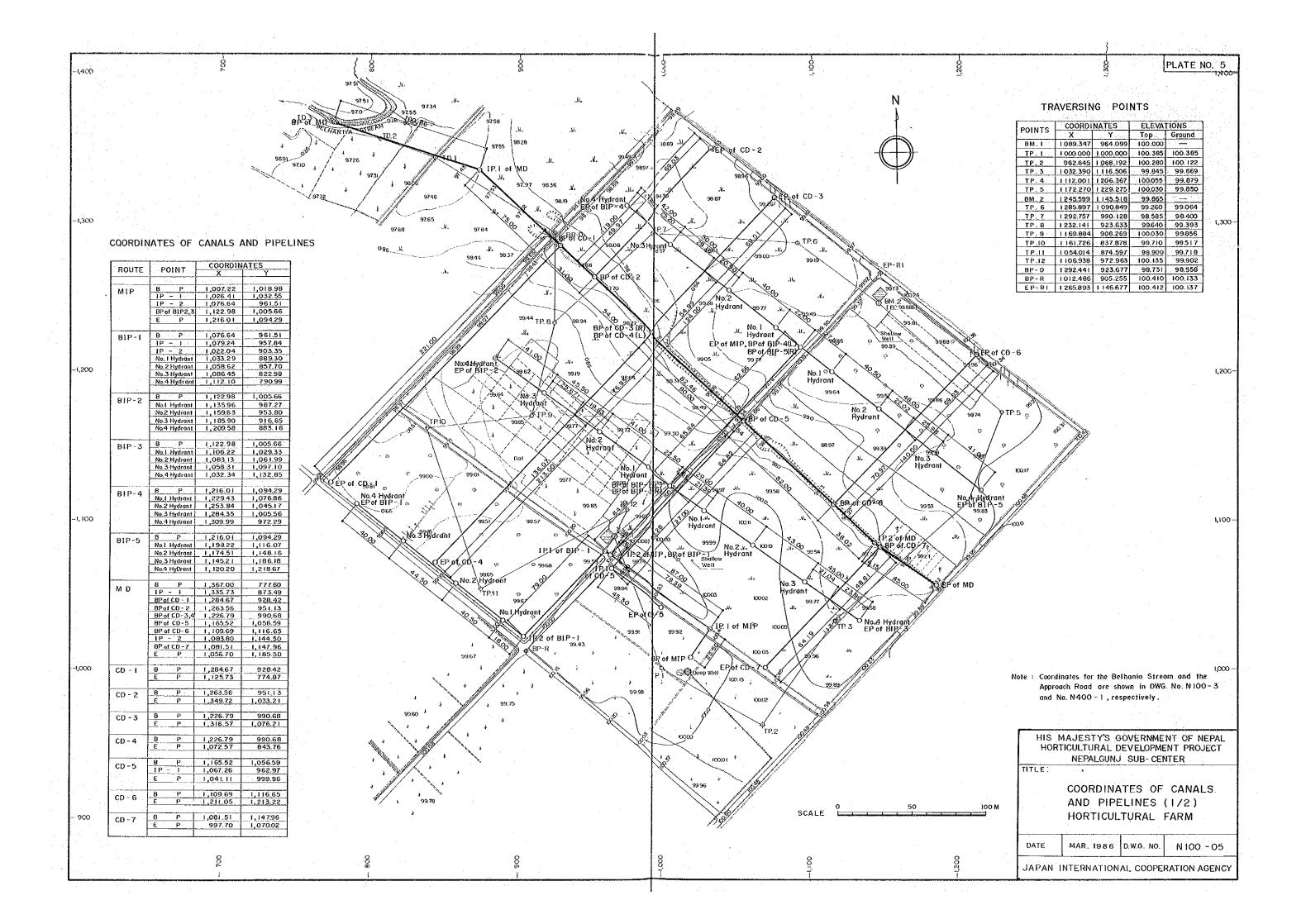
O1 LOCATION MAP O2 GENERAL LAYOUT (1/3), HORTICULTURAL O3 GENERAL LAYOUT (2/3), BERHANIYA STI O4 GENERAL LAYOUT (3/3), APPROACH ROA O5 COORDINATES OF CANALS AND PIPELINES O6 COORDINATES OF CANALS AND PIPELINES IRRIGATION FACILITIES O1 PUMP AND PIPE ARRANGEMENT (1/2) O2 PUMP AND PIPE ARRANGEMENT (2/2) O3 FARM POND (1/2) O4 FARM POND (2/2) O5 PLAN OF PIPELINE ARRANGEMENT O6 PROFILE (1/3), MIP, BIP-1 O7 PROFILE (1/3), BIP-2, BIP-3 O8 PROFILE (3/3), BIP-4, BIP-5 O9 PIPE ARRANGEMENT OF PIPELINE IRRIGA 10 SPRINKLER IRRIGATION SYSTEM DRAINAGE FACILITIES O1 NO.1 DROP ON MD, PROTECTION OF EXISTING O2 DRAINAGE CULVERT, SUB-SURFACE DRA O3 PROFILE (1/4), MAIN DRAIN O4 PROFILE (2/4), CD-1, CD-2, CD-3 O5 PROFILE (3/4), CD-4, CD-5	REAM AD (1/2), HORTICULTURAL FARM (2/2), BERHANIYA STREAM TIDN SYSTEM G GULVERT ON MD, NO. 2 DROP & NO. 2 CULVERT ON. MD
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07 PROFILE (2/3), BIP-2, BIP-3 08 PROFILE (3/3), BIP-4, BIP-5 09 PIPE ARRANGEMENT OF PIPELINE IRRIGA 10 SPRINKLER IRRIGATION SYSTEM DRAINAGE FACILITIES 01 NO.1 DROP ON MD, PROTECTION OF EXISTING 02 DRAINAGE CULVERT, SUB-SURFACE DRA 03 PROFILE (1/4), MAIN DRAIN 04 PROFILE (2/4), CD-1, CD-2, CD-3	S CULVERT ON MD, NO.2 DROP & NO.2 CULVERT ON. MD
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09 PIPE ARRANGEMENT OF PIPELINE IRRIGA 10 SPRINKLER IRRIGATION SYSTEM DRAINAGE FACILITIES 01 NO.1 DROP ON MD, PROTECTION OF EXISTING 02 DRAINAGE CULVERT, SUB - SURFACE DRA 03 PROFILE (1/4), MAIN DRAIN 04 PROFILE (2/4), CD-1, CD-2, CD-3	S CULVERT ON MD, NO.2 DROP & NO.2 CULVERT ON. MD
10 SPRINKLER IRRIGATION SYSTEM DRAINAGE FACILITIES 01 NO.1 DROP ON MD, PROTECTION OF EXISTING 02 DRAINAGE CULVERT, SUB - SURFACE DRA 03 PROFILE (1/4), MAIN DRAIN 04 PROFILE (2/4), CD-1, CD-2, CD-3	S CULVERT ON MD, NO.2 DROP & NO.2 CULVERT ON. MD
DRAINAGE FACILITIES O1 NO.1 DROP ON MD, PROTECTION OF EXISTING O2 DRAINAGE CULVERT, SUB - SURFACE DRA O3 PROFILE (1/4), MAIN DRAIN O4 PROFILE (2/4), CD-1, CD-2, CD-3	AIN II A
O1 NO.1 DROP ON MD, PROTECTION OF EXISTING O2 DRAINAGE CULVERT, SUB - SURFACE DRA O3 PROFILE (1/4), MAIN DRAIN O4 PROFILE (2/4), CD-1, CD-2, CD-3	AIN II A
O2 DRAINAGE CULVERT, SUB - SURFACE DRA O3 PROFILE (1/4), MAIN DRAIN O4 PROFILE (2/4), CD-1, CD-2, CD-3	AIN II A
03 PROFILE (1/4), MAIN DRAIN 04 PROFILE (2/4), CD-1, CD-2, CD-3	
04 PROFILE (2/4), CD-1, CD-2, CD-3	
)
05 PROFILE (3/4), CD-4, CD-5	\$
06 PROFILE (4/4), CD-6, CD-7	
07 IMPROVEMENT OF BELHANIYA STREAM	·
ROADS	
O1 APPROACH ROAD	
02 FARM ROAD	
BUILDINGS	
01 PUMP HOUSE	
02 FARM HOUSE	
03 ELECTRIC FACILITIES	
VINE TRELLIS	
OI VINE TRELLIS (1/3)	
02 VINE TRELLIS (2/3)	
03 VINE TRELLIS (3/3)	The state of the s
CONSTRUCTION TIME SCHEDULE	
	O1 PUMP HOUSE O2 FARM HOUSE O3 ELECTRIC FACILITIES VINE TRELLIS O1 VINE TRELLIS (1/3) O2 VINE TRELLIS (2/3) O3 VINE TRELLIS (3/3)

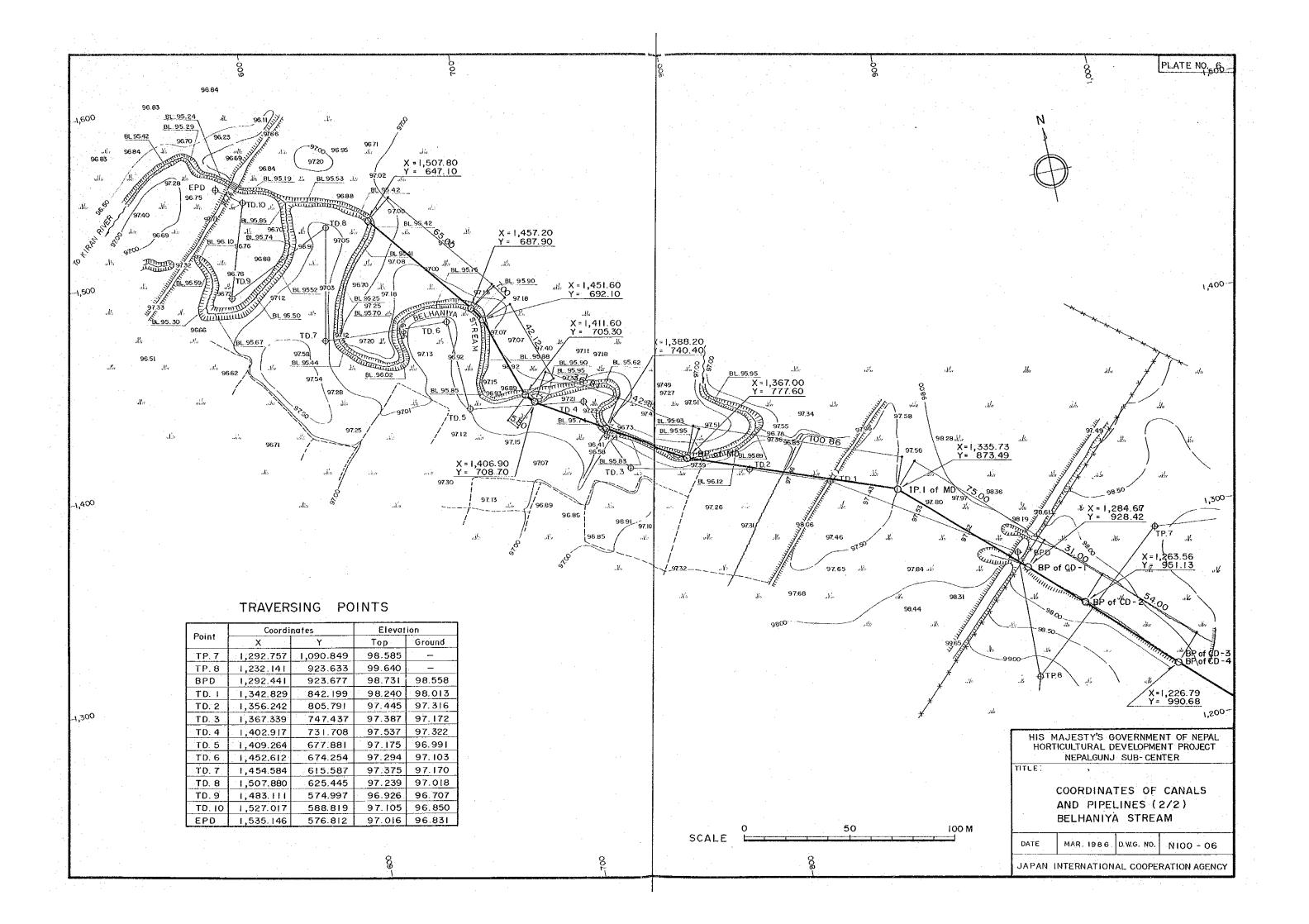


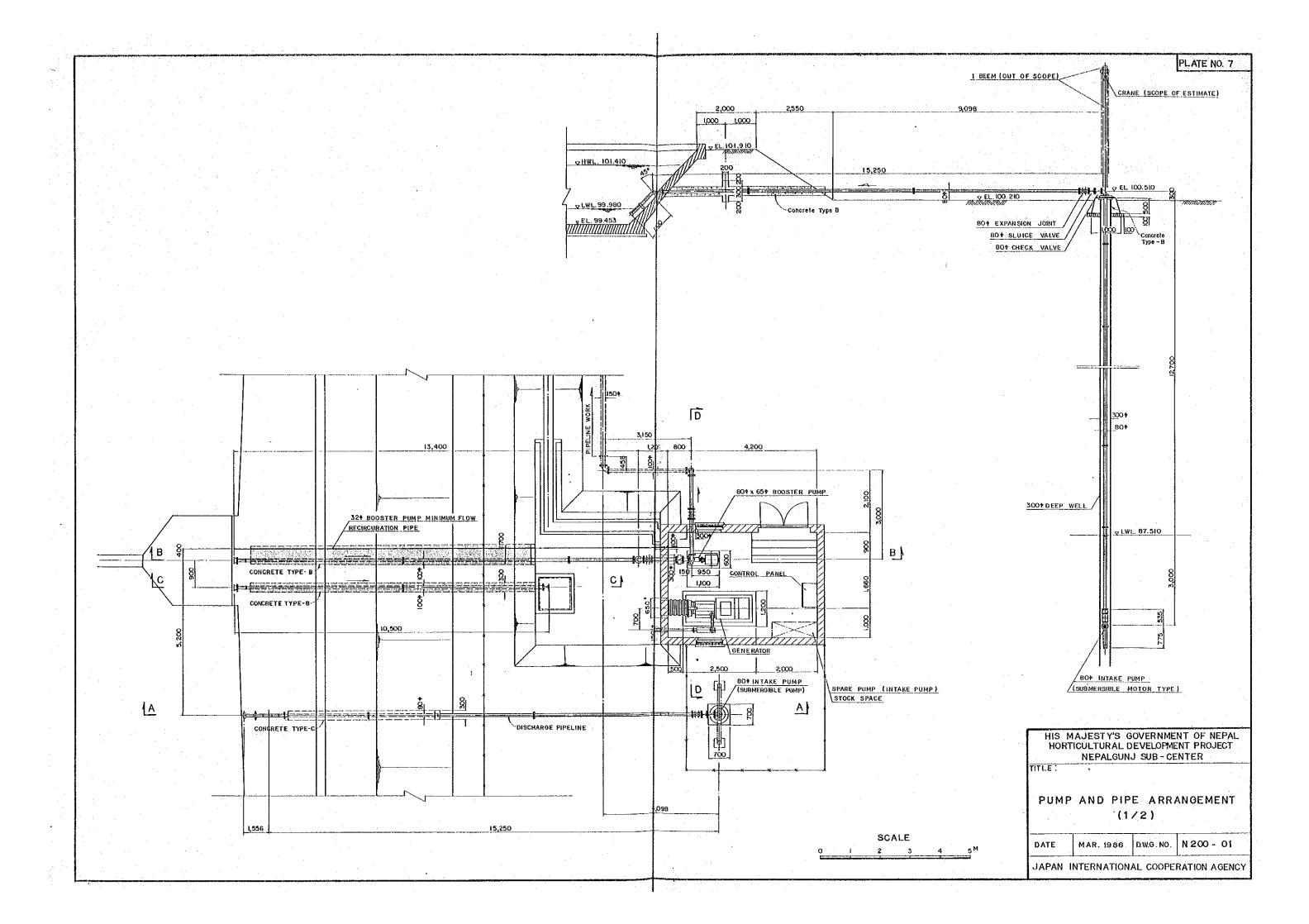


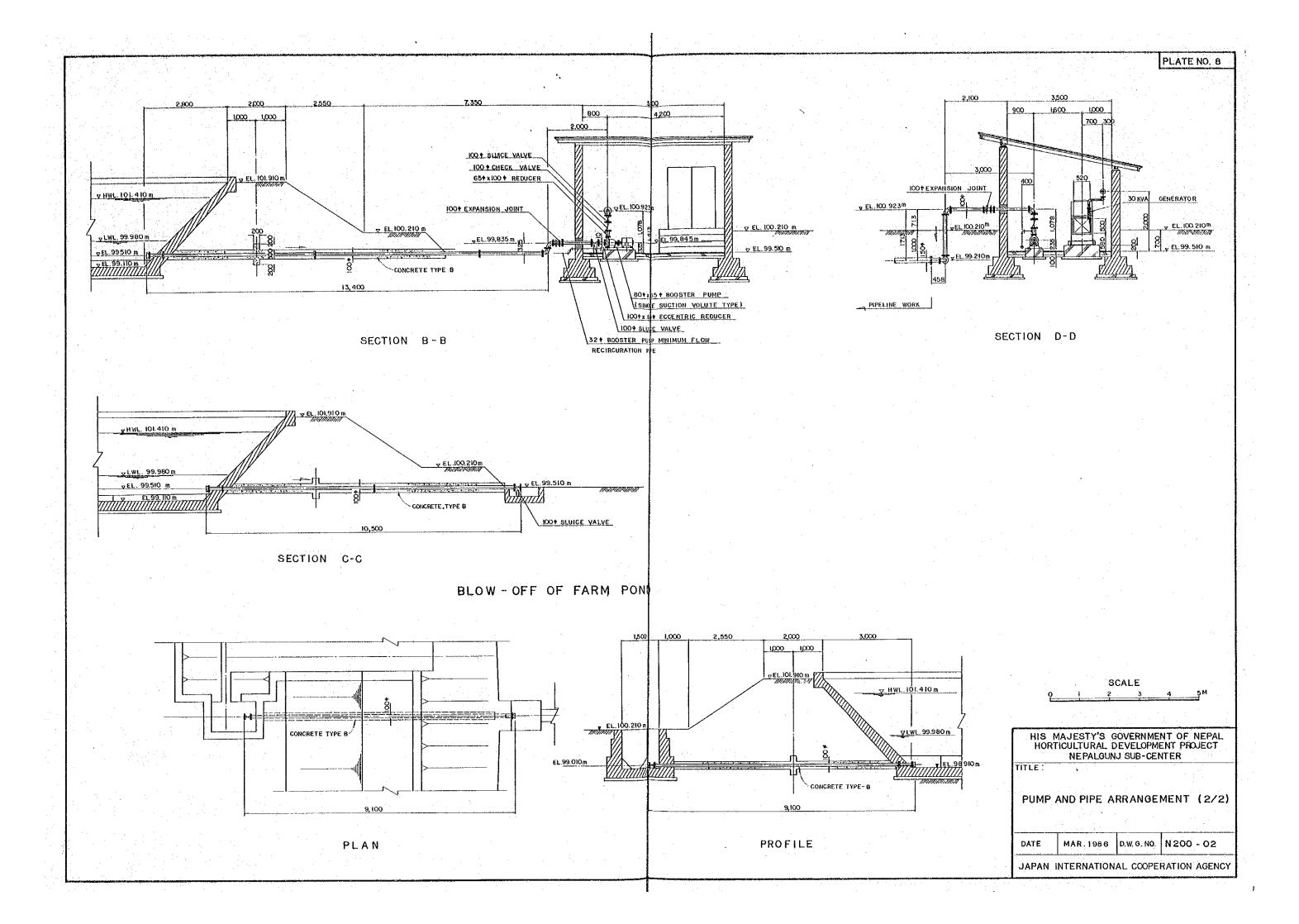


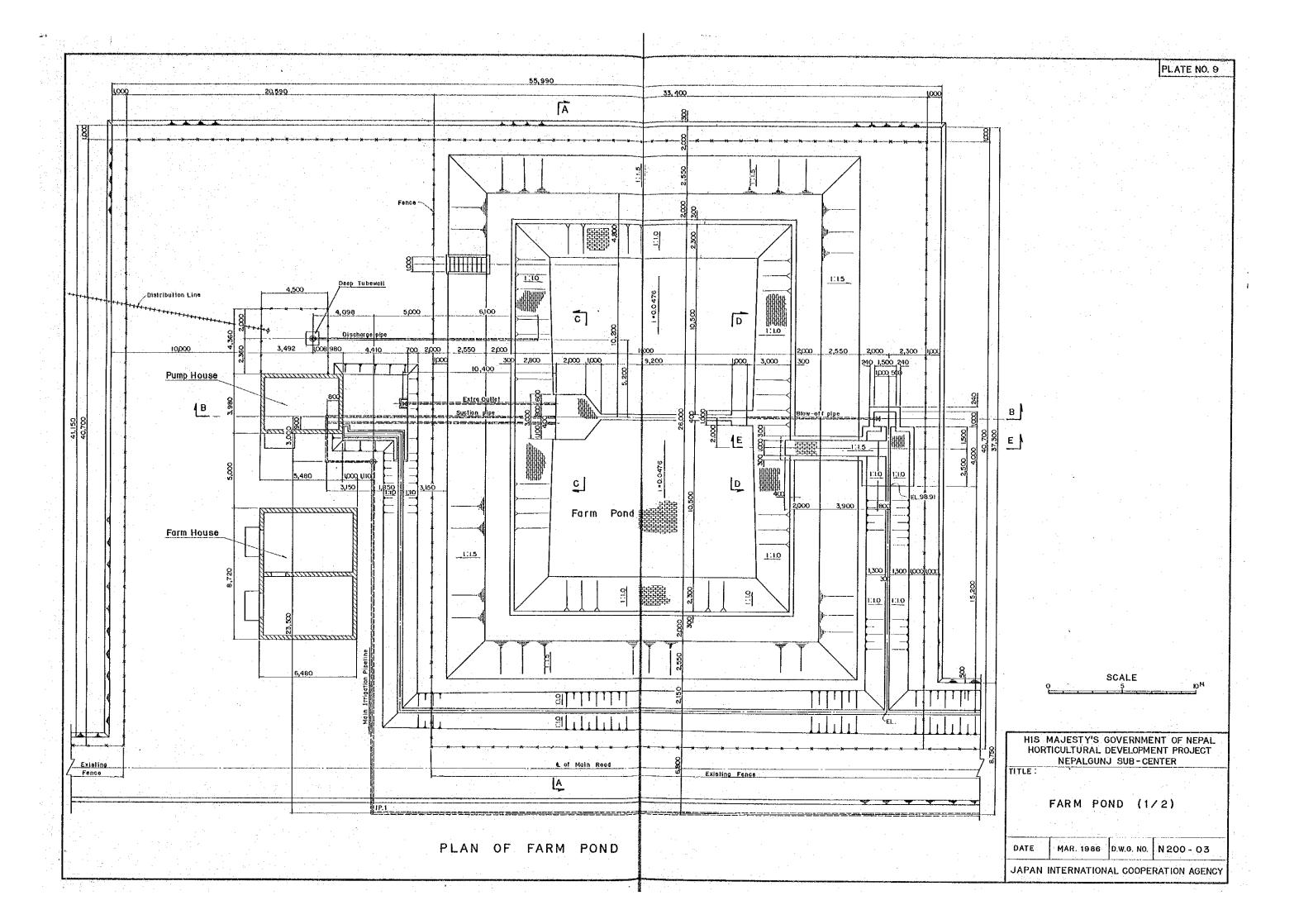


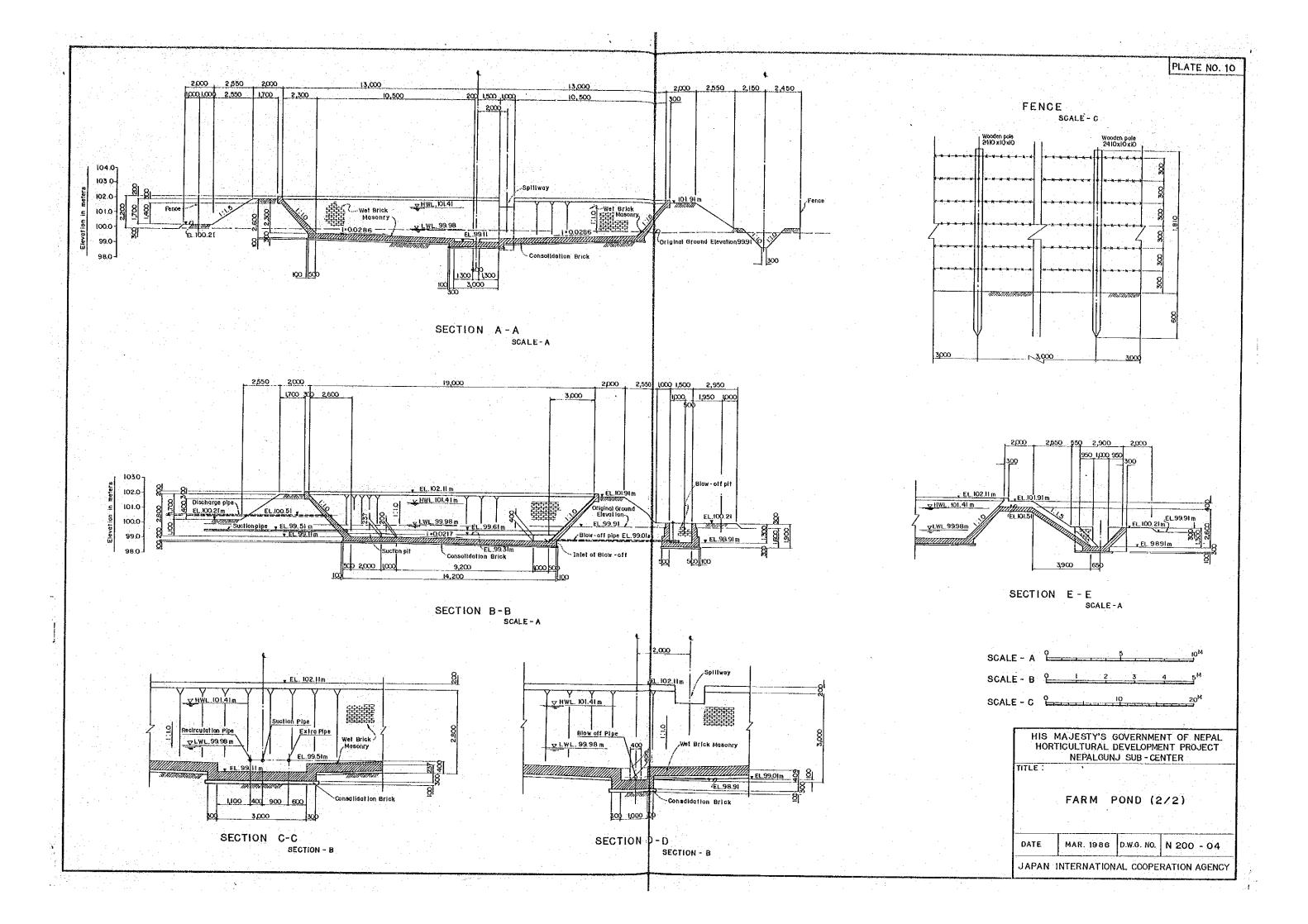


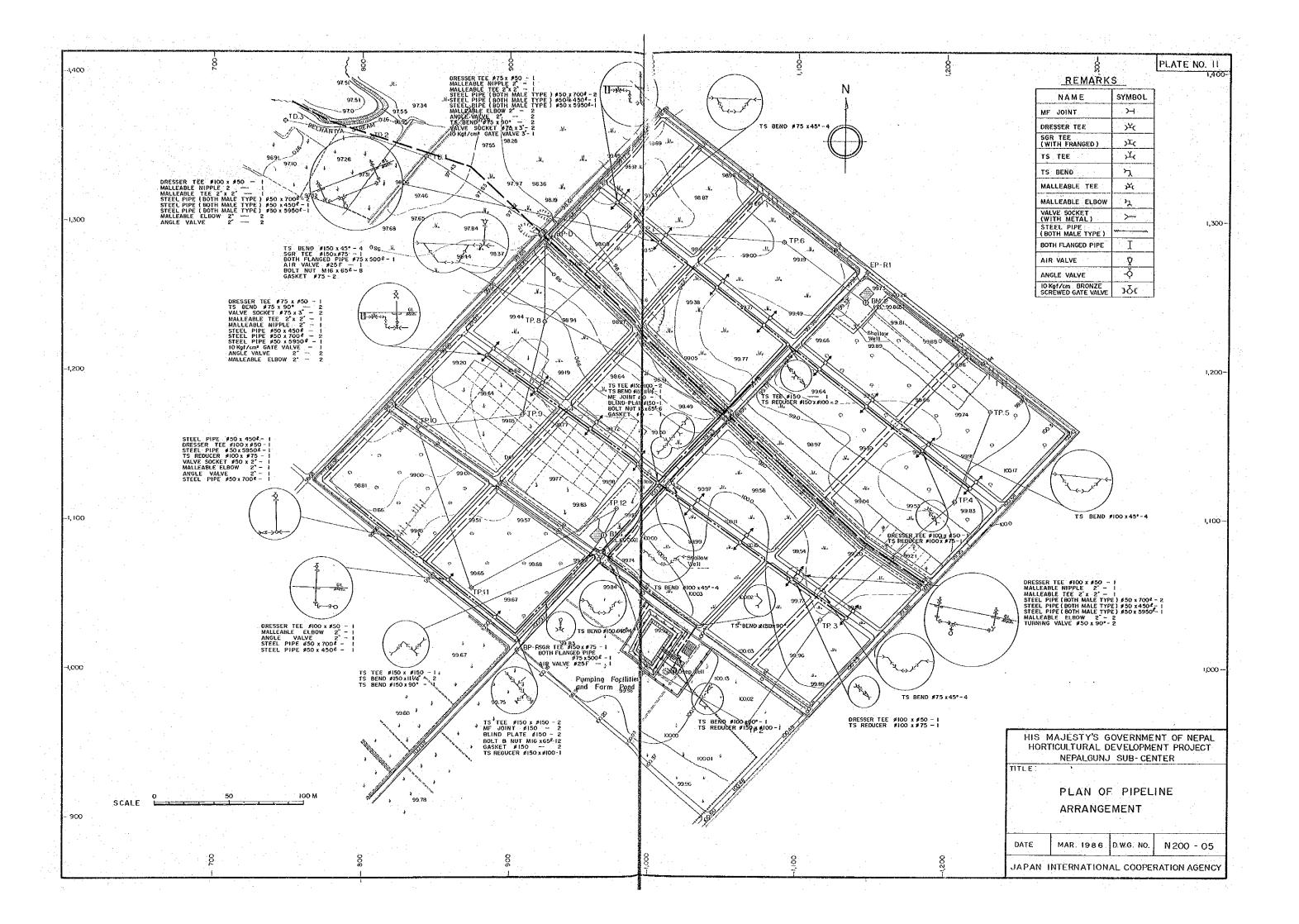


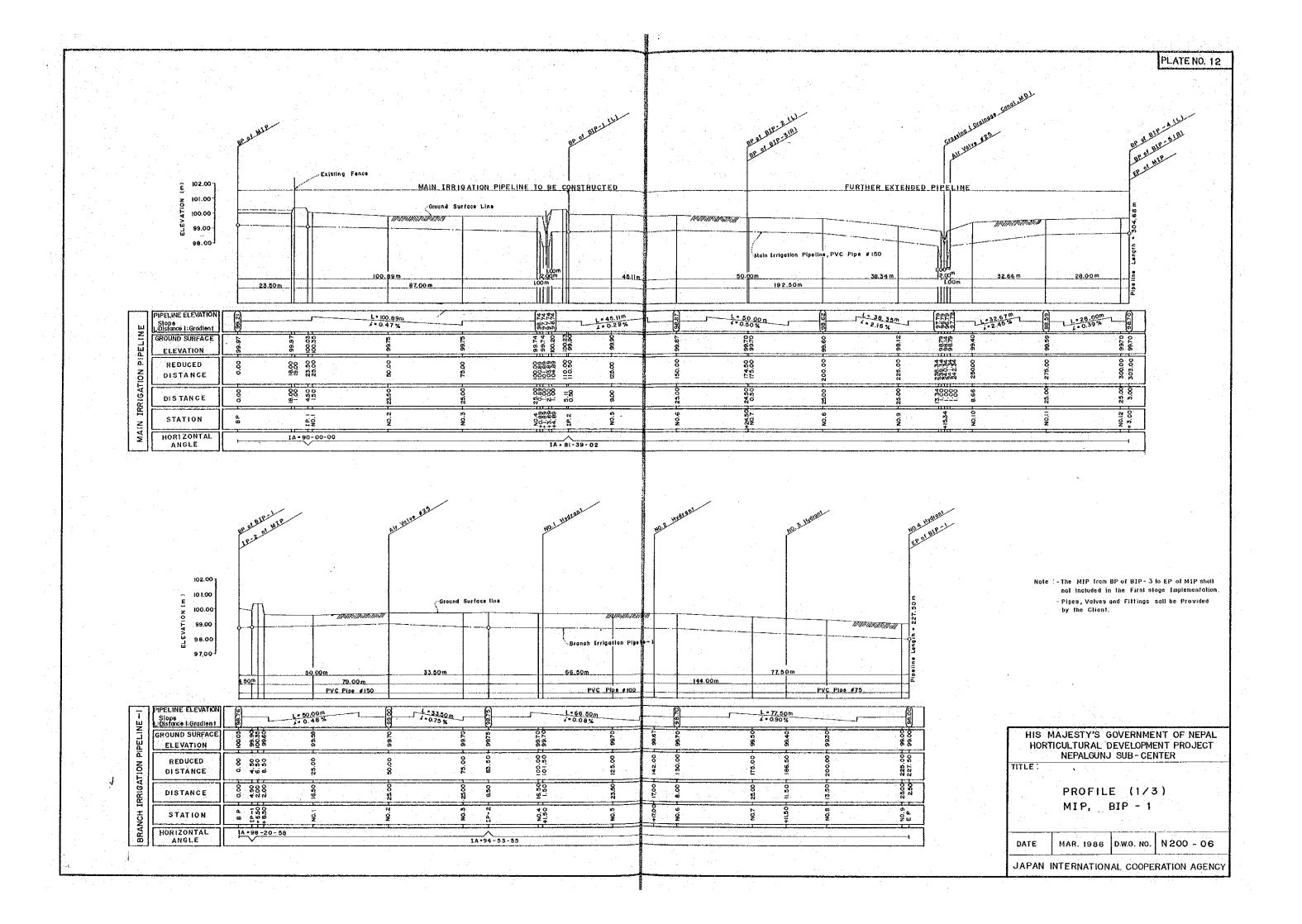




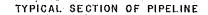


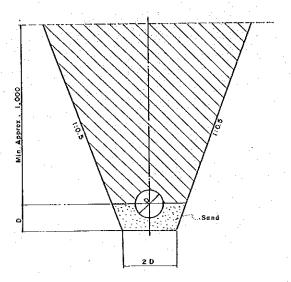




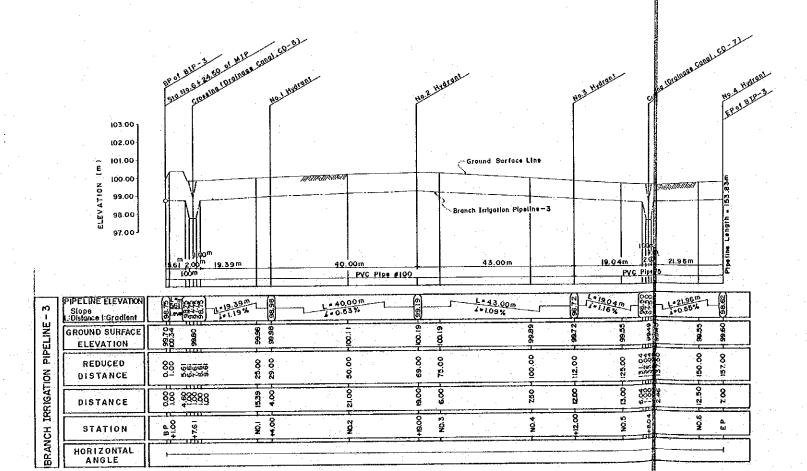








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Ground Surface Line

PVC Pipe #100

L = 58.83m

nch Irrigation Pipe line - 2

127.50m

8558

2000 25 2000 2

138888

NO.3

14:23.67m 1 88

PVC Pipe #75

L -41.00m

P) D

102.00

98.00 98.00 98.00 98.00

PIPELINE ELEVATION

Stope L Distance 1:Gradient GROUND SURFACE

ELEVATION

REDUCED DISTANCE

DISTANCE

STATION HORIZONTAL ANGLE 22.50m

99.80

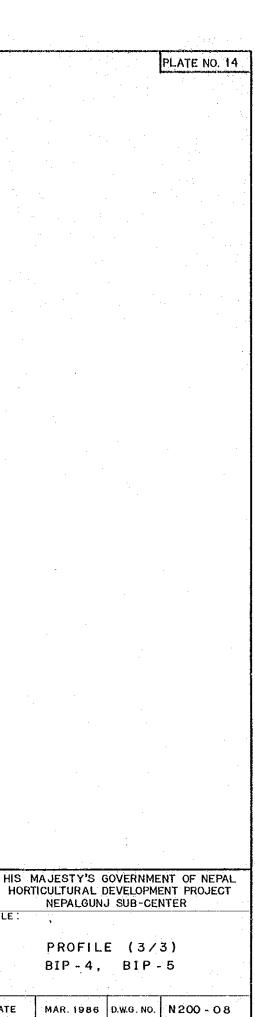
22.50

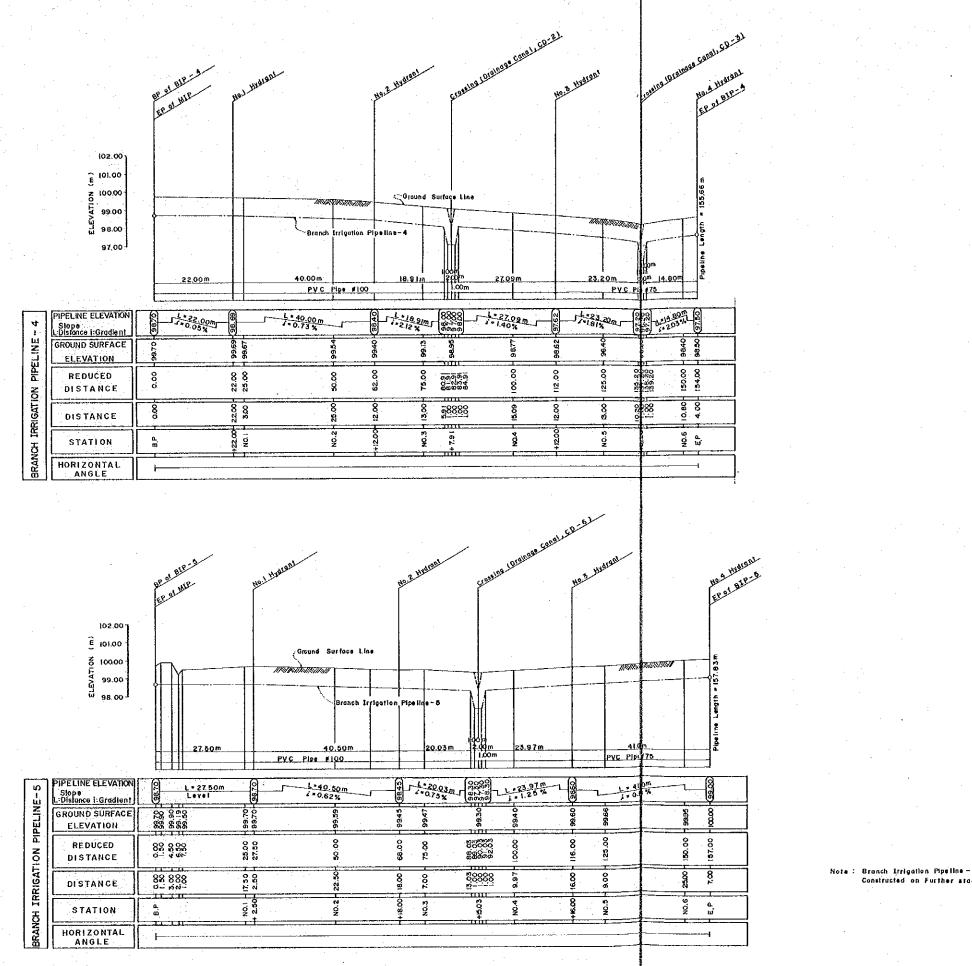
Note: Pipes, Valves and Fittings shall be Provided by the Client. HIS MAJESTY'S GOVERNMENT OF NEPAL HORTICULTURAL DEVELOPMENT PROJECT NEPALGUNJ SUB-CENTER TITLE:

PROFILE (2/3) BIP-2, BIP-3

DATE MAR. 1986 D.W.G. NO. N200 - 07

JAPAN INTERNATIONAL COOPERATION AGENCY



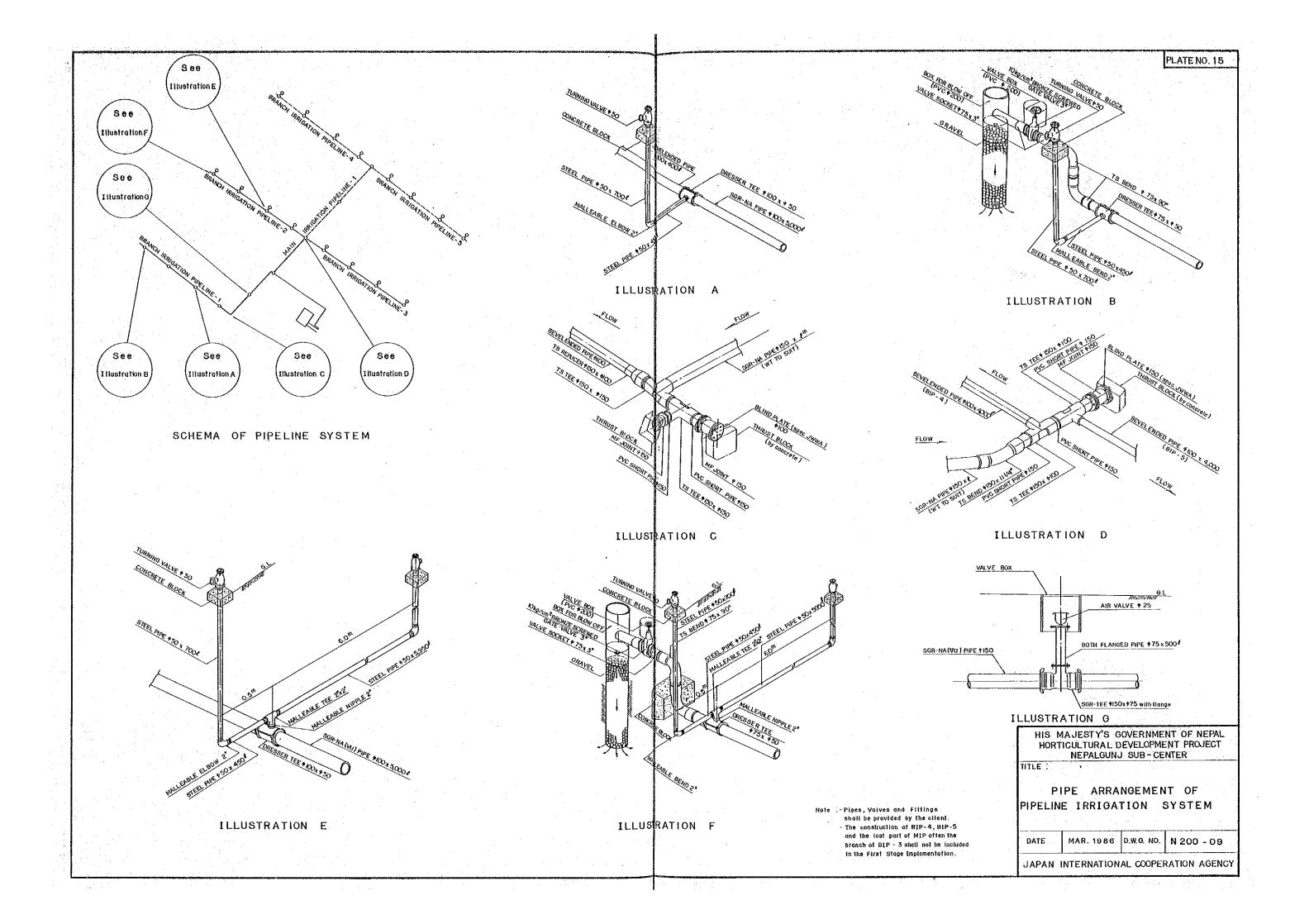


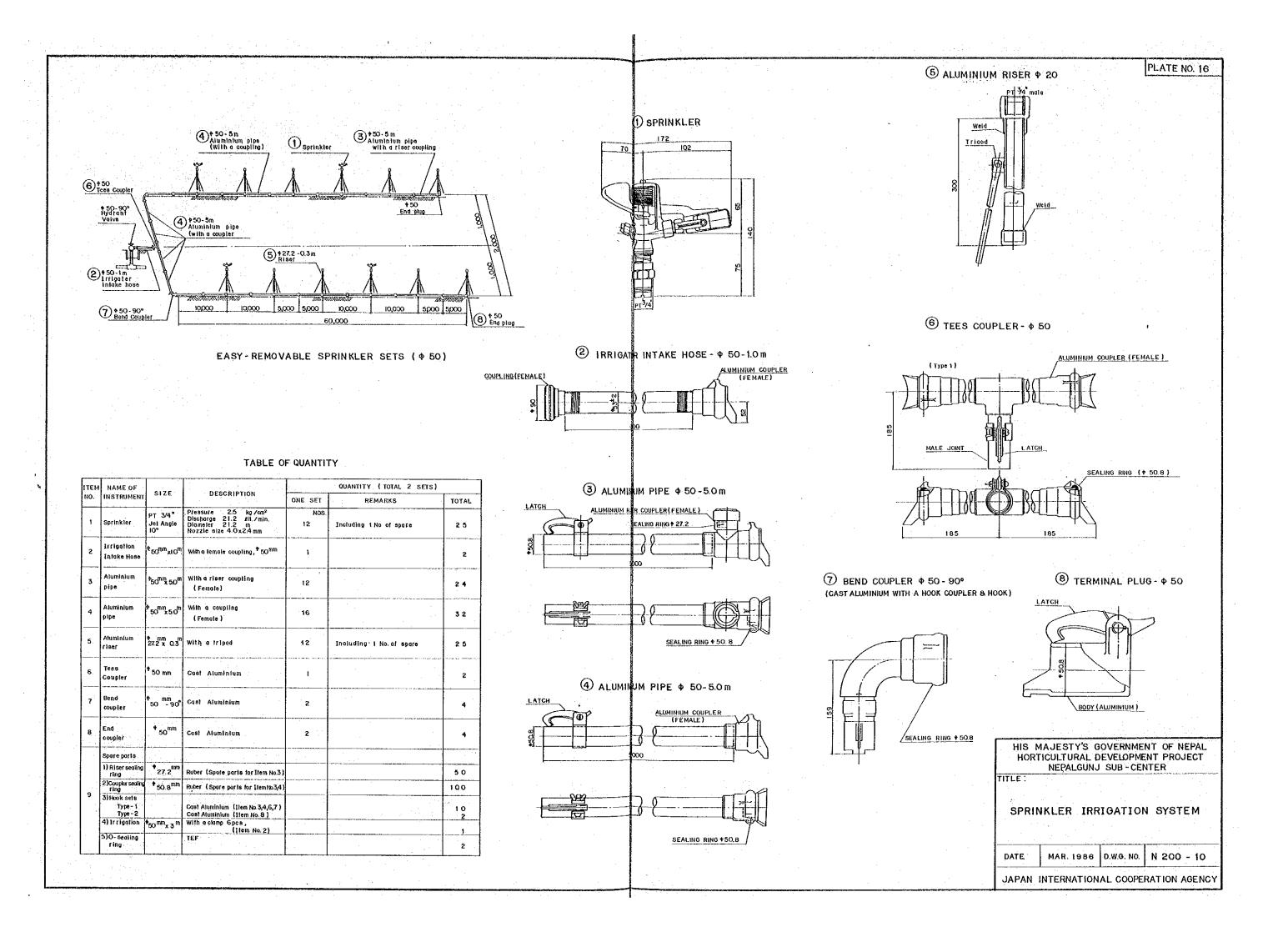
Note: Branch Irrigation Pipeline - 4 and 5 shall be Constructed on Further stage.

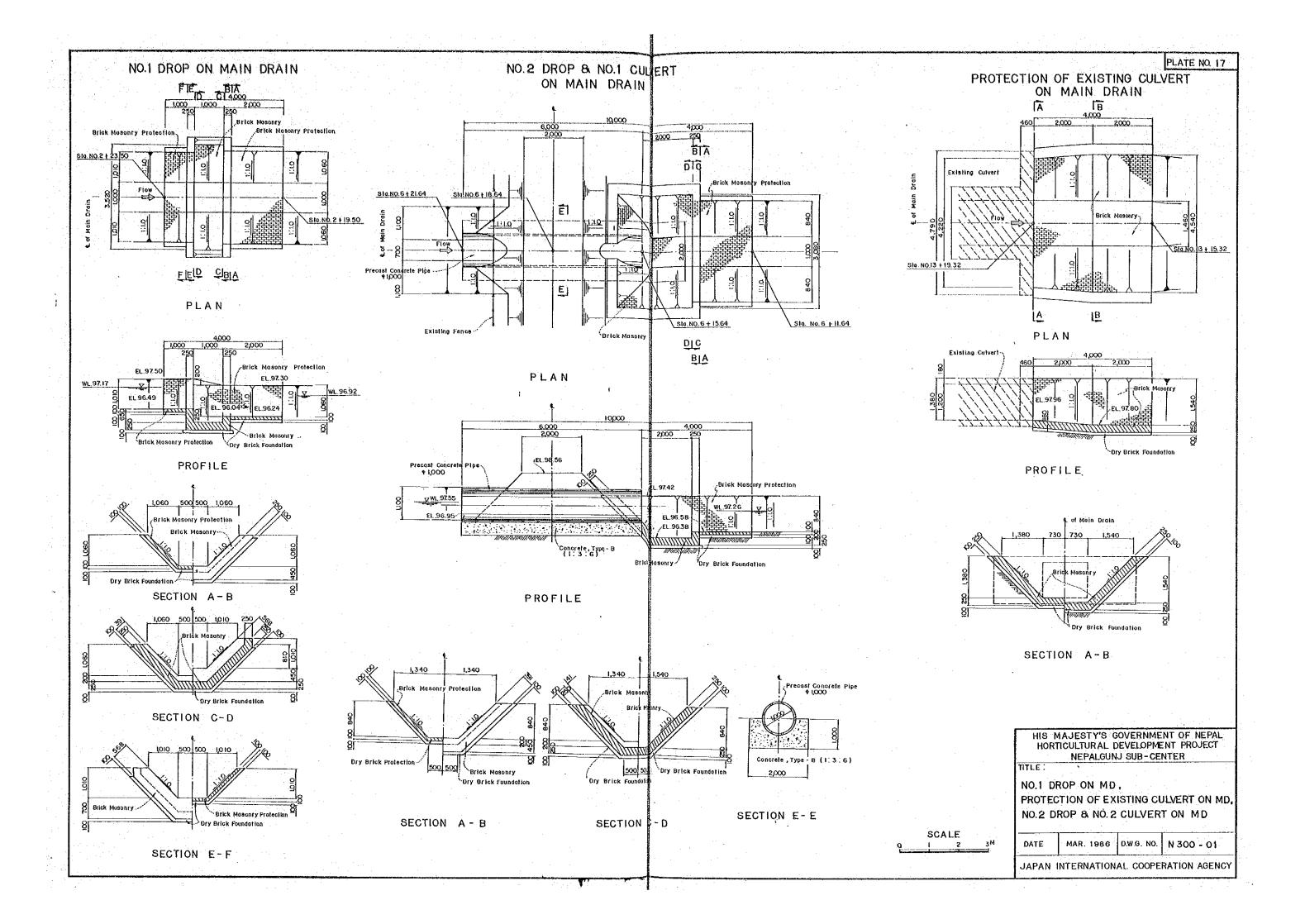
PROFILE (3/3) BIP-4, BIP-5

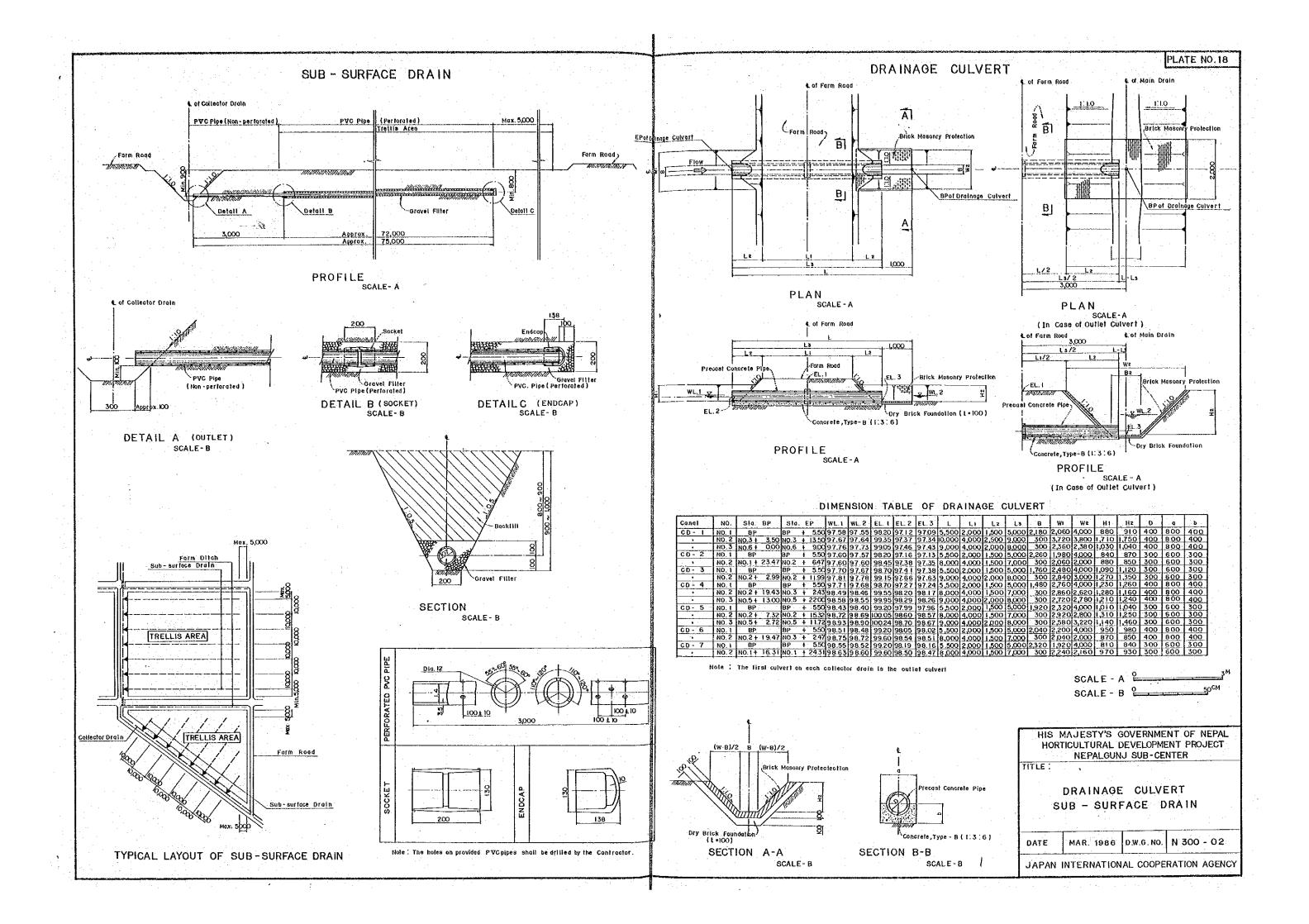
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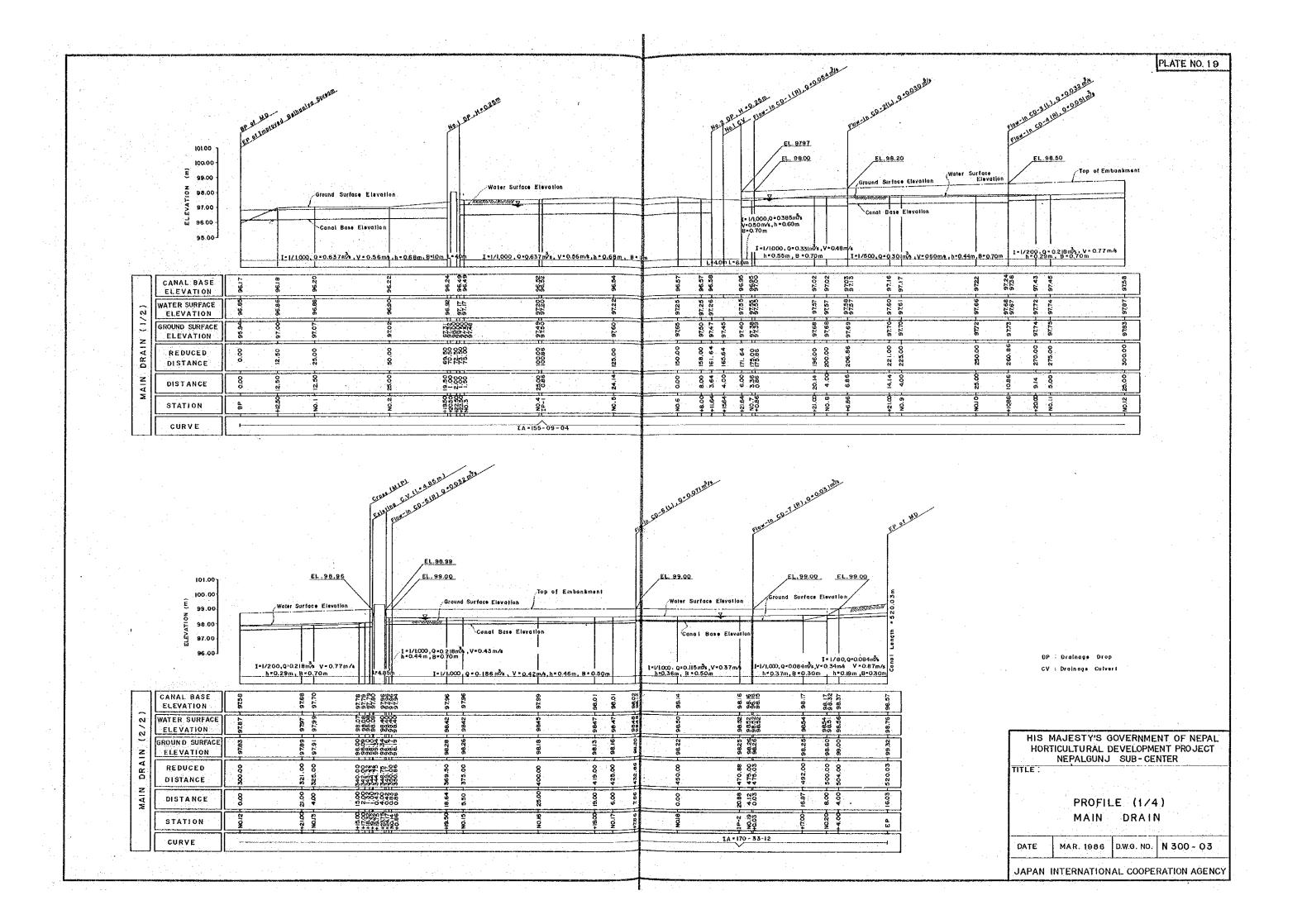
MAR. 1986 D.W.G. NO. N 200 - 08 DATE JAPAN INTERNATIONAL COOPERATION AGENCY

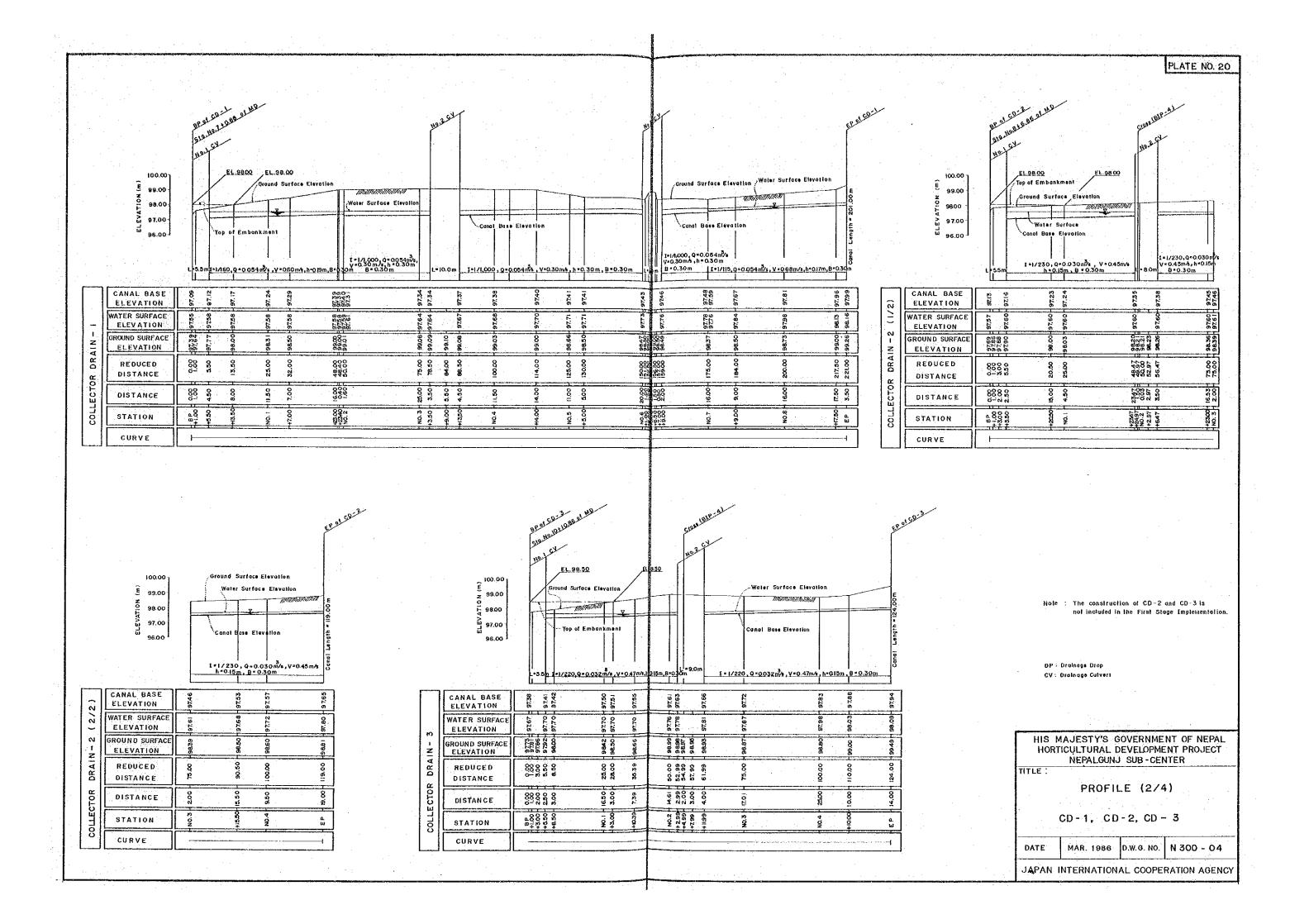


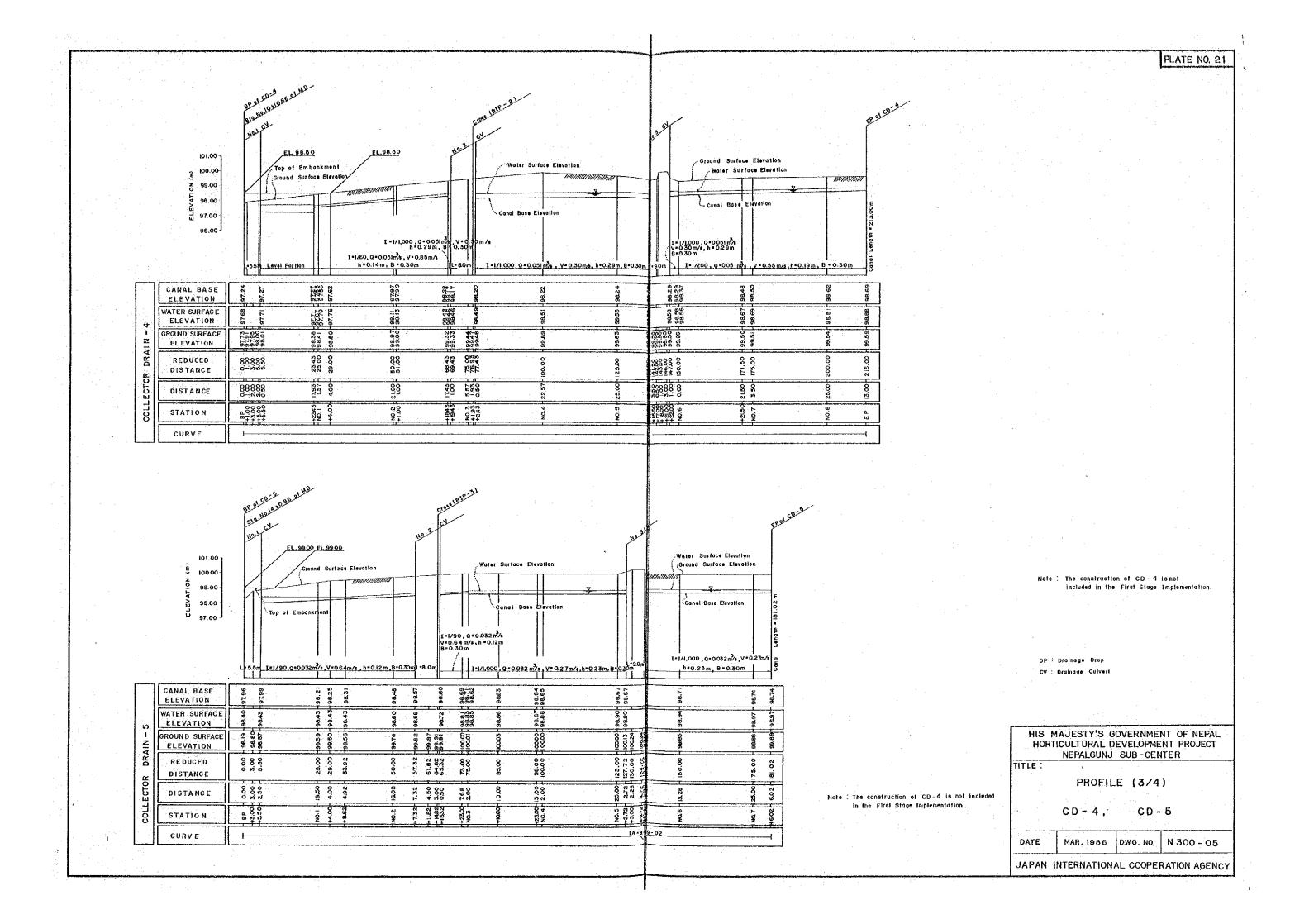


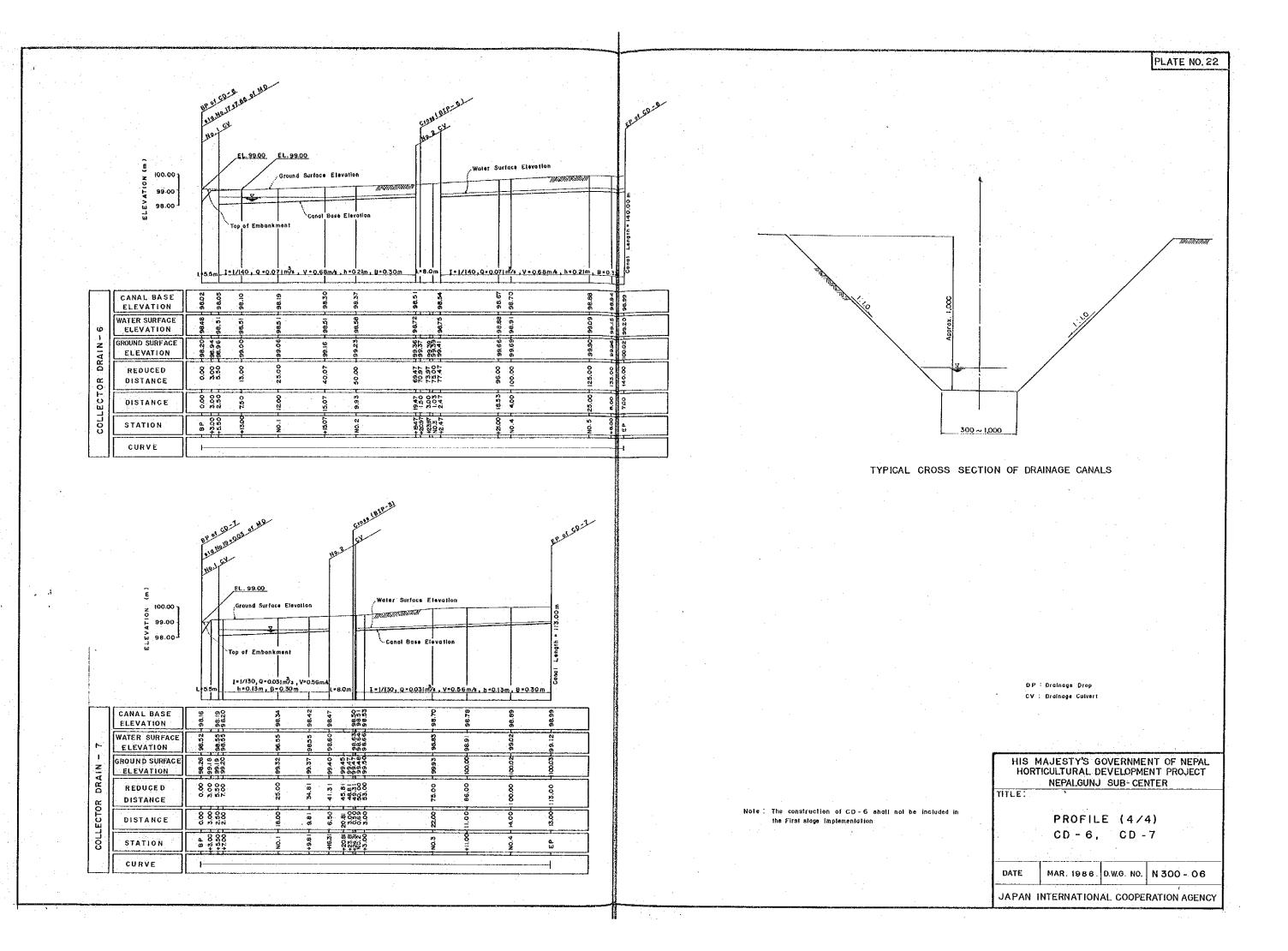


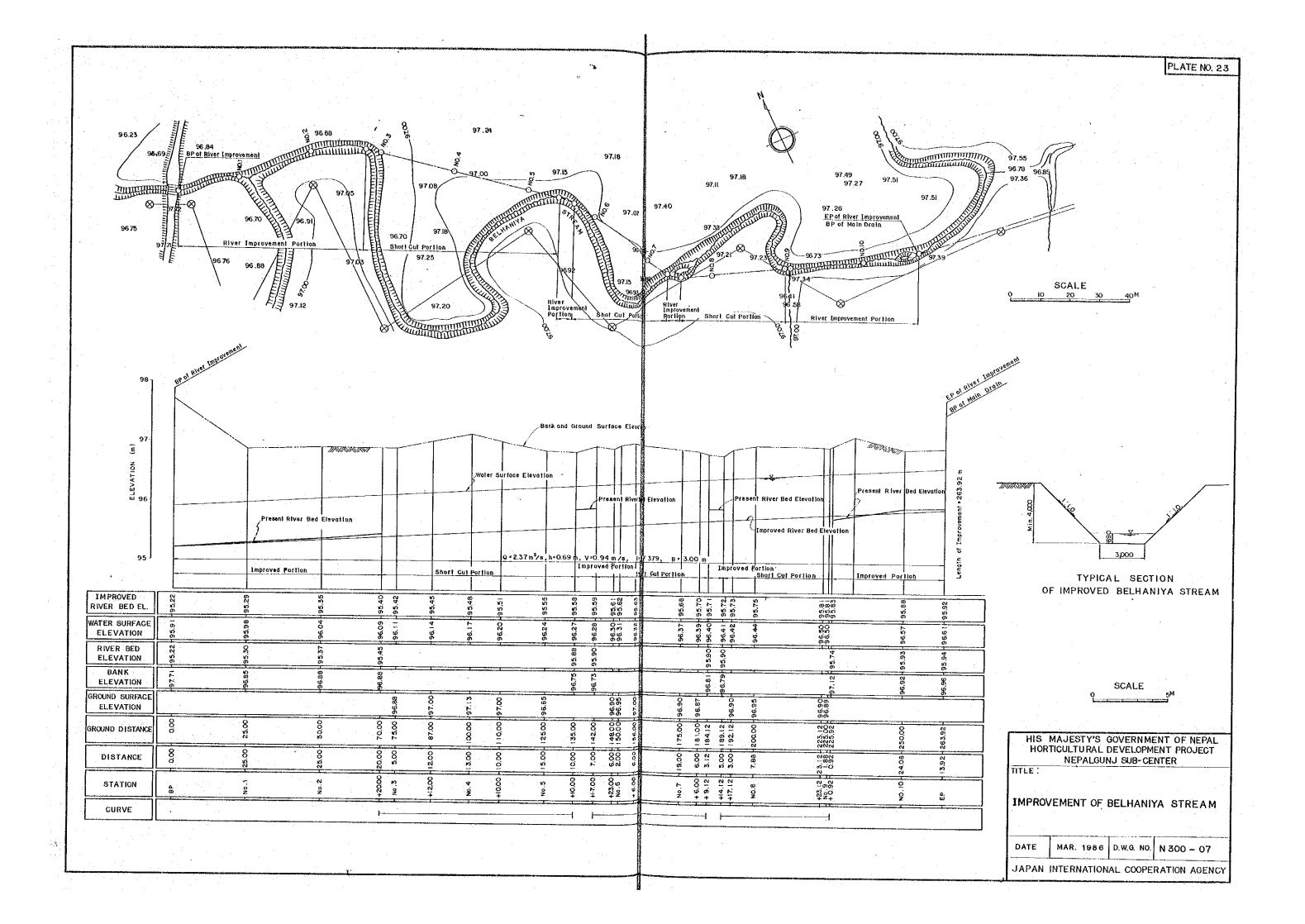


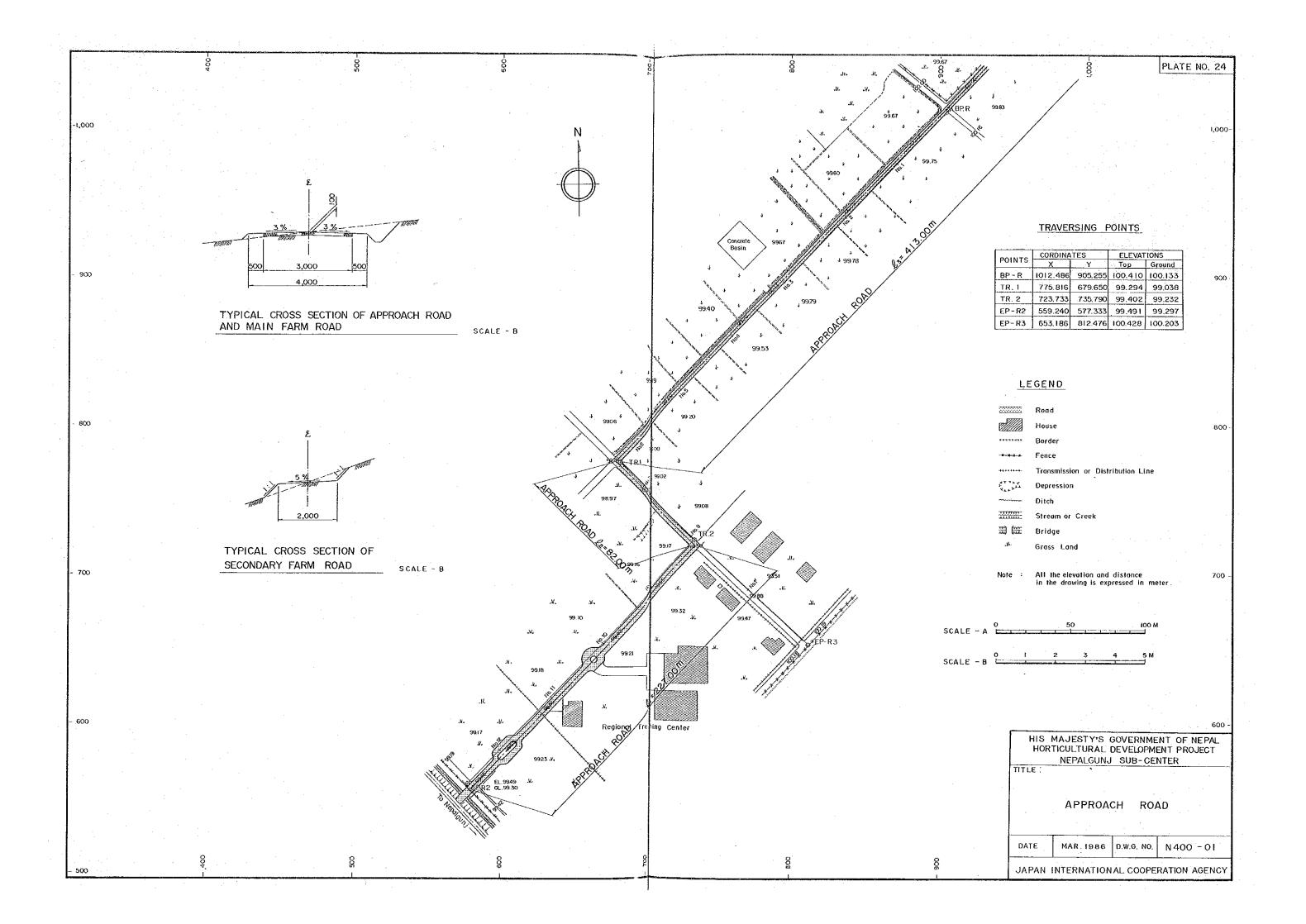


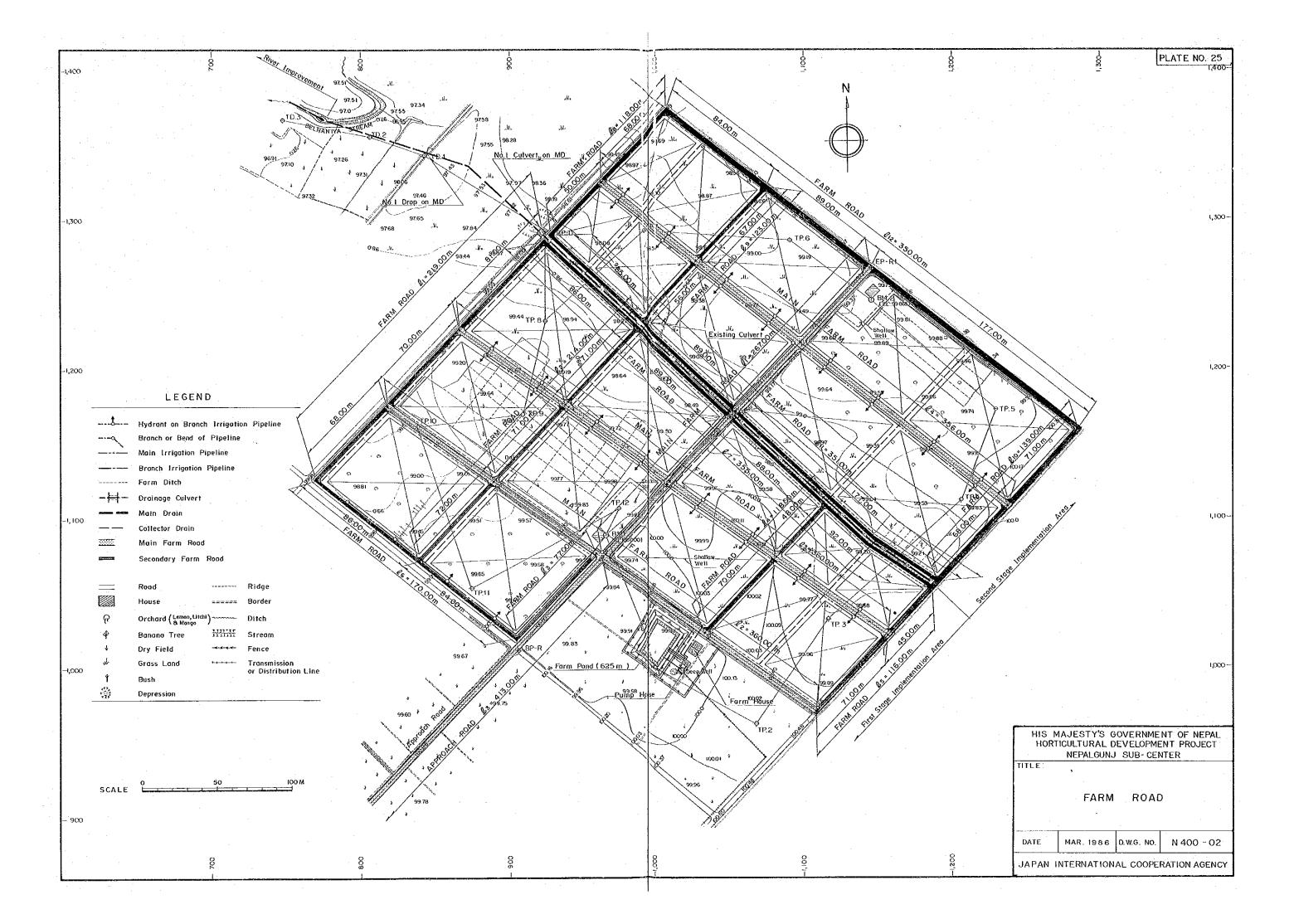


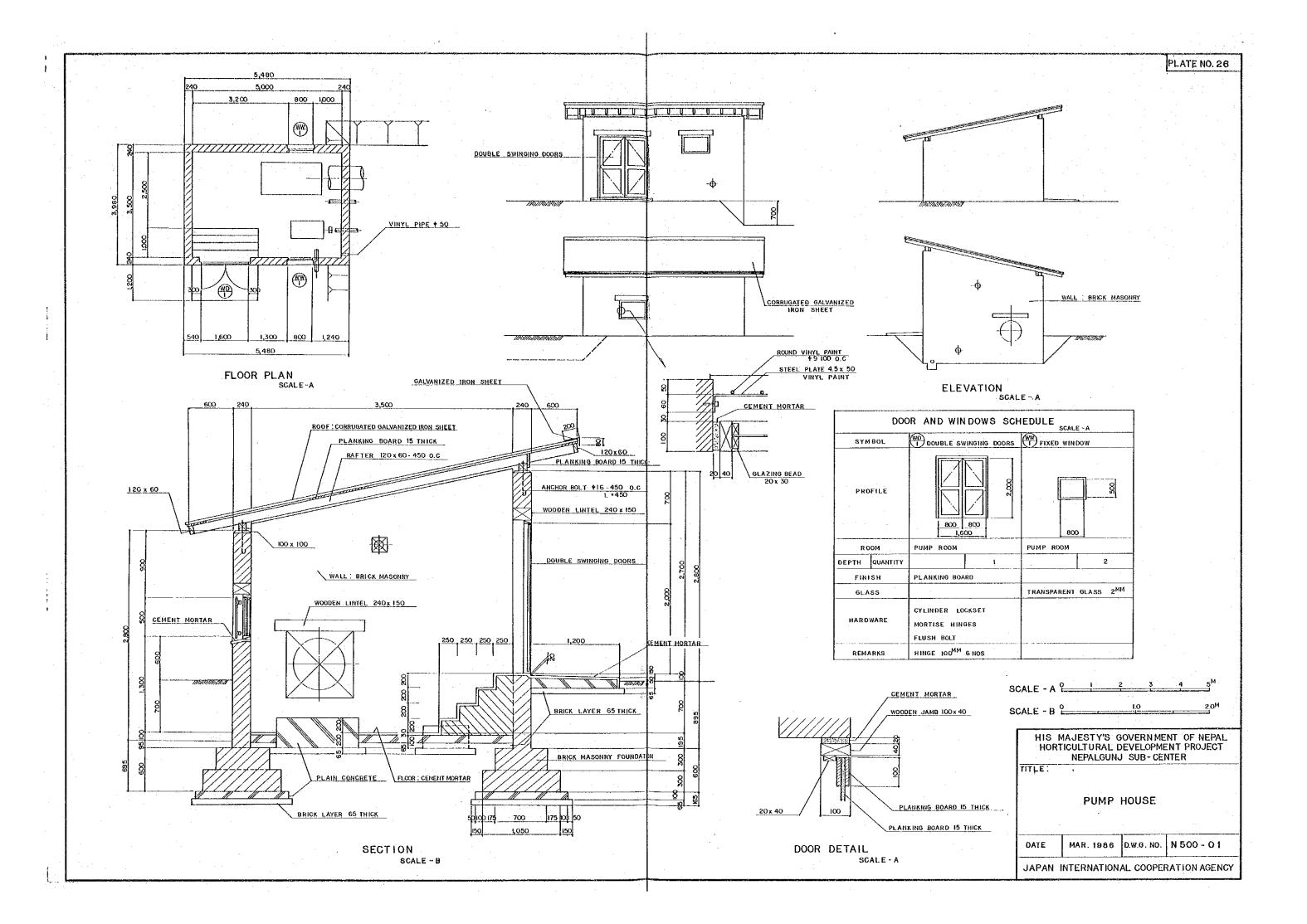


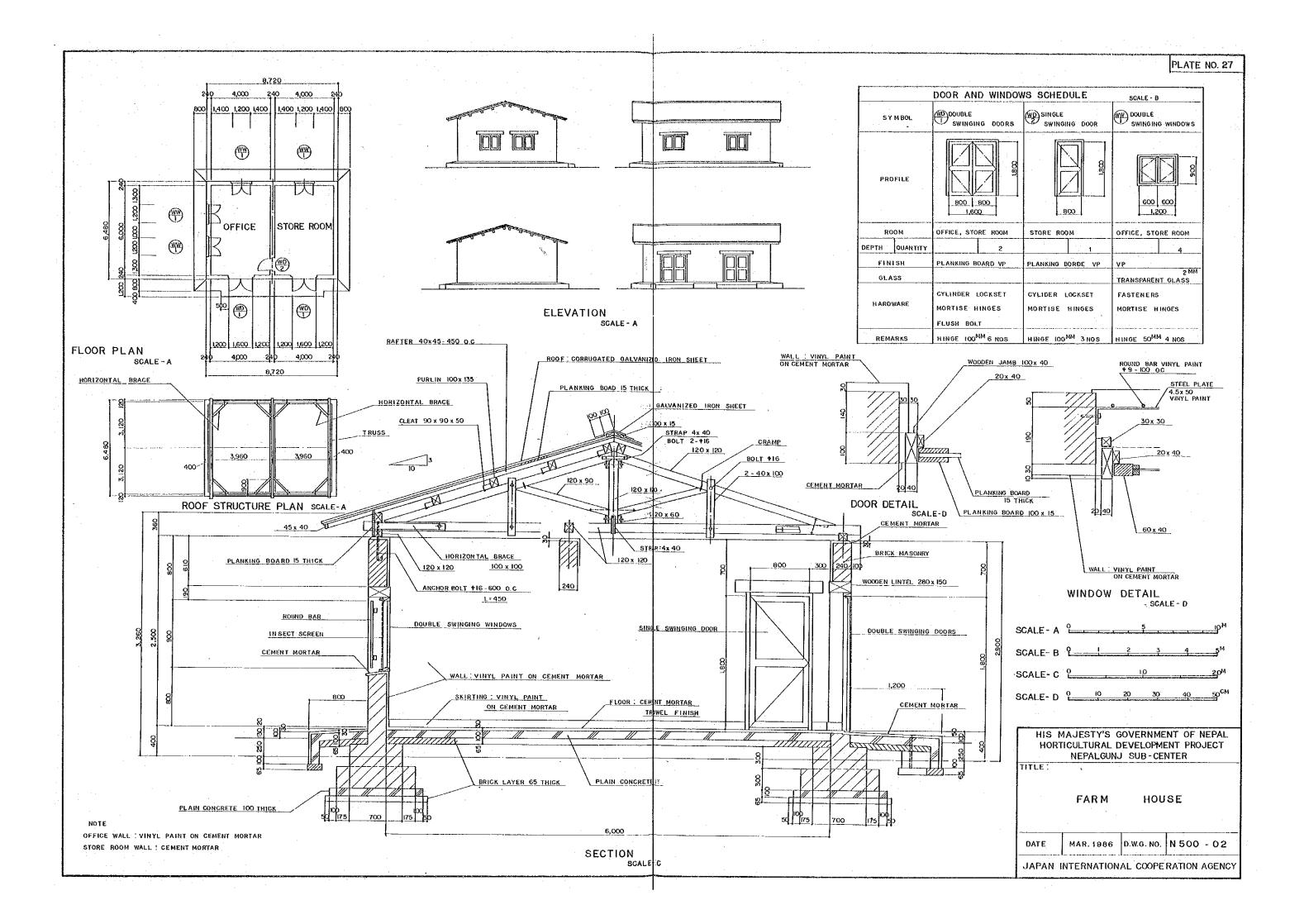




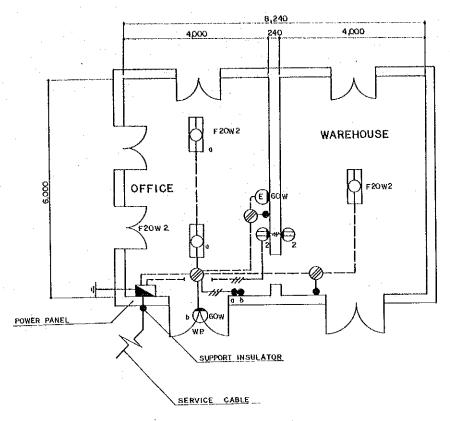








FARM HOUSE

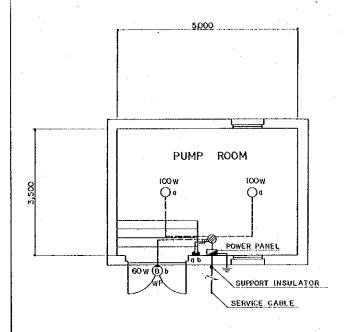


FLOOR PLAN

	'	DISTRIBUTION BOARD SC	HEDULE	1 + 2	₩ 230V S	50HZ	
	CIRCUIT	LOAD DESCRIPTION	Q'TY	UNIT	PHASE LOAD(VA)	LOCATION	
1+2W 230V F	NO		ľ	VA	U.W		
DISTRIBUTION BOARD TOTAL LOAD 700 (VA)	1	FLUORESCENT LAMPS 20 W X 2	. 5	60	120	OFFICE	
BRANCH CIRCUIT CIRCUIT LOAD BREAKER IP-IOA NO (VA) MAIN CIRCUIT D- 1 300 BREAKER IP-IOA 2 400	1	- DITTO - 20WX 2	1	60	60	WAREHOUSE	
		1	INCANDE SCENT LAMPS 60 W	1	60	60	OFFICE
		- DITTO - 60W	1	60	60	OUT DOOR LIGHTING	
	2	DUPLEX CONVENIENCE OUTLET 200 W	1	200	200	OFFICE	
	2	- DITTO - 200 W	1	200	200	WAREHOUSE	
				1			
				•	1		

•	LEGE	ND
SYMBOL	N A ME	REMARK
O WP	INCANDESENT LAMP	WALL INSTALLED (WATER PROOF TYPE)
<u>(a)</u>	INCANDESENT LAMP	WALL INSTALLED
EOH FROM X 2	FLUORESCENT LAMP	EXAMPLE FL 20W x 2
0	JOINT BOX FOR CABLE	
•	TUMBLER SWITCH	FOR ONE SET ON OFF LAMP CONTROL
- 90	TUMBLER SWITCH	FOR TWO SETS
⊕ ₂	DUPLEX CONVENIENCE OUTLET	WITH GROUNDING
	DISTRIBUTION BOARD	FOR LIGHTNG
	WIRING CONCEALED IN CEILING OR WALL	
	WIRING EXPOSED	
	BUILDING SERVICE	
4	GROUNDING	

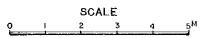
PUMP HOUSE



FLOOR PLAN

OTES	No. 2 (List of		
1	ALL WIRES SHALL BE	600V VINYL INSULATED	VINYL CABL
_	UNLESS OTHERWISE	NOTED	
2_			

	CABLE	CORE	NUNBER
	I.6 MM P	2	1
	1.6 MM •	3	i
7774	2.0 MM 4	3	1



		•		D	ISTRIBUTION BOA	RD S	CHEDULE	1 92	W 230V	50HZ
1 0 2 W 230V				CIRCUIT	LOAD DESCR	RIPTION	O'TY	UNIT	PHASE LOAD(VA)	LOCATION
4	DISTRIBUTION TOTAL LOAD			NO				VA	พ.ษ	
-	TOTAL LOAD	260 (VA)			INCANDESENT		2	100	200	PUMP ROOM
	MAIN CIRCUIT			1, 1	-DITT		1	60	60	OUT DOOR LIGHTING
	BREAKER 2 P 20A		LOAD (VA)							
			260] [• • • • • • • • • • • • • • • • • • • •				
		L								

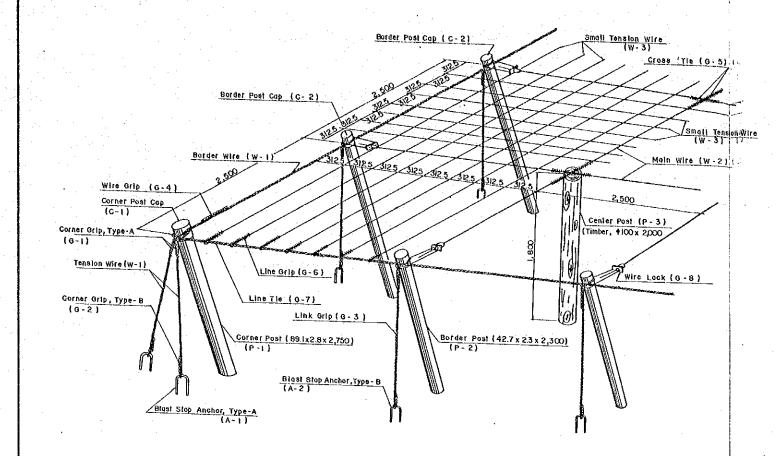
SYMBOL	NAME	REMARK
@	INCANDESENT LAMP	WALL INSTALLED (WATER PROOF TYPE)
0	INCANDESENT LAMP	WALL INSTALLED
0	JOINT BOX FOR CABLE	
99	TUMBLER SWITCH	FOR TWO SET ON OFF LAMP CONTROL
⊕ ₂	DUPLEX CONVENIENCE OUTLET	WITH GROUNDING
	DISTRIBUTION BOARD	FOR LIGHTING
	WIRING CONCEALED IN CEILING OR WALL	
	WIRING EXPOSED	
	BUILDING SERVICE	
#	GROUNDING	

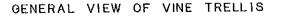
HIS MAJESTY'S GOVERNMENT OF NEPAL HORTICULTURAL DEVELOPMENT PROJECT NEPALGUNJ SUB-CENTER

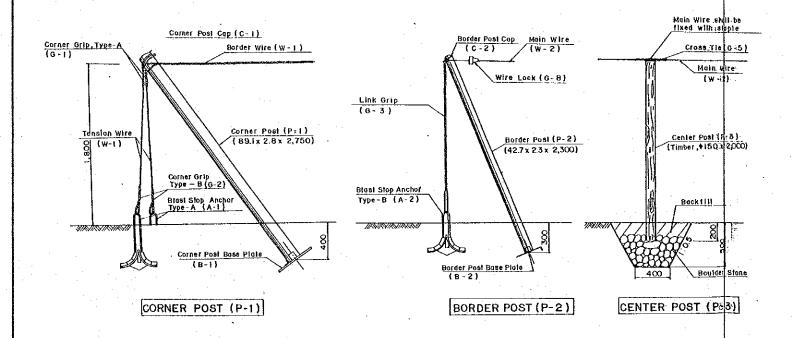
TITLE :

ELECTRIC FACILITIES

1							
DATE	MAR. 1986	D.W.G. NO.	N 500 - 03				
JAPAN INTERNATIONAL COOPERATION AGENCY							

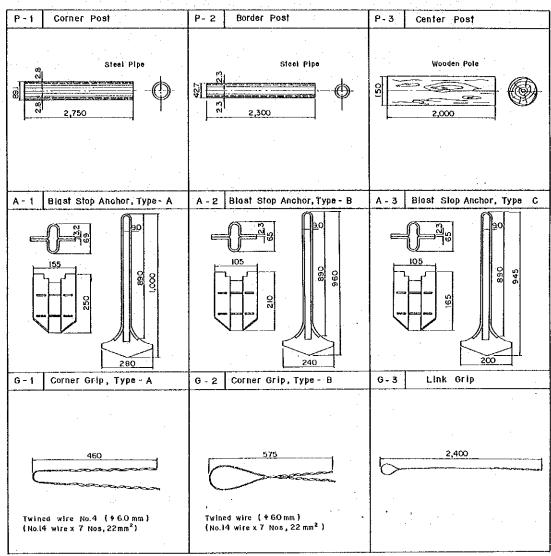






INSTALLATION OF POLES

LIST OF SUPPLIED MATERIALS



Note: The above materials shall be supplied to the Contractor

V	INE	TRE	ELLIS	(1/3)
DATE	MAR.	1986	DWG .NO.	N 600 - 01

LIST OF SUPPLIED MATERIALS

G-4 Wire Grip	G-5 Cross Tie	G-6 Line Grip
630	300	160
Twined wire NO.4 (\$6.0mm) (No.14 wire x 7 Nos, 22 mm²)	NO.10 wire († 3.2 mm)	NO. 14 wire († 2.0 mm)
G-7 Line Tie	G-8 Wire Lock	B-1 Corner Post Base Plate
200 NO.14 wire x 7 Nos (22mm²)	415 m/m	8 4-10 4 427+x23 8 51-10 7 427+x23 8 30x25x25 160 140 131 300
B-2 Border Post Base Plate 34.04 x 23 64 - 104 220 34.04 x 23 0	C-1 Corner Post Cap	C-2 Border Post Cap

Code	Name	Nominal Size	Allowable Tensil Siressur	Weight (kg/km)	Remarks
w - I	Border Wire Tension Wire	Sectional Area 22 mm²	1,820	174.00	NO.14 wire x7nos
W - 3	Main Wire	Dia. 3.2	725	62.97	NO.10 wire
W - 3	Small TensionWire	Dla. 2.0	284	24.60	NO.14 wire

Note : The above materials shall be supplied to the Contractor

LIST OF REQUIRED MATERIALS

NO.	Mark		Nome	Unii	Block 1-1	Block 1 - 2	Block II - 1- (1)	Block II-1- (2)	Block II - 2	Block II - 3	Block 11-4	Total
Ī.	O	P - 1	Corner Post	NO.	4	4	4	4	4	6	4	31
2.	0	P-2	Border Post	NO.	108	108	78	73	108	105	107	68
3.		P-3	Center Post	NO.	180	176	9 (68	169	133	170	98
4	•	A- 1	Blast Stop Anchot, Type - A	NO.	8	В	8	8	8	12	8	6
5.	0	A-2	Blast Stop Anchor, Type- B	NO	113	113	79	75	112	111	115	71
6.		A-3	Blast Stop Anchor, Type-C	NO.	48	4.8	25	21	45	37	46	27
7.		G-1	Corner Grip, Type - A	NO.	8	8	6	В	8	12	8	- 6
Θ.		6-2	Corner Grip, Type - B	NO.	. 8	8	- 8	8	8	12	8	6
9.		6-3	Link Grip —	NO	113	113	. 79	75	1.15	1111	115	7
10.		G- 4	Wire Grip	NO.	4	4	. 4	4	4	4	4	
11		G- 5	Cross Tie	NO.	1,490	1,600	740	600	1,400	1,150	1,430	8,4
12.		G-6	Line Grip	NO.	770	826	60.2	546	812	826	840	5,23
13.		G-7	Line Tie	NO.	770	826	602	546	812	826	840	5,22
14.	_	G-8	Wire Lock	NO.	114	114	79	75	113	114	116	7
15.		W- 1	Border Wire and Tension Wire	m	310	310	232	216	302	314	306	1,99
16.		W- 2	Moln Wire	m	4,120	4, 120	1,990	1,610	3,720	3,060	3,910	22,53
17.		W- 3	Small Tension Wire	m	29,900	29,900	14,500	11,700	27,000	22,200	28,400	163,60
18.		B - 1	Corner Post Base Plate	NO.	4	4	4	4	4	6	4	3
19.		B-2	Border Post Base Plate	NO.	108	108	78	73	108	. 105	107	- 68
20		C- I	Corner Post Cop	NO.	. 4	4	4	4	4	6	4	
51		C-2	Border Post Cap	NO.	108	108	78	73	108	105	107	68
	ļ		Net Trellis Area	ha.	0.48	0.48	0.25	0,21	0.45	0.37	0.46	2.7

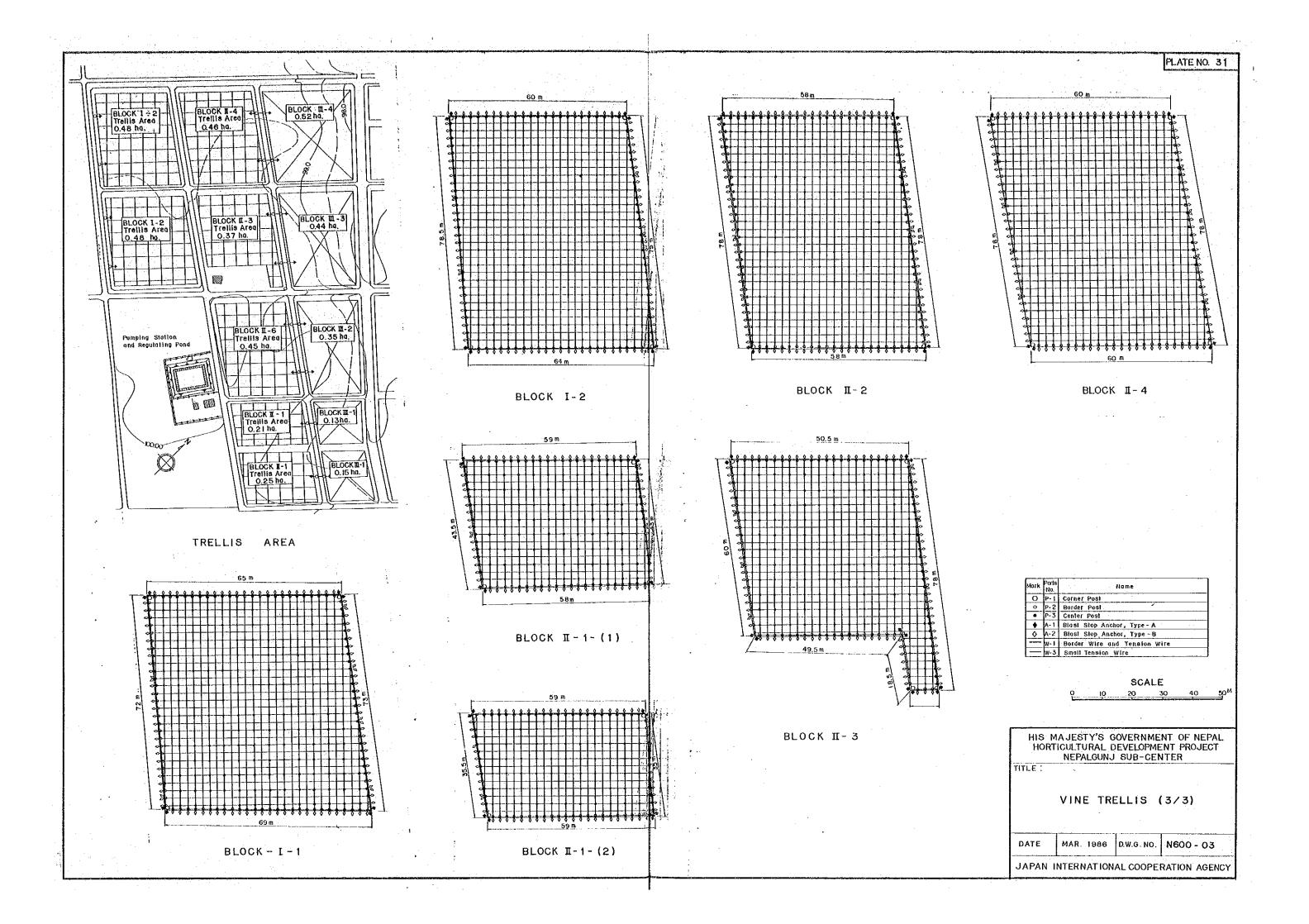
HIS MAJESTY'S GOVERNMENT OF NEPAL HORTICULTURAL DEVELOPMENT PROJECT NEPALGUNJ SUB-CENTER

TITLE :

VINE TRELLIS (2/3)

DATE MAR. 1986 D.W.G. NO. N 600 - 02

JAPAN INTERNATIONAL COOPERATION AGENCY



CONSTRUCTION TIME SCHEDULE OF NEPALGUNJ SUB-CENTER

	1986							Ţ	198	DEMARKS		
WORK ITEM	Jul Aug Sep			Oct. Nov.		Dec.	Jan.	Feb.	Feb. Mar.		REMARKS	
I. TENDER												,
Tender Announce					1							
Tender Close	i i i i i i i i i i i i i i i i i i i	anninininini T						<u> </u>				
Tender Evaluation					1.							
Award of Tender			·									
Signing of Contract			-jumiluit									
Commencement				100								
II. CONSTRUCTION												·
1. Preparatory Works												
2. Pump Station Facilities								 i i		<u> </u>		
3. Farm Pond					ļ							
4. Irrigation Pipeline							(1000)		<u> </u>			
5. Drainage Works					he is si				l			
6. Road Works					No horse						<u> </u>	
7. Land Grading	January 1994											
8. Vine Trellis								1000			i -	
9. Farm House											<u> </u>	
III. PROCUREMENT OF EQUIPMENTS AND MATERIALS					de la constant de la							
1. Pumping Equipment					r.	Φ <u> </u>						
2. Steel Pipes, P.V.C Pipes, Valves and Hydrants W/Fitting						0						
3. Trellis Materials								0	1			
Sprinkler Sets						<u> </u>		<u> </u>	0			

HIS MAJESTY'S GOVERNMENT OF NEPAL HORTICULTURAL DEVELOPMENT PROJECT NEPALGUNJ SUB-CENTER

TITLE:

CONSTRUCTION TIME SCHEDULE

DATE MAR. 1986 DWG. NO. N 700 - 01

JAPAN INTERNATIONAL COOPERATION AGENCY

