

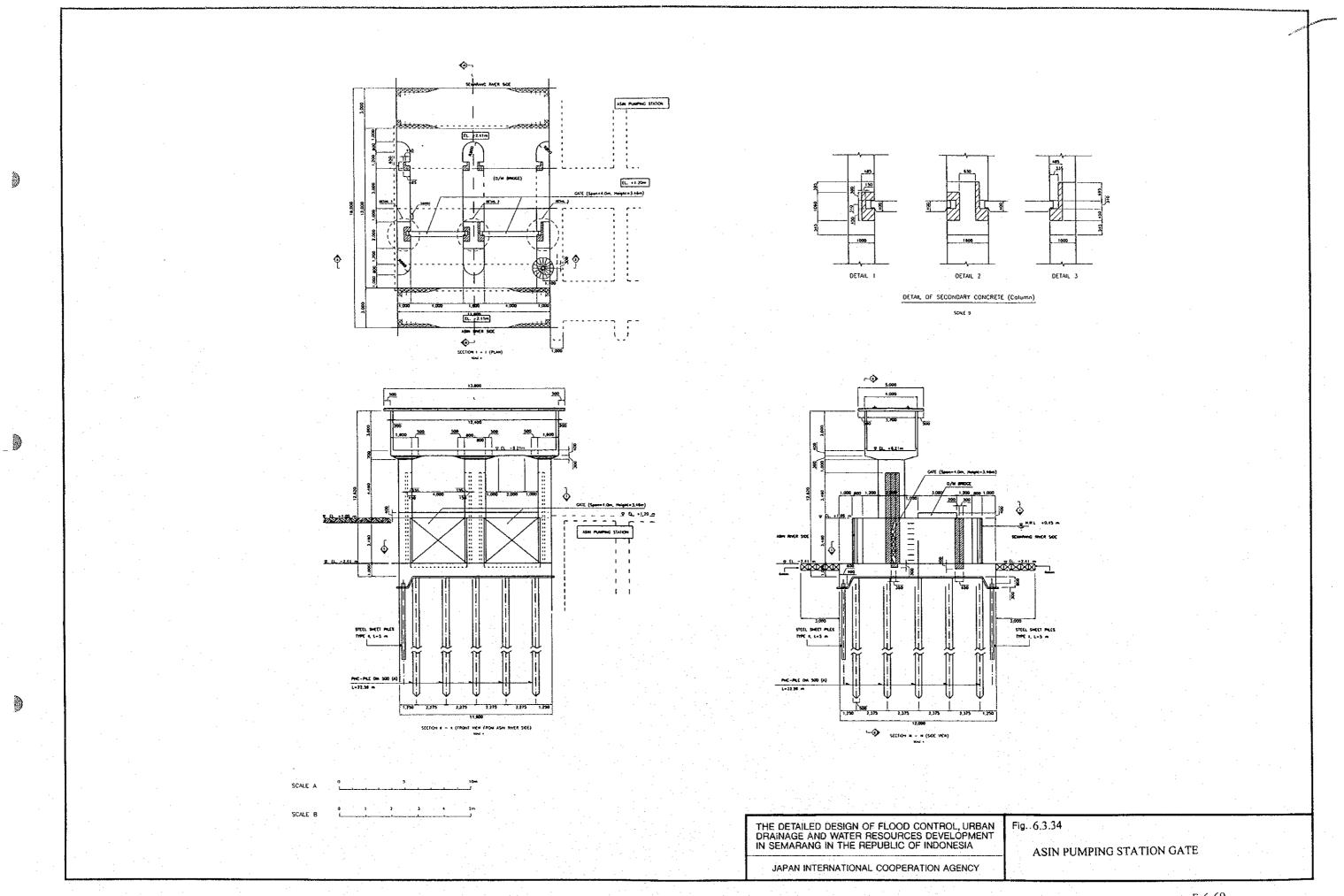
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA JAPAN INTERNATIONAL COOPERATION AGENCY

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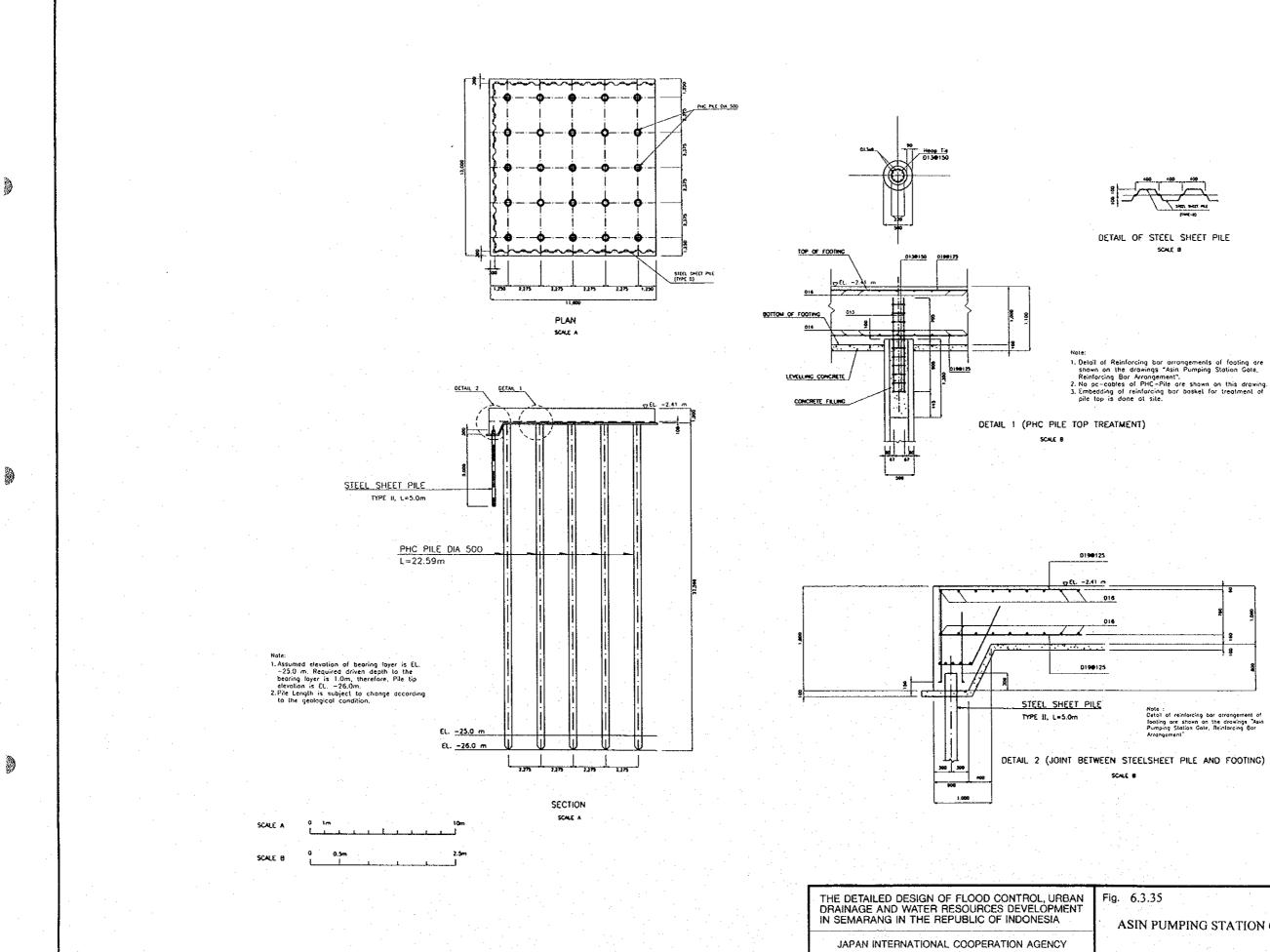
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Fig. 6.3.33

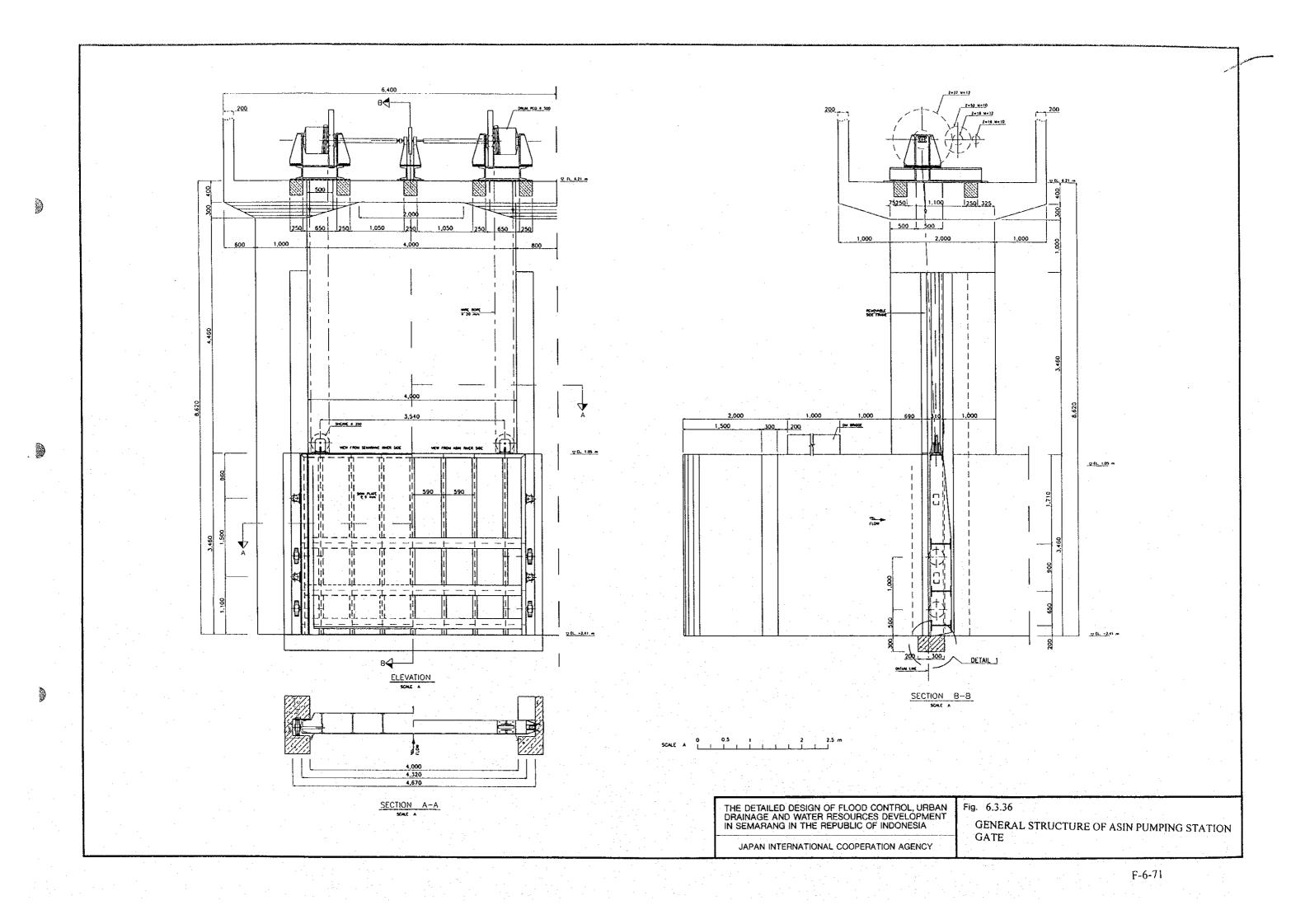
## STAFF HOUSE

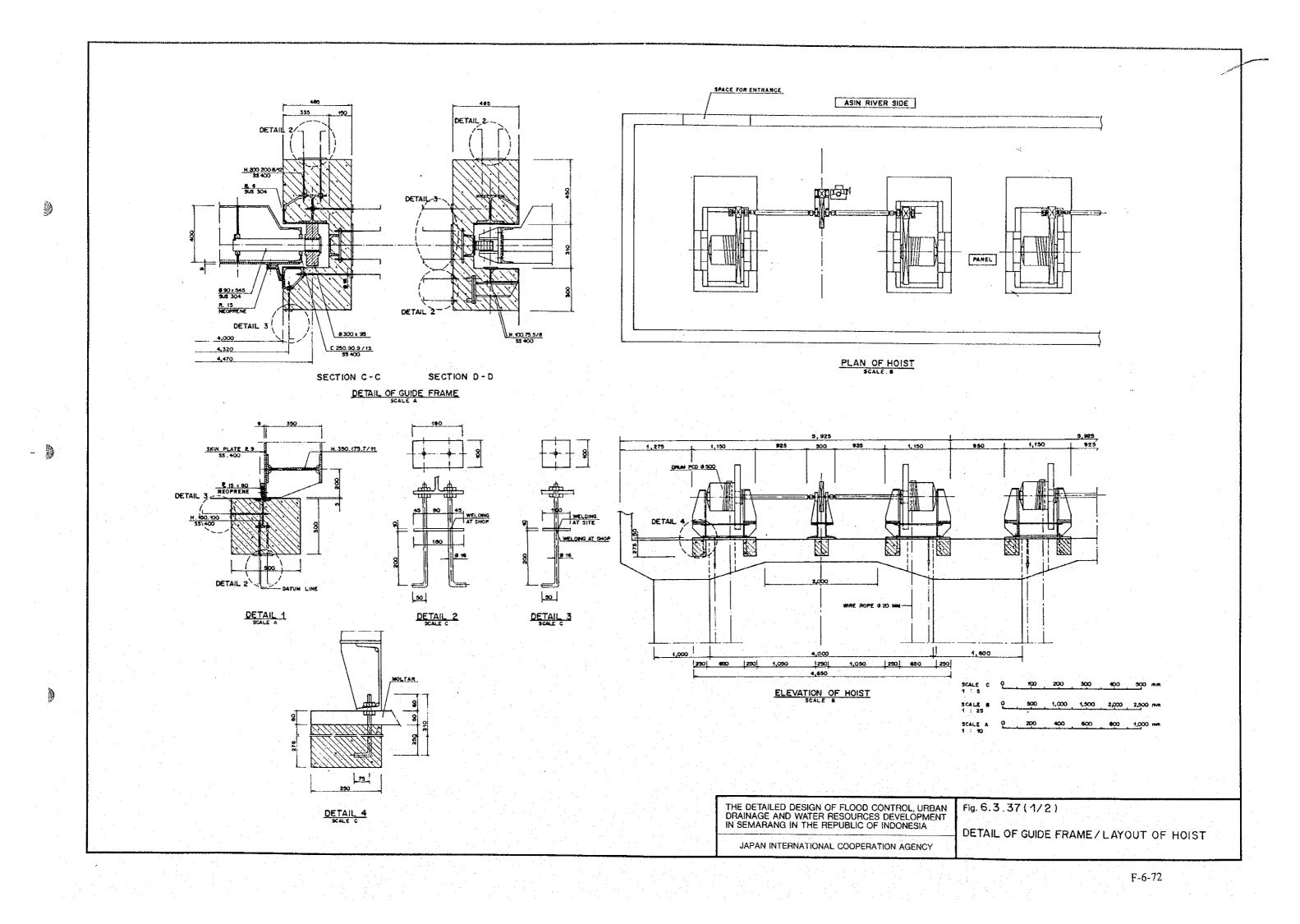


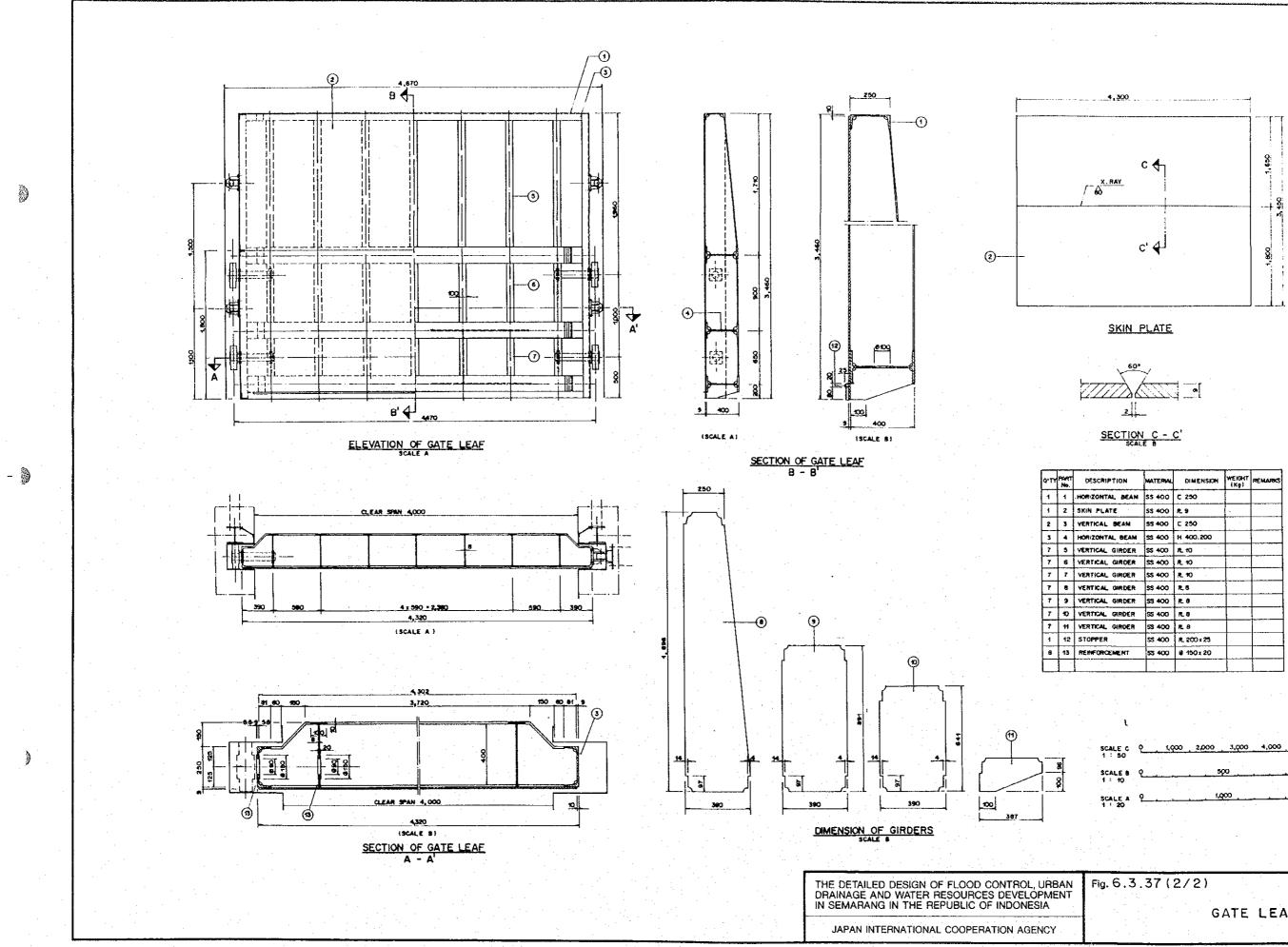
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ASIN PUMPING STATION GATE PILE FOUNDATION



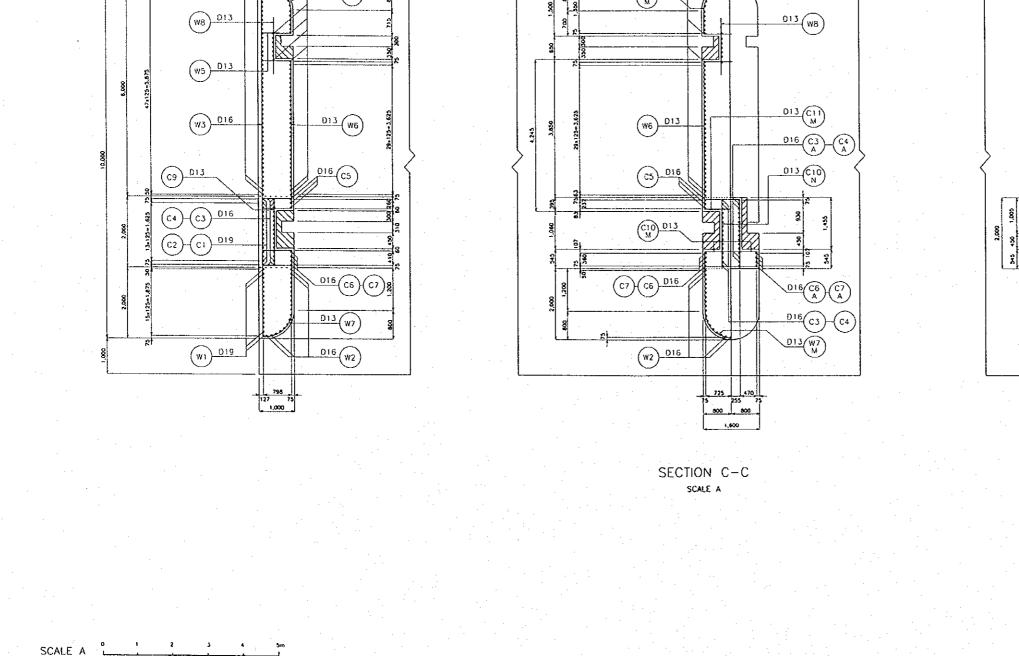




PTION	MATERIAL	DIMENSION	WEIGHT (Kg)	REMARKS
TAL BEAM	SS 400	C 250		
ATE	SS 400	R. 9		
BEAM	SS 400	C 250		
TAL BEAM	ss 400	H 400.200		
GIRDER	SS 400	R. 10		
GIRCER	SS 400	A 10		
GINDER	SS 400	R_10		
GIRDER	SS 400	2,6	i	
GIRDER	55 400	走き		
GIRDER	SS 400	R.8		
GIRDER	53 400	<b>R</b> 8		
2	SS 400	R 200 x 25		
CEMENT	55 400	Ø 150 x 20		
				1

1,000 2,000 3,000 4,000 5,000 mm 1,000 mit 3,000 mm

GATE LEAF



W2 016

(W4 013

016 (W2)

D13 (W4)

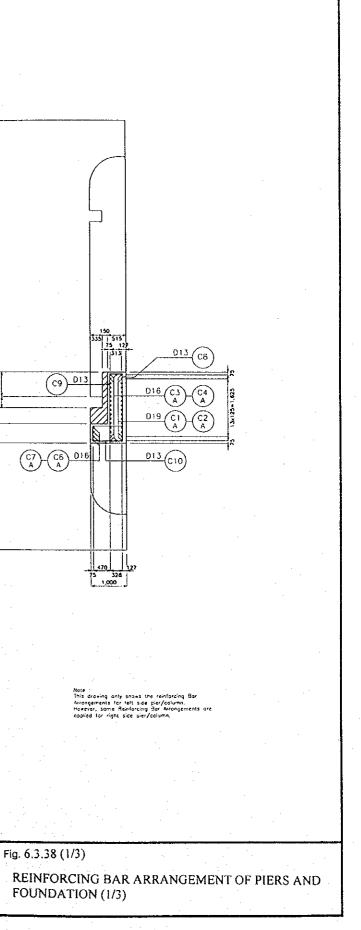
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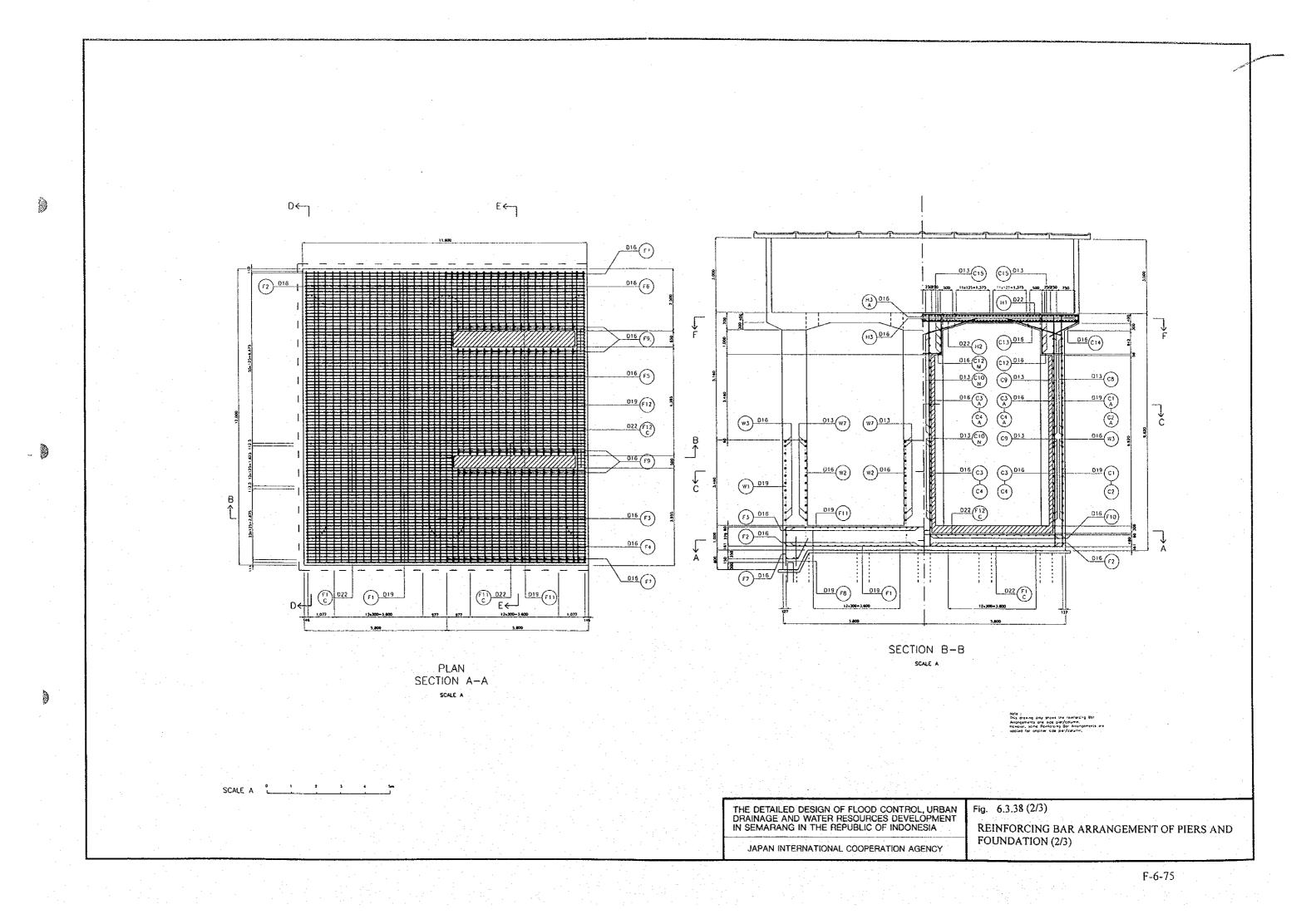
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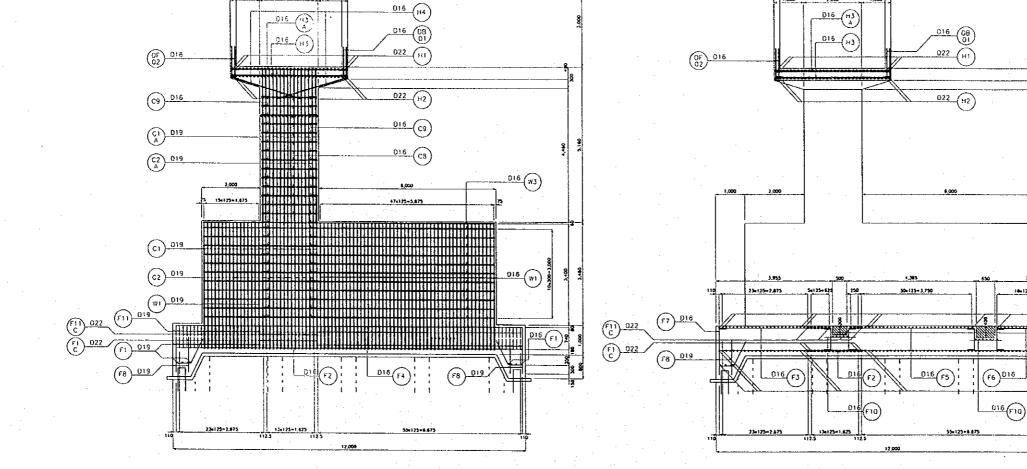
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SCALE A L

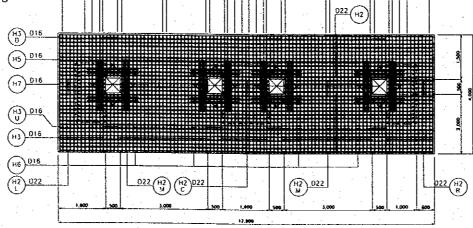
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SECTION D-D

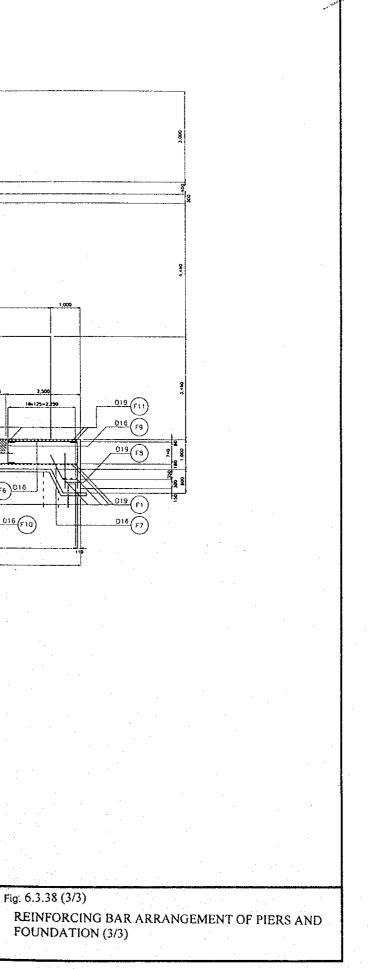


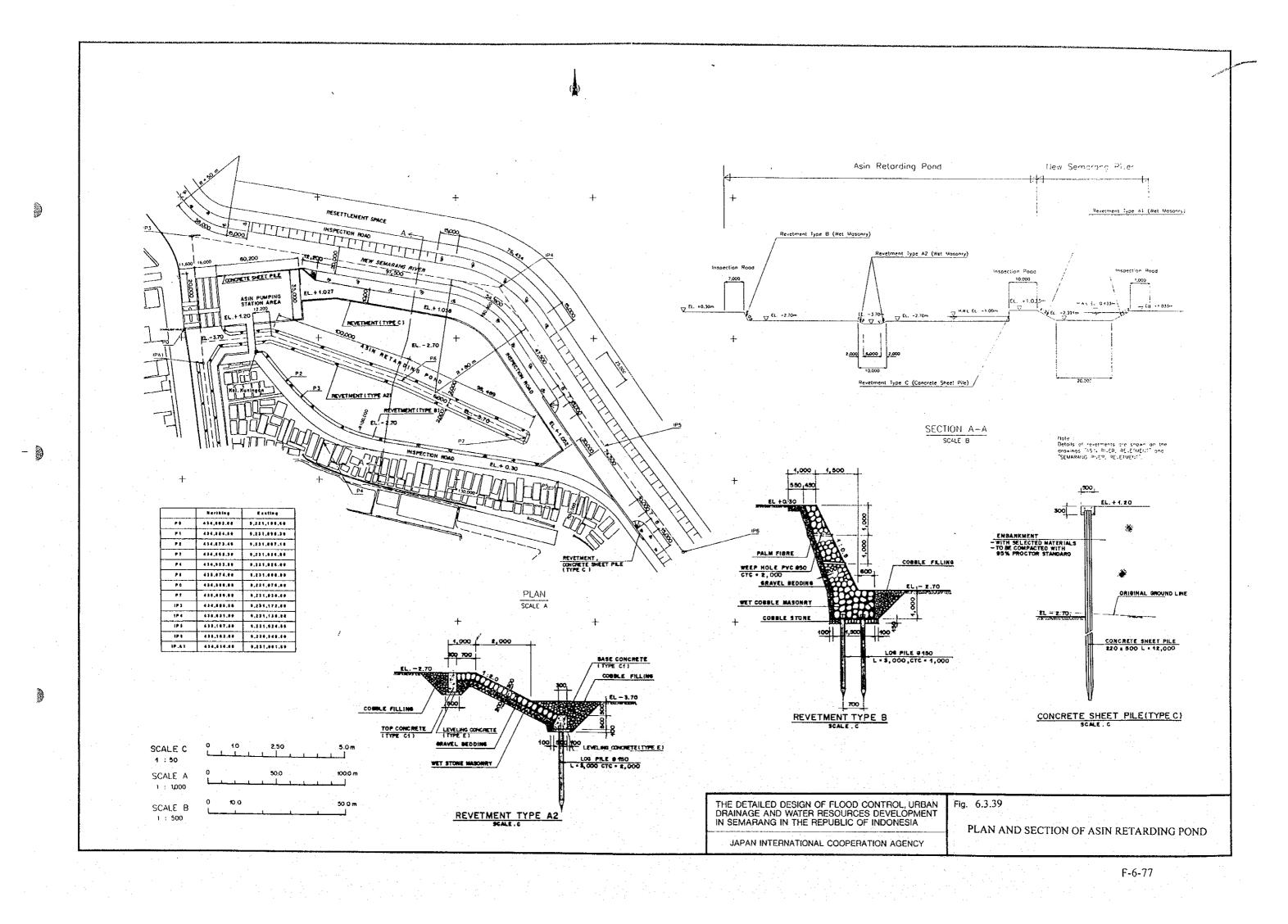
SECTION F-F

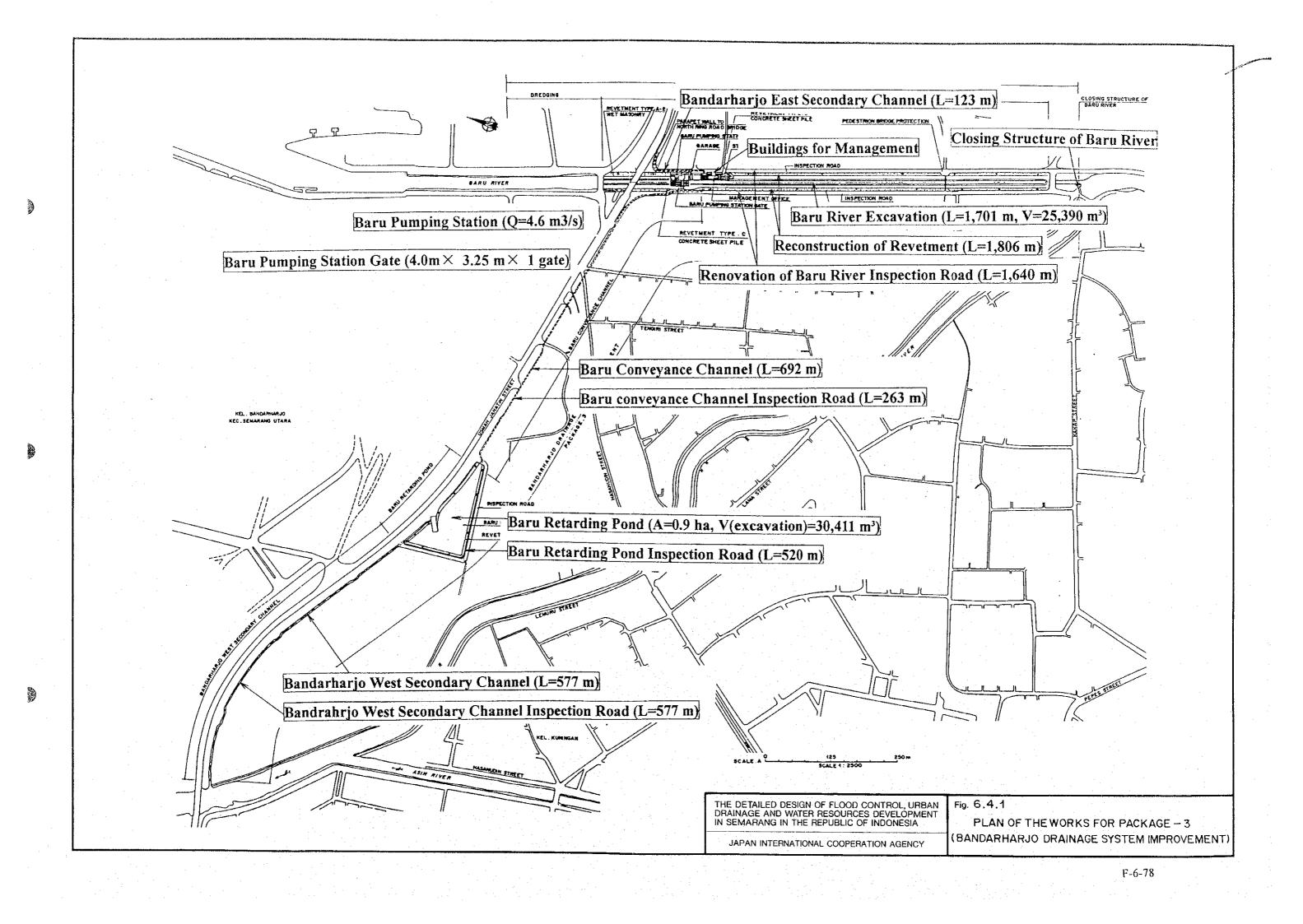
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA JAPAN INTERNATIONAL COOPERATION AGENCY

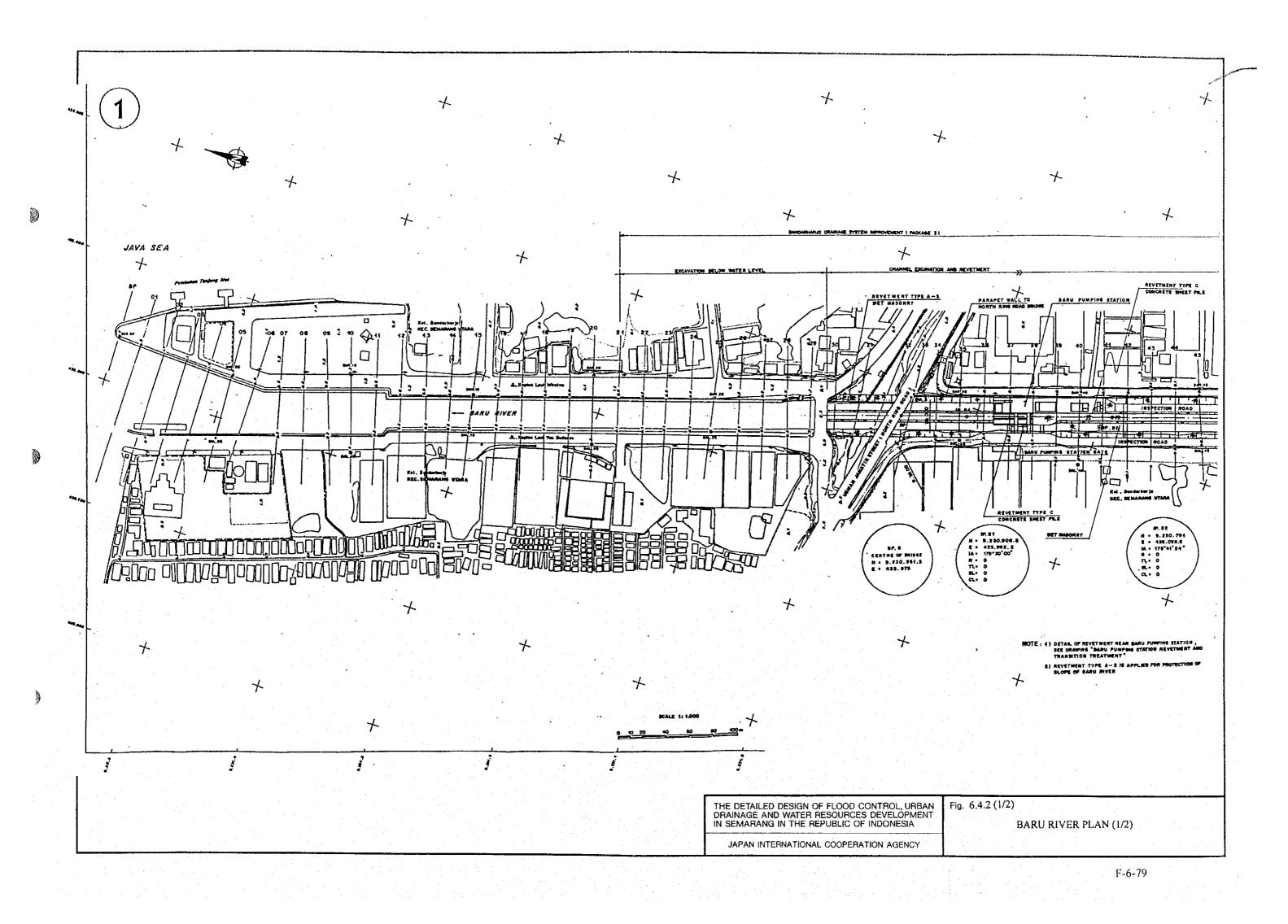
SECTION E-E

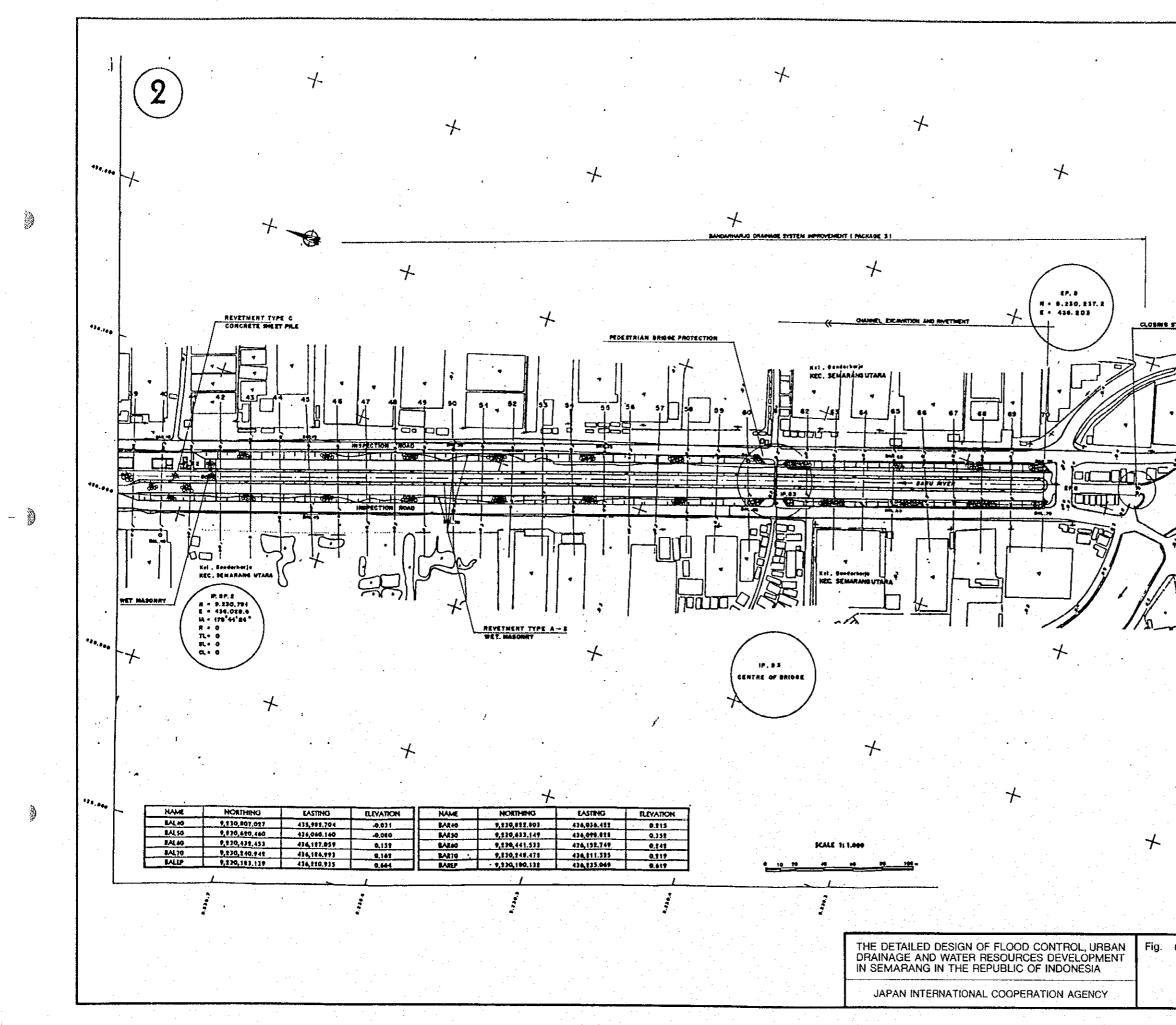
SCALE A











+ ++ + CLOSING STRUCTURE OF SARU RIVER SEMARANE PINTA + 7 NOTE : REVETMENT TYPE A-3 IS APPLIED FOR PROTECTION OF SLOPE OF MANU ANVER Fig. 6.4.2 (2/2) BARU RIVER PLAN (2/2) F-6-80

EXCAVATION BELOW WATER LEVEL COMMON CHANNEL EXCAVATION AND REVENNENT (TYPE A-4) L=160m Baru Pumping Station st, Design Elevation of Inspection Road Right Bank (EE. + 0.30 m) 1 BON COLE Design Elevation of Inspection Road Left Bank (EL. + 0.20 m) 2 --- > . +0 35 m Highest lide tevel EL. +0.45 m "t--Ê o · ..... Ľ -040 ation -1 (Ele -2 -----٠، \_ -4 SCALE > -5 l=1l014.28n morovi nt i Section H : SCALE A -6 -7.00 (m) GRADIENT OF DESIGN RIVER BED DIKE CROWN -0.500 -0.500 -0.500 0.850 0.850 0.850 0.850 0.850 0.500 -0.500 -0.500 -0.500 500 0.500 -0.500 -0.500 -0.500 -0.500 -0.500 -0.500 0.500 500 500 50 0.500 -0.500 0.500 0.500 HIGH WATER LEVEL 0.450 0.450 0.450 006.0 0.900 0,900 0.900 0.900 005'0 0.900 0.900 0.900 0.900 -0.900 -0.900 (H.W.L) DESIGN LOW WATER LEVEL -2.400 -2.400 -2.400 ŝ -2.400 -2.400 2.400 -2.400 8 ş -2.400 2.400 8 Ş ŝ ŝ ŝ ğ ŝ ELEVATION (L.W.L) \_\_\_\_\_ (EL. m) HIGH WATER CHANNEL BED -2,400 -2.400 -2.400 -2.400 -2.400 -2.400 -2.400 -2.400 -2.400 -2.400 -2.400 -2.400 -2.400 -2,400 ş 8 5 ŝ ş ş -2.400 -2.400 ŝ -2.400 8 -2.400 Ŷ 5 ñ ÷٩ ġ ġ -3.400 -3.400 -3.400 -3.400 -3.400 -3.400 -3.400 -3.400 -3.400 RIVER BED 3.400 -3.400 3,400 -3.400 8 RIGHT BANK 072.0 060 0.020 550 550 810 .220 350 370 800 660 630 5 590 550 590 600 609 180 0**7**Ľ. 120 660 630 2 620 350 360 .... EXISTING LEFT BANK ELEVATION 1,260 2.630 040 680 1220 330 2 ñ 5 3 200 20 3 ş 80 ----(EL. m) RIVER BED -3.210 02C.C 490 1,750 064.1 3 540 060°C ୁକ୍ଷ 22 840 870 ŝ 159.99 168.38 180.60 198.05 198.05 215.91 215.91 ACCUMULATED 00.44 76.02 40.66 241.53 67.13 28.05 2 512.43 534.00 0.00 9.10 65.13 5.36 45,63 86.82 06.74 49.08 69.94 10.57 70.51 10.193 554, B I 10,78 17.07 35.94 77.58 99,69 39.35 ő 90.94 56.71 78.67 DISTANCE (m) PARTIAL 20.790 19.205 20.329 18.778 21.341 19.926 20.997 19.628 20.565 20.534 19.716 20.305 19.968 19.278 20.103 21.457 20.464 20.636 20.29 222.91 80**2.**8 698.71 7.793 16.8.71 272.65 21.501 8.6.6 110.15 000.0 20.862 568 20.807 21.631 966.6 20.335 9,870 0.770 20.870 22,108 9.324 9.690 9.635 9.916 STATION NO. (BA-) SCALE A میں بیان کے بی

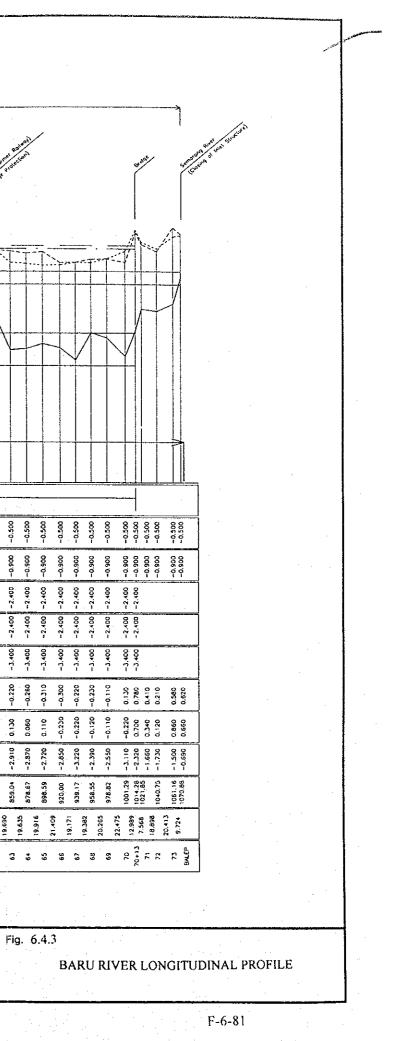
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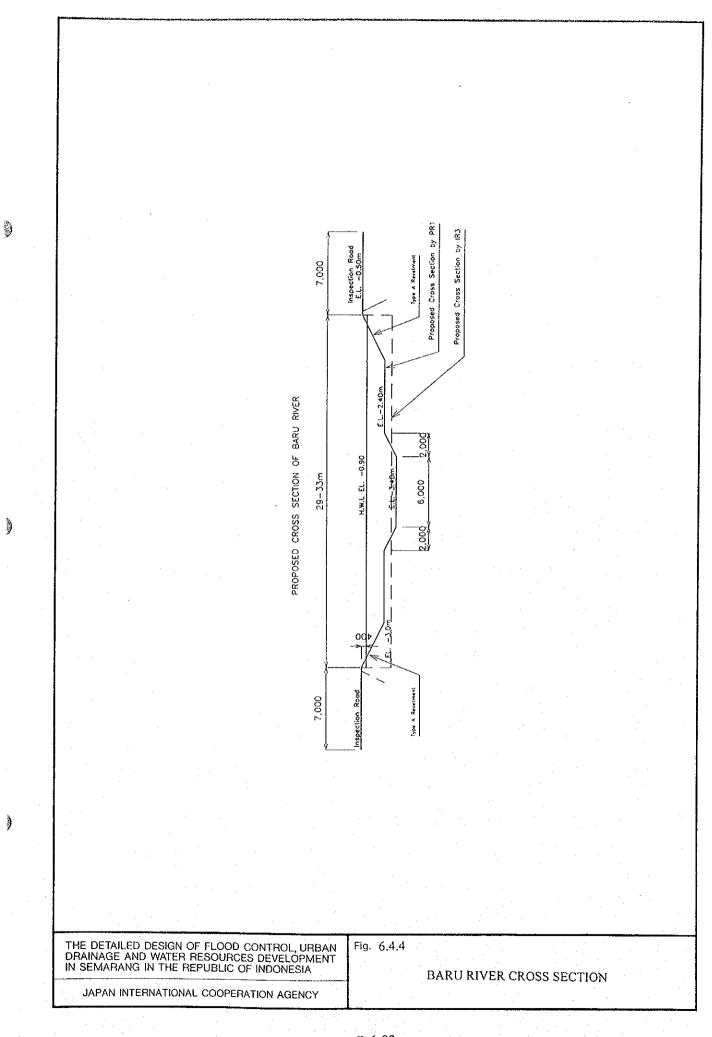
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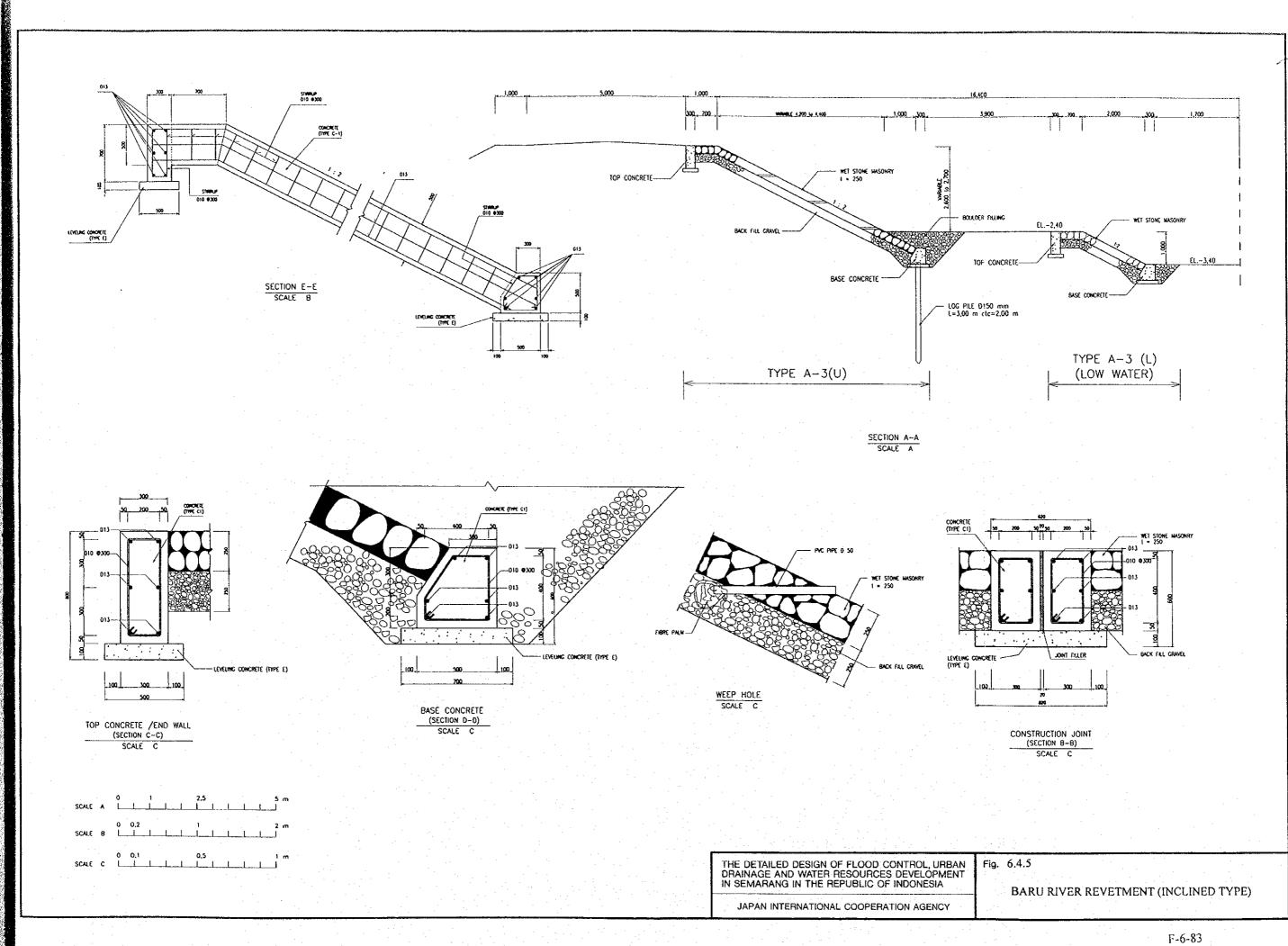
SCALE B

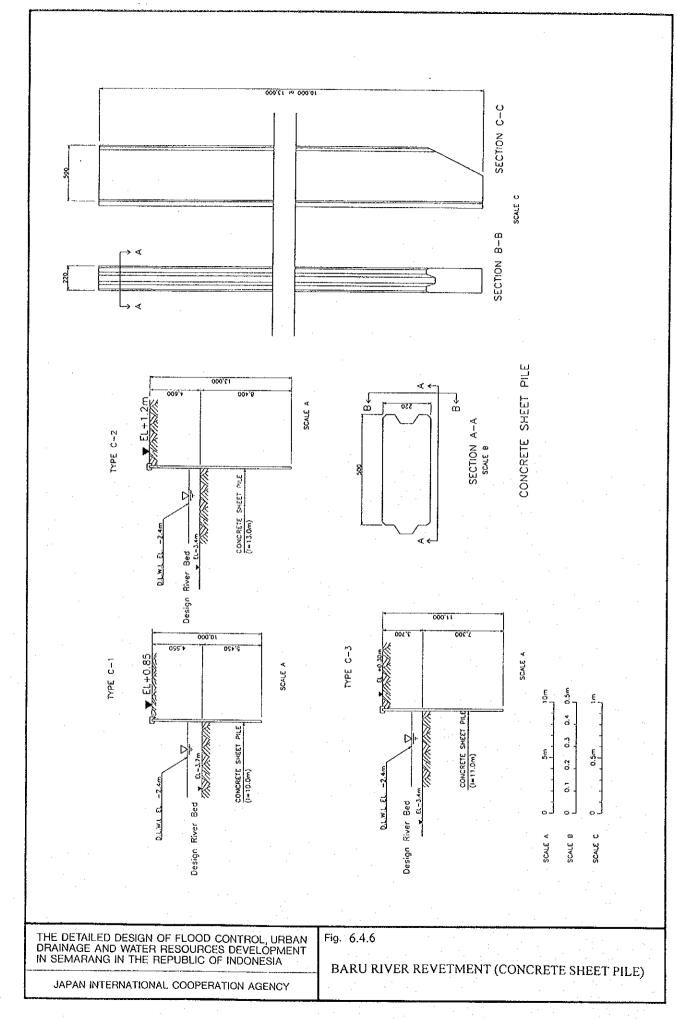
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JAPAN INTERNATIONAL COOPERATION AGENCY



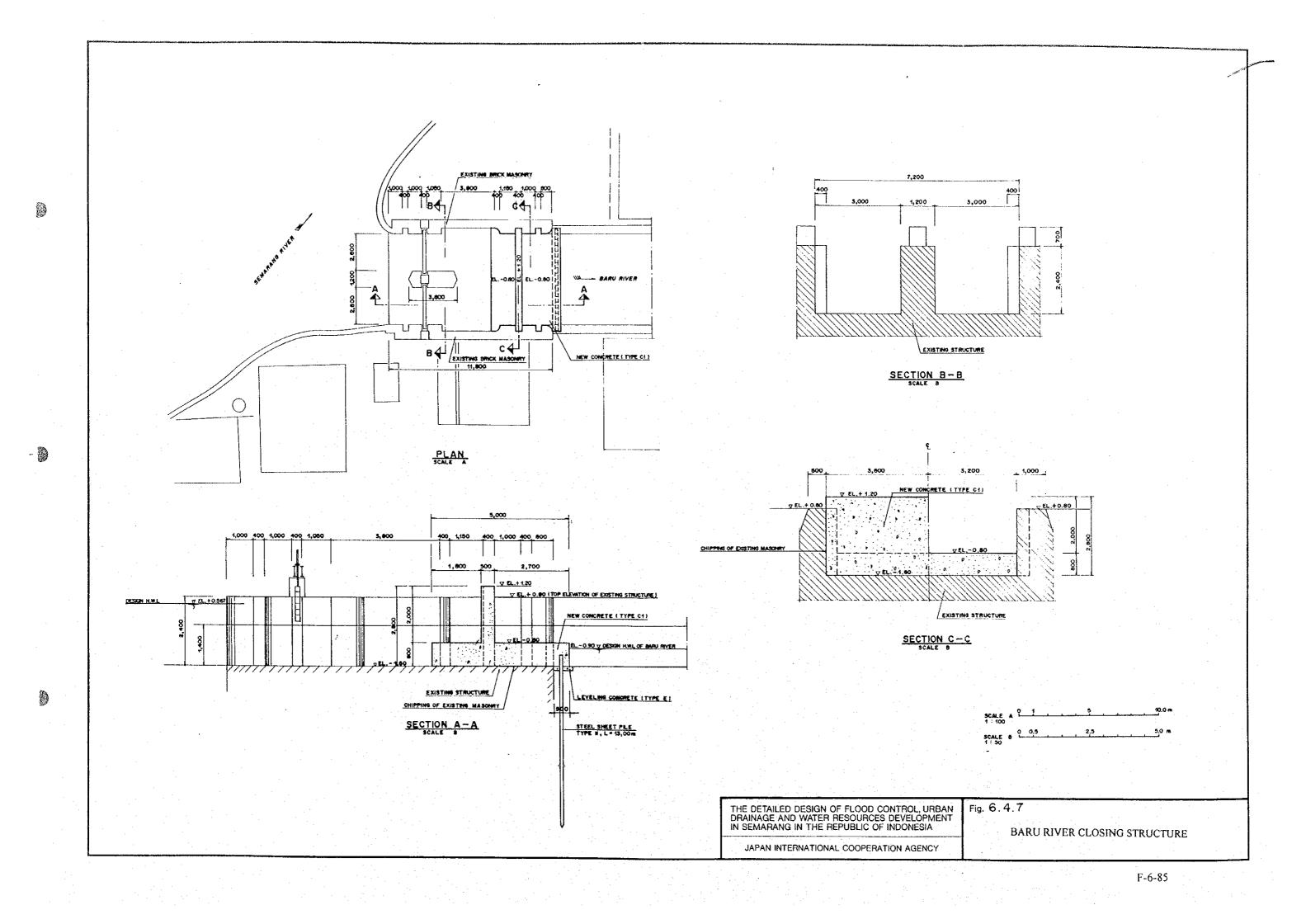


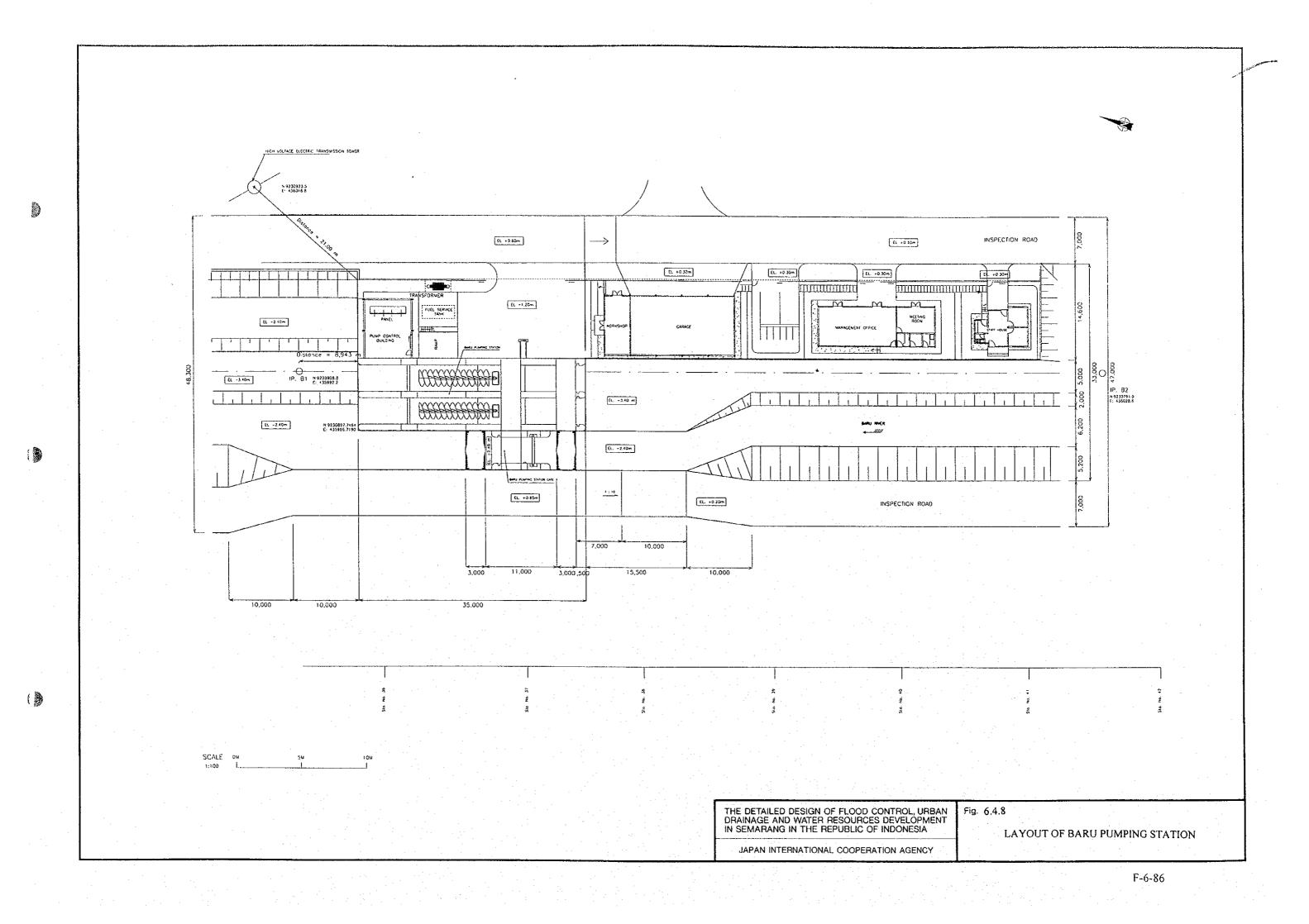


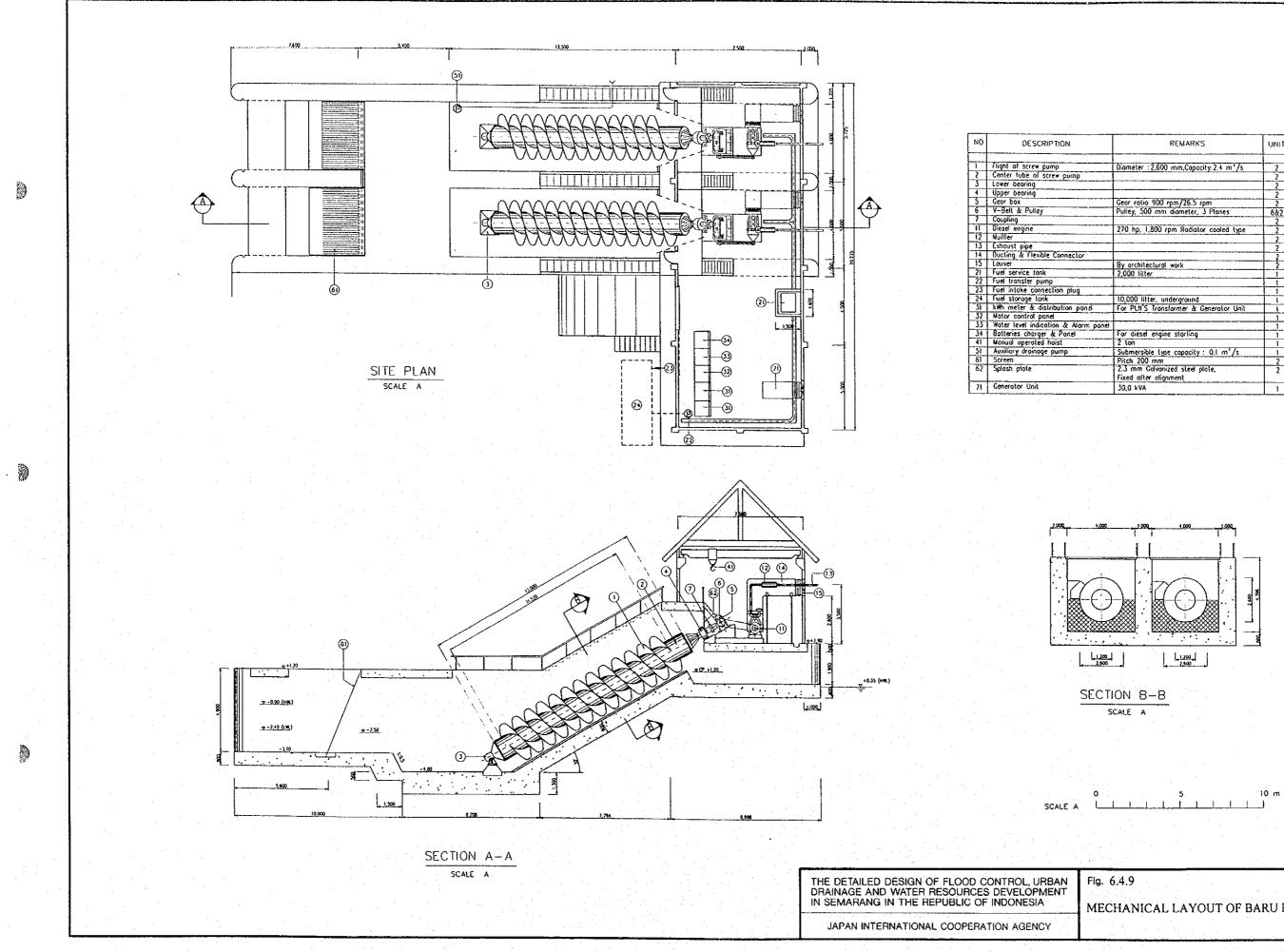


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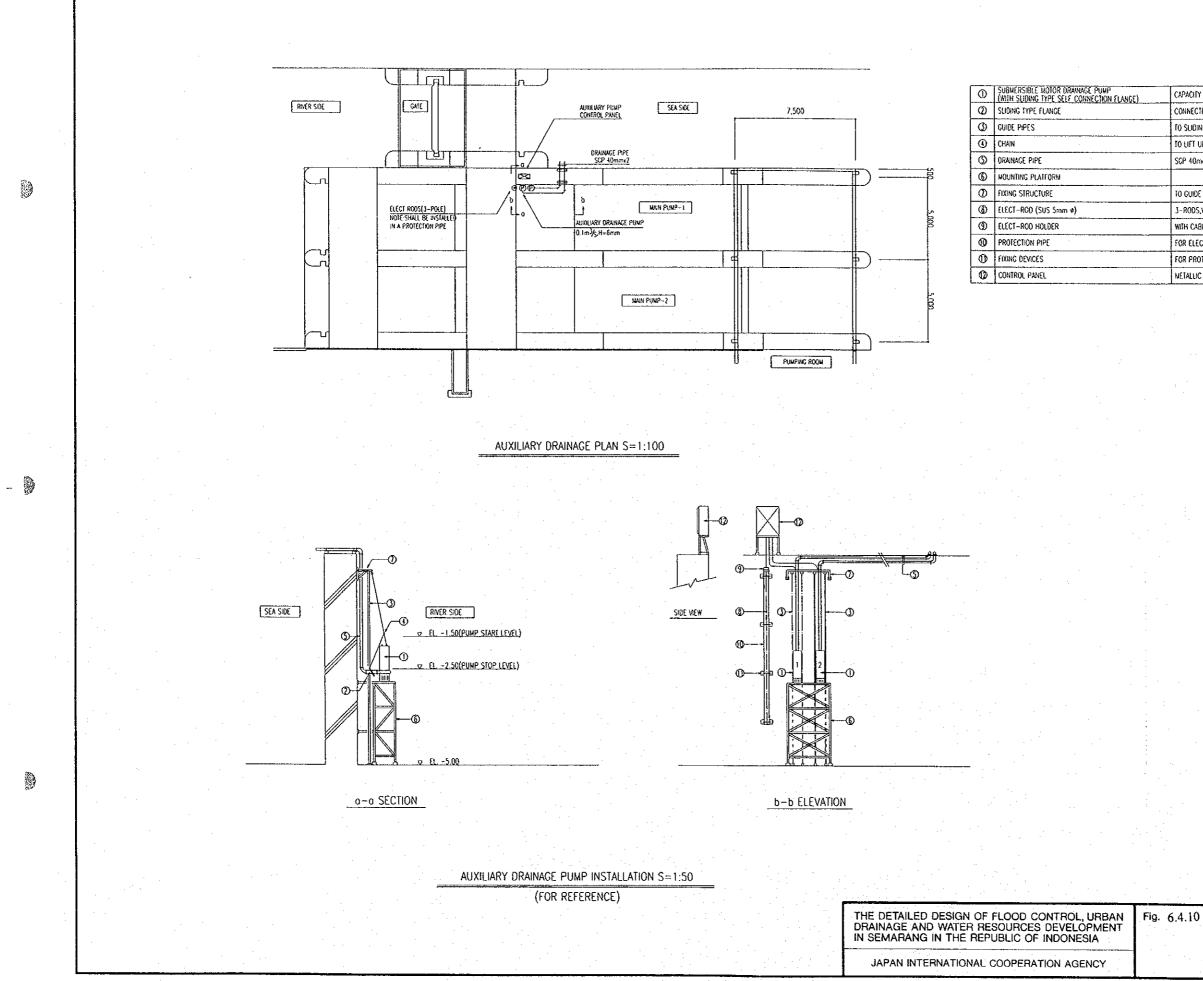






REMARKS	UNIT
Diameter : 2.600 mm,Capacity: 2.4 m³/s	2
· · · · · · · · · · · · · · · · · · ·	2
Geor ratio 900 rpm/26.5 rpm	2
Pulley, 500 mm diameter, 3 Planes	5&2
270 hp. 1,800 rpm Radiator cooled type	2
	2
	2
By architectural work 2,000 litter	2
10,000 litter, underground	i
For PLN'S Transformer & Generator Unit	
For diesel engine starling	
2 ton	1
Submersible type capacity : 0.1 m³/s Pitch 200 mm	1
2.3 mm Galvanized steel plate, Fixed after alignment	2
30,0 kVA	1

MECHANICAL LAYOUT OF BARU PUMPING STATION



CAPACITY : 0.1m / .HEAD: 6m,MOTOR 1.3kW
CONNECTED AND SEALED BY WEIGHT OF THE PUMP
TO SLIDING THE PUMP
 TO LIFT UP AND DOWN THE PUMP
SCP 40mm
TO GUIDE PIPES
J-RODS, WITH SEPALTING DEVICES
 WITH CABLE CONNECTION TERMINALS
FOR ELECT-RODS,PVC 250mm
FOR PROTECTION PIPE
METALLIC CABINET IP 65

## AUXILIARY PUMP

 KWh M
MOTOR
WATER
BATTER
GENERA
GENERA
JA380V
PB PULL 8
WP WATER GATE CONTROL HOUSE 2 X 40H GATE CONTROL HOUSE LIGHTING 0.25 kW (SUPPLIED BY THE PUMP SUPPLYER) AUXILIARY PUMP CONTROL PANEL 7,500 GATE LIFT CONTROL PANEL (BY GATE WORKS) ¤Ø 8' CW10C-2.5mm<sup>2</sup> (40) WAIER LEVEL DETECIOR XLPE3C-6mm<sup>2</sup> PVC6mm<sup>2</sup> (40) CAIE LIFT XLPE3C-6mm<sup>2</sup> PVC5mm<sup>2</sup> (40) AUXILIARY PUMP Ø, PB 300x300x200 DOWN WP II [ CW3C-2.5mm\*(20) GREASE PUMP-1 14220V 0.5kW ELECT RODS(3-POLE) NOTE:SHALL BE INSTALLED / IN A PROTECTION PIPE PROTECTOR ATER LEVEL DETECTORS ۲Ôυ) GEAR BOX-I AUXILIARY PUMP 3#380V 2.2kW + GREASE PUMP-2 14220V 0.5kW ſ€¶! CEAR BOX-2 - 🏠 PUMP CONTROL BUILDING Ь XLPE2C-4mm<sup>4</sup>P C4mm<sup>4</sup>(40)×2

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ELECTRICAL WIRING PLAN S=1:100

P8 500×500×300

THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA Fig. 6.4.11

JAPAN INTERNATIONAL COOPERATION AGENCY

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XLPE2C-4mm<sup>2</sup>PVC4mm<sup>2</sup>(30) LOCAL SWITCH FOR FUEL TRANSFER PUMP

FUEL TRANSFER PUMP

O

SPACE FOR TRANSFORMER

(BY THE PLN)

0

60

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XLPE3C-25mm<sup>2</sup> PVC25mm<sup>2</sup>(40)

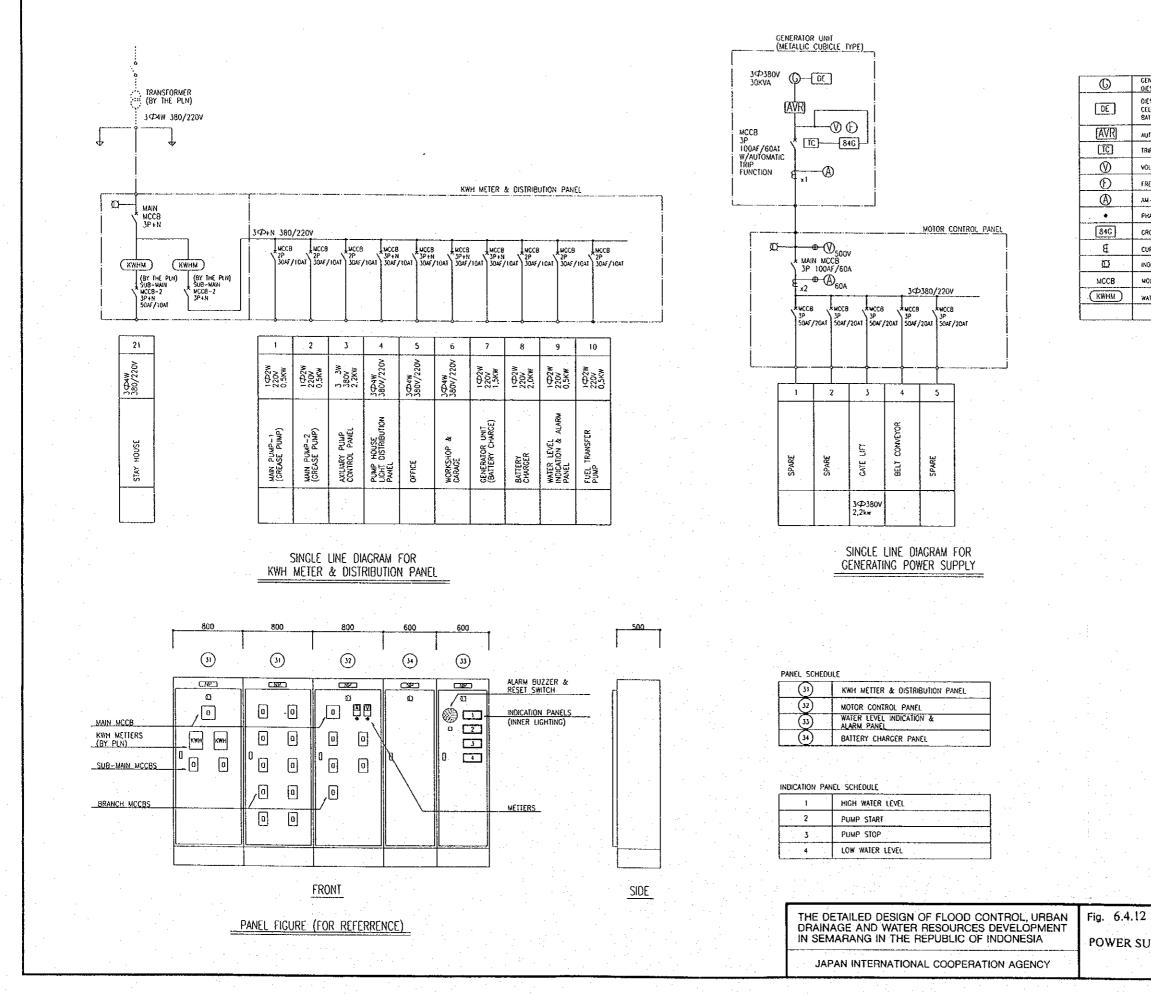
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XLP4C-50mm<sup>2</sup>(50)

METER & DISTRIBUTION PANEL
R CONTROL PANEL
LEVEL INDICATION &
RY CHARGER PANEL
ATOR UNIT IV 25kW
80X
PROOFING TYPE

ELECTRICAL WIRING PLAN



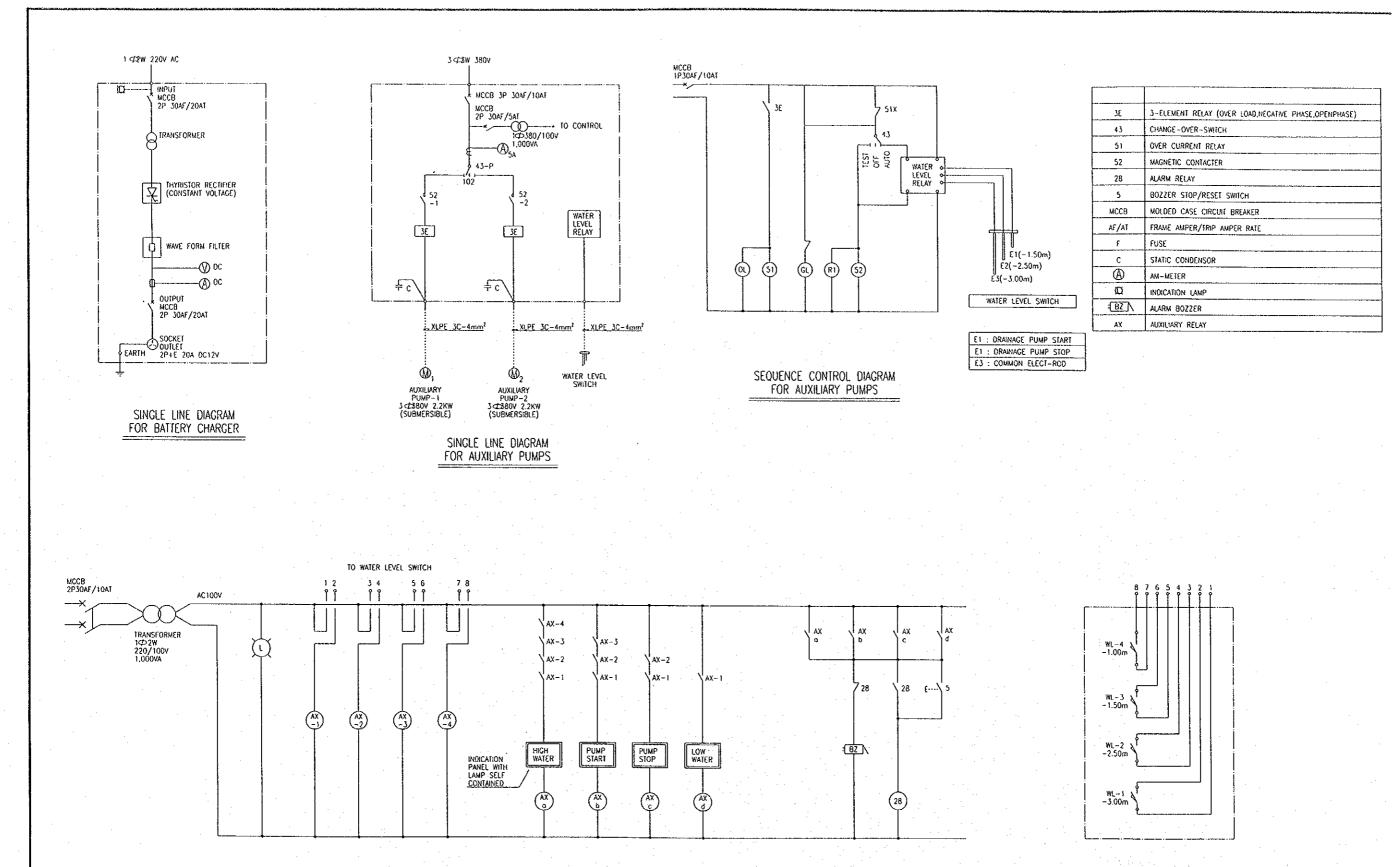
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	GENERATOR 3-PHASE 380N AC. 4-POLE 1500 rpm DIESEL ENGINE DRIVEN TYPE 25KVA, POWER FACTOR 60%
	DESEL ENGINE PADIATOR COQUING 17PE. ISOO1540 CELL WOTOR STARTING (DC12V) BATTERY SELF CONTAINED
	AUTOMATIC VOLTAGE REGULATOR.
	TRIP COL
	VOLT METER.
	FREQUENCY NETER
	AM-METER.
	PHASE CHANGE OVER SWITCH
	CROUNDING VOLTAGE RELAY.
	CURRENT TRANSFORMER.
	INDICATION LAMP.
_	NOLDED CASE CIRCUIT BREAKER 600V CLASS.
_	WATT HOUR METER (SUPPLIED BY THE PLN)

POWER SUPPLY AND CONTROL SYSTEM DIAGRAM (1/2)

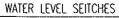




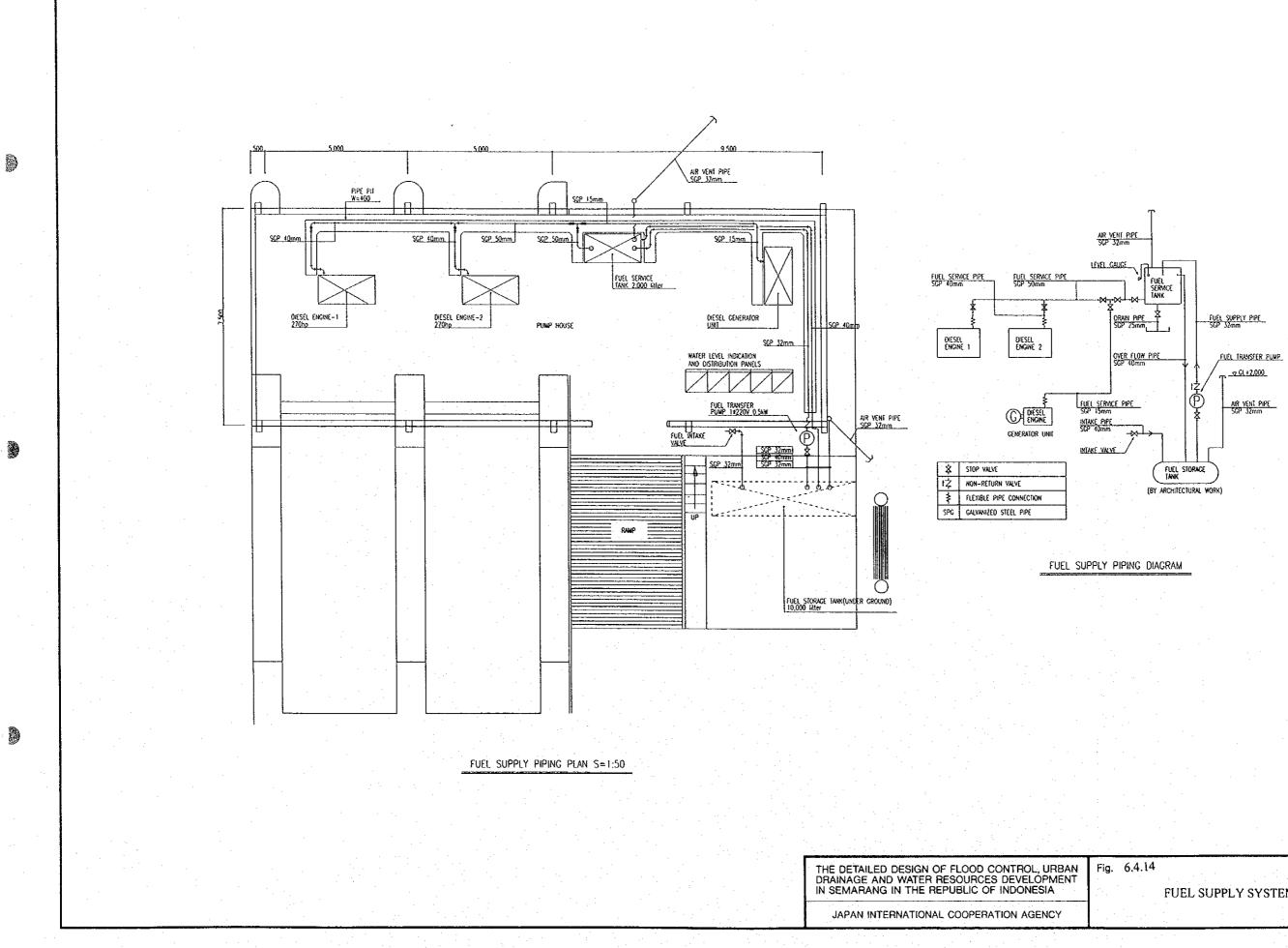
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THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

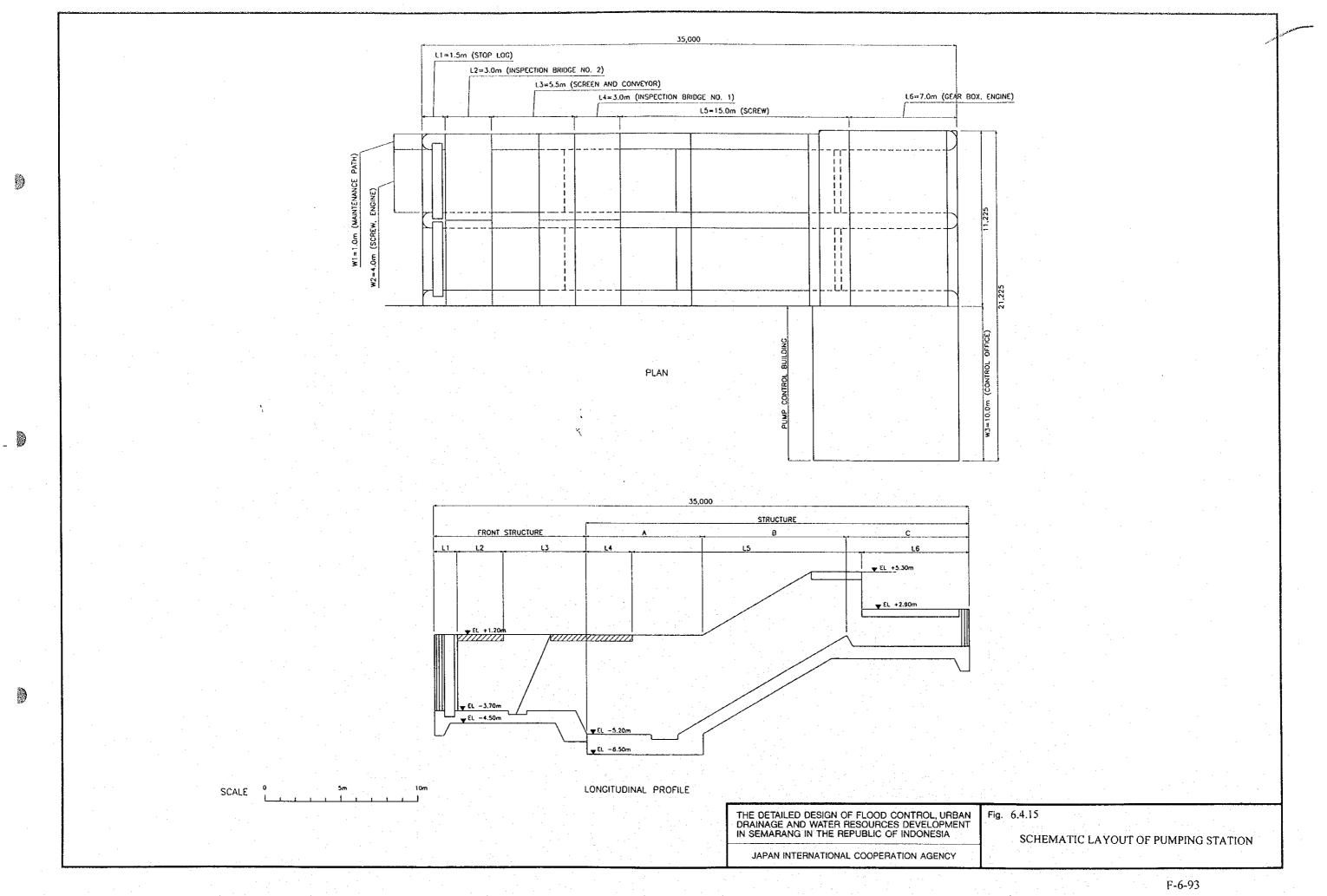
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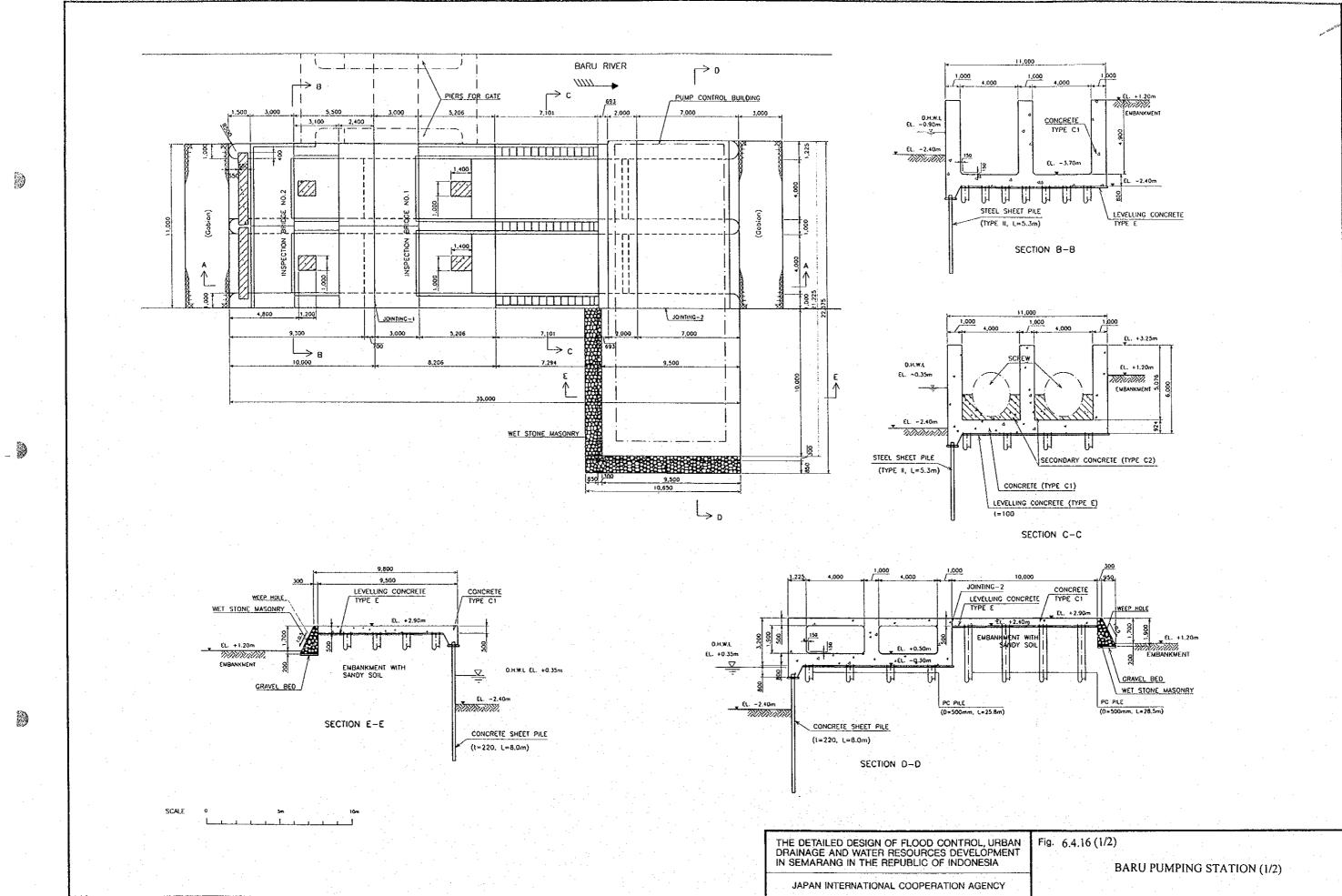


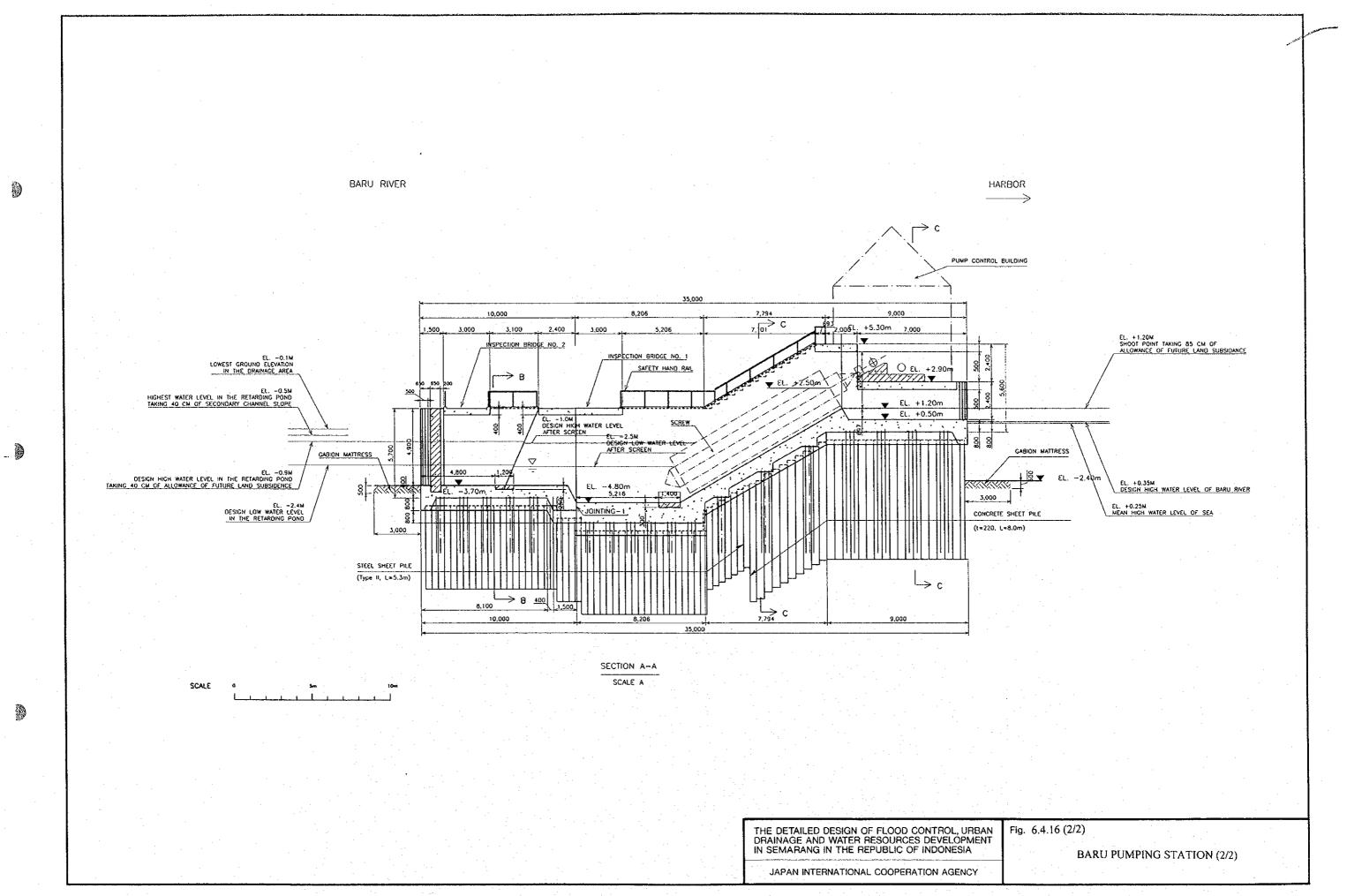
4.13 POWER SUPPLY AND CONTROL SYSTEM DIAGRAM (2/2)

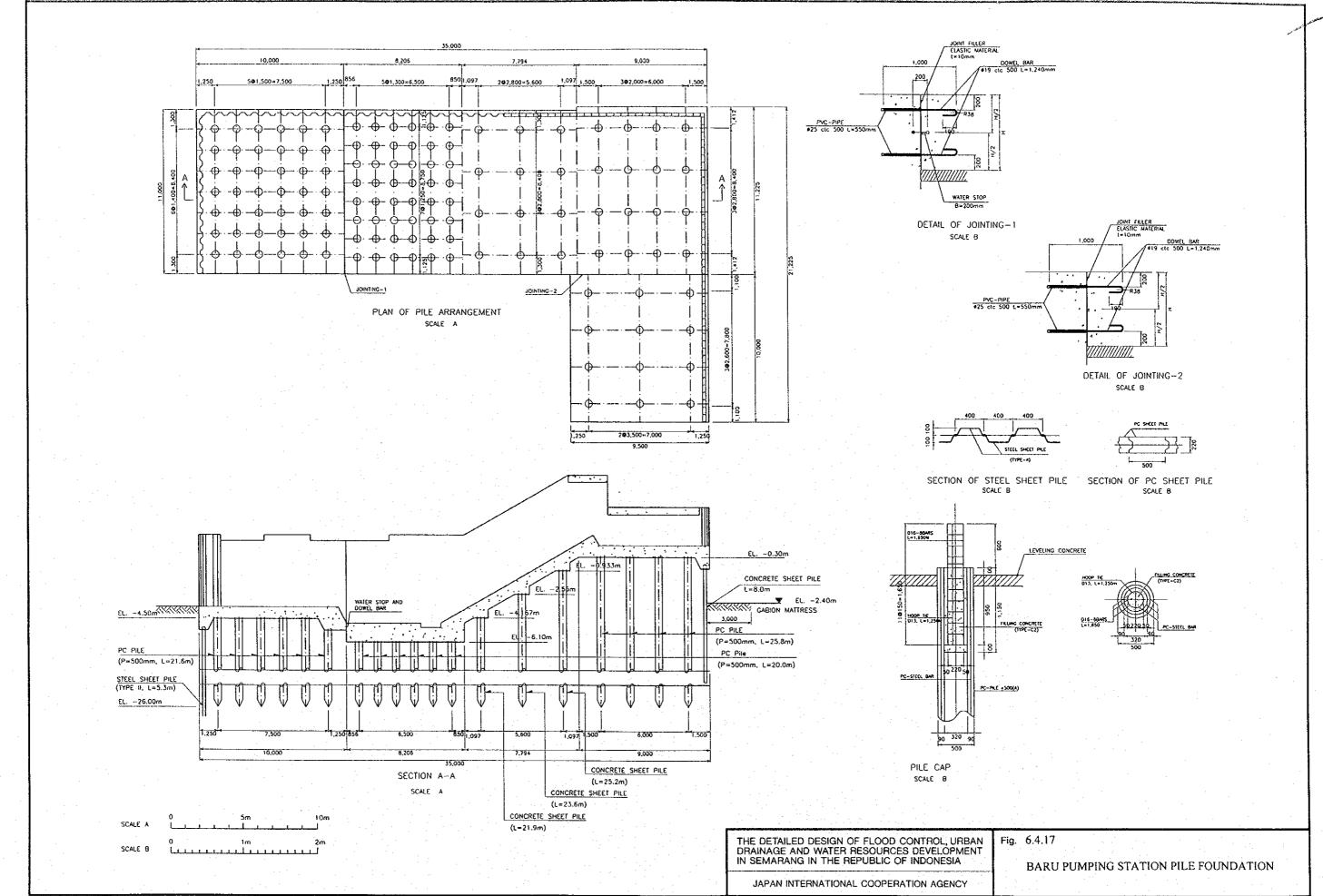


## FUEL SUPPLY SYSTEM PLAN

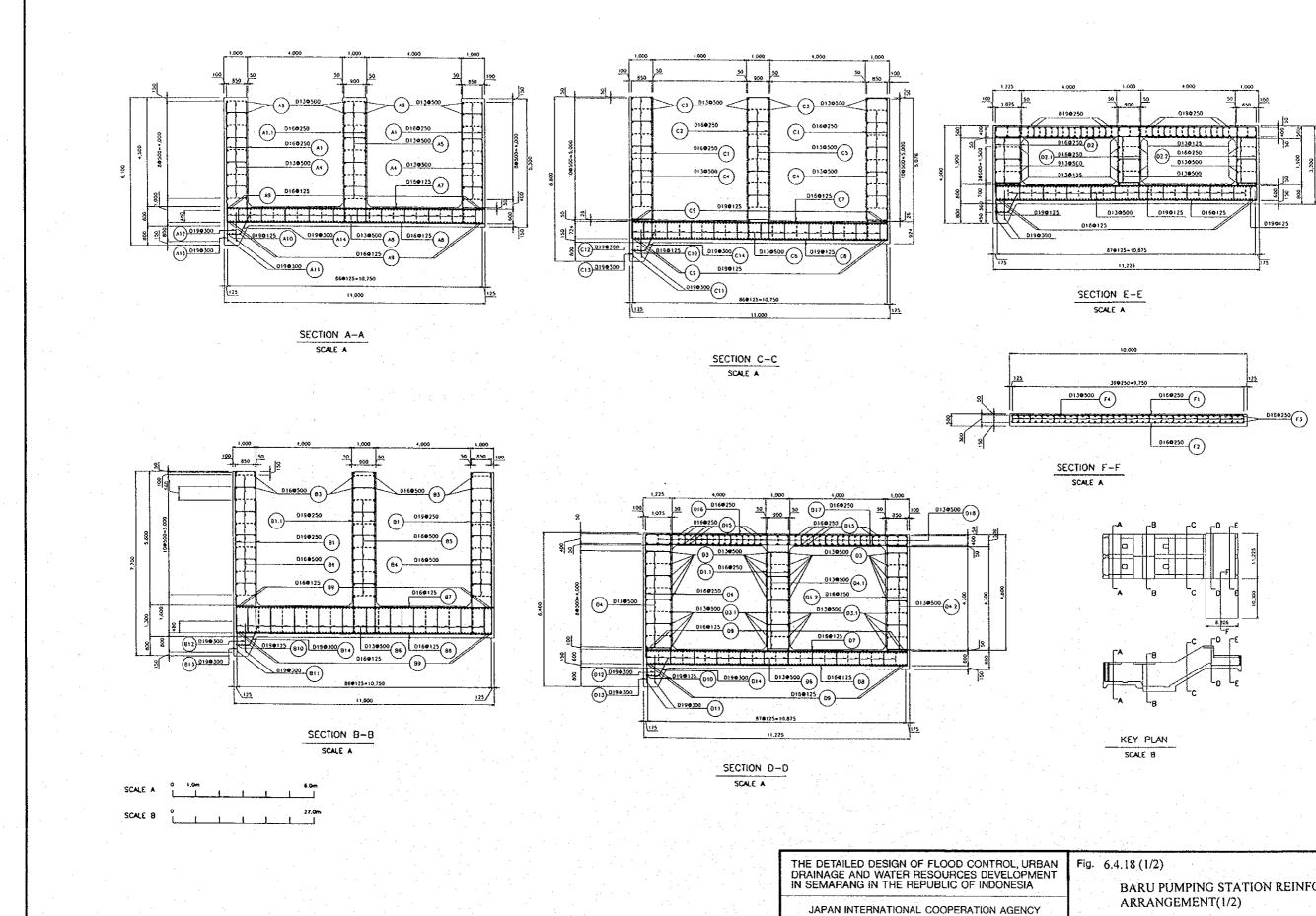








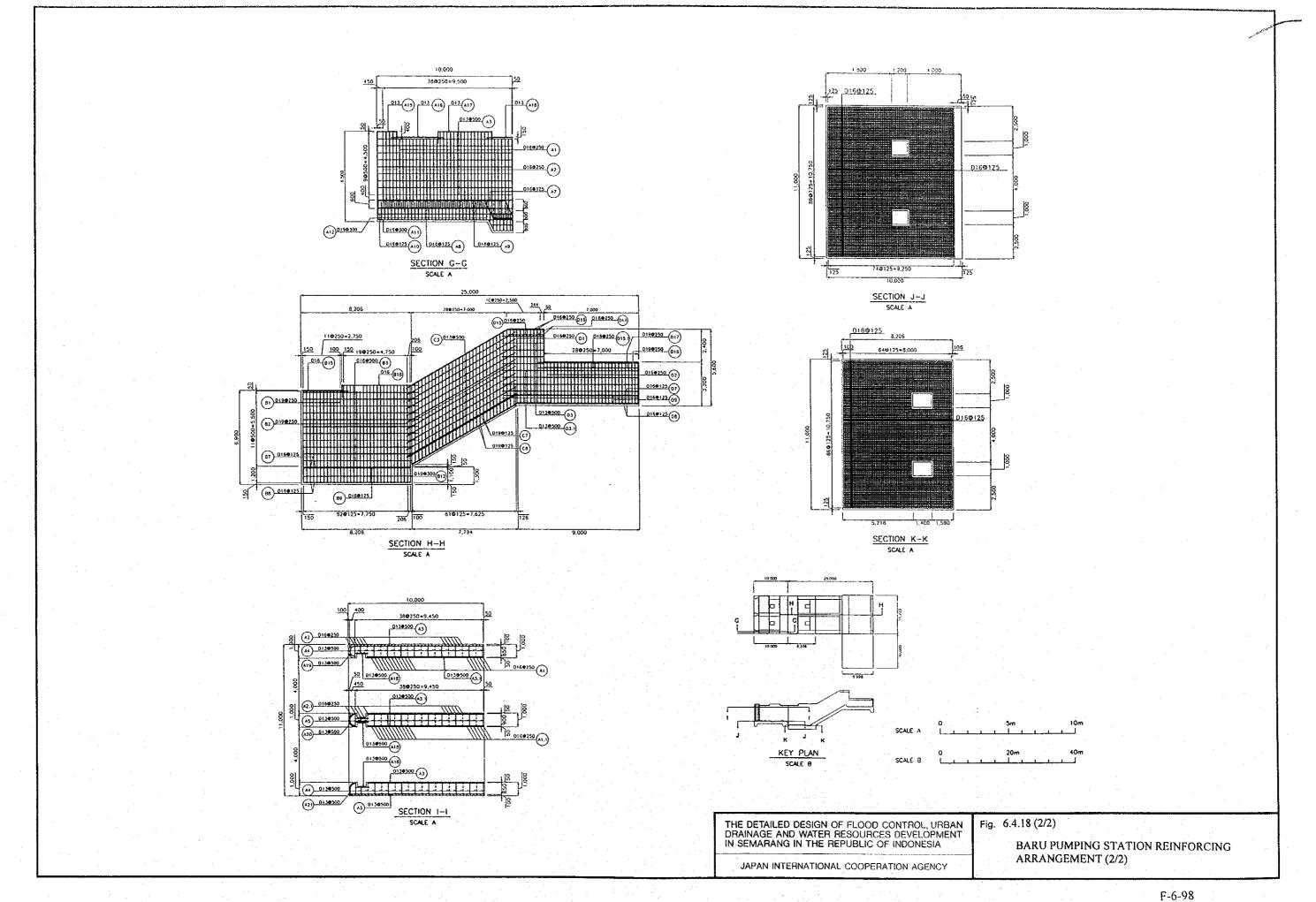
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BARU PUMPING STATION REINFORCING ARRANGEMENT(1/2)



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