社会開発調查部報告書 C.14

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

MINISTRY OF SETTLEMENT AND REGIONAL DEVELOPMENT THE REPUBLIC OF INDONESIA

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

FINAL REPORT

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AUGUST 2000

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MINISTRY OF SETTLEMENT AND REGIONAL DEVELOPMENT THE REPUBLIC OF INDONESIA

FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG

COMPONENT C: URBAN DRAINAGE SYSTEM IMPROVEMENT

BIDDING DOCUMENTS

PACKAGE 2:

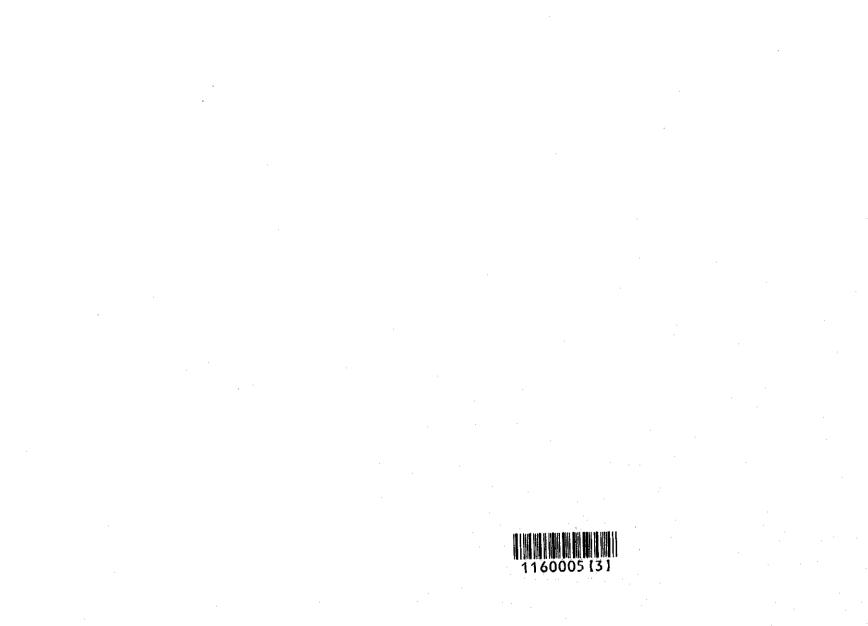
ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT

VOLUME 3

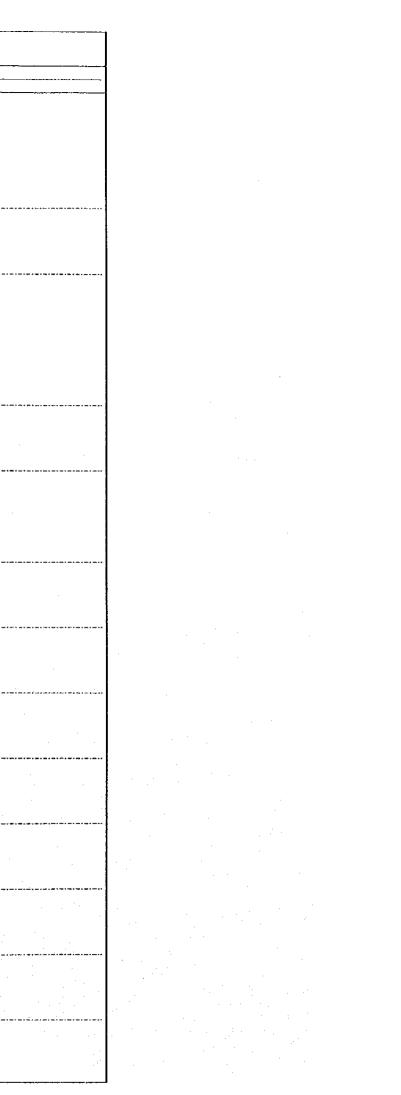
DRAWINGS

AUGUST 2000





		PACKAGE - 2: A	ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT	LIST OF DRAWINGS (1/3)
	SHEET DRAWING		TITLE OF DRAWING	
	No No	1 [*] 104	2 ⁴⁰ LNE	3 ¹⁰ LME
	GENERAL (G	1		
	1 40261	PLAN OF THE WORKS		
	SEMARANG R	IVER IMPROVEMENT (S)		
	2 UP2-574-1	SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT)	KEY PLAN	
	3 UP2-5-FF-2	SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT)	PLAN (1/2)	
	4 UP2-5-PF-3	SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT)	9LAN (2/2)	
	5 UP2-5-Co-1	SEMARANS RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT) SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT)		
	7 64250-2	SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM INPROVEMENT)	CROSS SECTION (1/15) CROSS SECTION (2/15)	
	8 0.025-013	SEMARANG RIVER (ASIN RIVER ORAINAGE SYSTEM IMPROVEMENT)	CROSS SECTION (3/15)	
	9 UP25-0-4	SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT)	CROSS SECTION (4/15)	
	10 4925-0-5	SEMARANG RIVER (ASIN RIVER DRAINAGE SYSIEM IMPROVEMEND	CROSS SECTION (\$/15)	
	11 UP25-G-5	SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT)	CROSS SECTION (6/15)	
	12 U-P2-S-CI-7	SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT)	CROSS SECTION (7/15)	
	13 UP2-5-Cr-8 14 UP2-5-Cr-9	SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT) SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT)	CROSS SECTION (8/15)	
	15 U-P2-S-Cr-10	SEMARANTS XIVER (ASIN RIVER DRANAGE SISTEM MARCHENT) SEMARANG RIVER (ASIN RIVER DRANAGE SISTEM MARCHENT)	CROSS SECTION (19/15) CROSS SECTION (10/15)	
	16 UP25-CI-11	SEMÁRÁNG RIVER (ÁSIN RIVER DRANAGE SISTÉM MPROVEMENT)	CROSS SECTION (11/15)	
	17 UP25-Ci-12	SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT)	CROSS SECTION (12/15)	
	18 U-P2-S-CI-13	SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT)	CROSS SECTION (13/15)	
	19 U-P2-S-CR-14	SÉMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT)	CROSS SECTION (14/15)	
	20 UP2-5-Cr-15	SEMÁRÁNG RIVER (ASIN RIVER DRANAGE SYSTEM IMPROVEMENT)	CROSS SECTION (15/15)	
	21 U-P2-S-RV-1	SEMARANG RIVER (ASIN RIVER DRAMAGE SYSTEM IMPROVEMENT)	REVEIMENT (1/6) LOCATION OF REVEIMENT	
	22 U-P2-S Rv-2	SEMARANG RIVER (ASIN RIVER DRAMAGE SYSTEM IMPROVEMENT)	REVENMENT (2/6) SECTION A. B AND C	
	23 UP2-S.RV-3 24 UP2-S.RV-4	SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT) SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT)	PEVERMENT (3/6) SECTION D, E AND F REVETMENT (4/6) SECTION G, H AND I	
	25 U-P2-S-Ry-S	SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT)	REVENMENT (S/6) SECTION J AND K	-
	26 U-P2-S-RV-6	SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT)	REVENMENT (5/5) DETAIL OF TRANSITION	
	27 UP2-5-R0-1	SEMARANG RIVER (ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT)	INSPECTION ROAD	
	ASIN RIVER IN	PROVEMENT (A)		
	26 U-P2-A-FI-1	ASIN RIVER	PLAN (1/2)	
	29 U-P2-A-PI-1	ASIN RIVER	PLAN (2/2)	
	30 UP2A46-1 31 UP2A-0-1			
	32 UP2A-CF2	ASIN RVER ASIN RVER	CROSS SECTION (1/10) CROSS SECTION (2/10)	
	33 UP2AO-3	ASIN RIVER	CROSS SECTION (3/10)	
	34 UP2ACI4	ASIN RIVER	CROSS SECTION (4/10)	
	35 UF2AO-5	ASIN RIVER	CROSS SECTION (5/10)	
	36 UP2ÁČI-S	ASIN RIVÉR	CROSS SECTION (6/10)	
	37 UP2A-C-7	ÁSIN RIVER	CROSS SECTION (7/10)	
	38 UP2AČI-8	ASIN RIVER	CROSS SECTION (8/10)	
	39 UP2A-Cr-9	ASIN RIVER	CROSS SECTION (9/10)	:
	40 UP2.A.Cr.10 41 UP2.A.Rv-1	ASIN RIVER	CROSS SECTION (10/10)	
	42 U-P2-A-R0-1	ASIN RIVER	REVETIMENT INSPECTION ROAD	
	43 UP2-A 8x-1	ASIN BOX CULVERI	PLAN, PROFILE AND STANDARD SECTION	
	44 U-P2-A-bx-2	ASIN BOX CULVERT	CROSS SECTIONS	
	45 UF2ABx-3	ÁSIN BÓX CULVERT	REINFORCING BAR ARRAINGEMENT	
	46 UP2-A-8x-4	ASIN BOX CULVERT	MANHOLE REINFORCING BAR ARRANGEMENT	
	47 UP2A-bi-S	ASIN BOX CULVERF	NET STRUCTURE (1/2)	PLAN AND SECTIONS
· · ·	48 U-P2-A-8x-6	ASIN BOX CUVERT	INET STRUCTURE (2/2)	REINFORCING BAR ARRANGEMENT OF WING WALL
	49 U-P2-A-Bx-7	ASIN BOX CULVERT	OUTLET STRUCTURE (1/3)	PLAN
	50 U-P2-A-8x-8 \$1 U-P2-A-8x-9	ASIN BOX CUVERI	OUTLET STRUCTURE (2/3)	SECIONS
	51 U-P2-A-8x-9 52 U-P2-A-8r-1	ASIN BOX CULVERI ASIN NO.1 BRIDGE	OUTLET STRUCTURE (3/3) SUPER STRUCTURE	REINFORCING BAR ARRANGEMENT OF WING WALL
	53 UP2A8-2	ASIN NO.1 BRIDGE	SUPER SIRVICITURE	DIMENSION OF SUPER STRUCTURE CABLE AND REINFORCING BAR ARRANGEMENT OF GIRDER
	54 U-P2 A B-3	ASIN NO.1 BRIDGE	SUPER STRUCTURE	REINFORCING BAR ARRANGEMENT OF PANEL PLATE
	SS UP2-A B-4	ASIN NO.1 BRIDGE	SUPER STRUCTURE	REINFORCING BAR ARRANGEMENT OF DECK SLAB
	56 UPZAS-S	ASIN NO.1 BROGE	SUPER STRUCTURE	REINFORCING BAR ARRANGEMENT OF DIAPRAGHM AND SDE WALK
а. А	57 U-P2-A-Br-6	ASIN NO.1 BRIDGE	SUPER STRUCTURE	EIPANSION JOINT AND BEARING SHOE
	58 UP2.A-B-7	ASIN NO.1 BRIDGE	SUB STRUČTURE	CENERAL ARRANGEMENT
	59 UP2AB-8	ASIN NO.1 BRIDGE	SUB STRUCTURE	DIMENSIÓN OF ABRANGEMENT
	60 UP2AB-9	ASM NO.1 BRIDGE	SUB SIRUCIUME	DIMENSION AND REINFORCING BAR ARRANGEMENT OF PC PLES
	61 UP2A-9-10		SUB STRUCTURE	RENFORCING BAR ARRANGEMENT OF ABUTMENT (1/2)
	62 U-P2-A-Br-11 63 U-P2-A-Br-12	ASIN NO. I BRIDGE ASIN NO. I BRIDGE		REINFORCING BAR ARRANGEMENT OF ABUTMENT (2/7)
	64 U-P2A-B-13	ASIN'NO 2 BRÒCE	APPROACH ROAD SUPER STRUCTURE	ÓMENSIÓN OF SUPER STRUCTURE
	65 UP2-A-8-14	ASIN NO 2 BRIDGE	SUPER STRUCTURE	CABLE AND RENFORCING BAR ARRANGEMENT OF GRIDER
	65 UP2 A B 15	ASIN NO 2 BRIDGE	SUPER STRUCTURE	REINFORCING MAR ARRANGEMENT OF PANEL PLATE
	67 UP2-A-Br-16	ASIN NO 2 BROGE	SUPER STRUCTURE	REINFORCING BAR ARRANGEMENT OF DECK SLAB
	68 UP2A8-17	ASIN NO 2 BROGE	SUPER STRUCTURE	RENFORCING BAR ARRANGEMENT OF OWARAGHIM AND HAND RAIL
	69 UP2A 8-15	ASIN NO.2 BROGE	SUPER STRUCTURE	EXPANSION JOINT AND BEARING SHOE



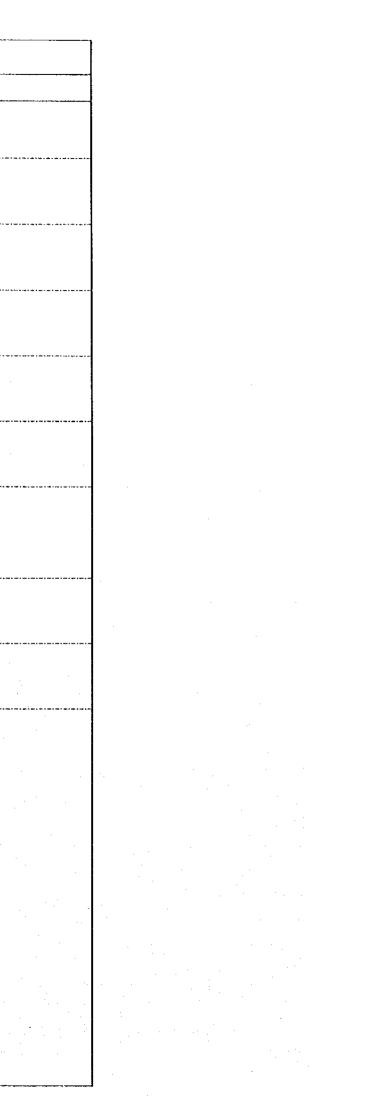
				PACKAGE-2: A	SIN RIVI	ER DRAINAGE SYSTEM IMPROVEMENT	LIST OF DRAWINGS (2/3)
	SMEET No	DRAWING No		1 ⁴ UNE	DATE OF DIV	2 ¹⁰ Line	3 ¹⁰ Li n t
	10	UP2 A 8-19	ASIN NO 2 BROGE		5	U8 SIQUERUSE	GENERAL ARRANSEMENT
•	71	UP2 A & 20	ASIN NO 2 BROGE		s	UB STRUCTURE	DIMENSION OF ABUTMENT
	12	UP2 A 8-21	ASIN NO 2 BROGE			UB STRUCTURE	DIMENSION AND REINFORCING BAR ARRANGEMENT OF PC PLES
	73	UP2 A & 22	ASIN NO 2 BROGE				REINFORCING BAR ARRANGEMENT OF ABUTMENT (1/2)
	74	UP2 A 8-23	ASIN NO 2 BRIDGE			UB SYRUCTURE	SEINFORCING BAR ARRANGEMENT OF ABUIMENT (2/2)
	<u>75</u> 75	UP2A8-24 UP2A541	ASIN NO 2 BRDGE ASIN RIVER			PPROACH ROAD	
	n	UP2AM2	ASIN RIVER			VATER SUPPLY PIPE RE-INSTALLATION	PLAN AND SECTION DETAILS
	78	UP2.A.M-3	ASIN RIVER			EL CABLE DUCT RE-INSTALLATION	
	19	UP2-A-M-4	ASIN RIVER		s	ECONDARY CHANNEL OUTLET RECONSTRUCTION (1/2)	
	0	UP2AM5	ÁSIN RYER			ECONDARY CHANNEL OUTLET RECONSTRUCTION (2/2)	
		ASIN PUMPING	CTATION 291				
	81	UP2P-Ce-1	ASIN PUMPING STATION		a	ENERAL LAYOUT	
	82	UP2P-CH	ASIN PUMPING STATION			SÉNÉRAL ARRANGEMENT	PLAN AND SECTION
	83	UP2P-C12	ASIN PUMPING STATION			SENERAL ARRANGEMENT	PROFILE AND WAJER LEVEL
	54	04224-0-3	ASIN PUMPING STATION	·	f	LE ARRANGEMENT AND DETAILS	
		UP2P-CH	ASIN PUMPING STATION			LAFF GAUGE	· · · · · · · · · · · · · · · · · · ·
	56	UP2P-CI-5	ASIN PUMPING STATION			AFETY HANDRALL OF PUMPING STATION	
	87	UP2PCI&	ASIN PUMPING STATION			AFETY HANDRAR, OF INSPECTION BRIDGE	
	89	UP2PC17 UP2PC18	ASIN PUMPING STATION ASIN PUMPING STATION			ENFORCING BAR ARRANGEMENT ENFORCING BAR ARRANGEMENT	NTAKE, PUMP WELL, TROUGH AND OUTLET (1/3)
	90	V-P2-P-C1-9	ASIN PUMPING STATION			ENFORCING BAR ARRANGEMENT	NTAKE, PUMP WELL, TROUGH AND OUTLET (2/3) NUAKE, PUMP WELL, TROUGH AND OUTLET (3/3) - REINFORCING BAR BENDING SCHEDULE
	51	U-P2-P-C1-10	ASIN PUMPING STATION			ENFORCING BAR ARRANGEMENT	CONNECTION BARS FOR BUILDING
	92	UP2-P-CI-11	ASIN PUMPING STATION		. 8	ENFORCING BAR ARRANGEMENT	INSPECTION BRIDGE NO.1
Î	93	UP2-P-CF12	ASIN PUMPING STATION		9	ENFORCING BAR ARRANGEMENT	INSPECTION BRIDGE NO 2
	94	UP2-P-Me-1	ASIN PUMPING STATION			CREW PUMP	GENERAL ARRANGEMENT
	- 25	UP2PMe-2	ASIN PUMPING STATION			CREW PUMP	MAIN PUMP INSTALLATION
	96 97	UP2.P.Mo-3 UP2.P.Mo-4	ASIN PURAPING STATION ASIN PURAPING STATION			LIXULARY PUMP KESRLENGANE	
	 94	UP2PMe-5	ASIN PUMPING STATION			UEL SUPPLY SYSTEM	
· · · · · ·	99	UP2# Me -8	ASIN PUMPING STATION			TOP LOGS	
	00	UP2281	ASIN PUMPING STATION			LECTRIC WIRING PLAN	
	103	ሁዋ2ዋ ቒ 2	ASIN PUMPING STATION			OWER SUPPLY AND CONTROL SYSTEM DIAGRAM - 1	
	102	UP2-P-8-3 UP2-P-8-1	ASIN PUMPING STATION			OWER SUPPLY AND CONTROL SYSTEM DIAGRAM - 2	
	103	U-72-9-1 U-72-P-B-2	ASIN PUMPING STADON BRIDGE ASIN PUMPING STADON BRIDGE			uper structure Uper structure	DIMÉNSION OF SUPER STRUCTURE
		UP2P-8-3	ASIN PUMPING STATION BRIDGE			UPER STRUCTURE	CABLE AND REINFORCING BAR ARRANGEMENT OF GROER REINFORCING BAR ARRANGEMENT OF PANEL PLATE
	106	U-P2-P-Br-4	ASIN PUMPING STATION BRIDGE			uper siructure	REINFORCING BAR ARRANGEMENT OF DECK SLAS
	107	UP2P8rS	ASIN PUMPING STATION BRIDGE		5	uper structure	REINFORCING BAR ARRANGEMENT OF DIAPRAGHM AND SIDE WALK
		ሀዋ2ዋ-ት ቆ	ASIN PUMPING STATION BRIDGE			UPER STRUCTURE	EPANSION JOINT AND BEARING SHOE
		UP2PB-1	ASIN PUMPING STATION BRIDGE		1	UB SIRUCTURE	GENERAL ARRANGEMENT
		UP22-8-2 UP22-8-3	ASIN PUMPING STATION BRIDGE			UR STRUCTURE	OMENSION OF ABUTMENT
			ASIN PUMPING STATION BRIDGE			UB STRUCTURE	DIMENSION AND REINFORCING BAR ARRANGEMENT OF PC PLES REINFORCING BAR ARRANGEMENT OF ABUTMENT (1/2)
	115	U-P2-P-B-5	ASIN PUMPING STABON BRIDGE		s	UB STRUCTURE	REINFORCING BAR ARRANGEMENT OF ABUTMENT (2/2)
	114	U-P2-P-M-1	FUEL TANK		۶	LAN AND SECTIONS	
		UP2P-M-2	FUELTANK			ENFORCING BAR ARRANGEMENT (1/4)	
		U-P2-P-M-3	RELTANK			ENFORCING BAR ARRANGEMENT (2/4)	
	117 118	UP2.P-M-4 UP2.P-M-5	FLELTANK FLELTANK			ENFORCING BAR ARRANGEMENT (3/4) ENFORCING BAR ARRANGEMENT (4/4)	
1		UP2 PM6	PLEL TANK			AR BENDING SCHEDULE AND BAR WEIGHT	
	120	0.92.9.801	ASIN PLANPING STATION COMPLEX			RAWING LIST	
	321	ሀዋ2 ዮፅራ2	ASIN PUMPING STARGN COMPLEX			ENERAL ABBERVIATION AND SYMBOL	
		UP2.P.80-3	ASIN PUMPING STARON COMPLEX	•		XIERIÓR FINISH SCHEÒULE	
	123 124	ሁም2-የ-ፀው-ቶ ሁም2-የ-ፀው-\$	ASIN PUMPING STATION COMPLET ASIN PUMPING STATION COMPLET			HTERIOR FINISH SCHEDULE	
		U-P2-P-80-5	ASIN PUMPING STATION COMPLEX			ite plan	
	125	UP2P&u7	ASIN PUMPING STATION COMPLEX			LOOR PLAN, ROOF PLAN, CELLING PLAN AND DETAIL	PLAP CONTROL BUILDING
	127	UP2PBU8	ASIN PUMPING STATION COMPLEX		· · · E	LEVATION	PUMP CONTROL BUILDING
		UP2 P 84-9	ASIN PUMPING STARON COMPLEX			ECTION 1.1 AND DETAIL SECTION	PLMP CONTROL BUILDING
	129	U-P2-P-B+10	ASIN PLAPPING STABON COMPLEX	· · · · ·	·	ÉCTION II - I, INTERIOR ELEVATION AND DETAIL	PLMP CONTROL SULDING
	<u>130</u>	UP2P-8+11 UP2P-8+12	ASIN PUMPING STATION COMPLEX ASIN PUMPING STATION COMPLEX			ASCRILANEOUS DETAIL 1 ASCRILANEOUS DETAIL 2	PUMP CONTROL BUILDING
		0424-80-12	ASIN PUMPING STATION COMPLEX			ISCELLANEOUS DETAL 2 ISCELLANEOUS DETAL 3	PUMP CONTROL BUILDING PUMP CONTROL BUILDING
		UP2-P-80-14	ASIN PLAPING STATION COMPLEX			EVPLAN DOOR WINDOW SCHEDULE	PLANF CONTROL BUILDING PLANF CONTROL BUILDING
	134	UP2 P-8u-15	ASIN PUMPING STARON COMPLEX			RANAGE PLAN AND DETAIL	
	135	U-P2 P-Bu-16	ASIN PUMPING STATION COMPLEX		ç	COLUMIN, REBEAN AND FRAMING ELEVATION	PUMP CONTROL BUILDING
		U-P2 P 8u-17	ASIN PUMPING STATION COMPLEX			ECTION AND DETAIL OF COLUMN AND BEAM	PUMP CONTROL BUILDING
		UP2 P 84-18	ASIN PUMPING STATION COMPLEX		· · · · · ·	OOF STRUCTURE PLAN AND TYPICAL	PUMP CONTROL BUILDING
		UP2 P 8+19 UP2 P 8+20	ASIN PUMPING STADON COMPLEX			PRCAL ROOF TRUSS ETAIL ROOF STRUCTURE	PUMP CONTROL BUILDING PUMP CONTROL BUILDING
		UP2 P-0-21	ASIN PUMPING STATION COMPLEX			GRINNS CONDUCTOR AND DETAL	
	60	UP2 P 8+22	ASIN PLATING STATION COMPLEX		U	GHING PLAN AND ONE LINE ELECTRICAL DIAGRAM	

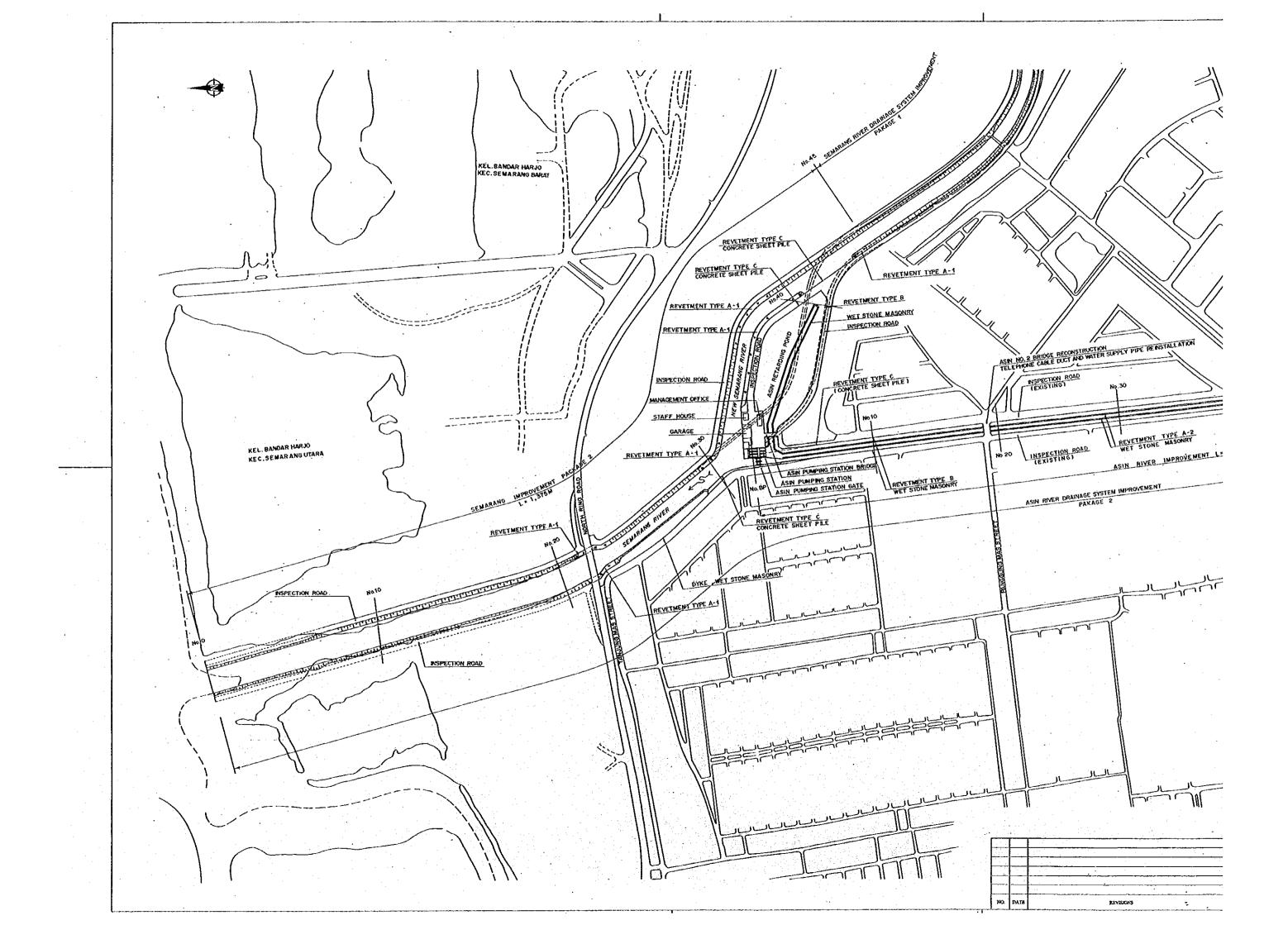
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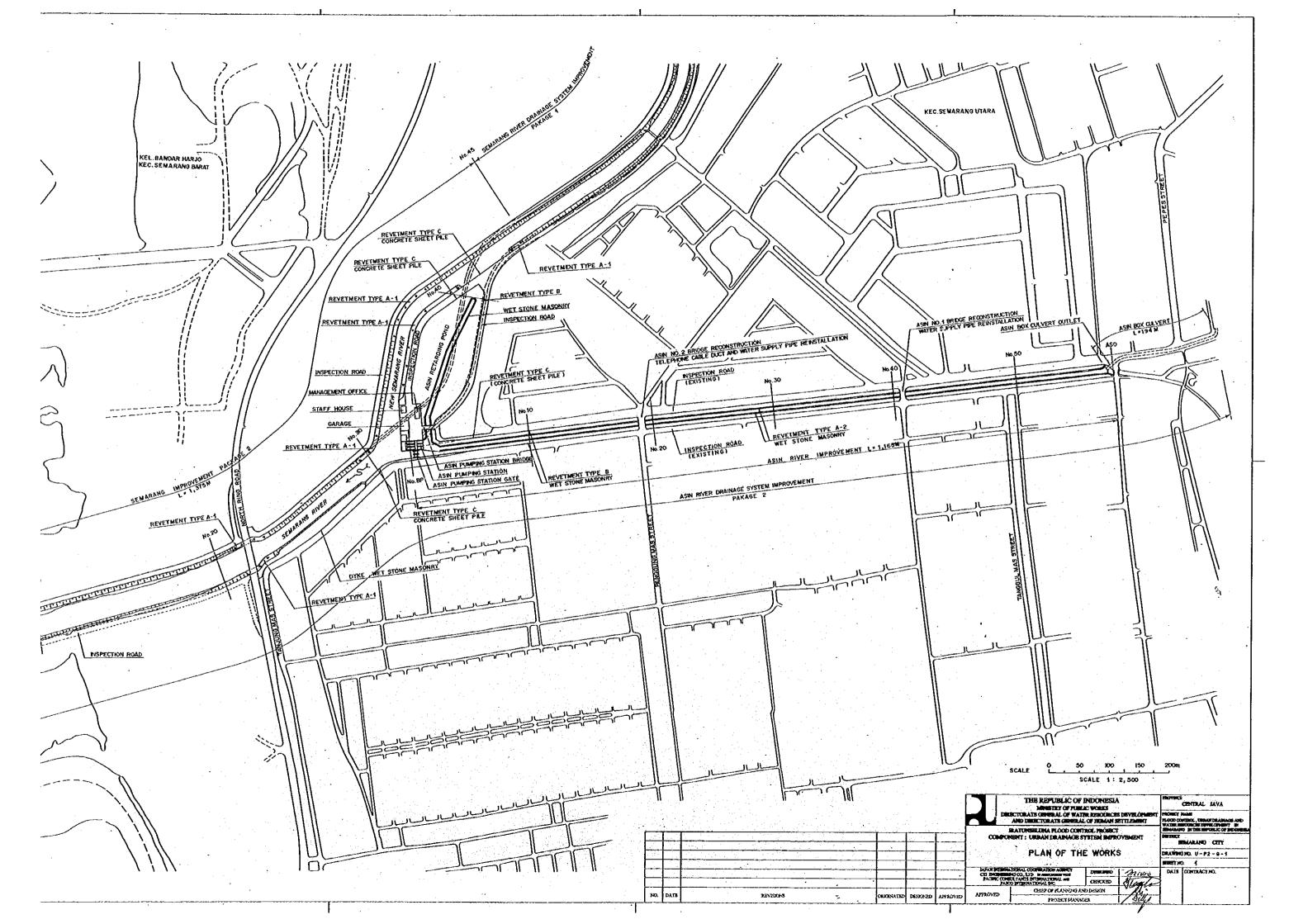
PACKAGE - 2: ASIN RIVER DRAINAGE SYSTEM IMPROVEMENT

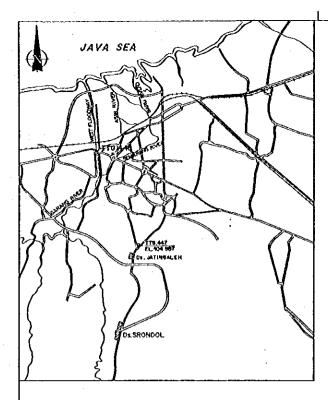
LIST OF DRAWINGS (3/3)

SHEET					
	DEAWING			THE OF DRAWING	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
No	No		IST LINE	2NÖ LINE	SRD UME
142	UP2 P Bu 23	ASIN PUMPING STATION COMPLEX		GENERAL LIGHTING PLAN AND DETAIL	
143	UP2-P-BJ-24	ASIN PUMPING STATION COMPLEX		SOMETRIC WATER SUPPLY DIAGRAM	
144	UP2 P-0-25	ASIN PUMPING STATION COMPLEX		Berghut, Ground Peservoir	
145	UP2-P-8u-26	ASIN PUMPING STATION COMPLEX			
146	UP2 P-80-27	ASIN FUMPING STADON COMPLEX		ROOR PLAN, ROOF PLAN, CELING PLAN	MANAGEMENTOFACE
142	UP2-P-90-28			REVATION	MANAGEMENT OFFICE
146	U P2 P Bu-29	ASIN PUMPING STATION COMPLEX		SECTION AND DETAIL SECTION	MANAGEMENT OFFICE
149	U-P2-P-Bu-30	ASIN PUMPING STATION COMPLEX		INTERIOR ELEVATION AND DETAL	MANAGEMENTOFFICE
150	U-P2-P-87-31	ASIN PUMPING STATION COMPLEX		DETAIL PLAN AND DETAIL SECTION	MANAGEMENT OFFICE
151	UP2-P 50-32	ASIN PUMPING STATION COMPLEX		KEYPLAN AND DOOR WINDOW SCHEDULE	MANAGENENI OFFICE
152	U-P2-P-BU-33	ASIN PUMPING STATION COMPLEX		FOUNDATION PLAN AND DETAIL	MANAGEMENT OFFICE
153	U-P2-P-80-34	ASIN PUMPING STATION COMPLEX		COLUMIN, THE BEAM AND FRAMING ELEVATION	MANAGEMENT OFFICE
154	U-P2-P-DU-35			ROOF STRUCTURE PLAN AND TYPICAL	MANAGEMENT OFFICE
155		ASIN PUMPING STATION COMPLEX		DETAUL IRUSS STRUCTURE	MANAGEMENT OFFICE
156	UP2-P-80-38 UP2-P-80-37	ASIN PUMPING STATION COMPLEX		FLOOR PLAN, ROOF PLAN, CEUNG PLAN AND REVATION	SIAFF HOUSE
157		ASIN PUMPING STATION COMPLEX		SECDON	STAFF HOUSE
157	U-P2-P-8u-38	ASIN PUMPING STATION COMPLEX		NTERIOR ELEVATION AND DETAIL PLAN	SLAFF HOUSE
159	U-P2-P-Bu-39 U-P2-P-Bu-40	ASIN PUMPING STATION COMPLEX		KEYPLAN, DOOR WINDOW SCEDLLE	STAFF HOUSE
		ASIN PUMPING STATION COMPLEX		FOUNDATION PLAN AND DETAIL	STAFF HOUSE
	U-P2-P-80-41	ASIN PUMPING STATION COMPLEX		COLUMIN, THE BEAM AND FRAMING ELEVATION	ŞTAFF HOUSE
161	UP2 P-90-42	ASIN PUMPING STATION COMPLEX		ROOF STRUCTURE PLAN AND TYPICAL	STAFF HOUSE
162	U-P2-P-Bu-43	ASIN PUMPING STATION COMPLEX		DETAIL TRUSS STRUCTURE	STAFF HOUSE
163	U-P2-P-Bu-44	ASIN PUMPING STATION COMPLEX		FLOOR PLAN, ROOF PLAN, CELING PLAN	GARAGE
164	U-P2-P-B.r45	ASIN PUMPING STATION COMPLEX		ELEVATION	GARAGE
165	U-P2-P-Bu-46	ASIN PUMPING STATION COMPLEX		SECTION AND DETAIL SECTION	GARAGE
	U-P2-P-BU-47	ASIN PUMPING STATION COMPLEX		INTERIOR ELEVATION AND DETAIL	GARAGE
167	U-P2-P-Bu-48	ASIN PUMPING STATION COMPLET		KEYPLAN, DOOR WINDOW SCEDULE	GARAGE
165	U-P2-P-BU-49	ASIN PUMPING STATION COMPLET		FOUNDATION PLAN AND DETAIL	GARAGE
169	U-P2-P-Bu-50	ASIN PUMPING STATION COMPLEX		COLUMN, THE BEAM AND FRAMING ELEVATION	GARAGE
	UP2P-Bu-SI	ASIN PUMPING STATION COMPLET		ROOF STRUCTURE PLAN AND TYPICAL	GARAGE
	U-P2-P-Bu-52	ASIN PUMPING STATION COMPLEX		ROOF STRUCTURE HYPICAL AND DETAIL	GARAGE
		STATION GATE (G)			
123					
172	092-6-61	ASIN PUMPING STATION GATE		PLAN AND SECTION	
173	UP2-G-C1-2	ASIN PUMPING STATION GATE		PLAN AND REVATION OF CONTROL HOUSE	
175	UP2-G-CI-3 UP2-G-CI-4	ASIN PUMPING STATION GATE		DETAR OF WINDOW AND ROOF SEALING	
175	UP2GCIS	ASIN PUMPING STATION GATE ASIN PUMPING STATION GATE		PHC-PLE AND STEEL SHEET PLE LAYOUT, AND DETAILS	· · · · · · · · · · · · · · · · · · ·
173	UP2GOIS	ASIN PUMPING STATION GATE		REINFORCING BAR ARRANGEMENT	FOUNDATION AND PER (1/4)
178	UP2-G-CH7	ASIN PUMPING STATION GATE		REINFORCTING BAR ARRANGEMENT	FOUNDATION AND PIER (2/4)
179	042601	and the second	· · · · · · · · · · · · · · · · · · ·	REINFORCING BAR ARRANGEMENT	FOUNDATION AND PER (3/4)
180		ASIN PUMPING STATION GATE		REINFORCING BAR ARRANGEMENT	FOUNDATION AND PER (4/4)- REINFORCING BAR BENDING SCHEDULE
161	UP2-G-CF-10	ASIN PUMPING STATION GATE		REINFORCING BAR ARRANGEMENT	GATE CONTROLHOUSE (1/4)
		ASIN PUMPING STATION GATE		REINFORCING BAR ARRANGEMENT	GATE CONTROL HOUSE (2/4)
182	UP2-G-CH11	ASIN PUMPING STATION GATE		REINFORCING BAR ARRANGEMENT	GATE CONTROL HOUSE (3/4)
153	UP2-G-CF12	ASIN PUMPING STATION GATE		REINFORCING BAR ARRANGEMENT	GATE CONTROL HOUSE (4/4) - REINFORCING BAR BENDING SCHEDULE
164	UP2-G-CI-13	ASIN PUMPING STATION GATE	1	REINFORCING BAR ARRANGEMENT	INSPECTION BRIDGE
	UP2-G-Me-1	ASIN PUMPING STATION GATE		Génerál árrangement	GAE
186	U-P2-G-Me 2	ASIN PUMPING STATION GATE		DETAIL OF GATE LEAF	
187	U-P2-G-Me-3	ASIN PUMPING STATION GATE		DÉTAIL OF GUIDE FRAMÉ / L'AYOUT OF HOIST	
188	UP2-G-Me-4	ASIN PUMPING STATION GATE		STOPLOGS	
1.00	U-P2-G-M-1	ASIN PUMPING STATION GATE		DÉTAL OF STAIRWAY	
189					
189	A 6161 Parts 4 America				
		IG POND (RP)			
189 190 191	ASIN RETARDI U-P2-8P-Ge-1 U-P2-RP-Rd-1	IG PÓNÓ (RP) ASIN RÉTAROING POND ASIN RETAROING POND		PLÁN, SECTION AND REVEIMENT INSPECTION ROAD	







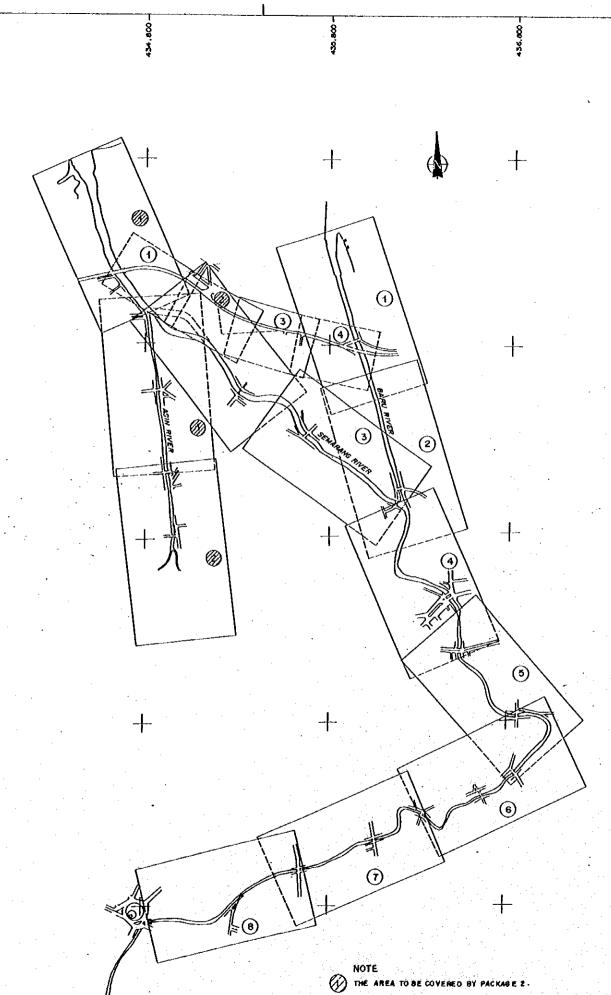


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TABLE OF LOCATION AND ELEVATION OF BENCH MARK

STATION	LATITUOE	LONGITUDE	ELEVATION
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TTG.447		-	104.987
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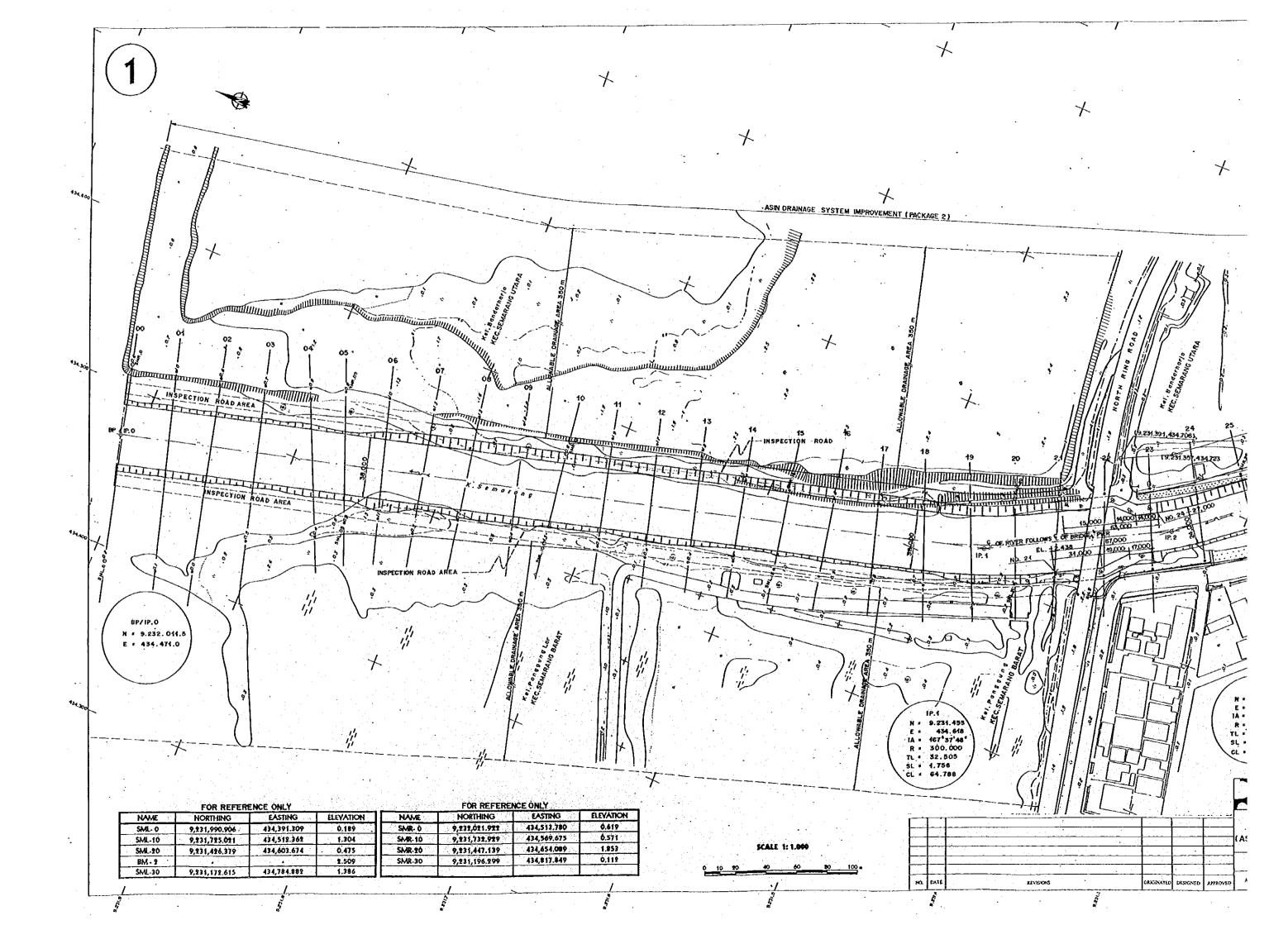


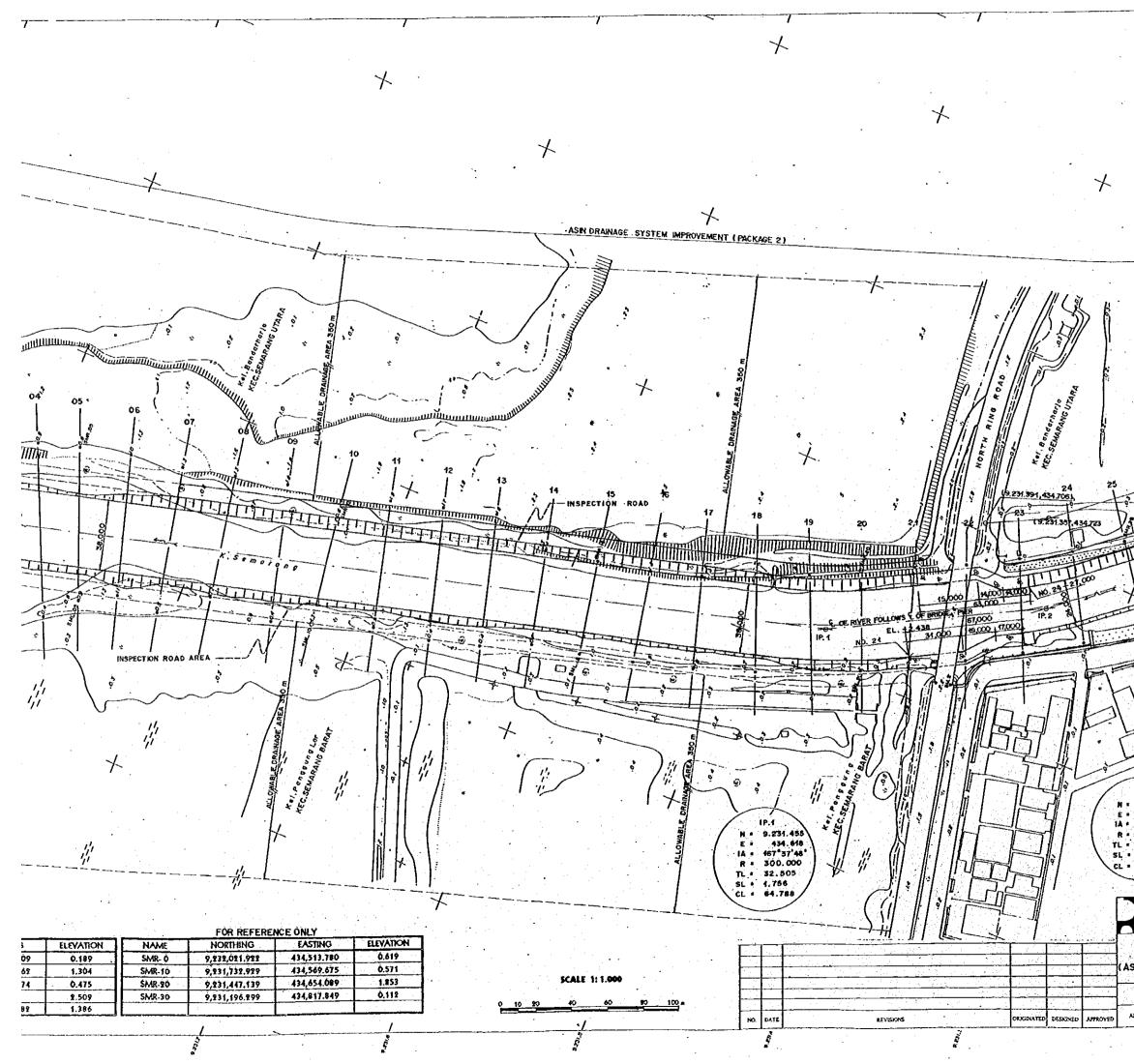
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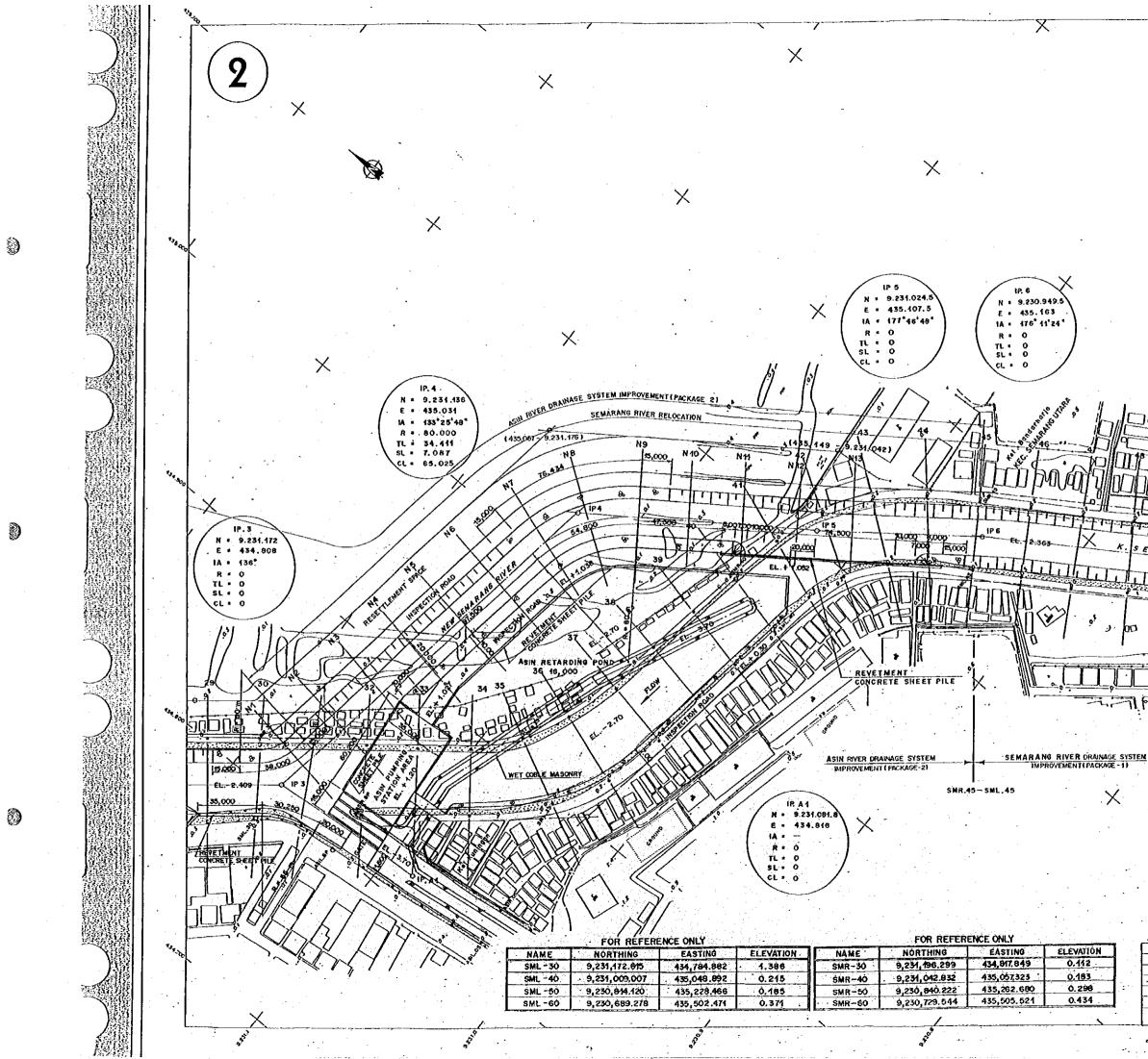
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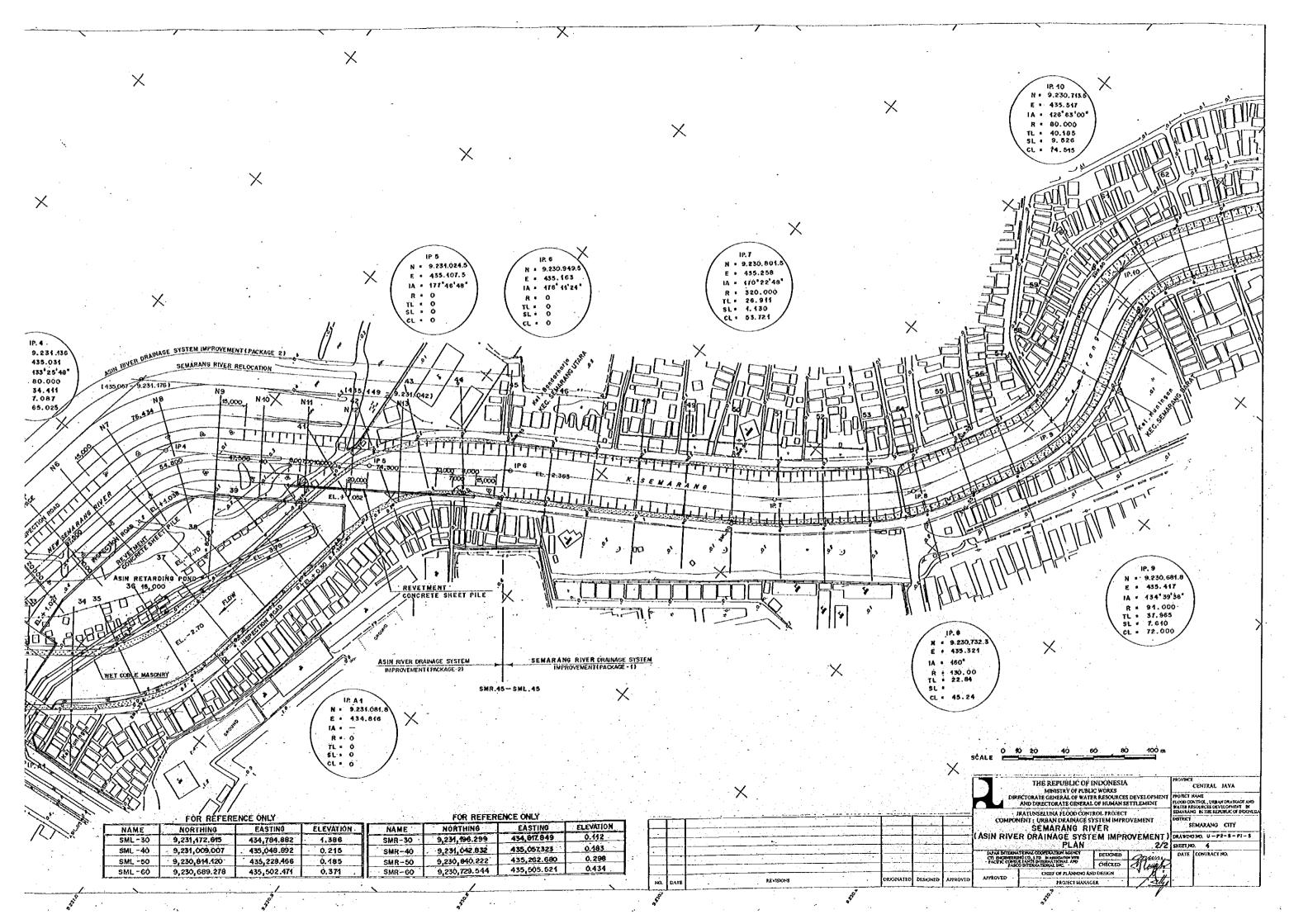




 \star 1.000,100,000 VITT IP. 3 N = 9.231,172 E = 434.803 IA = 136" 58' 48" R= 0 1L≠ 0 SL≠ 0 CL≠ 0 12.2 N = 9.231.342 E = 434.676 IA = 159 20 24 R = 190.000 TL = 17.714 SL = 0.824 CL = 35.343 THE REPUBLIC OF INDONESIA MONSTRY OF FUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMEN AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT CENTRAL JAVA FLOOD CONTROL, URBAN DRADKACE / WATER RESOURCES DEVELOPMENT | SEMARANG BITHE REPUBLIC OF DAD AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT IRATURSELUNA FLOOD CONTROL PROJECT COHPONENT: URBAN DRANNAG RIVER SE MARANG RIVER (ASIN RIVER DRANNAGE SYSTEM IMPROVEMENT) SE MARANG RIVER (ASIN RIVER DRANNAGE SYSTEM IMPROVEMENT) PLAN (1/2) SHEET NO. 3 MANNAGE SYSTEM IMPROVEMENT) DRAWING NG. U-P2-1 SHEET NO. 3 MANNAGE SYSTEM IMPROVEMENT) DRAWING NG. U-P2-1 SHEET NO. 3 MANNAGE SYSTEM IMPROVEMENT) DRAWING NG. U-P2-1 DRAWING NG. U-P2-1 CONTRACT NO. SEMARANO CITY DRAWING NO. U -P2-8-P1-2 CHIEF OF PLANNING AND DESKIN APPROVED PROJECT MANAGE



 \times Х IP.7 N = 9.230.801.5 E = 435.258 IA = 170"22"48" R = 320.000 TL = 26.911 SL = 1.130 CL = 53.721 ╵<u>╹╹╹╹╹╹╹╹╹╹</u>╹ 444 \$ ^ ر ۲ ĩΧ Х X ÉLÉVATIÓN 0.112 0.183 0.298 0.434 REVISIONS ж 39



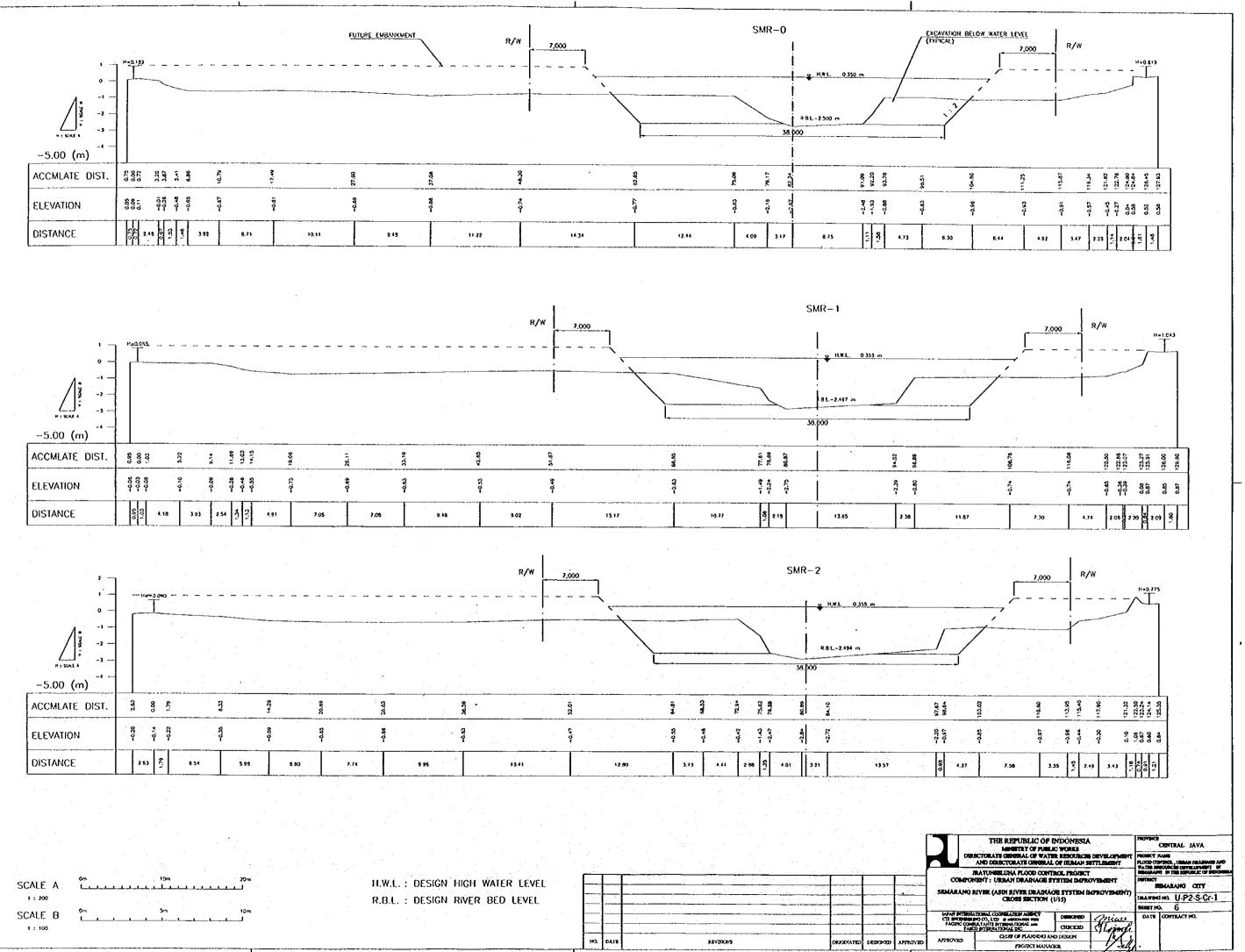
		ASIN RIVER DRAINAGE SYSTEM IMPR	ROVEMENT PROJECT
		Sub-Street Provide Line Line	SEMARANG RIVER RELOCATION
	2		
	(Elevation EL. m) - *- m)		
	5.00 (m)		
GRADIENT OF	DESIGN RIVER BED	<u>1+1/10,000</u>	
	DIKE CROWN	0.955 0.955 0.956 0.956 0.965 0.965 0.975 0.975 0.975 0.981 0.984 0.984 0.984 0.984 0.984 0.984 0.984 0.984 0.984 0.984 0.984 0.984 0.984 0.984 0.984 0.984 0.984 0.984 0.987 0.987 0.987 0.987 0.987 0.987 0.987 0.987 0.987 0.987 0.987 0.987 0.987 0.987 0.987 0.987 0.987 0.987 0.9750 0.9750 0.9750 0.9750 0.97500 0.97500 0.97500000000000000000000000000000000000	1,020 1,021 1,022 1,023 1,024 1,024 1,024 1,024 1,024 1,024 1,024 1,025 1,026 1,025
DESIGN ELEVATION (EL. m)	HIGH WATER LEVEL - — — (H.W.L.)	0.255 0.255	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	RIVER BED		-2.415 -2.456 -2.456 -2.456 -2.466 -2.466 -2.466 -2.466 -2.466 -2.466 -2.466 -2.466 -2.466 -2.466 -2.466 -2.466 -2.466 -2.466 -2.466 -2.456 -2.2566 -2.
	RIGHT BANK	0.870 0.570 0.570 0.830 0.830 0.830 0.830 0.830 1.150	0.050 0.330 0.330 0.040 0.040 0.1300 0.1300 0.100 0.100 0.100 0.100 0.1200 0.1200 0.1200 0.1200 0.1200 0.1200 0.1200 0.1200 0.1200 0.1200 0.1200 0.1200 0.1200 0.1200 0.1200
EXISTING ELEVATION (EL. m)	LEFT BANK	- 0.130 - 0.140 - 0.140 - 0.380 - 0.30	0,10 0,10 0,000000
	LOWEST RIVER BED	-2,350 -2,350 -2,350 -2,450 -2,450 -2,450 -2,450 -2,450 -2,450 -2,450 -1,350 -1,350 -1,350 -1,350 -1,350 -1,350 -1,350 -2,550 -2	- 7,970 - 2,670 - 2,670 - 2,670 - 1,200 - 1,200 - 1,200
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(m)	PARTIAL	27.367 36.460 36.460 25.566 25.566 21.344 21.344 31.3444 31.3444 31.3444 31.3444 31.3444 31.34444 31.34444 31.344444 31.34444444444	
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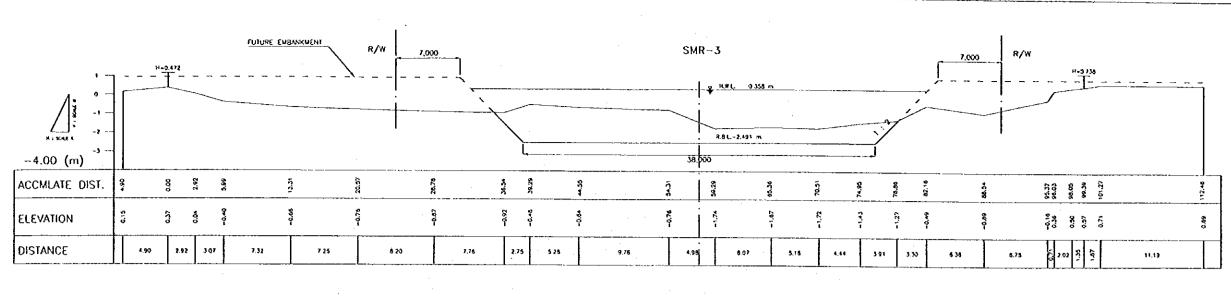
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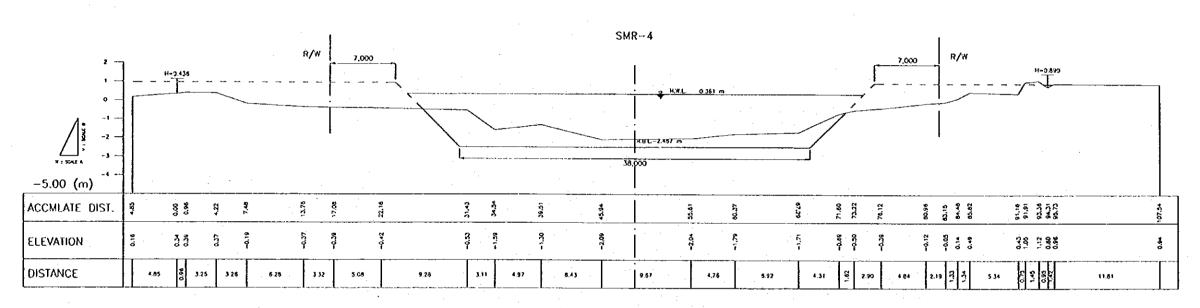
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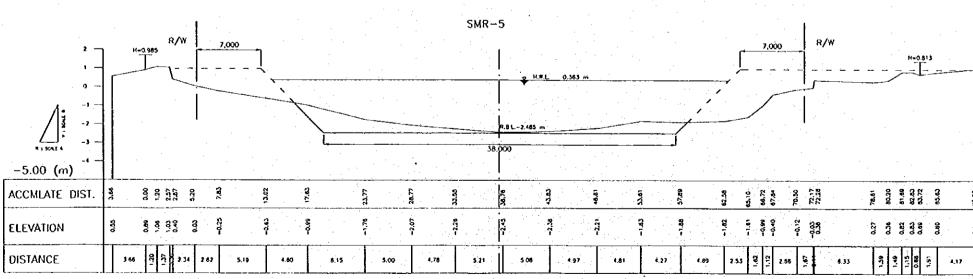
SCALE B

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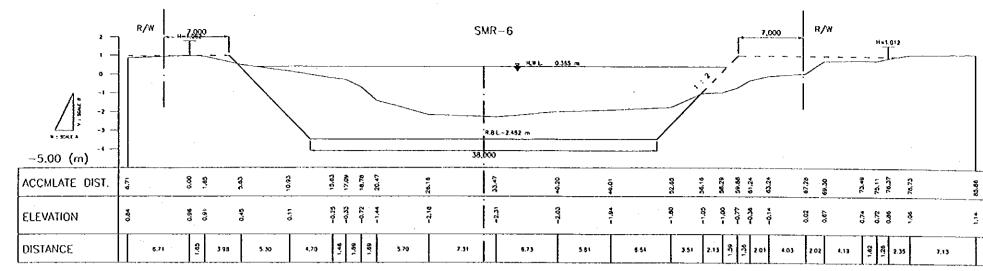


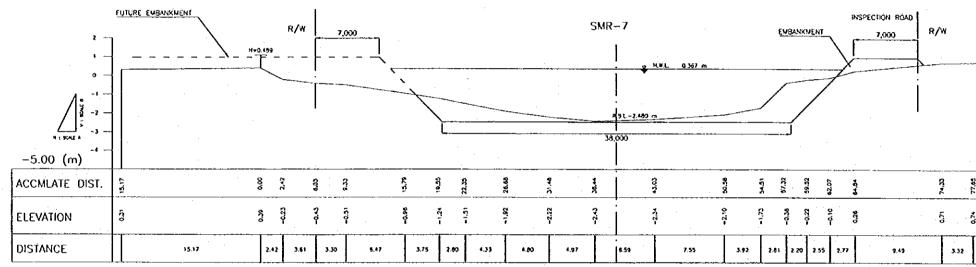


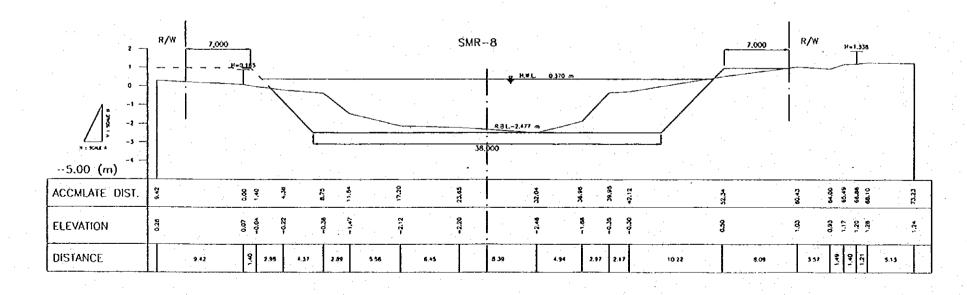
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SCALE A





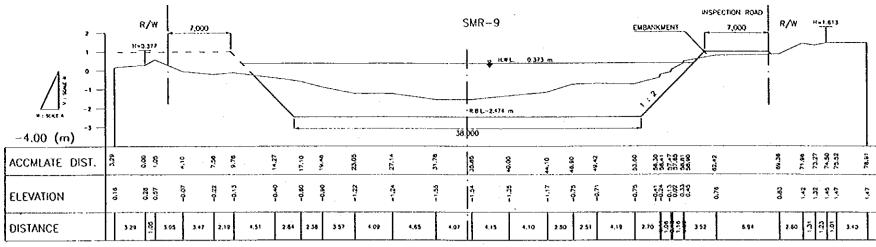


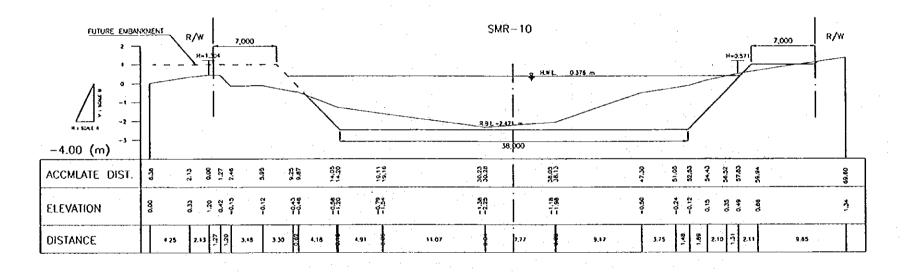
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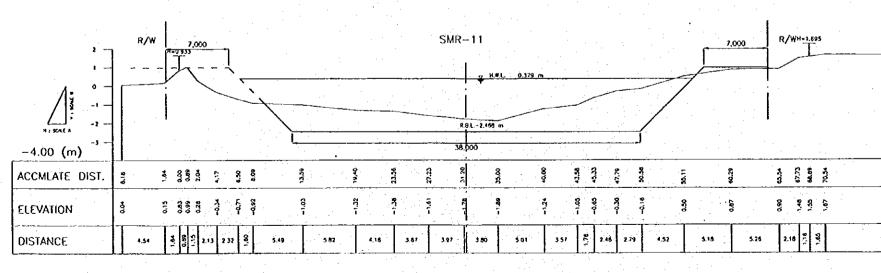
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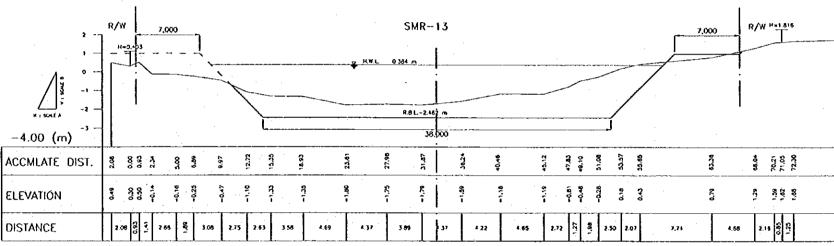


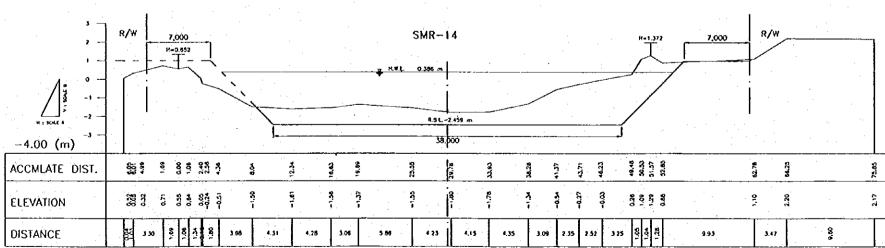


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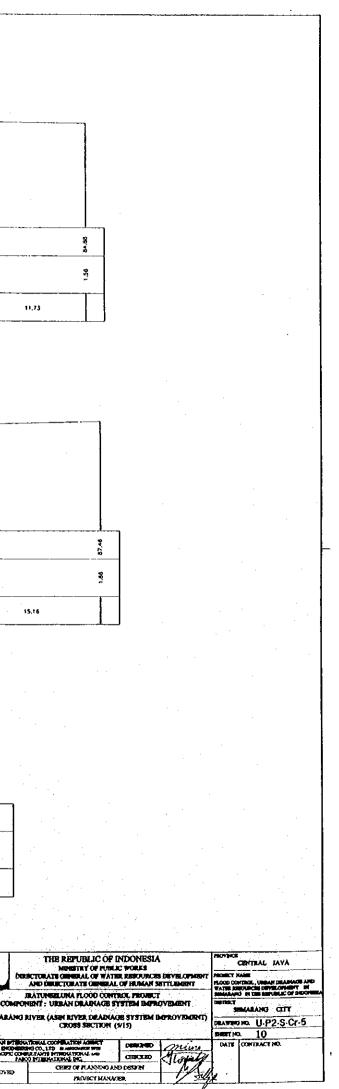
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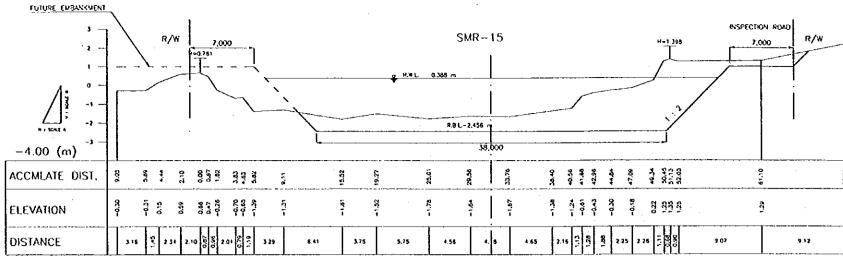
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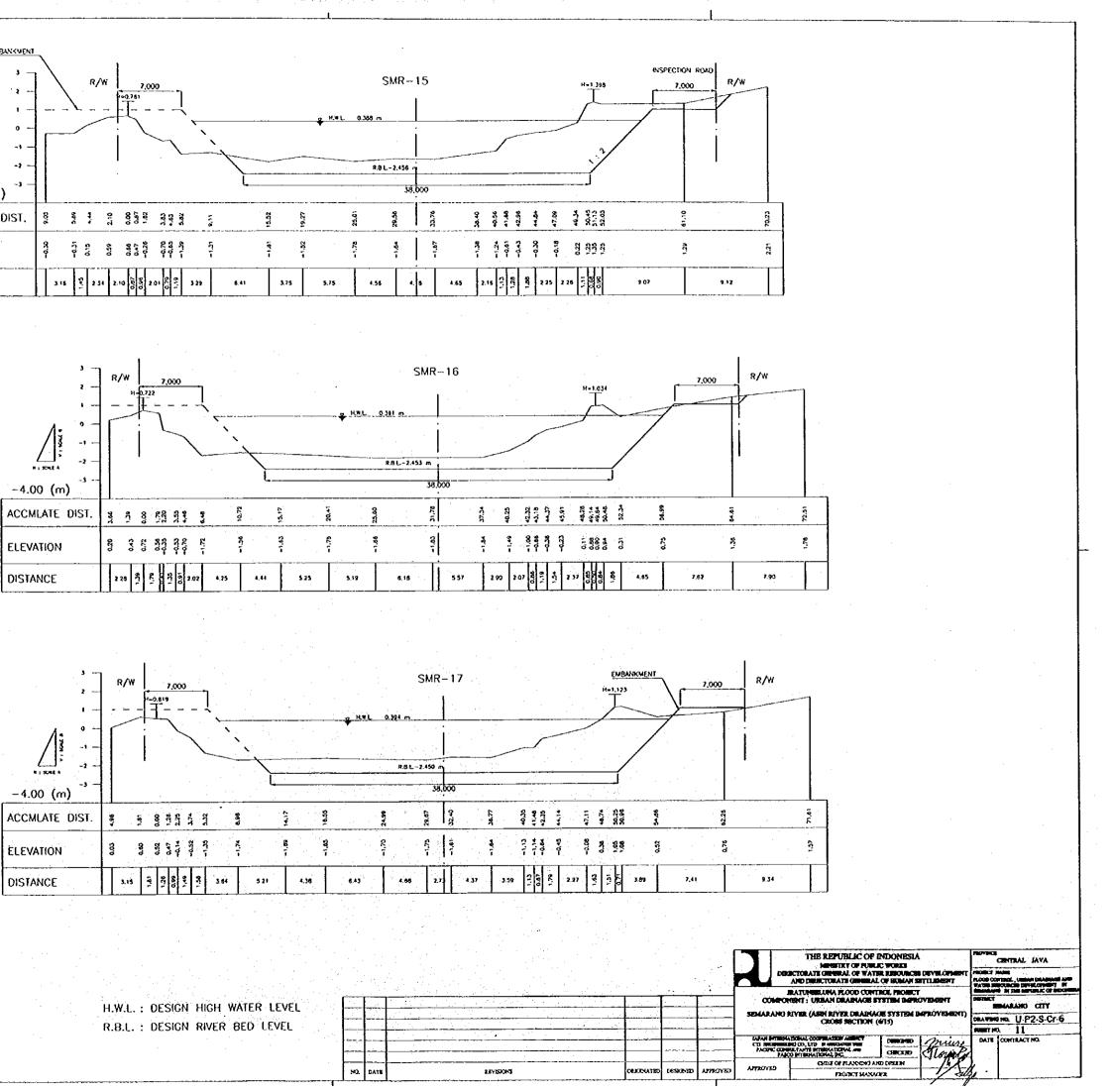


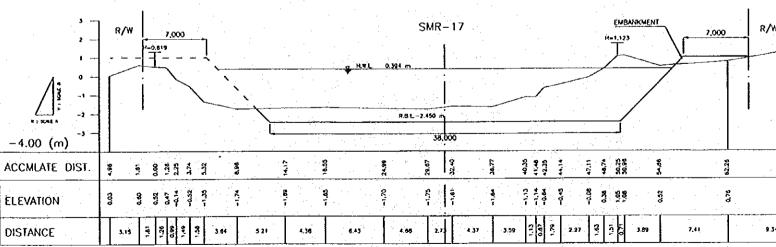


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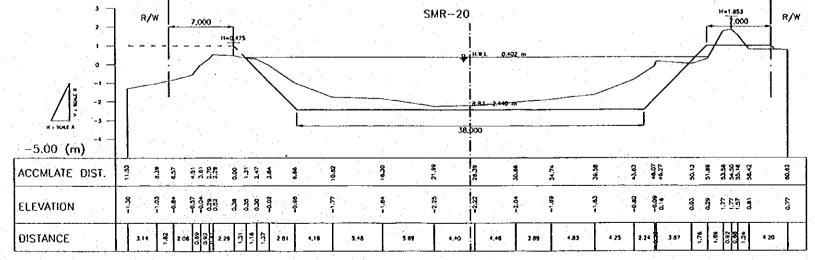


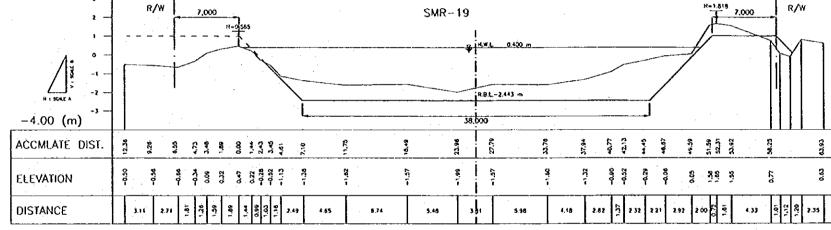


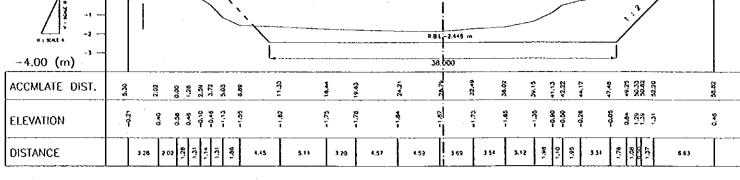
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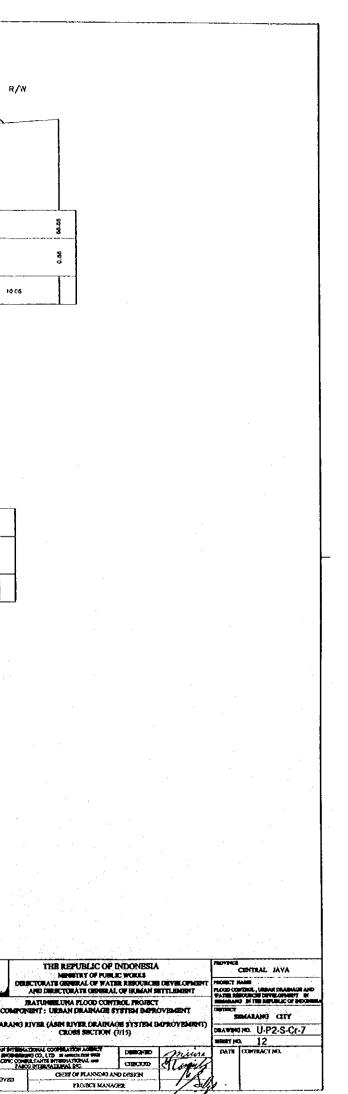
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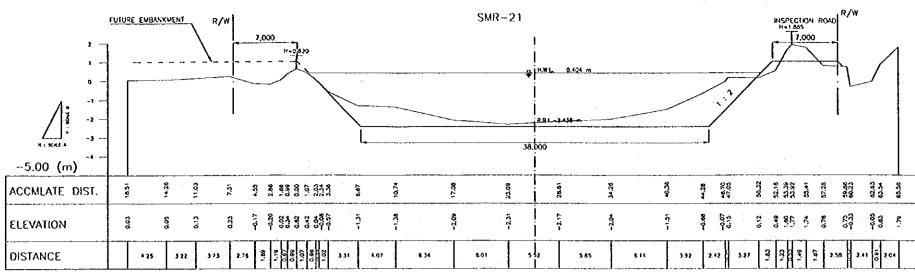
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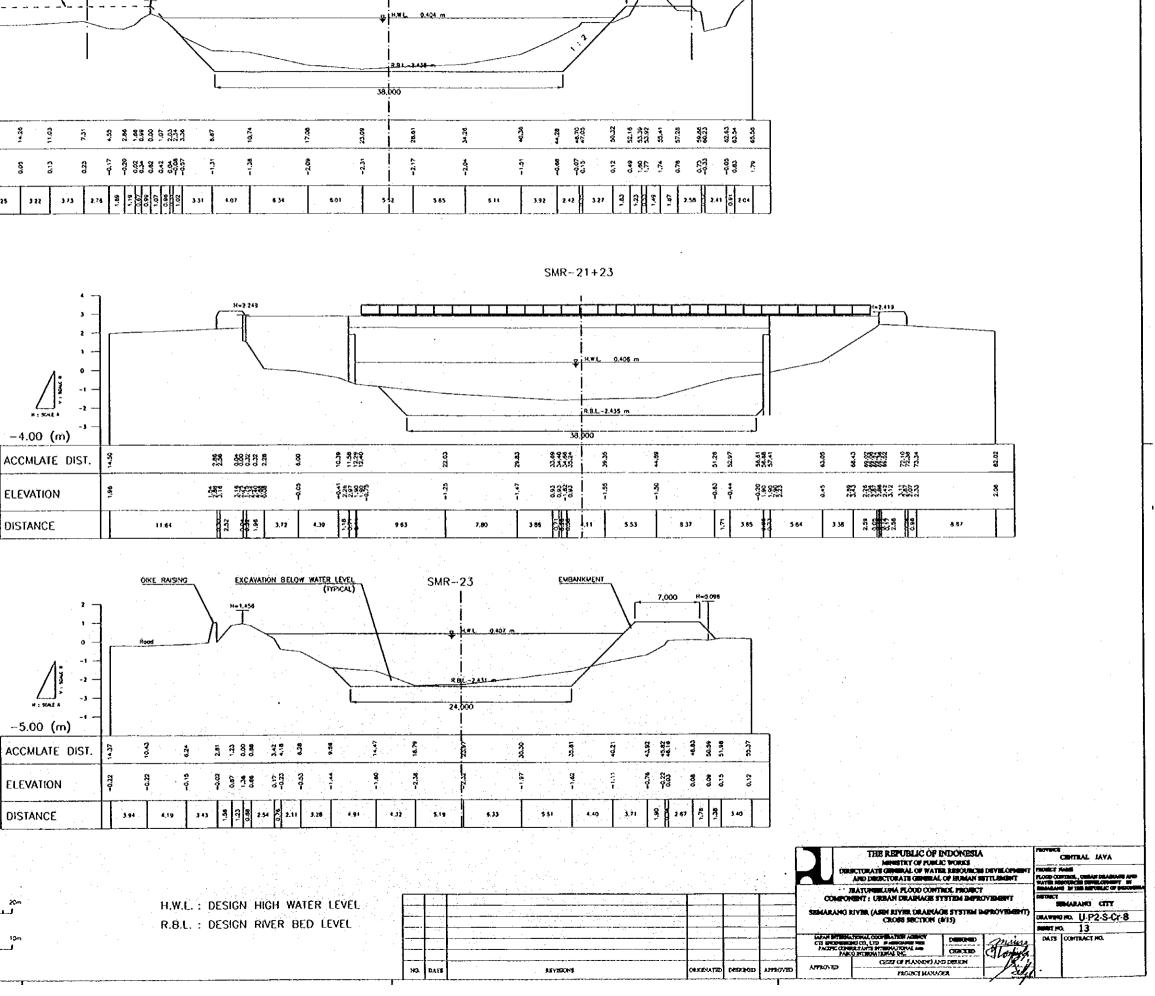
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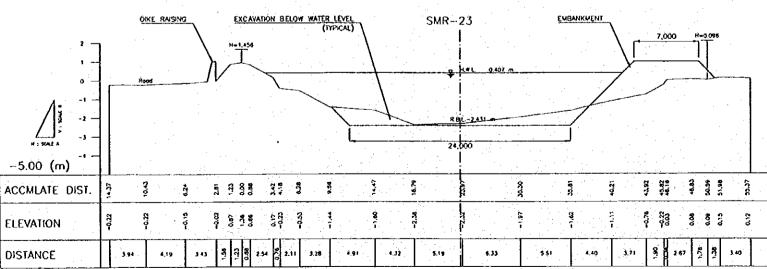
INSPECTION ROAD

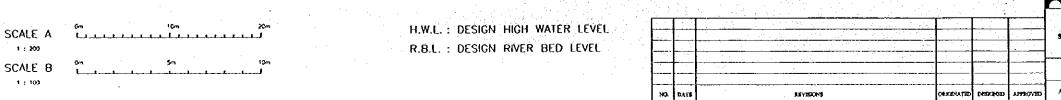
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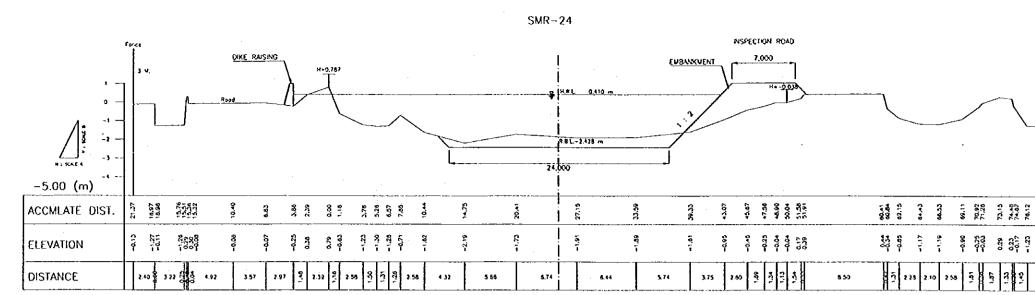


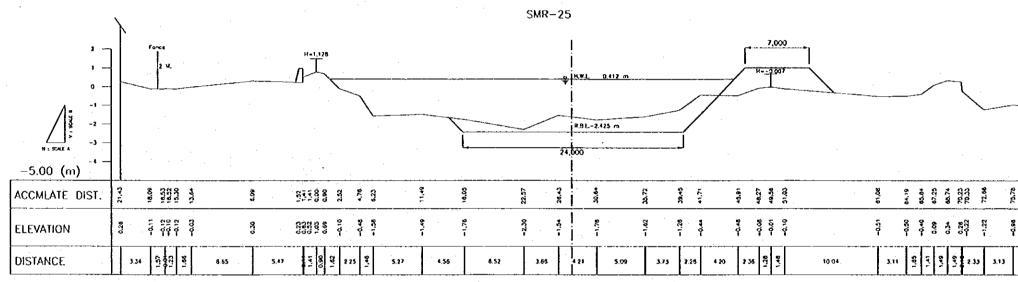


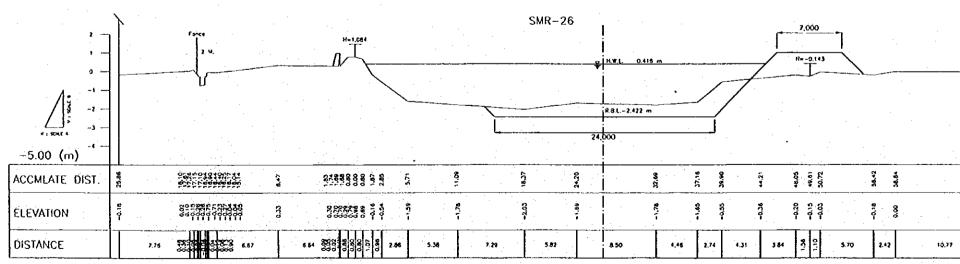




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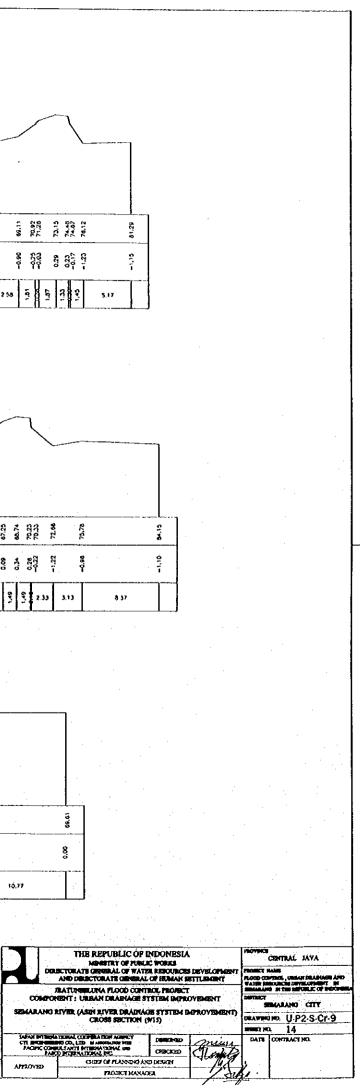


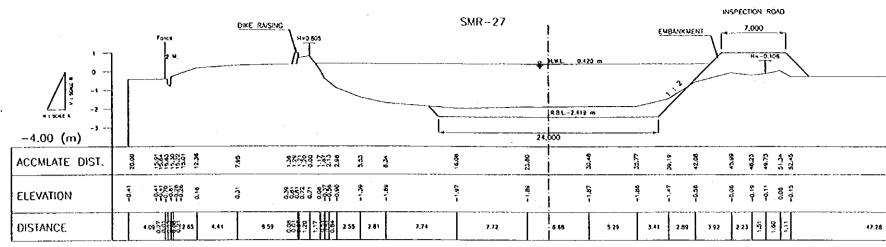


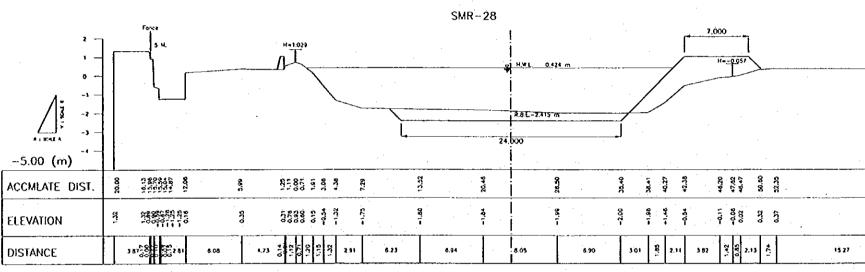


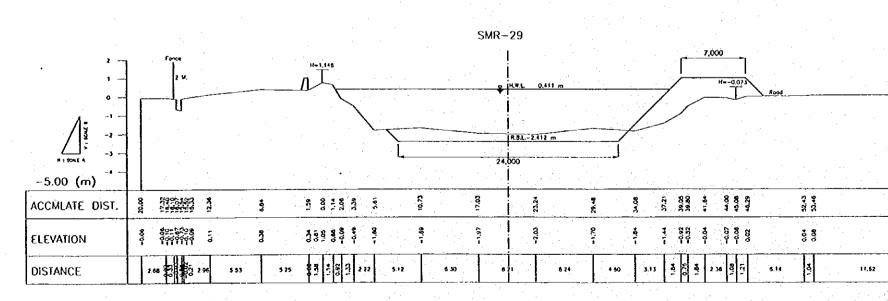
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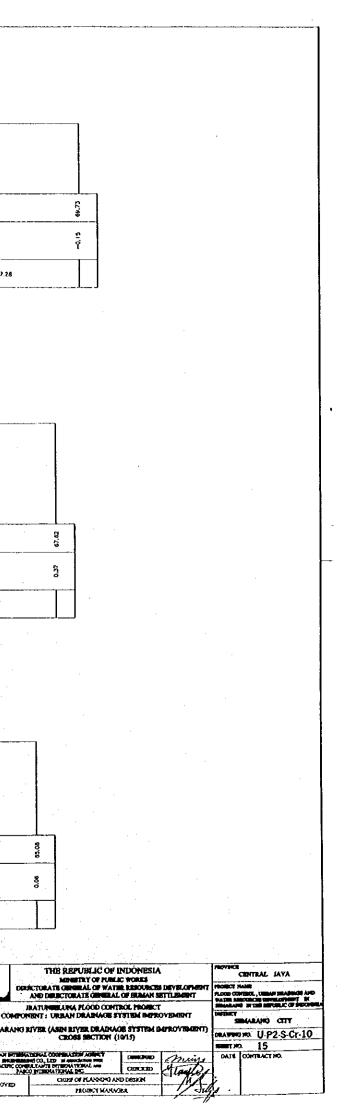
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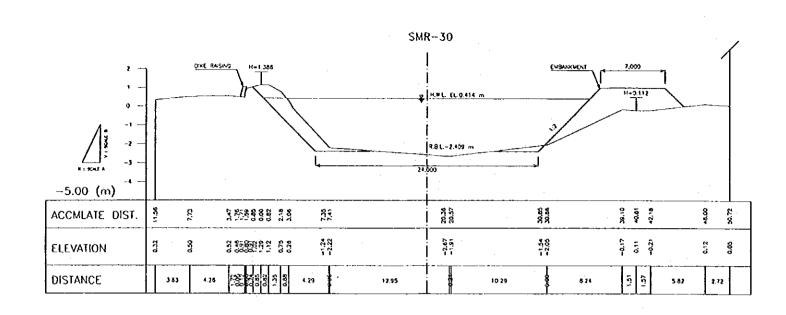
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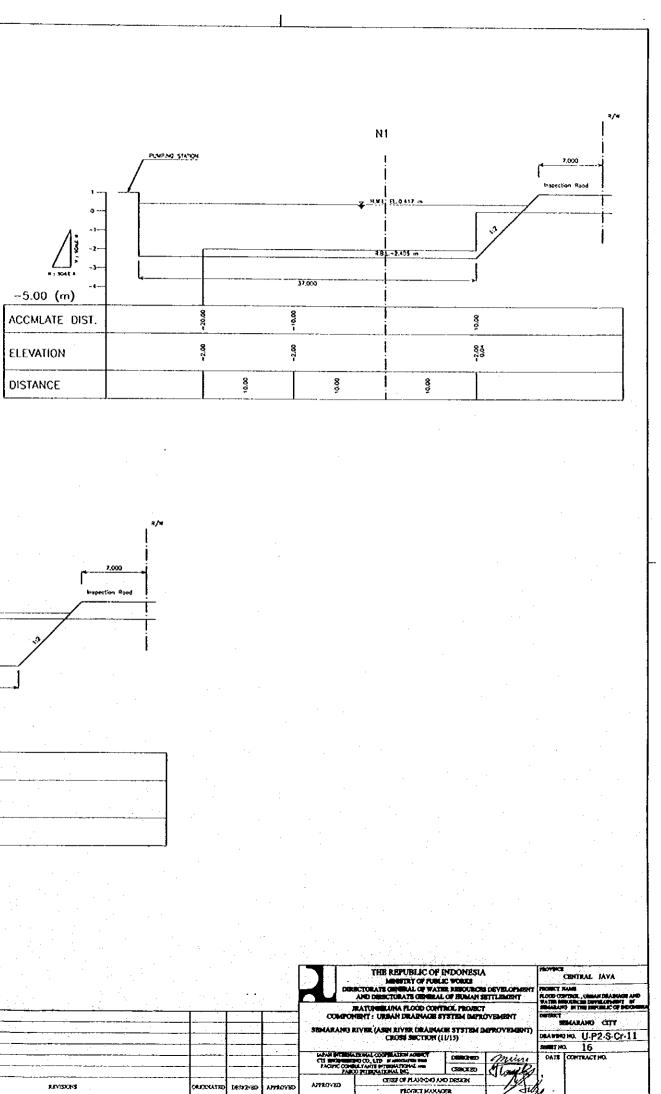
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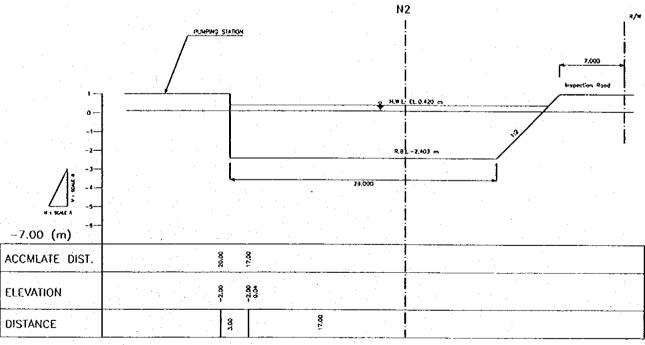
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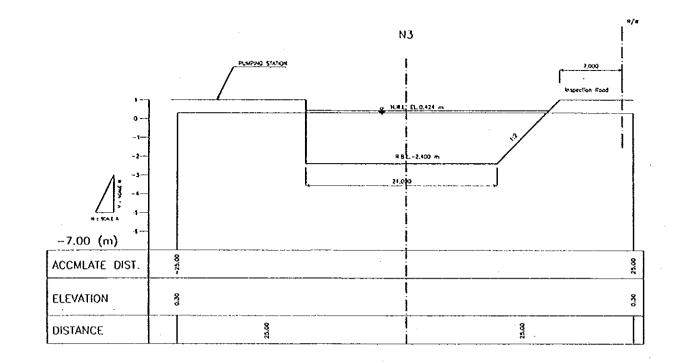
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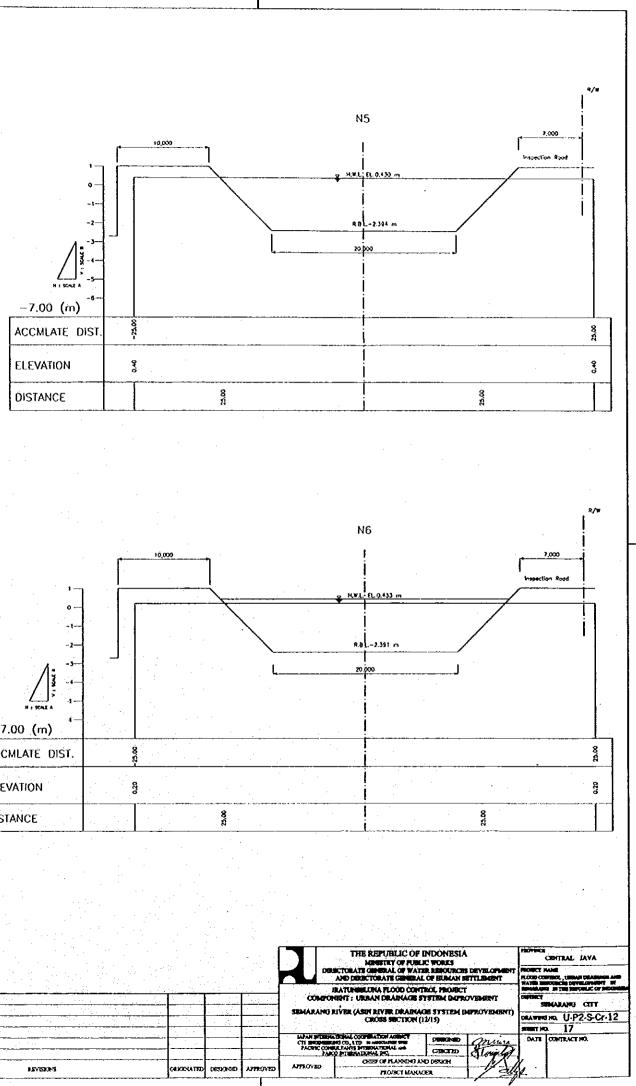
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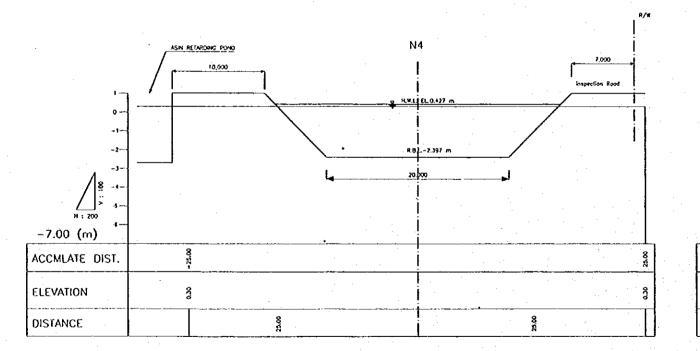
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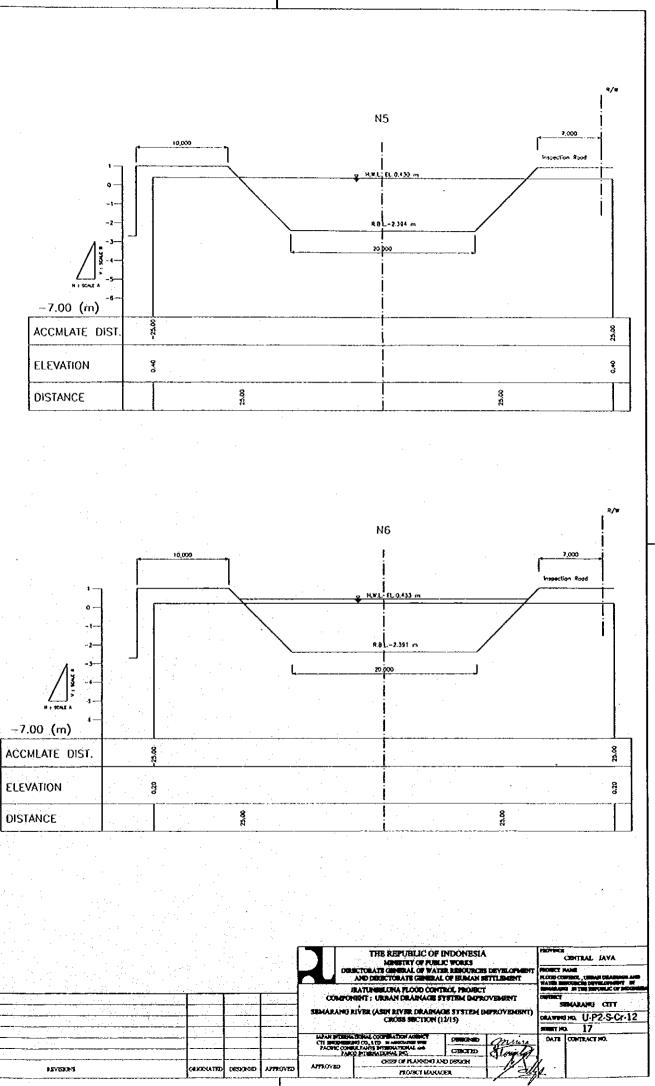
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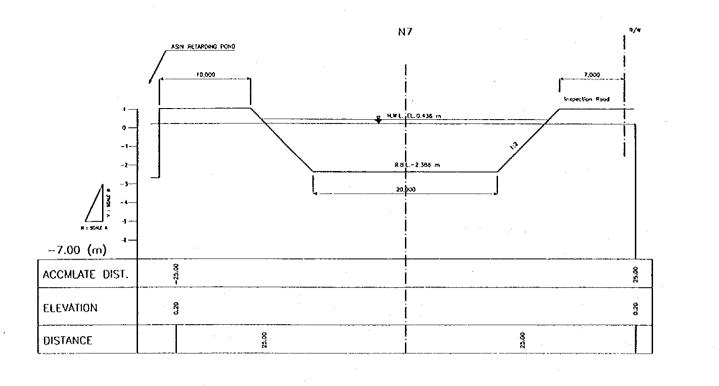


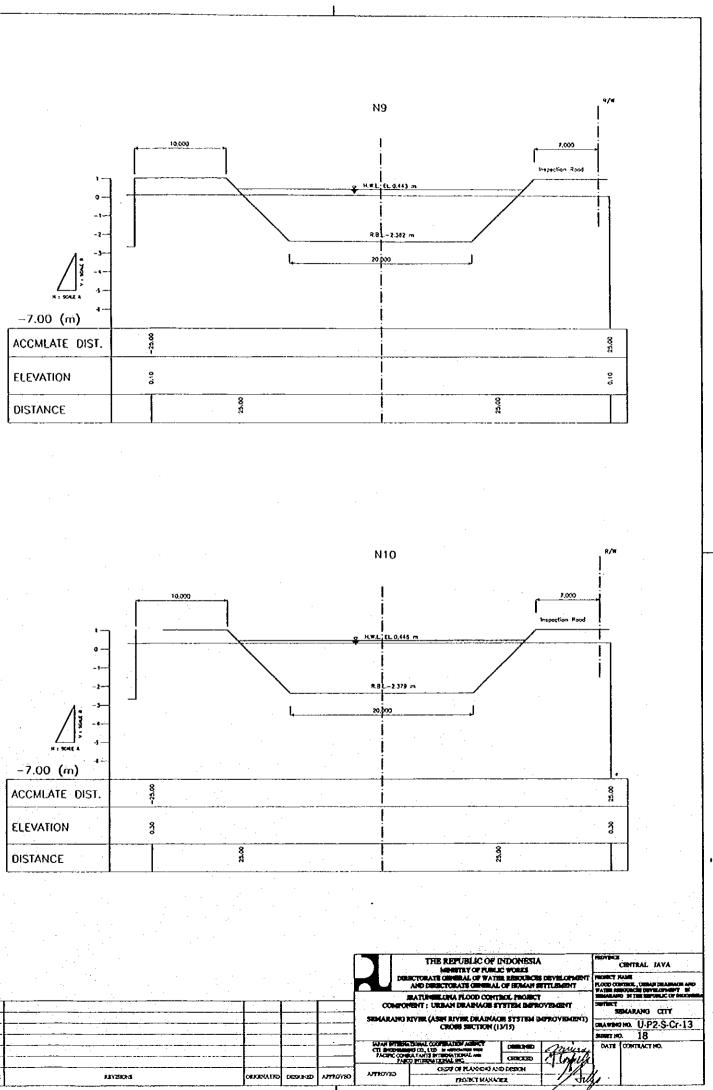


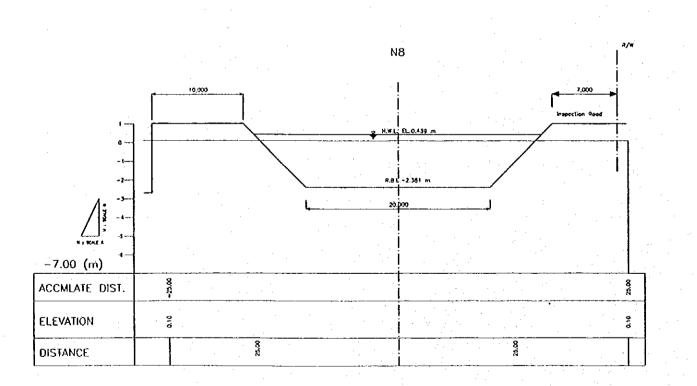


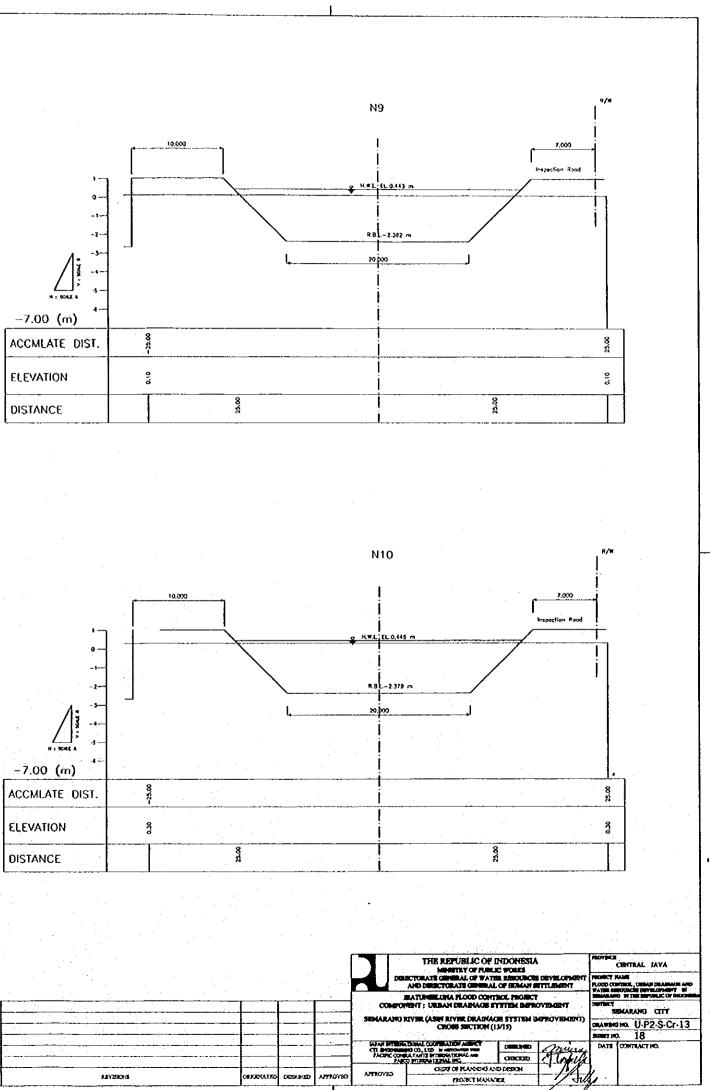


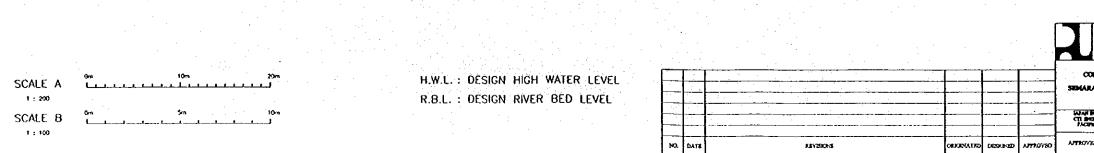
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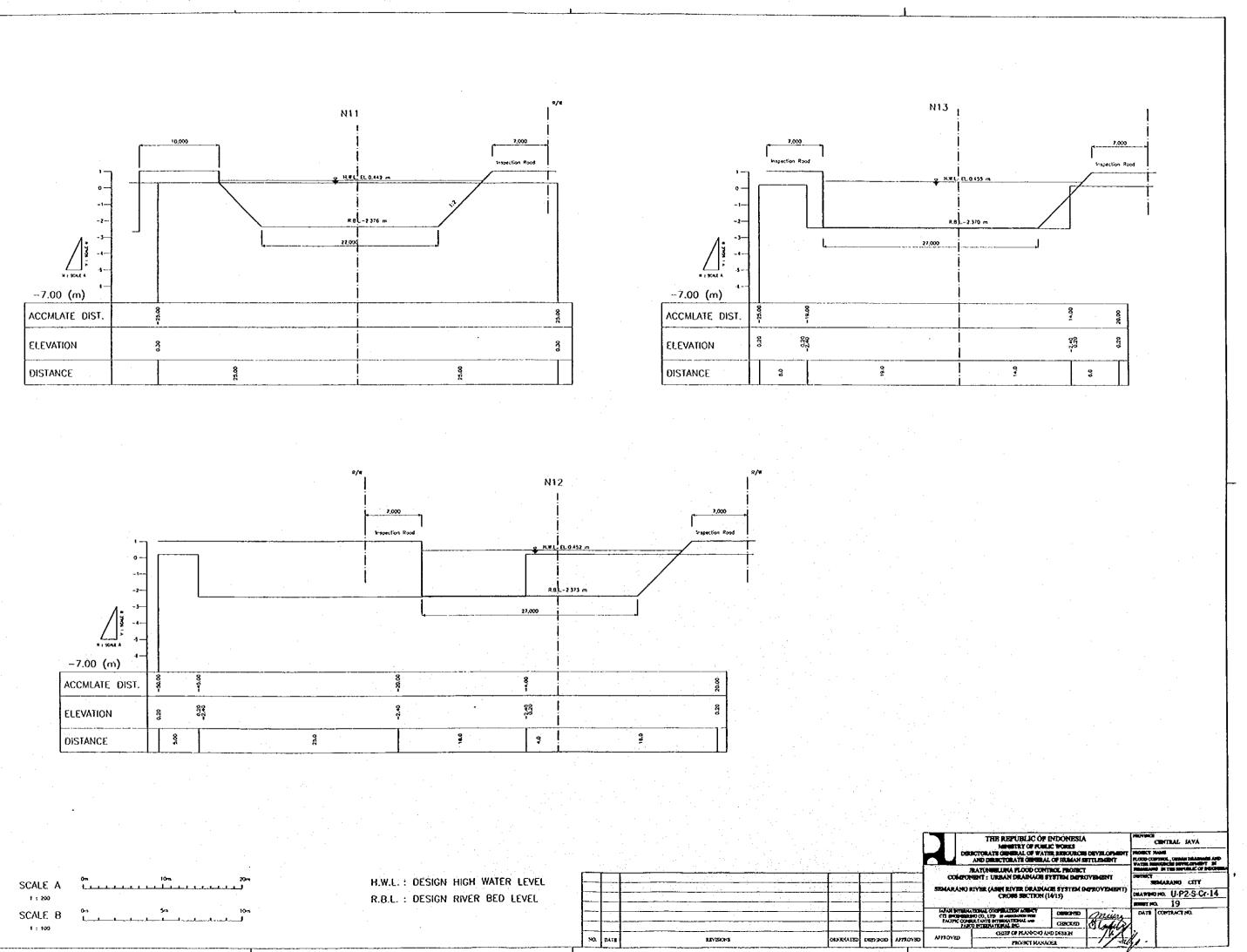




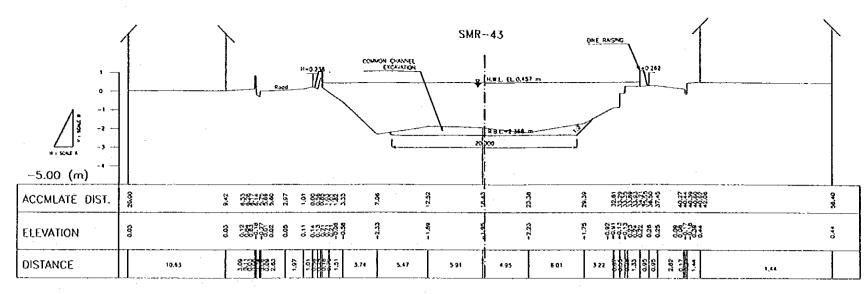


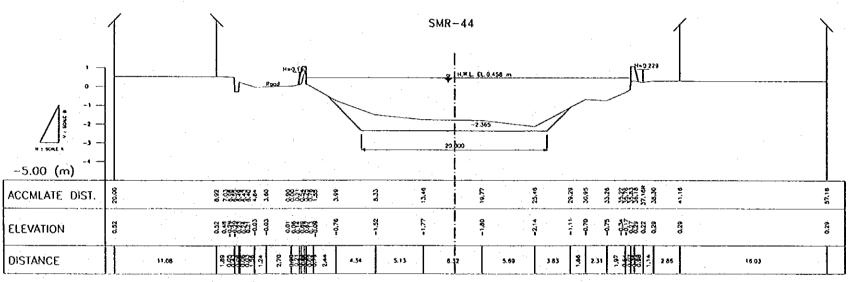


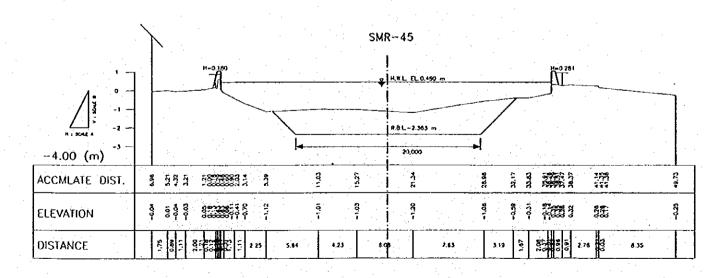




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