No. 51

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**

CTI ENGINEERING CO INTERNATIONAL., LTD.
IN ASSOCIATION WITH
PACIFIC CONSULTANTS INTERNATIONAL
AND
PASCO INTERNATIONAL INC.



SSS. JR

#### 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 1:

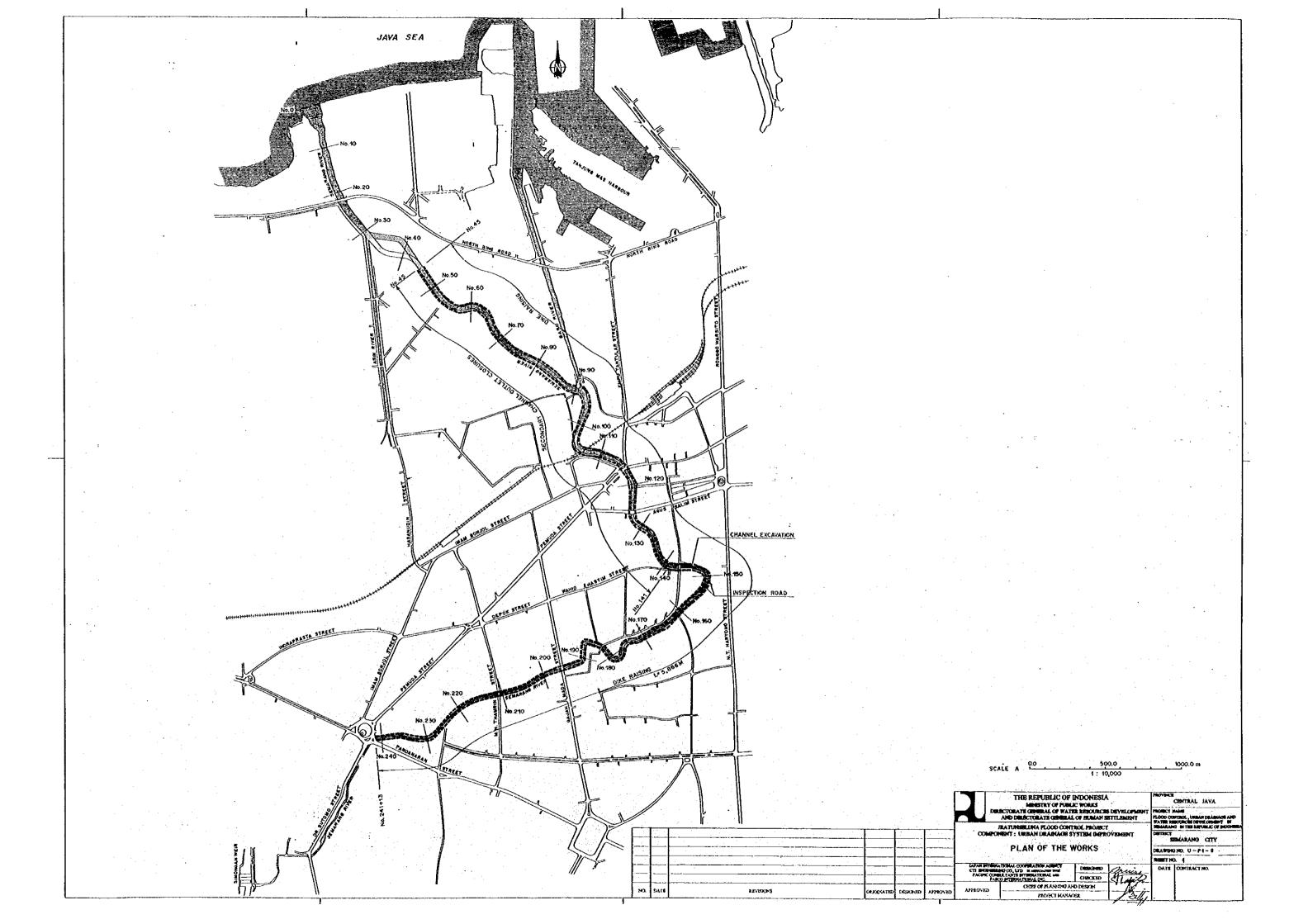
SEMARANG RIVER DRAINAGE SYSTEM IMPROVEMENT

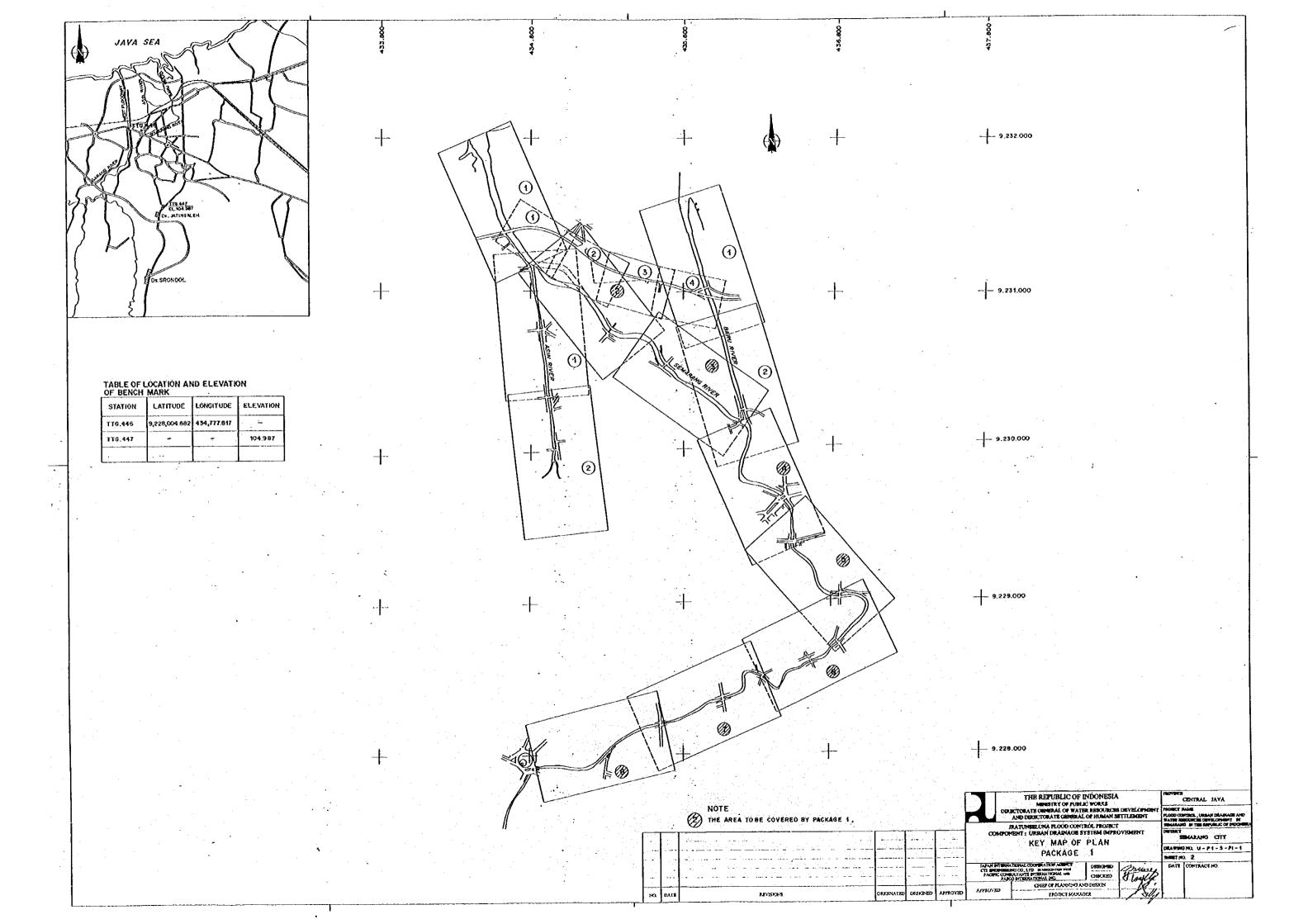
**VOLUME 3** 

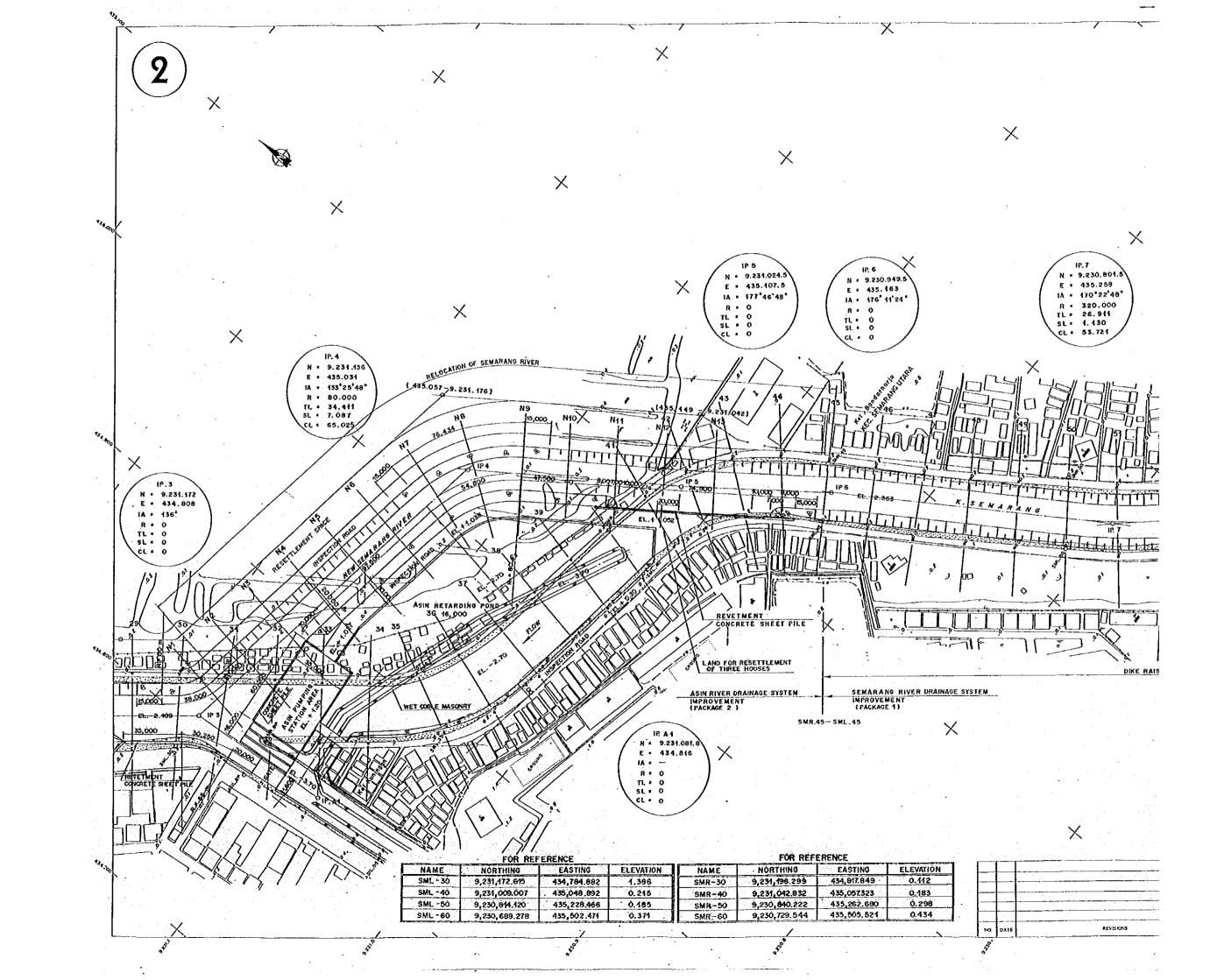
**DRAWINGS** 

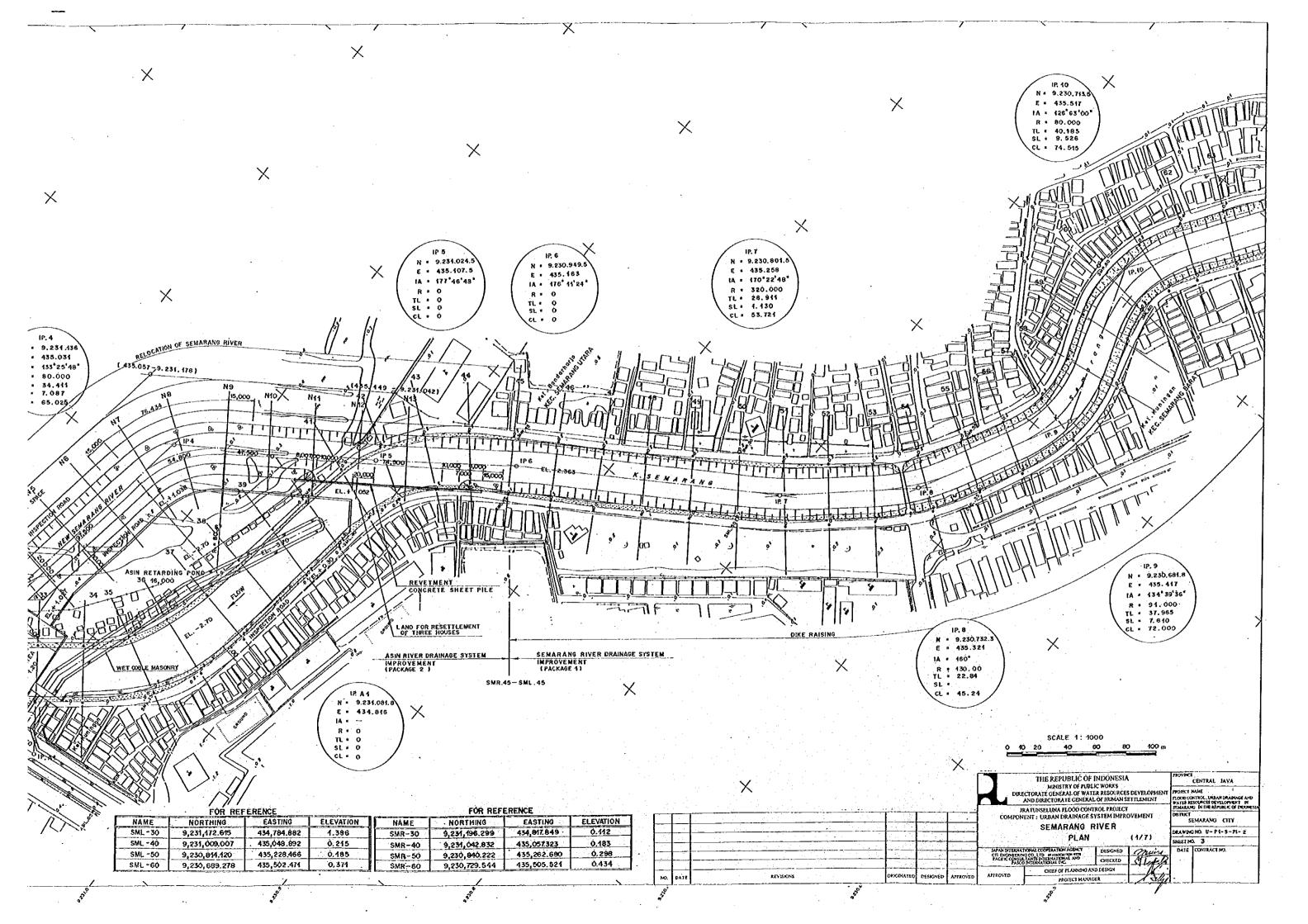
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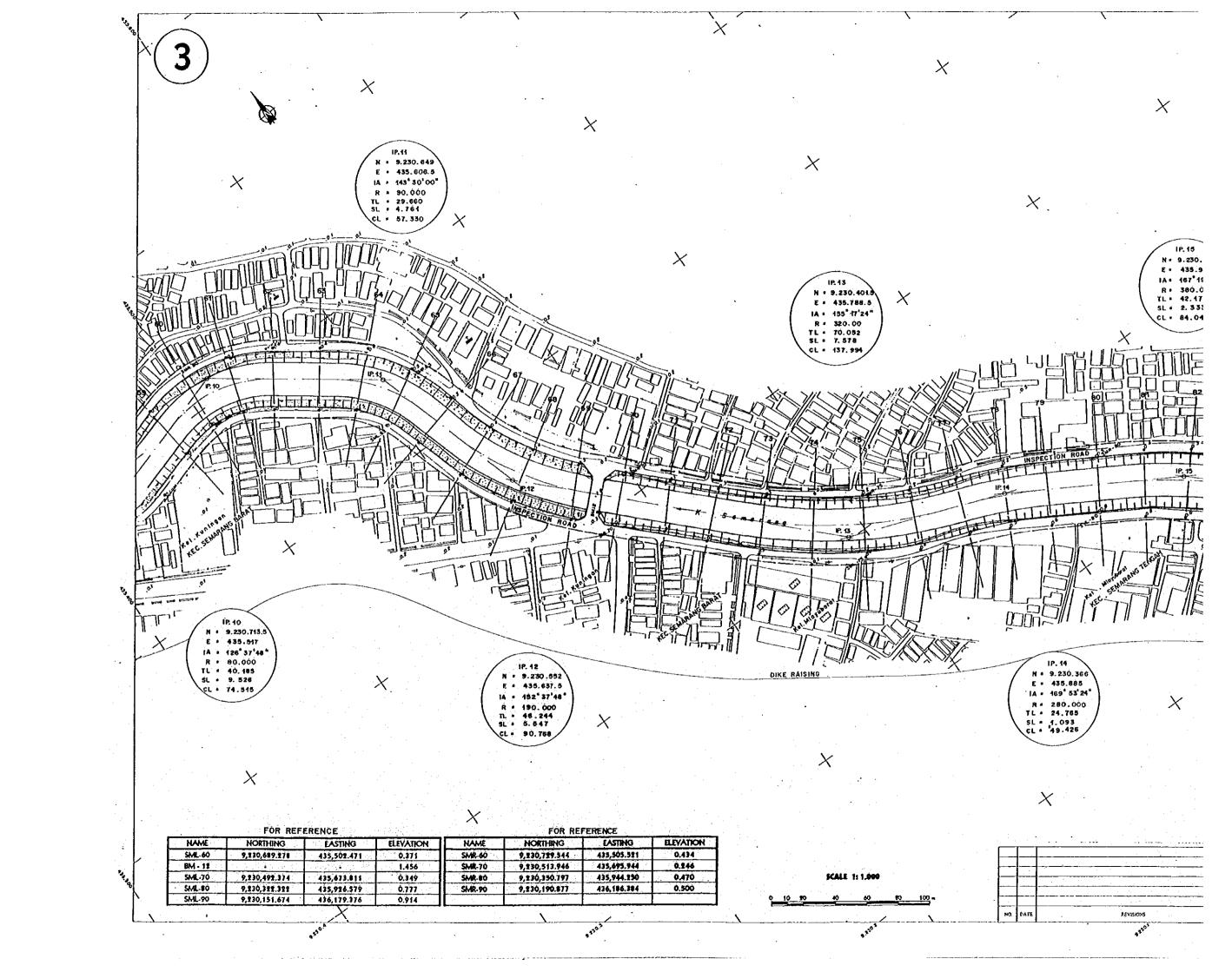
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GENERAL (O							
UPIG	PLAN OF THE WORKS						
SEMARANG RE	VER IMPROVEMENT (STATION	45-241+13)					
UP1-5-PF-1 UP1-5-PF-2	SEMARANG RIVER SEMARANG RIVER		KEY PLAN PLAN (1/7)				
UPISPIS	SEMARANG RIVER	•	PAN (2/1)		•		
UPI-SPI-E	SEMARANG RIVER		PLAN (3/7)		·		
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UP1-541-6 UP1-541-7	SEMARANG RIVER SEMARANG RIVER		PLAN (5/7) PLAN (6/7)				
UP1-5-P1-8	SEMARANG KIVER		PLAN (7/7)	•			
UPISION	SEMARANG RIVER		LONGINDRAL PROFILE (1/3)		.=.=		
UPISLO2 UPISLO3	SEMARANG RIVER SEMARANG SIVER		LONGITUONAL PROFLE (2/3) LONGITUONAL PROFLE (3/3)			•	
UP15O-1	SEMARANG RIVER		CROSS SECTION (1/36)				
UP1-\$-CI-2	SEMARANG RIVER		CROSS SECTION (2/36)				4
UP15-Cr-3 UP15-Cr-4	SEMARANG RIVER SEMARANG RIVER		CROSS SECTION (3/36) CROSS SECTION (4/36)				
UPISCIS	SEMARANG RIVER		CROSS SECTION (\$7%)				
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UP1-5-Cr-8	SEMARANG REVER SEMARANG REVER		CROSS SÉCTION (7/36)				
UPISOR	SEMARÁNG RIVER		CROSS SECTION (1/16)  CROSS SECTION (1/16)				
UP1-\$ Cr-10	SEMARANG REVER		CRÓSS SECTION (10/36)				
UP15G-11	SEMARANG RIVER		CROSS SECTION (11/36)				
UP15-CI-12 UP15-CI-13	SEMARANG RIVER SEMARANG RIVER		CROSS SECTION (12/36) CROSS SECTION (13/36)				0
UP15-Ct-14	SEMARANG RIVER		CROSS SECTION (14/36)				
UPI-S-CI-15	SEMARANG RIVER		CRÓSS SECTIÓN (15/36)	•	*	•	
UP1-5-C2-16 UP1-5-C2-17	SEMARANG RIVER SEMARANG RIVER		CROSS SECTION (16/36)				
UP1-5-C-18	SEMARANG RIVER	•	CROSS SECTION (17/36) CROSS SECTION (18/36)		•		
UP1-5-Cr-19	SEMARANG RIVER		CROSS SÉCTION (19/36)				
UP1-5-Cr-20	SEMARANG RIVER	•	CROSS SECTION (20/36)				
UP1-5-C2-21 UP1-5-C2-22	SEMARANG RIVER SEMARANG RIVER		CRÓSS SECTIÓN (21/36) CRÓSS SECTIÓN (22/36)				•
UP1-5-C1-23	SEMARANG RIVER		CROSS SECTION (23/36)				
UP1-5-CF-24	SEMARANG RIVER		CROSS SECTION (24/36)				
UP1-5-C7-25 UP1-5-C7-26	SEMARANG RIVER SEMARANG RIVER		CROSS SECTION (25/36) CROSS SECTION (26/36)				
UP1-5-C2-27	SEMARANG RIVER		CROSS SECTION (27/36)				
UP1-5-Cr-28	SÉMAŘANG RIVER	· · · · · · · · · · · · · · · · · · ·	CROSS SECTION (28/36)				
UP15C-29	SEMARANG RIVER		CROSS SECTION (29/36)		And the second second		
UPISO31	SEMARANG RIVER SEMARANG RIVER		CROSS SECTION (30/36) CROSS SECTION (31/36)				•
UP1-5-C1-32	SEMARANG RIVER		CROSS SECTION (32/36)				
UPI 5 C- 33	SWARANG EVER		CROSS SECTION (33/36)	,			·
UP15-0:35 UP15-0:35	SEMARANG GIVER SEMARANG RIVER		CROSS SECTION (34/36) CROSS SECTION (35/36)				
UP15-0-38	SEMARANG RIVER		CROSS SECTION (36/36)				
UPI-SAV-1	SEMARANG RIVER	, •	DETAILS OF DIKE RASING				
UPI-SPG-I UPI-SM-1	SEMARANG RIVER (MSCELLANEOUS)		NSPECTION ROAD				
	SEMARANG BIVER		SECONDARY CHANNEL OUTLET CLÓSLIFES				
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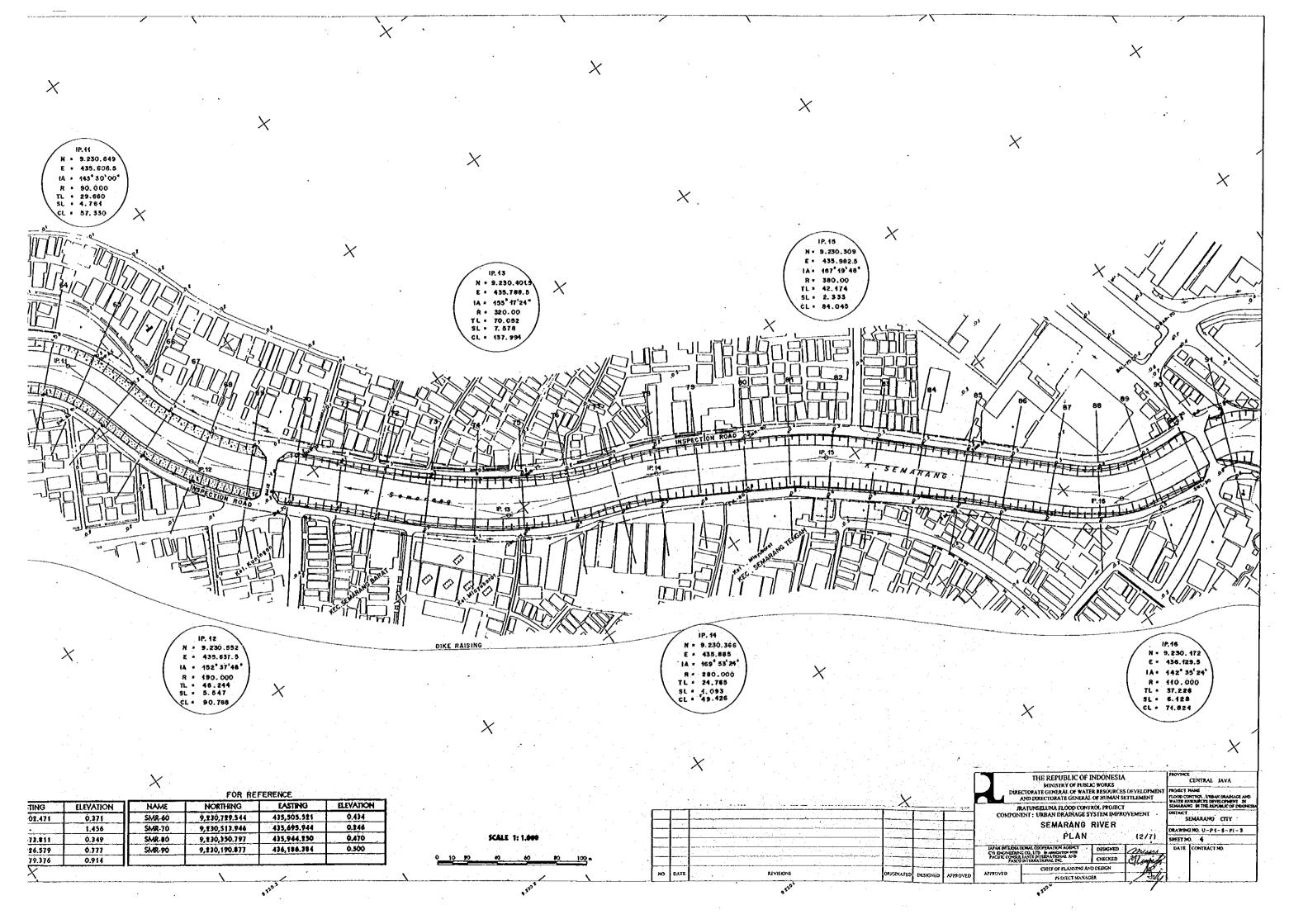


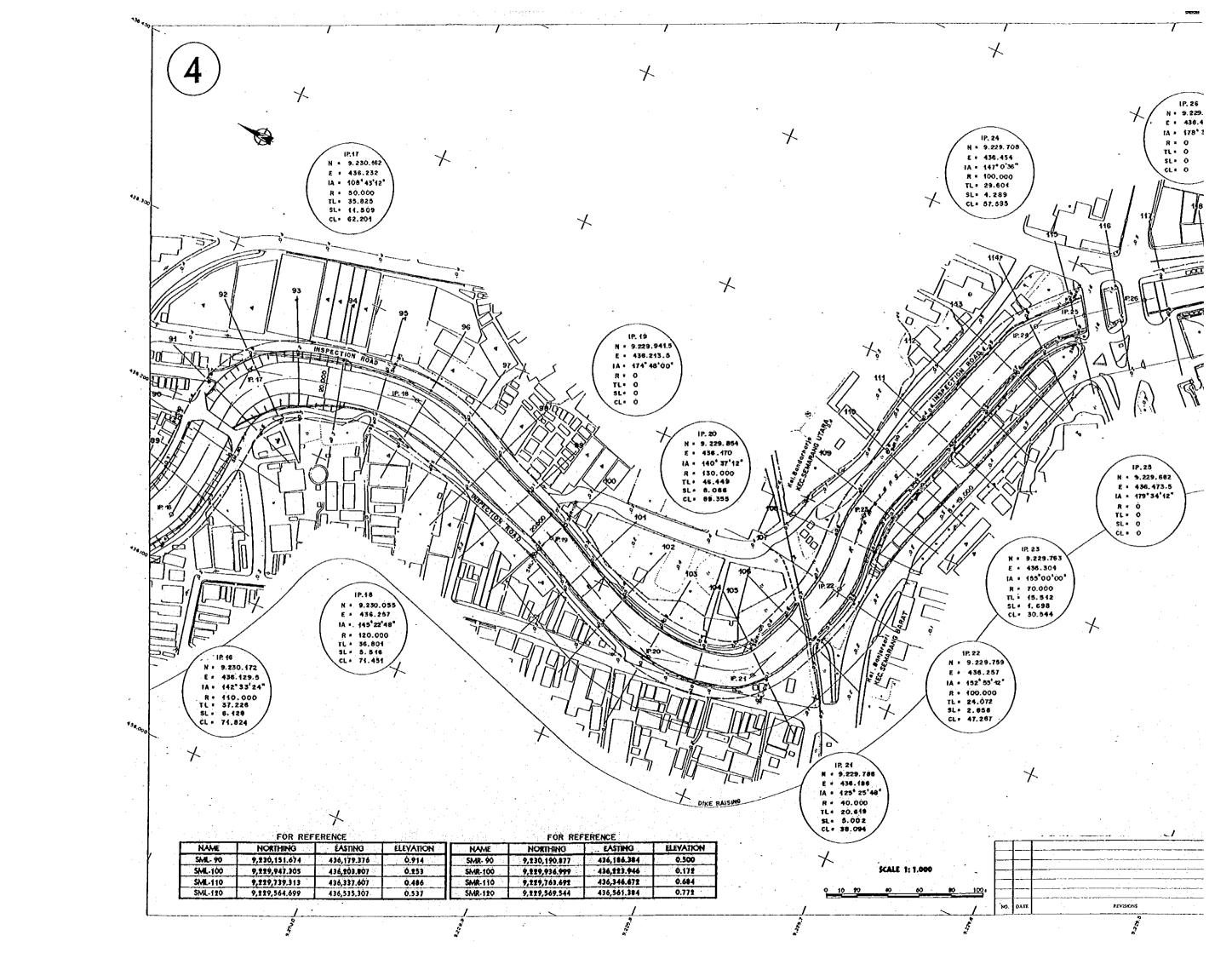


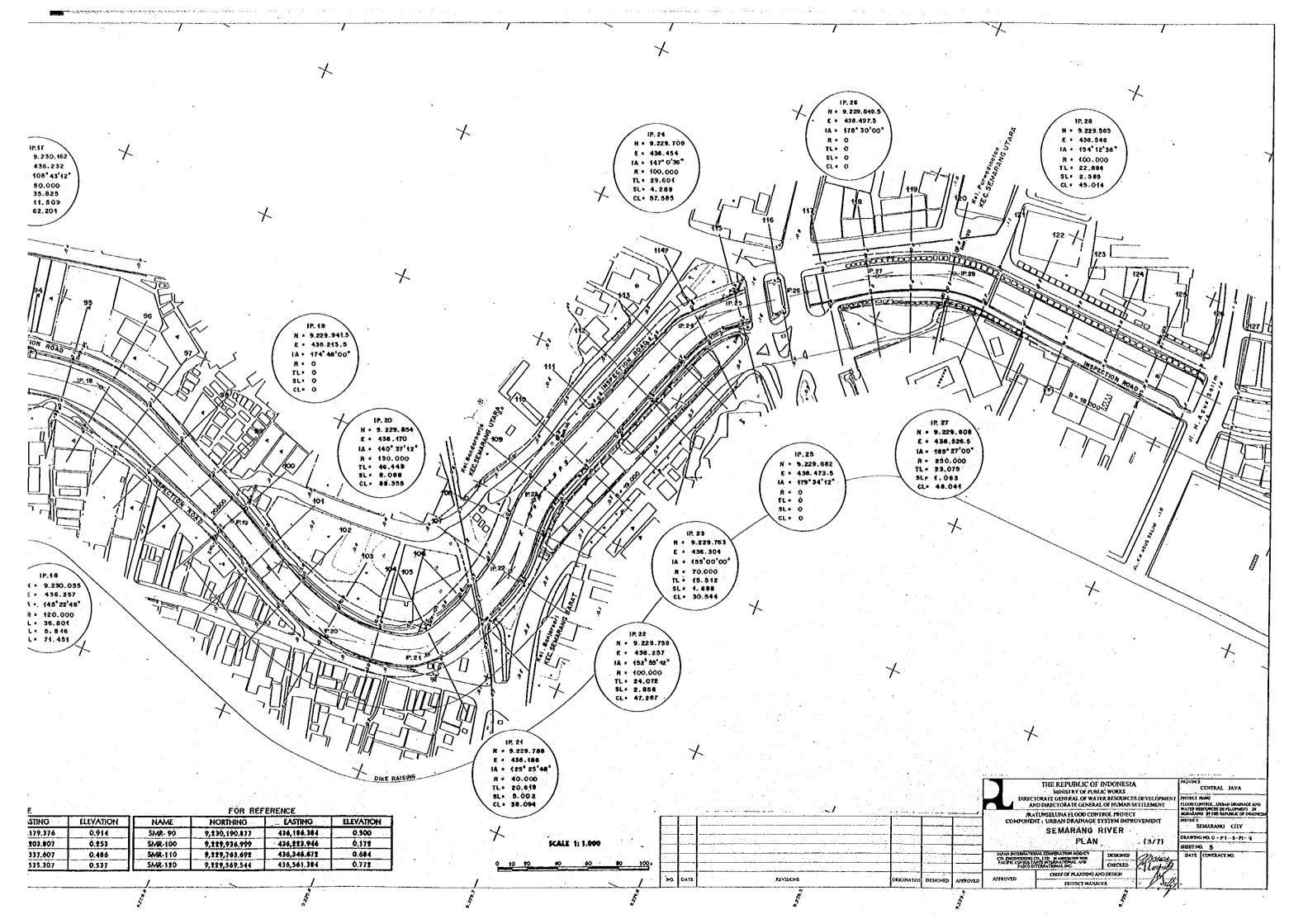


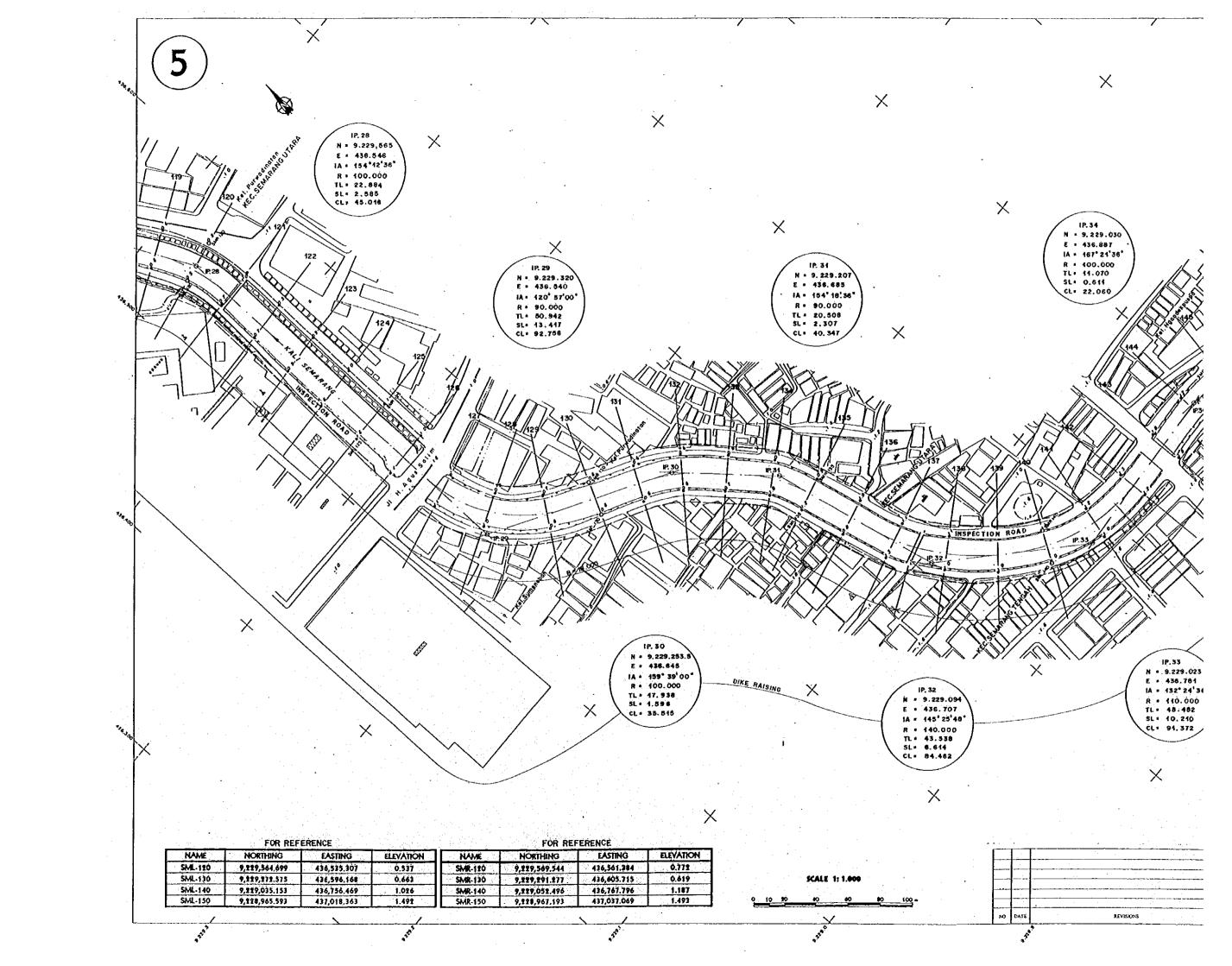


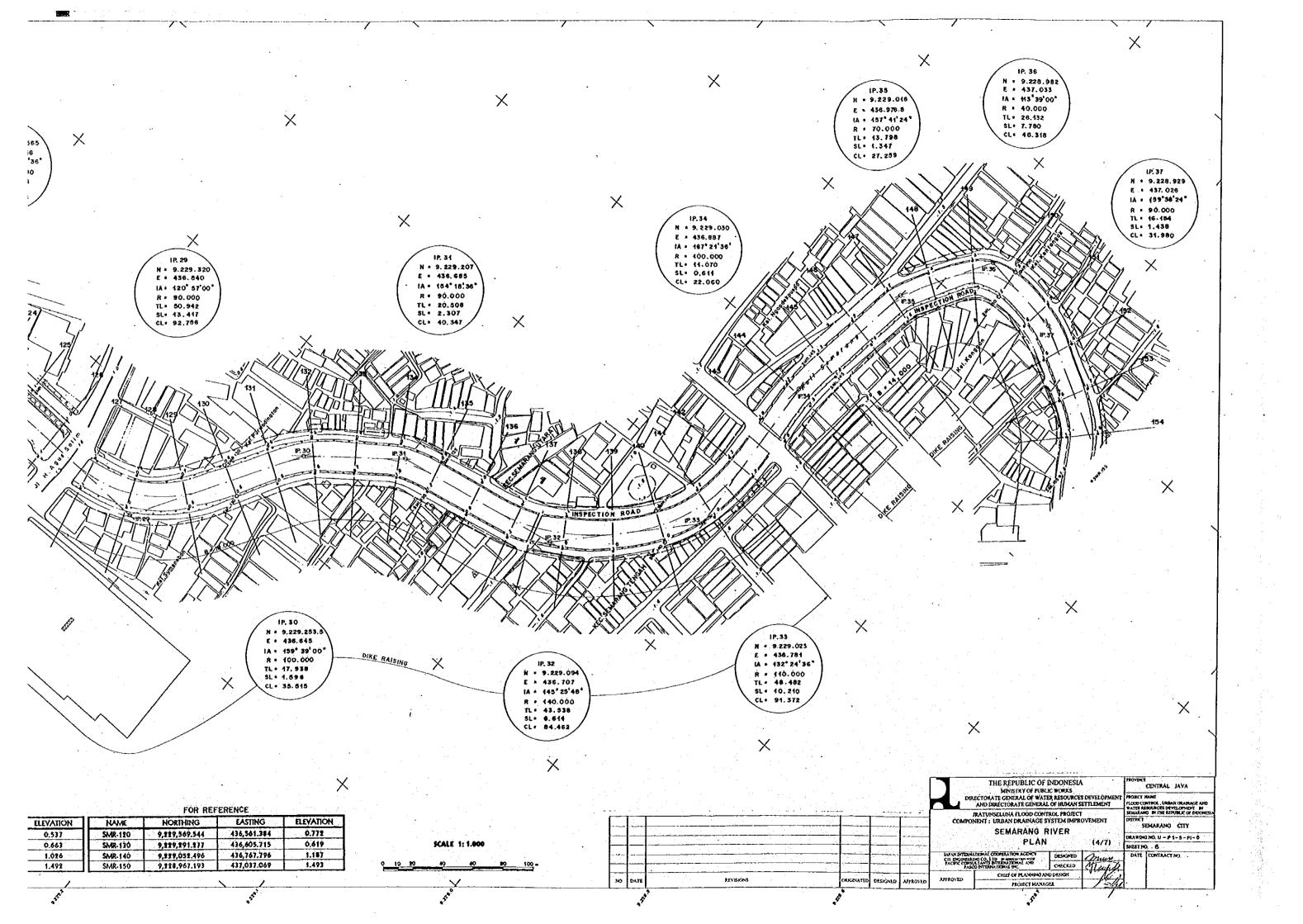


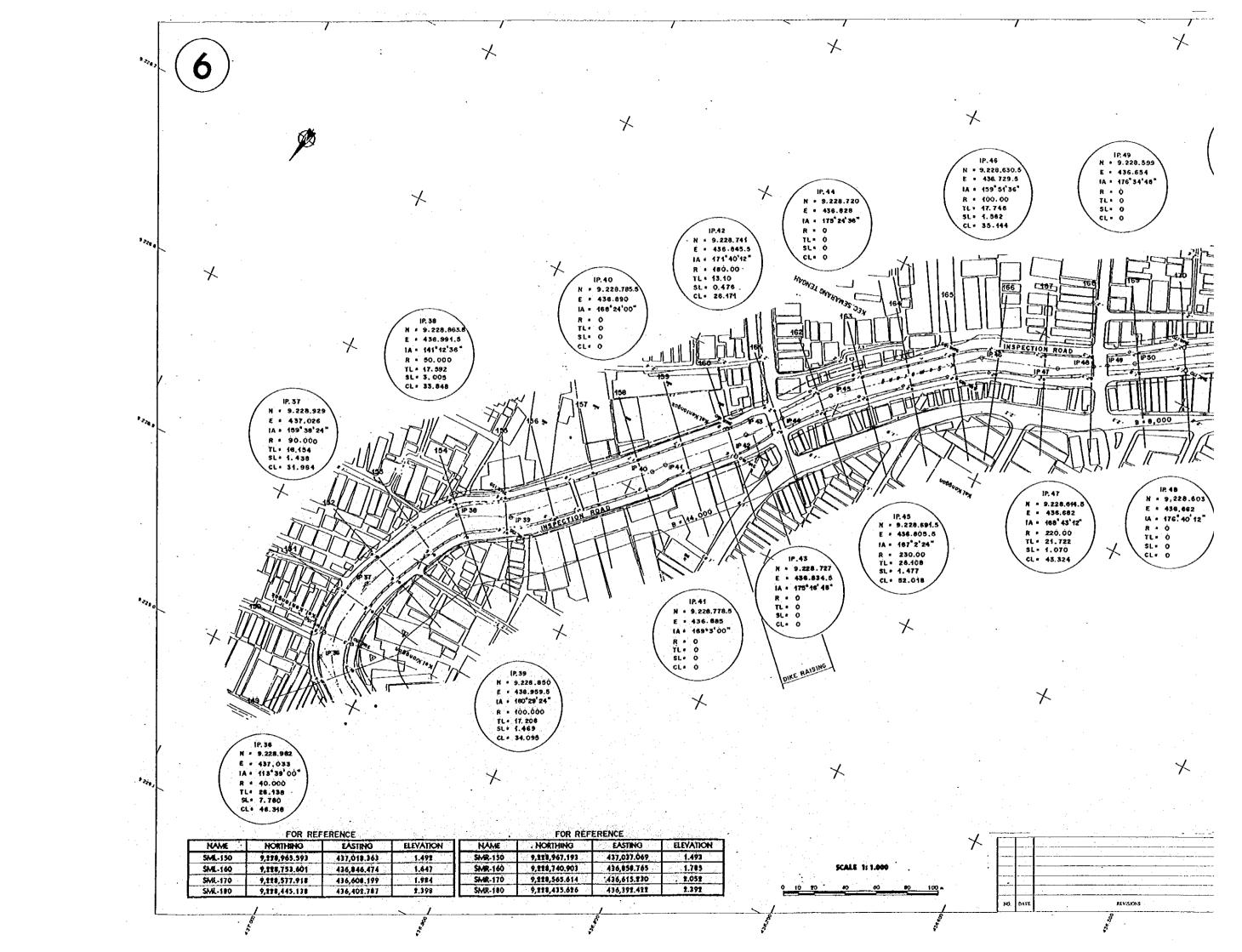


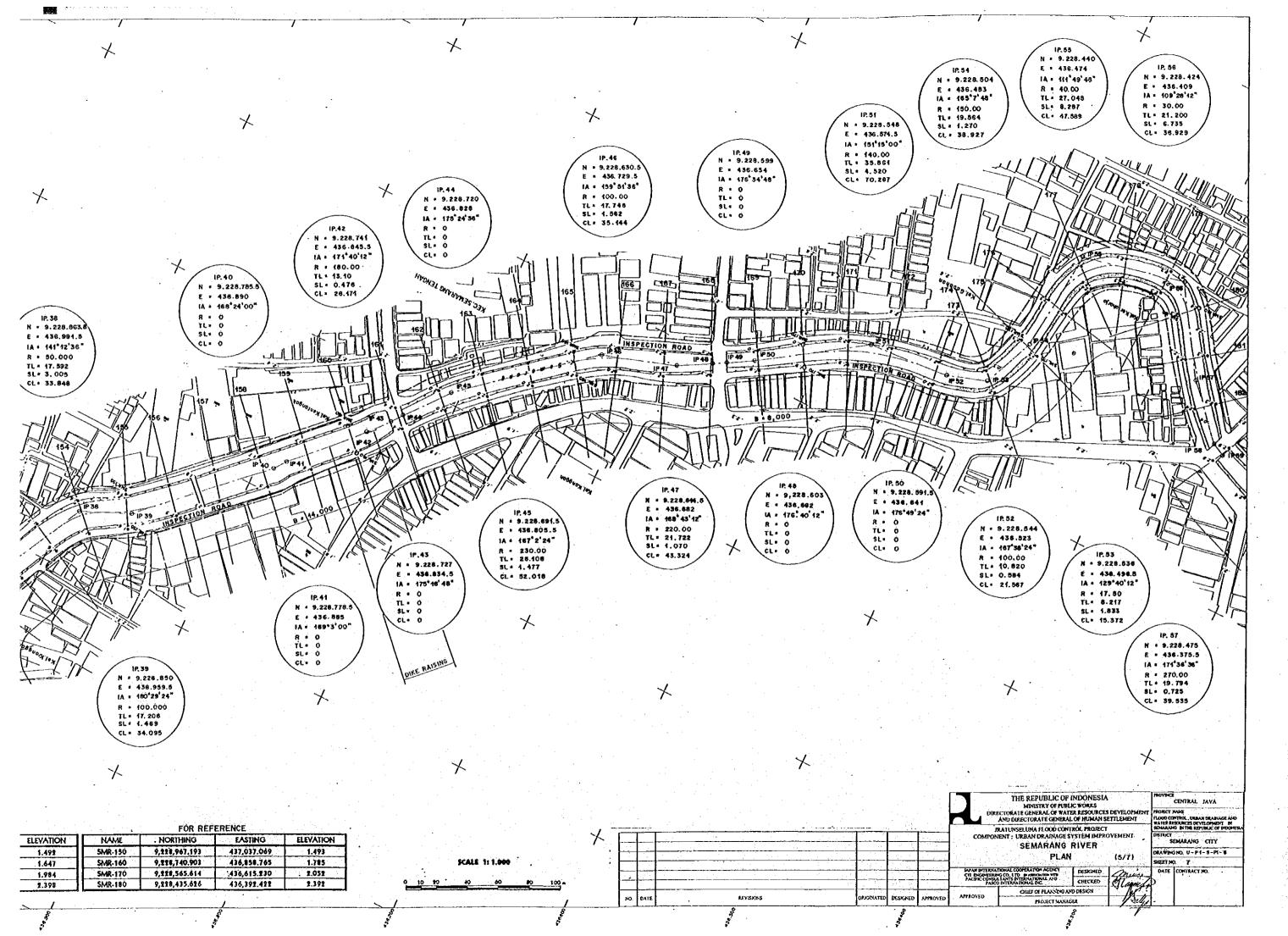


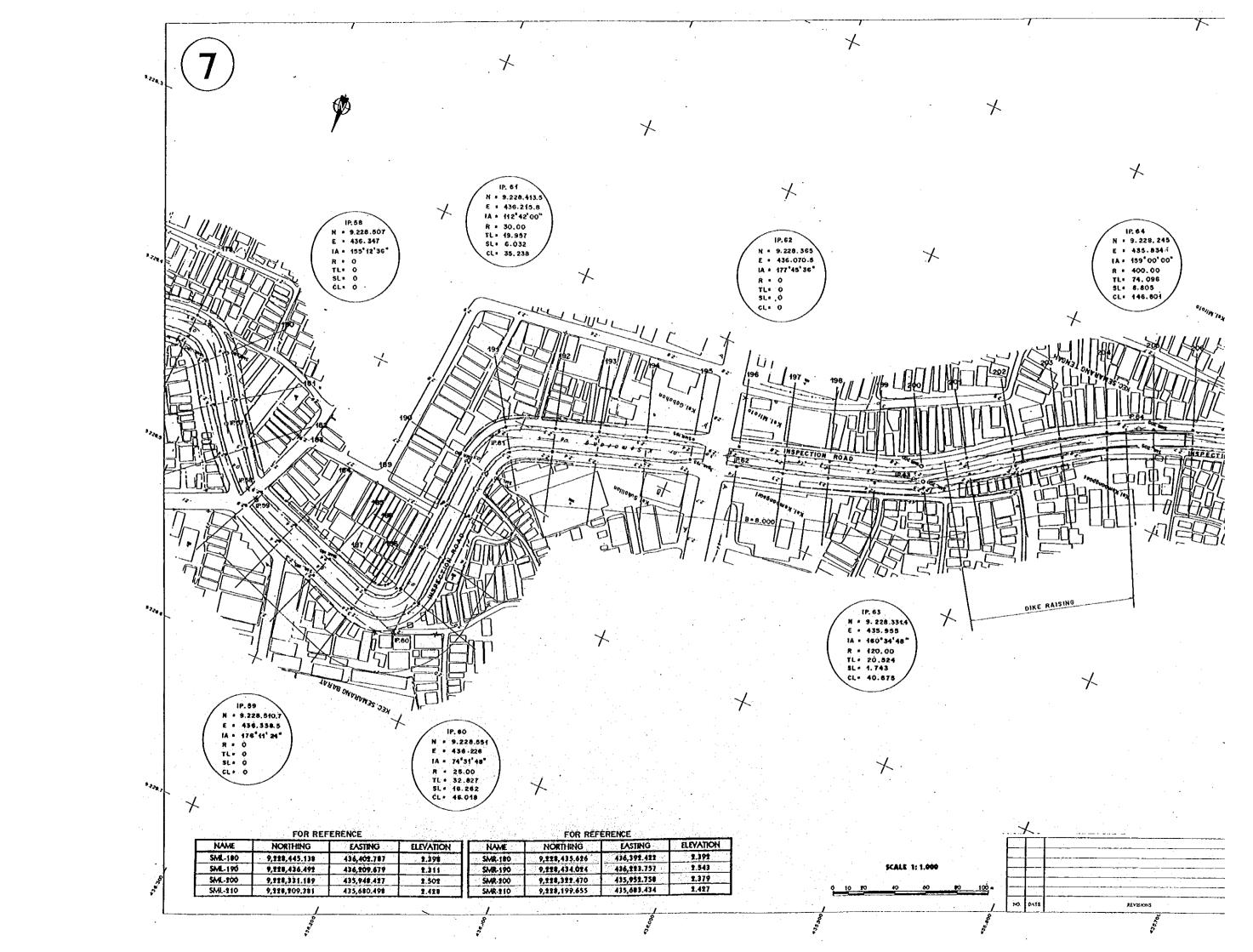


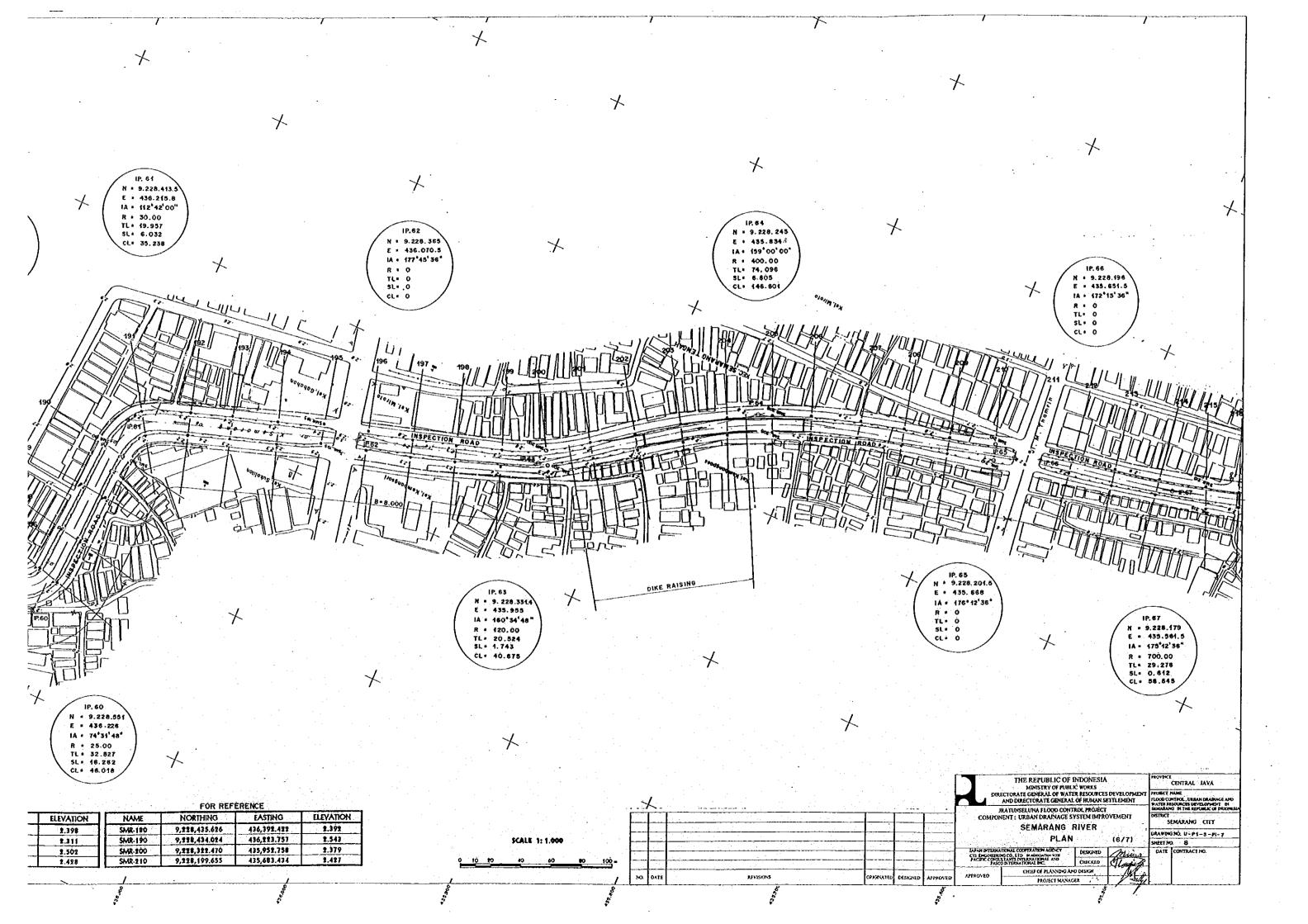


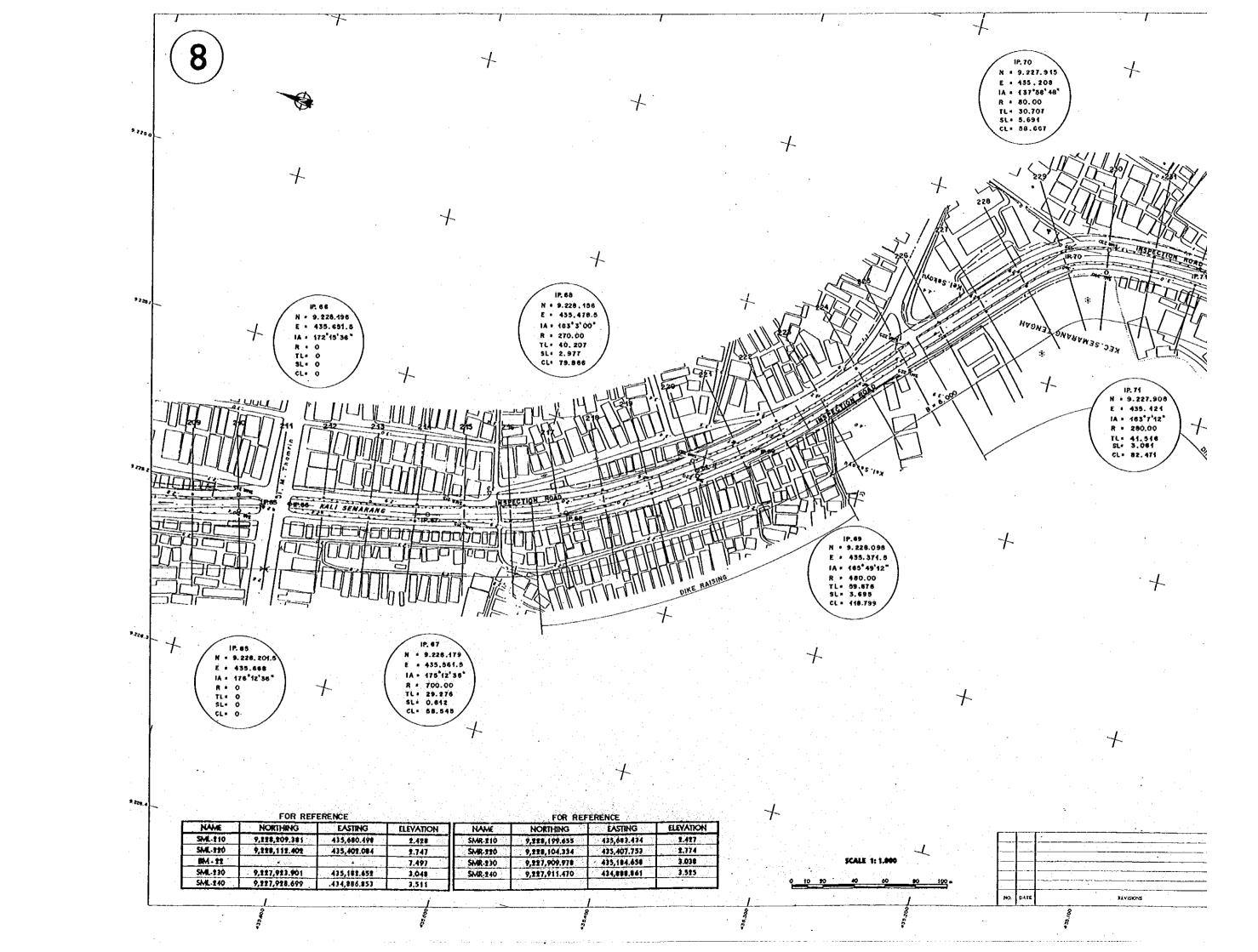


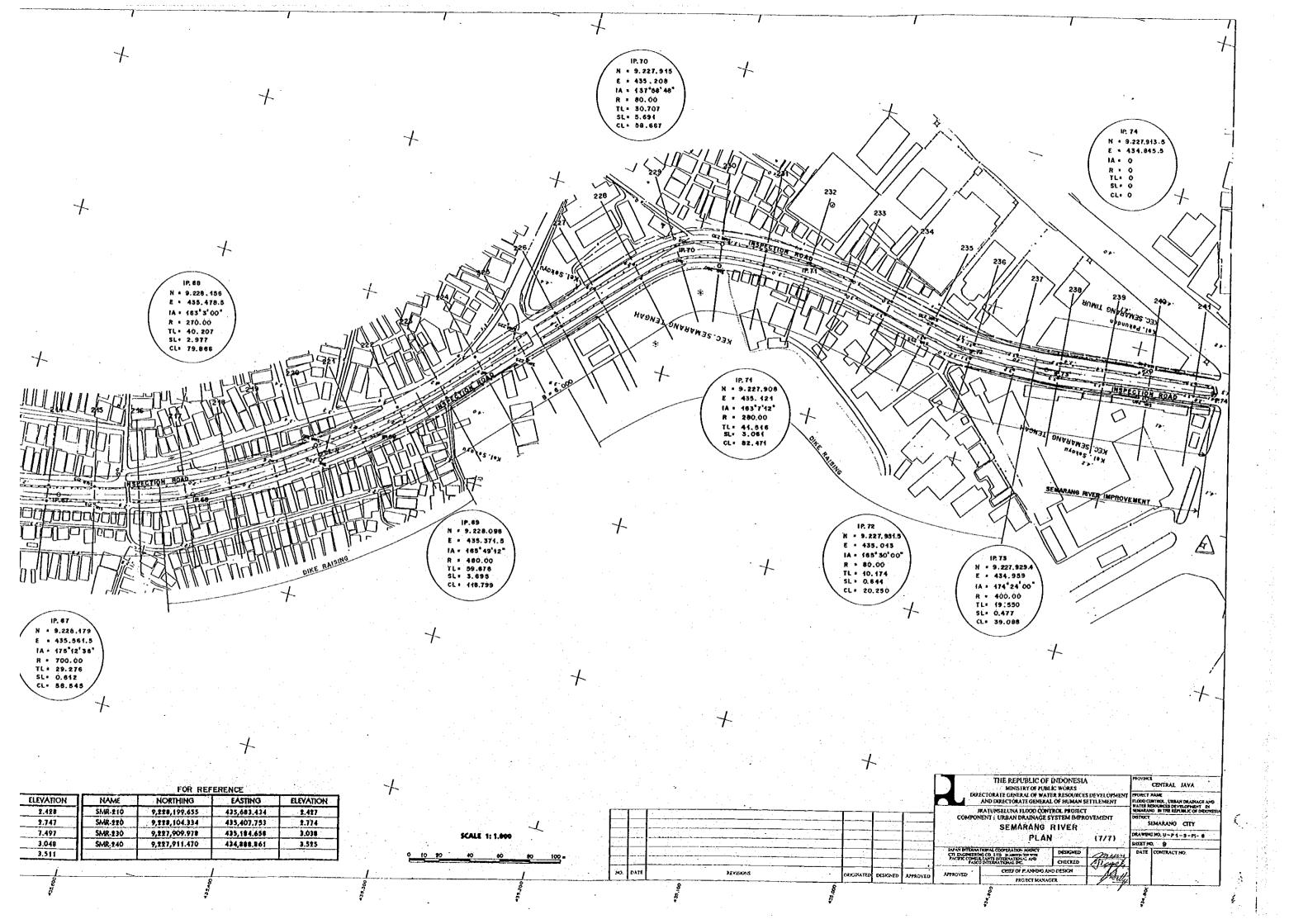


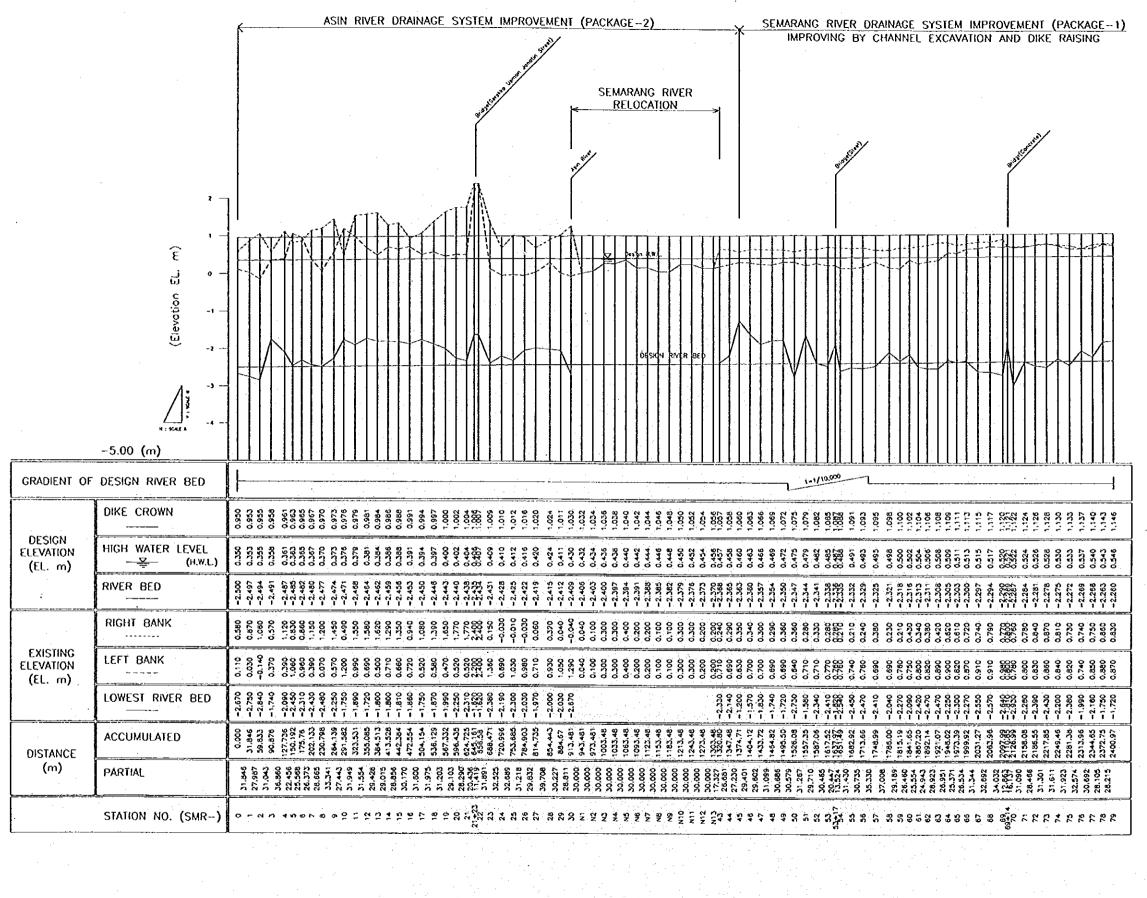












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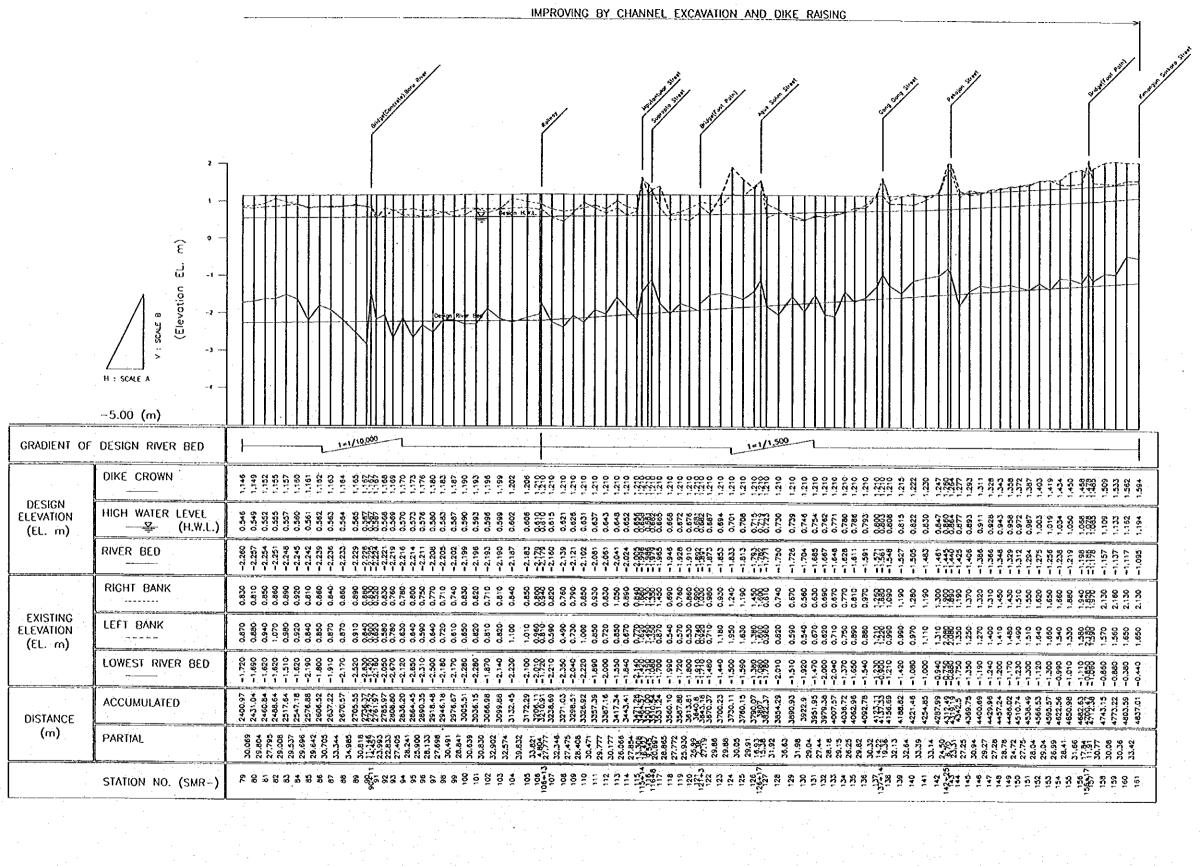
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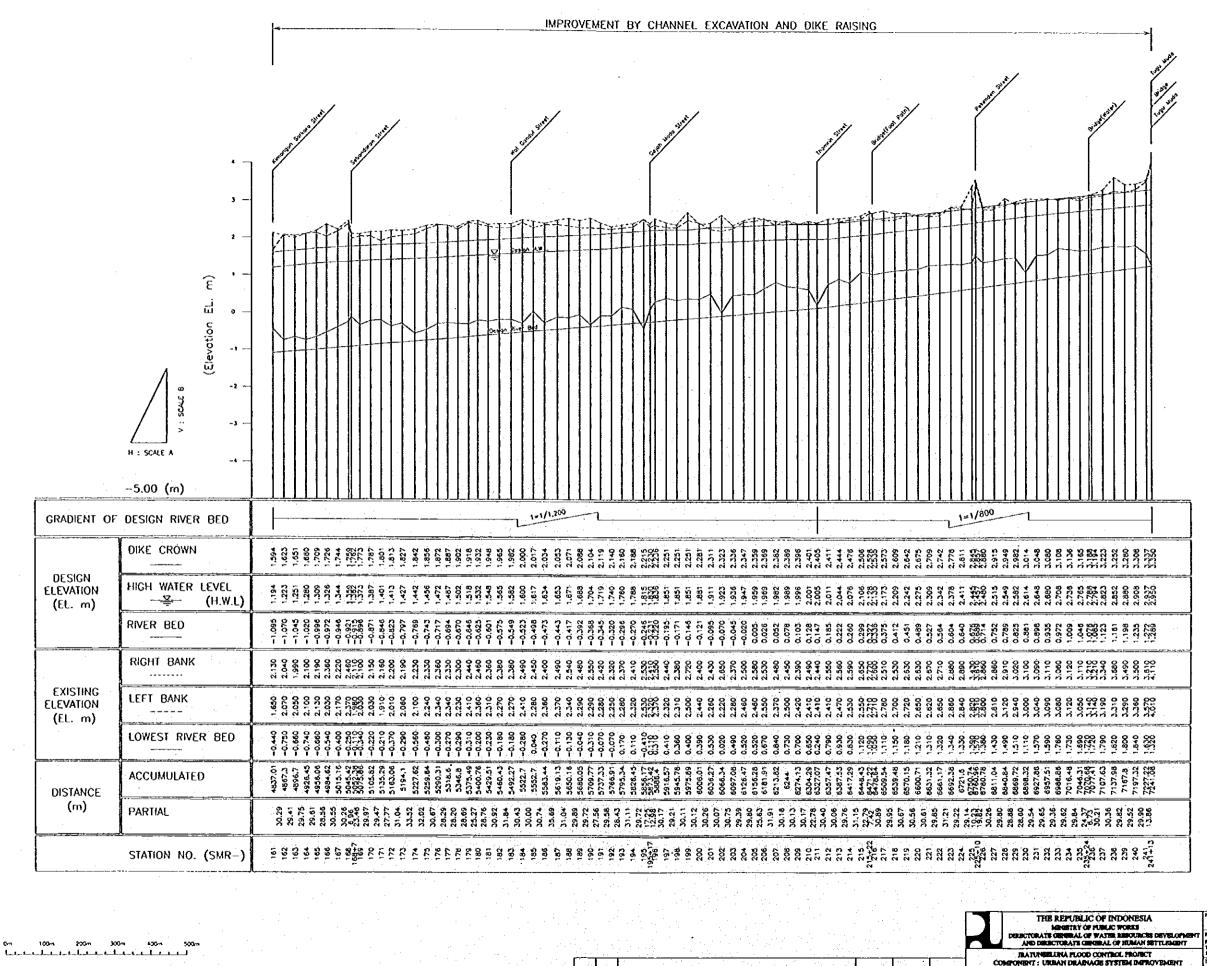
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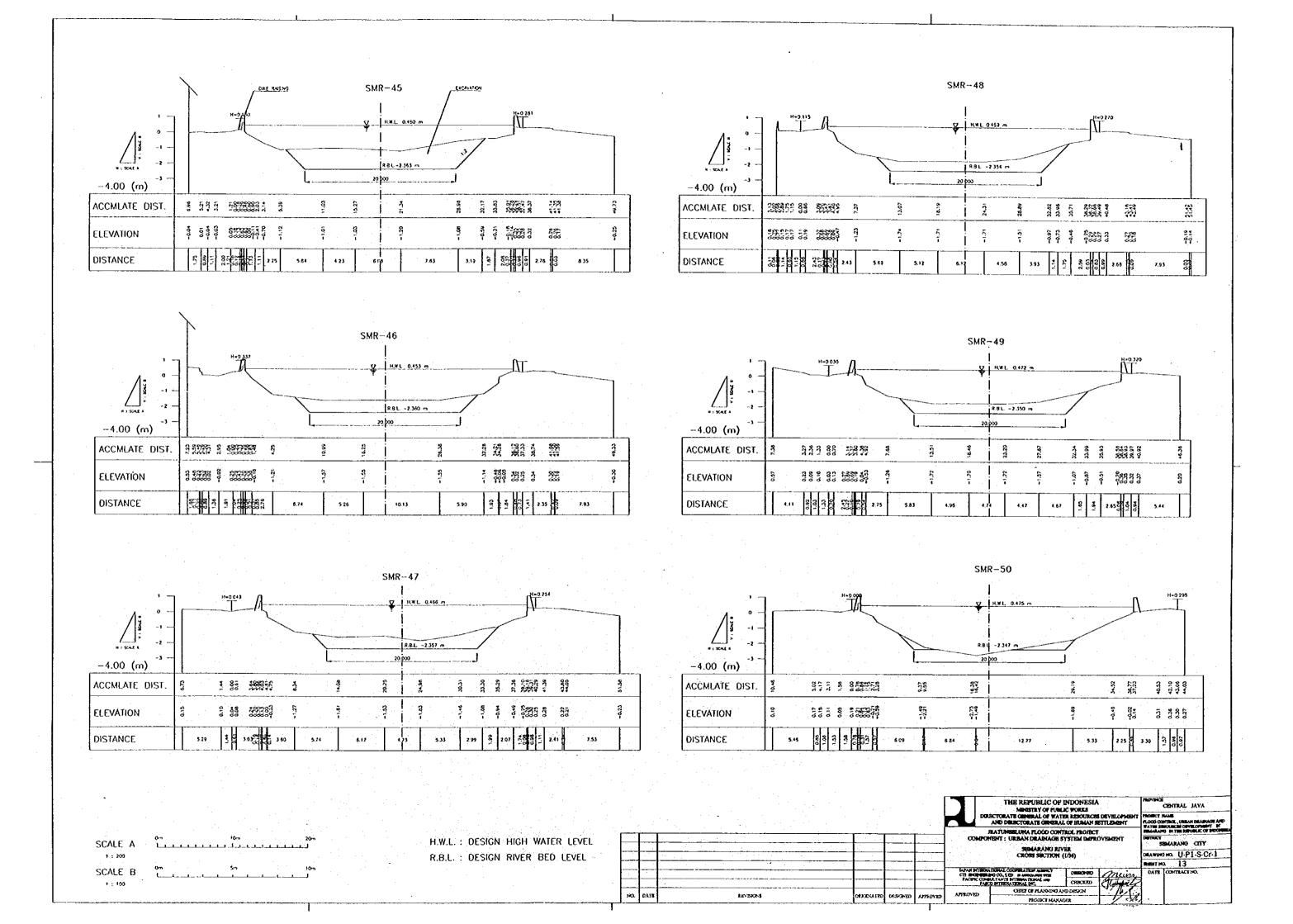
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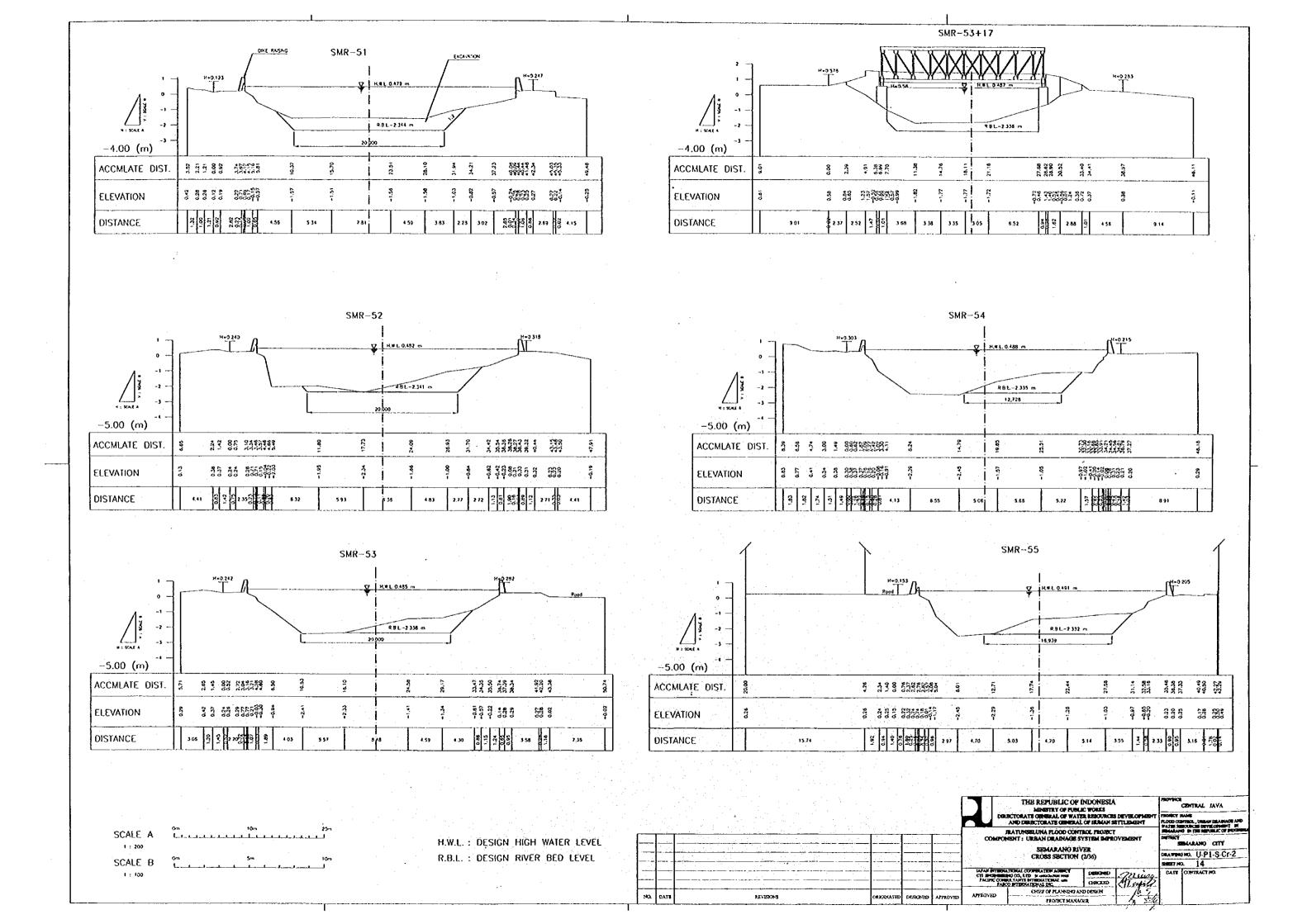
DIATUNGELINA PLOOD CONTROL PROJECT COMPONENT: UNBAN DRAINAGE SYSTEM IMPROVEMENT SEMARANG RIVER

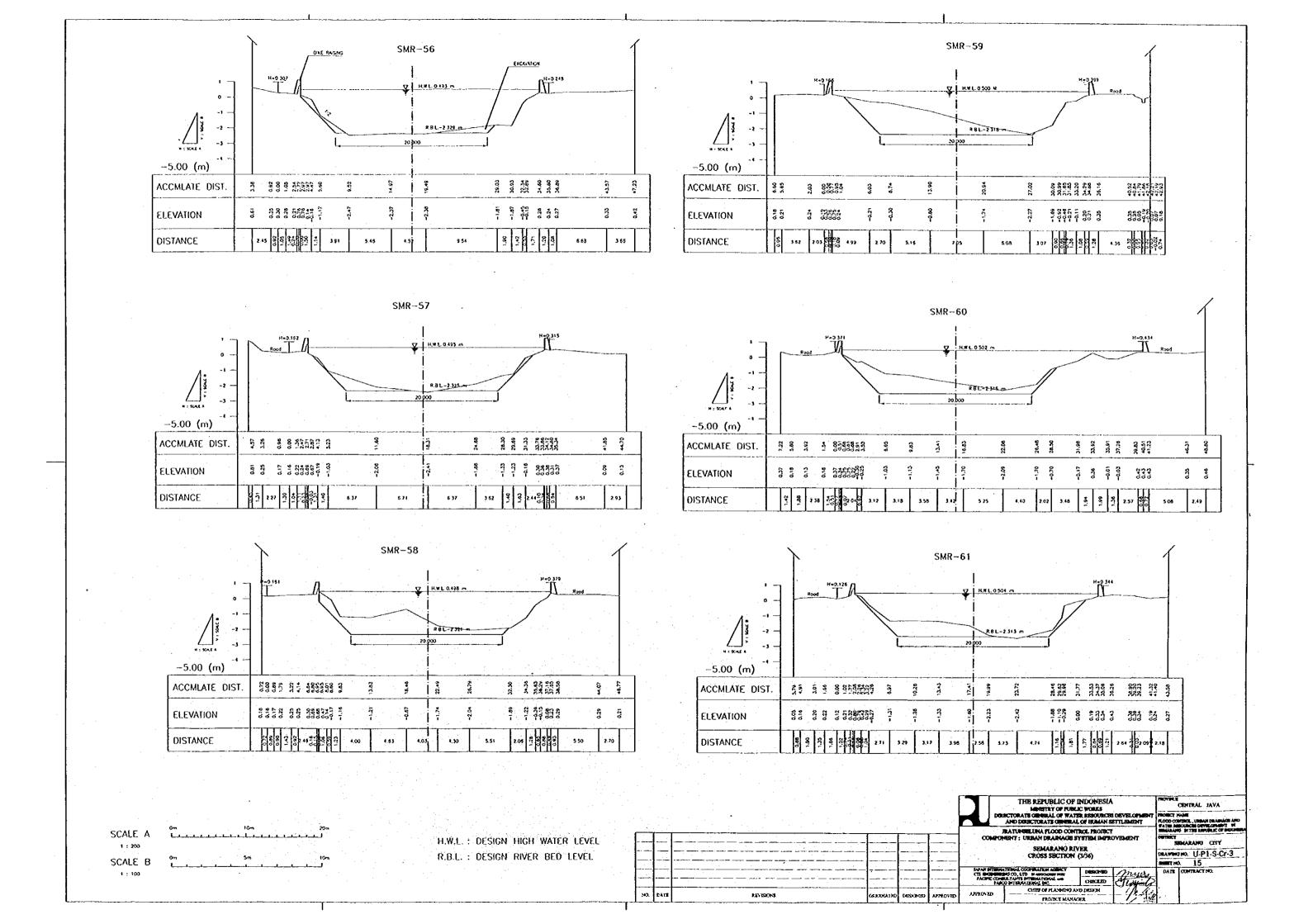
LONGITUDINAL PROFILE (3/3) DESCRIPTION OF THE PROPERTY OF CEREM OF ALAMONDAND DESIGN

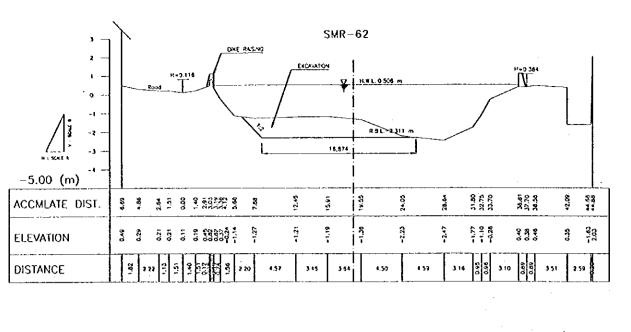
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DATE CONTRACT NO.

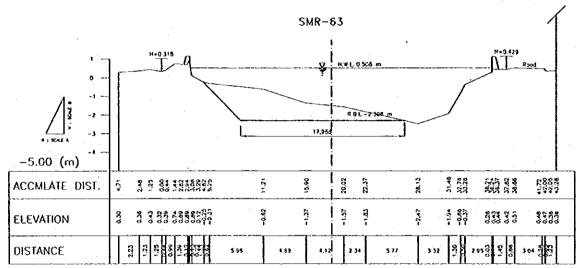
CENTRAL JAYA

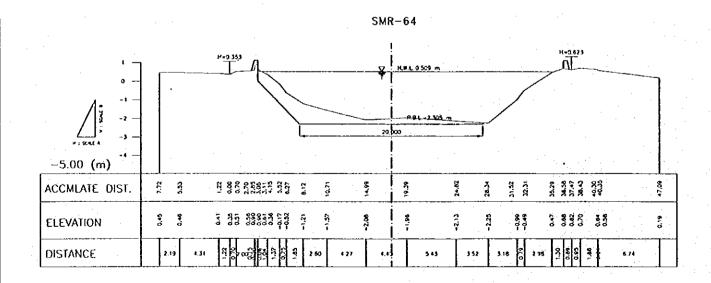


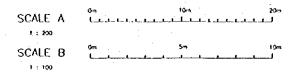










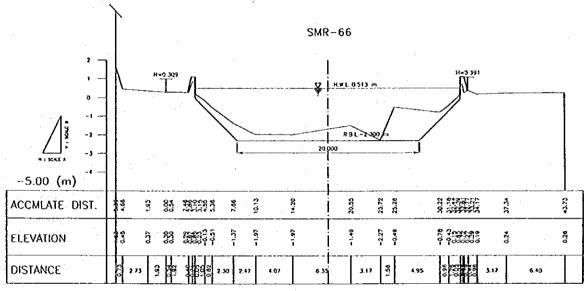


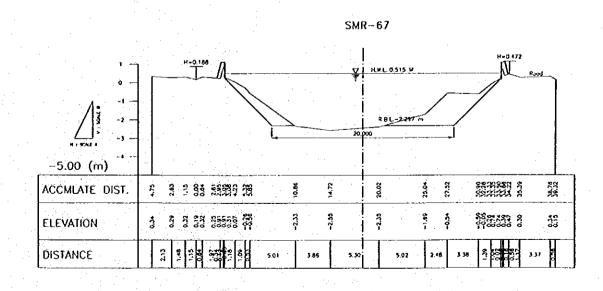
H.W.L.: DESIGN HIGH WATER LEVEL R.B.L.: DESIGN RIVER BED LEVEL

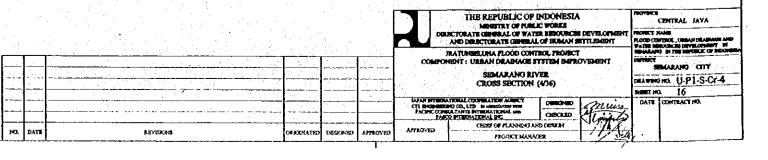
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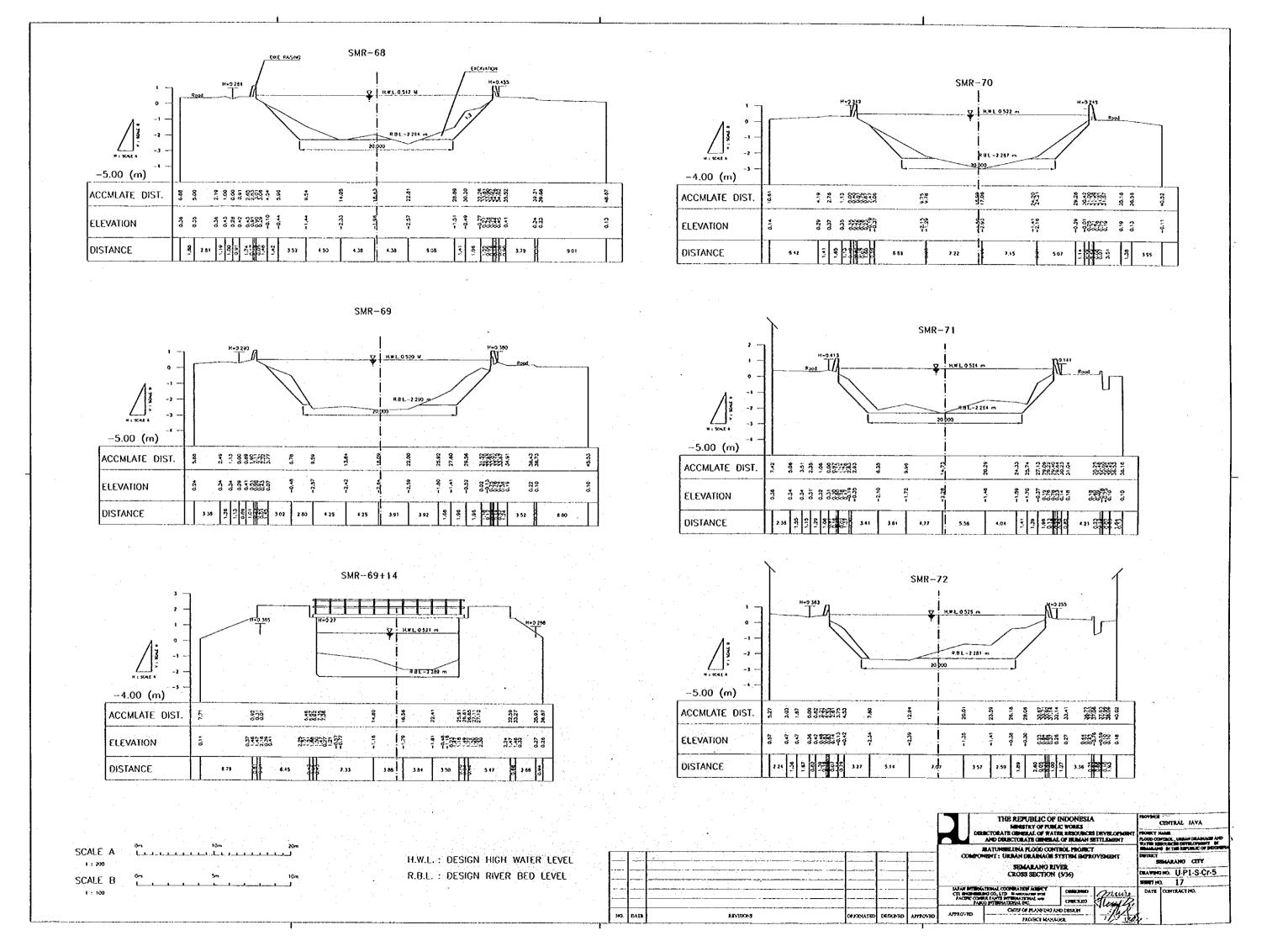
SMR-65

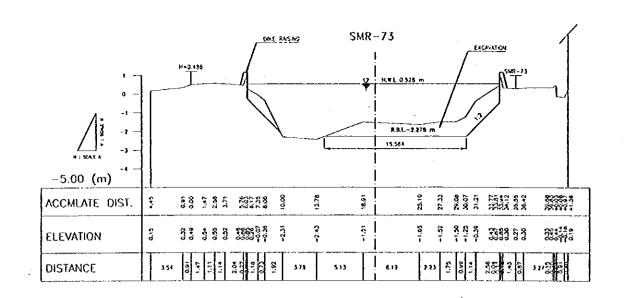
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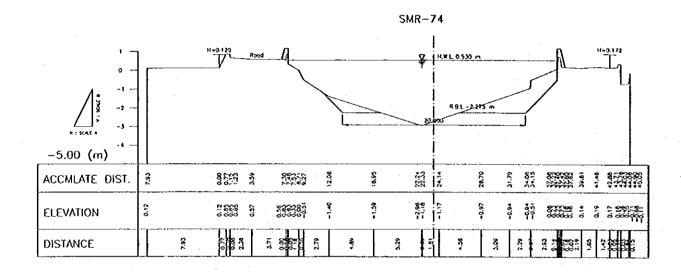


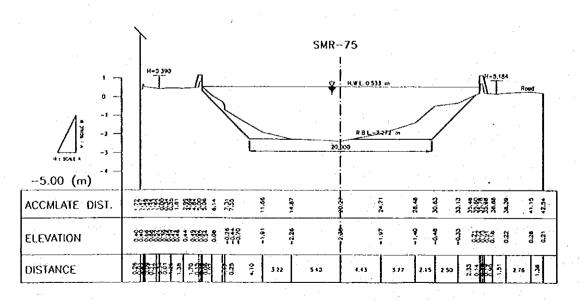


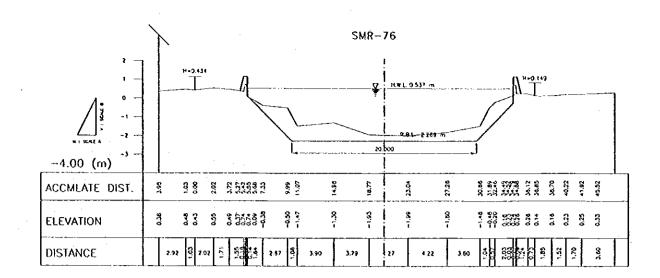


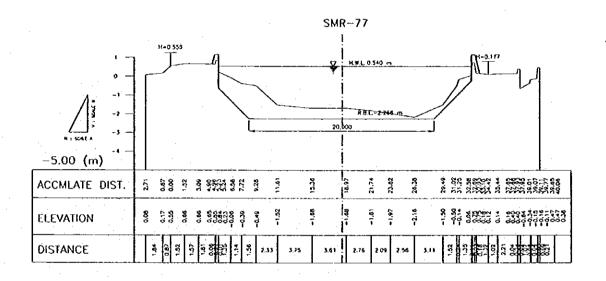


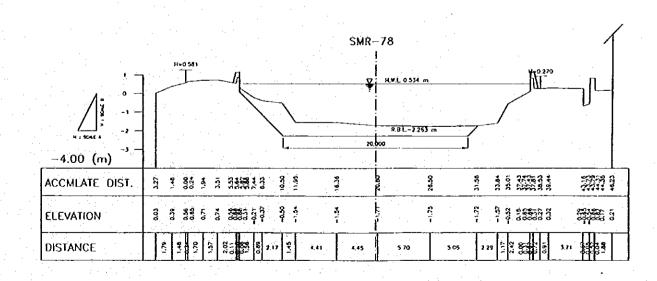


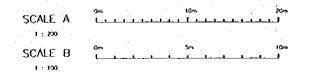












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THE REPUBLIC OF INDONESIA

MINISTRY OF PUBLIC WORLS

DESCRICTANTS GENERAL OF WATER RESOURCES DEVELOPMENT
AND DESCRICTANTS GENERAL OF RUMAN SETTLEMENT

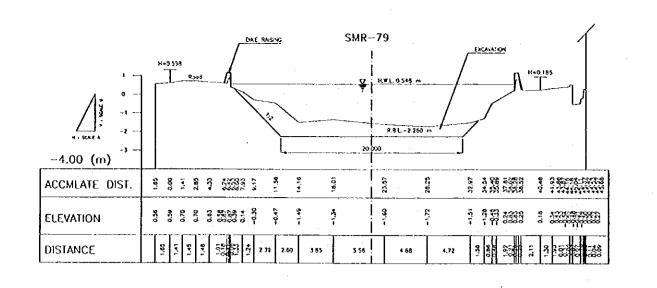
PRATUMESLINA FLOOD CONTROL PROJECT

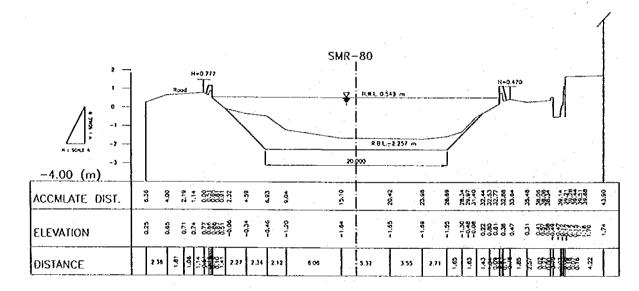
COMPONENT: URBAN DEALWARE STYTEM BMFROVEMENT

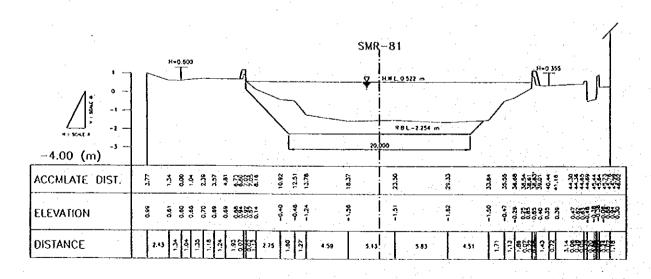
SEMARAND RIVER

CROSS SECTION (6/36)

DATE CONTRACT NO.







SCALE A

SCALE B

H.W.L.: DESIGN HIGH WATER LEVEL		
R.B.L. : DESIGN RIVER BED LEVEL		
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