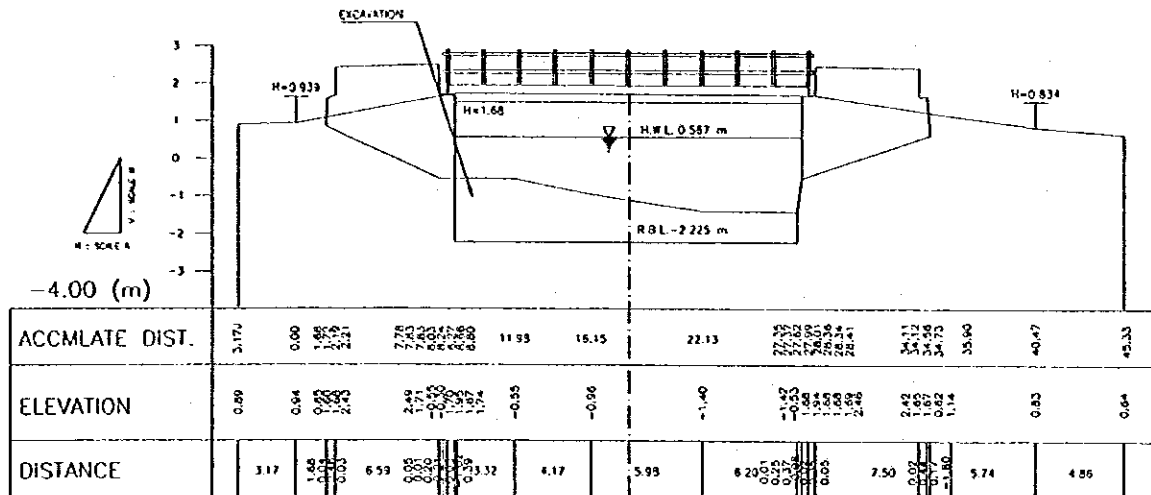
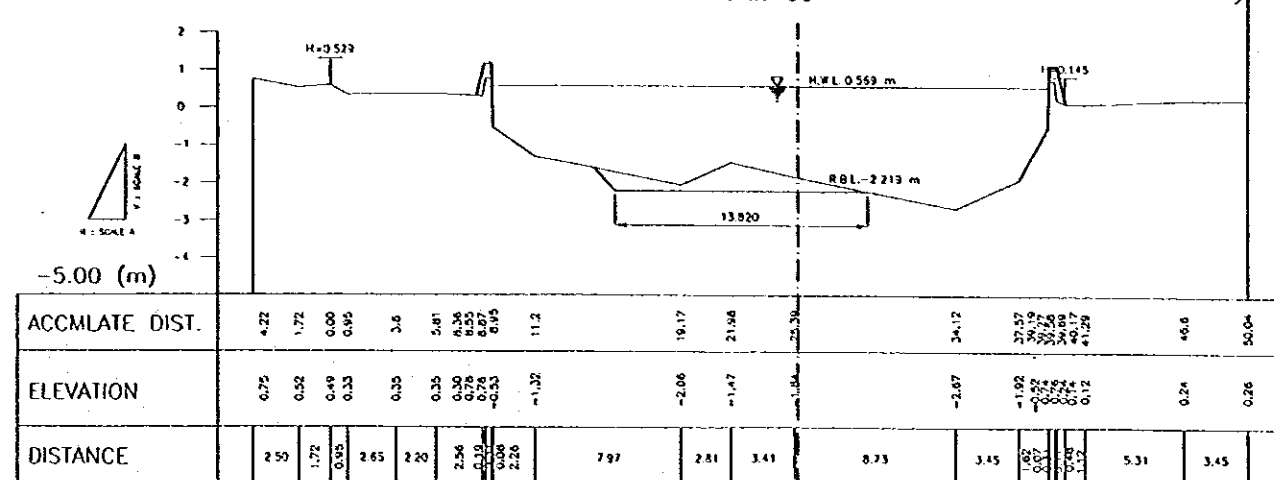


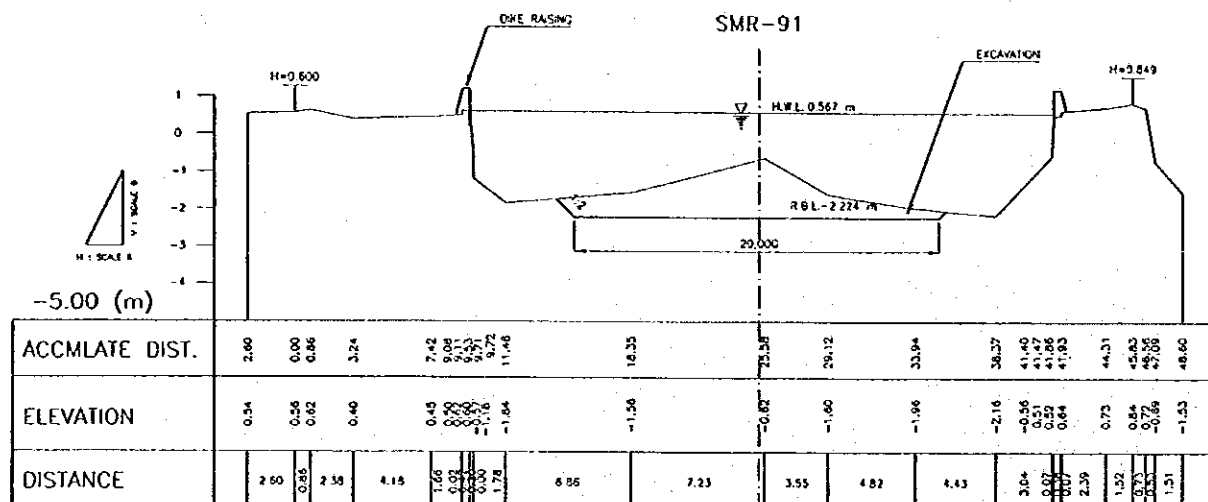
SMR-90+11



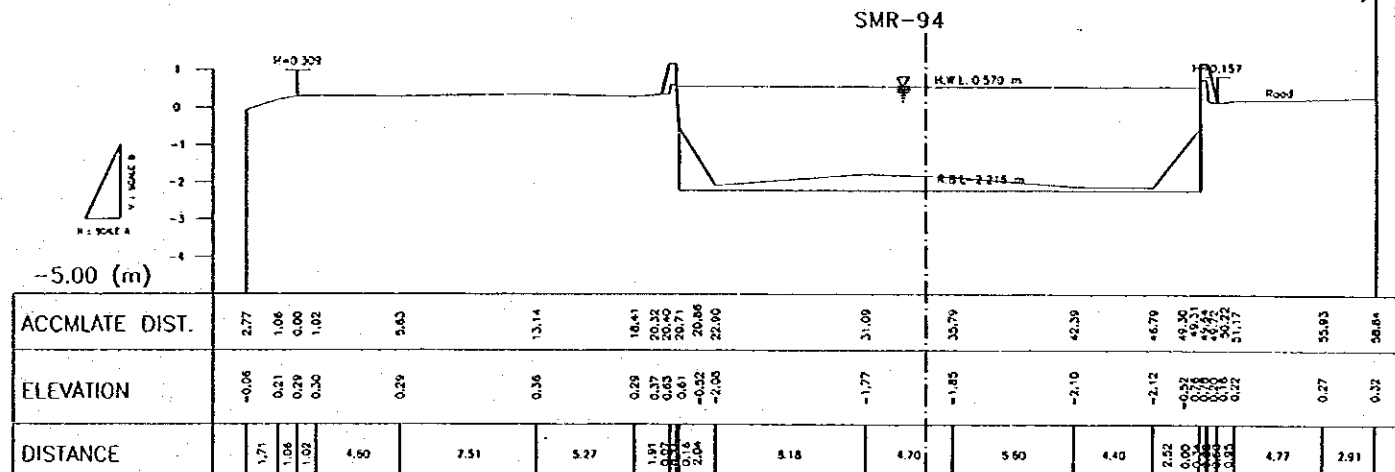
SMR-93



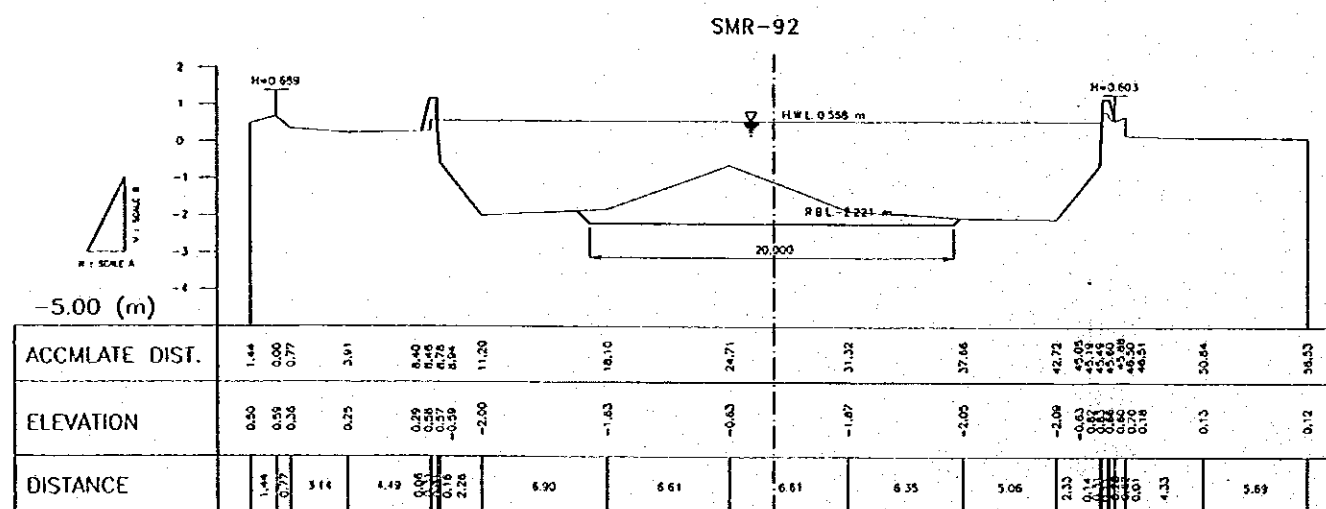
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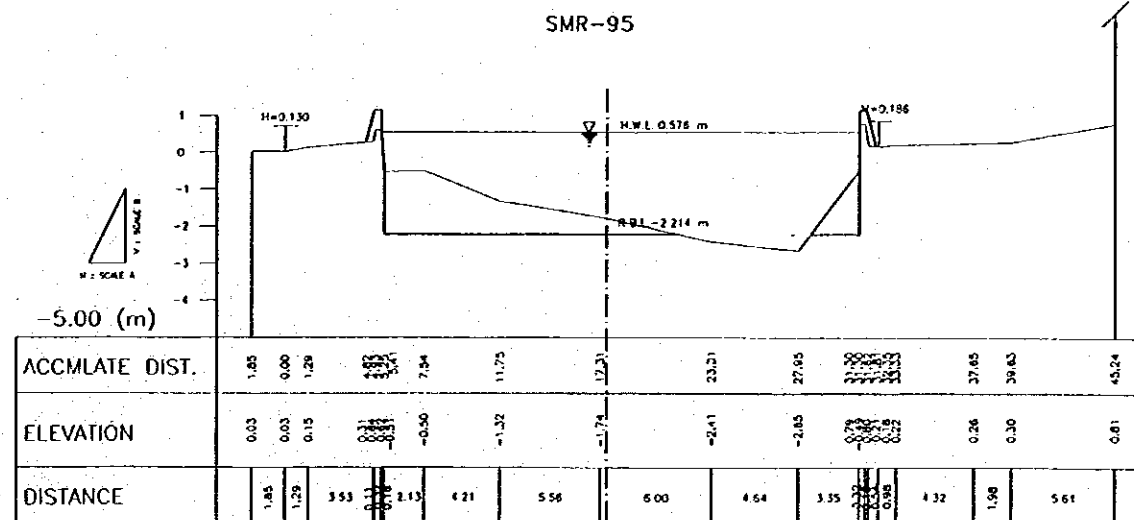
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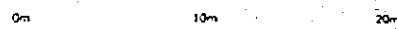
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SMR-95



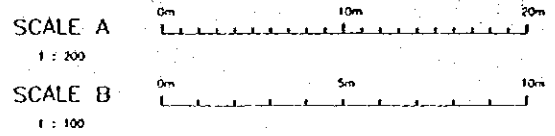
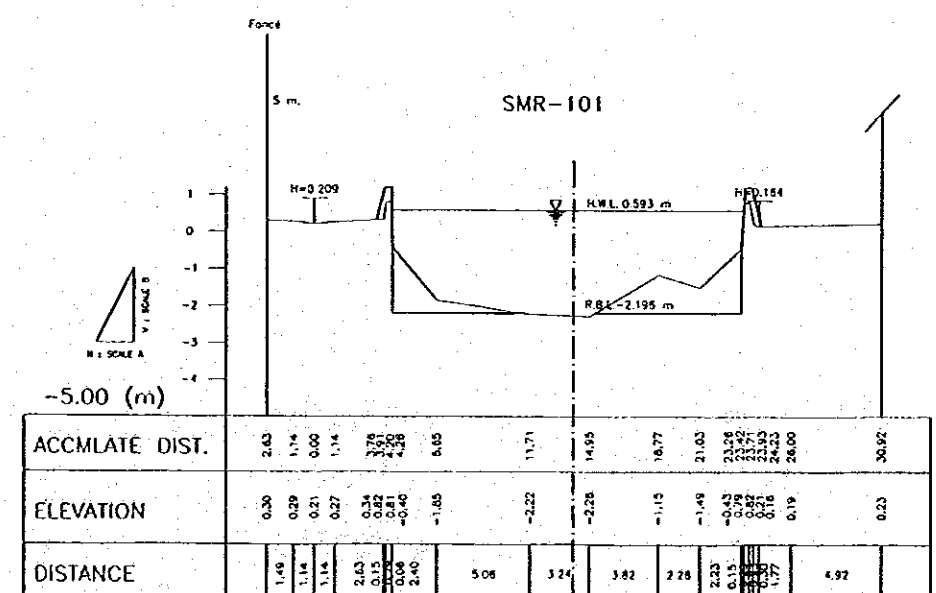
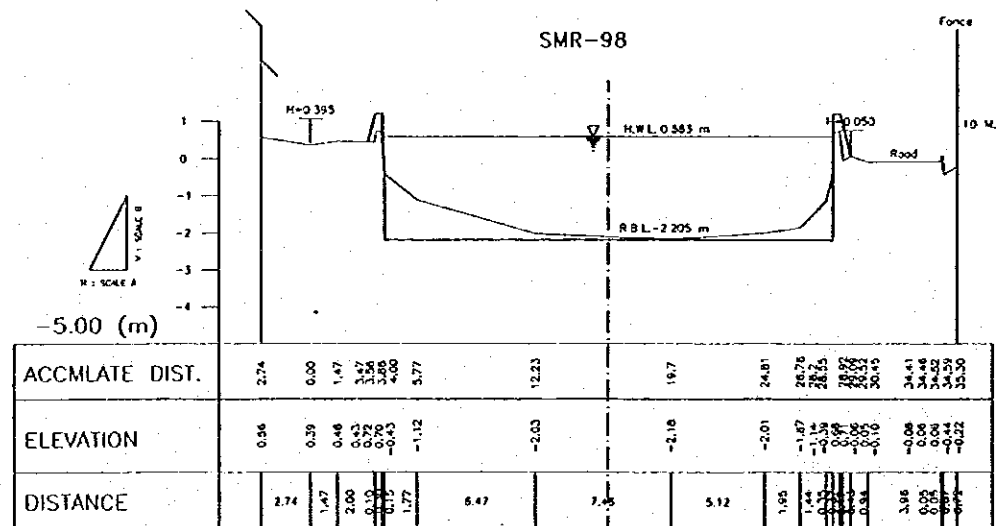
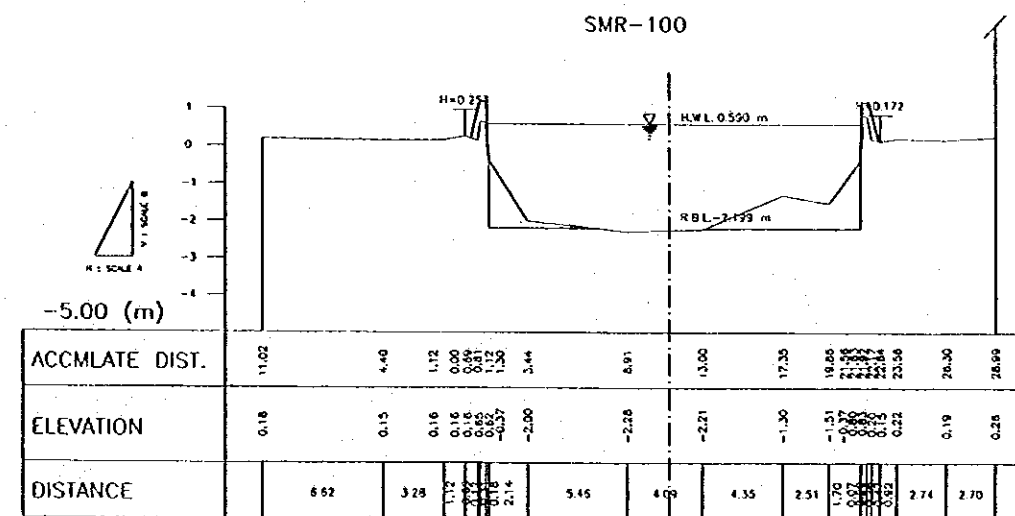
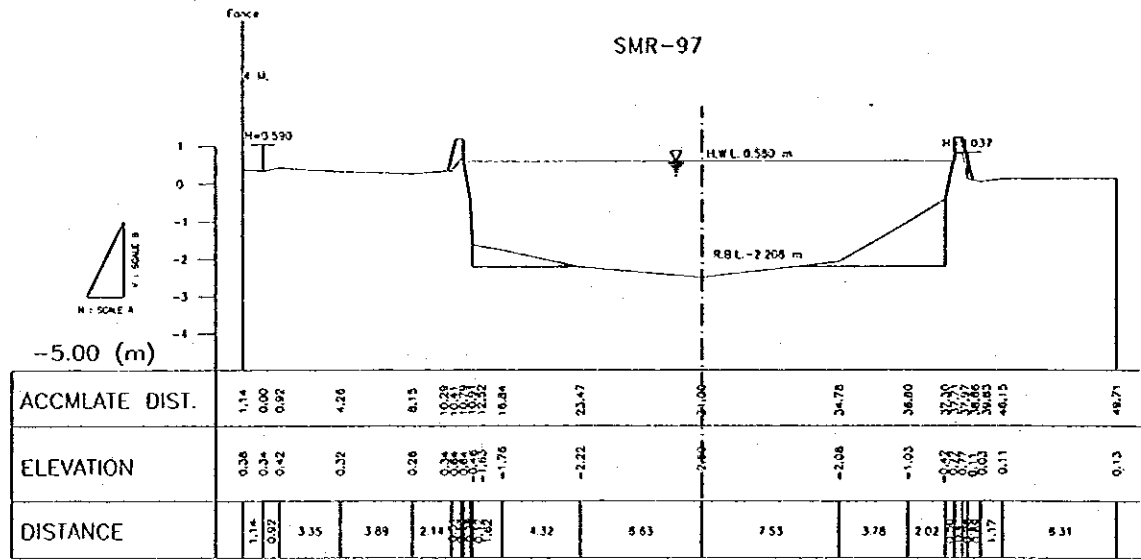
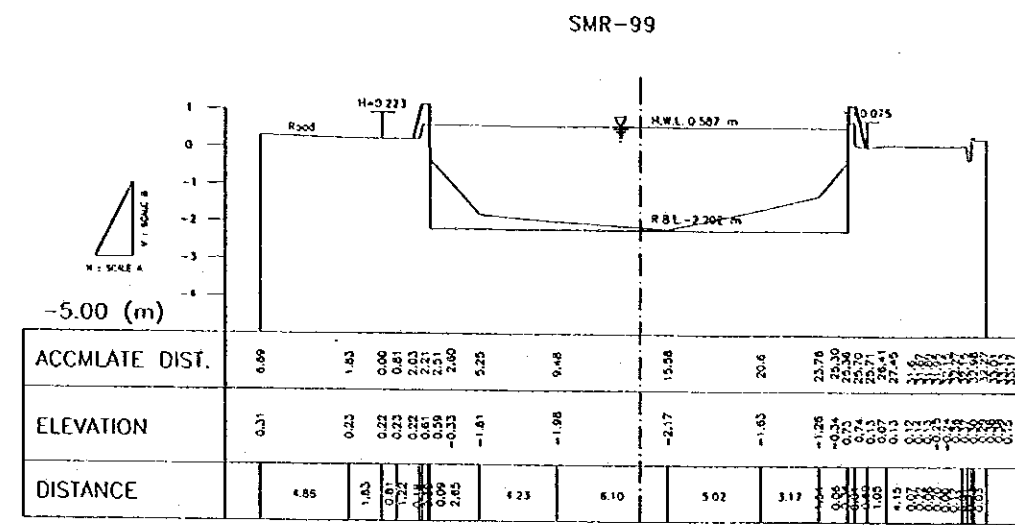
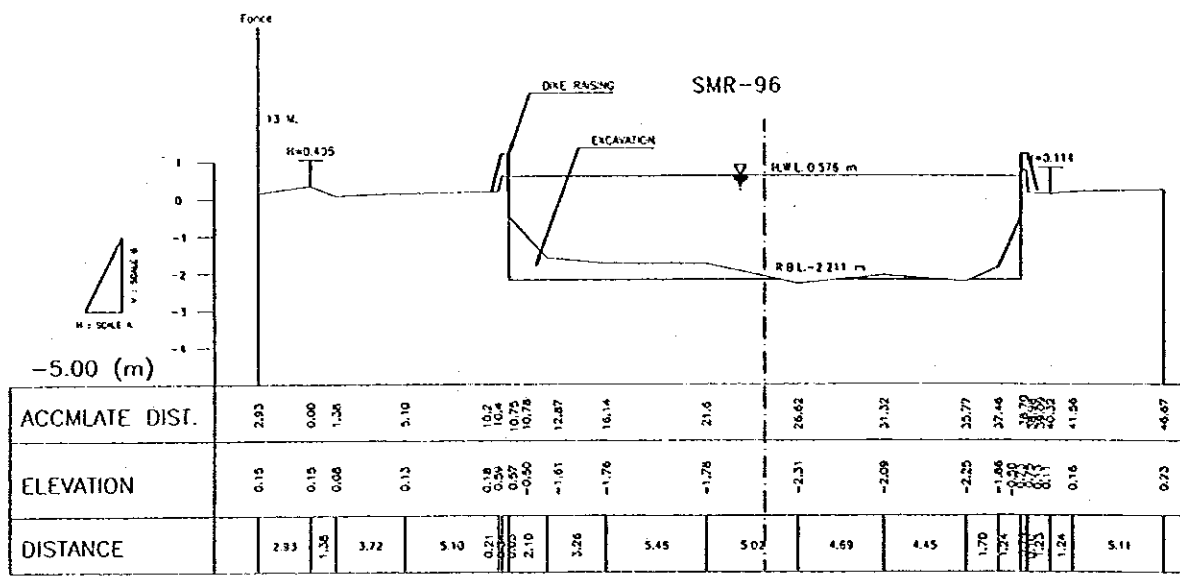
SCALE A



SCALE B



<p>THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT</p>					<p>PROVINCE CENTRAL JAVA</p>	
<p>REJATUNNELUNA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT</p>					<p>PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT BY SEMARANG IN THE REPUBLIC OF INDONESIA</p>	
<p>SEMARANG RIVER CROSS SECTION (936)</p>					<p>DISTRICT SEMARANG CITY</p>	
<p>JAPAN INTERNATIONAL COOPERATION AGENCY CITY ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PARCO INTERNATIONAL INC.</p>					<p>DRAWING NO. U-P1-S-CF-9 SHEET NO. 21</p>	
<p>DATE</p>					<p>DATE CONTRACT NO.</p>	
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED	



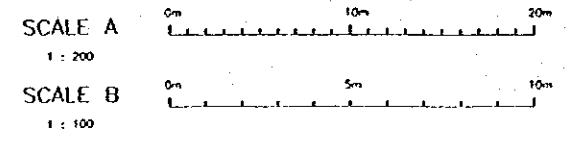
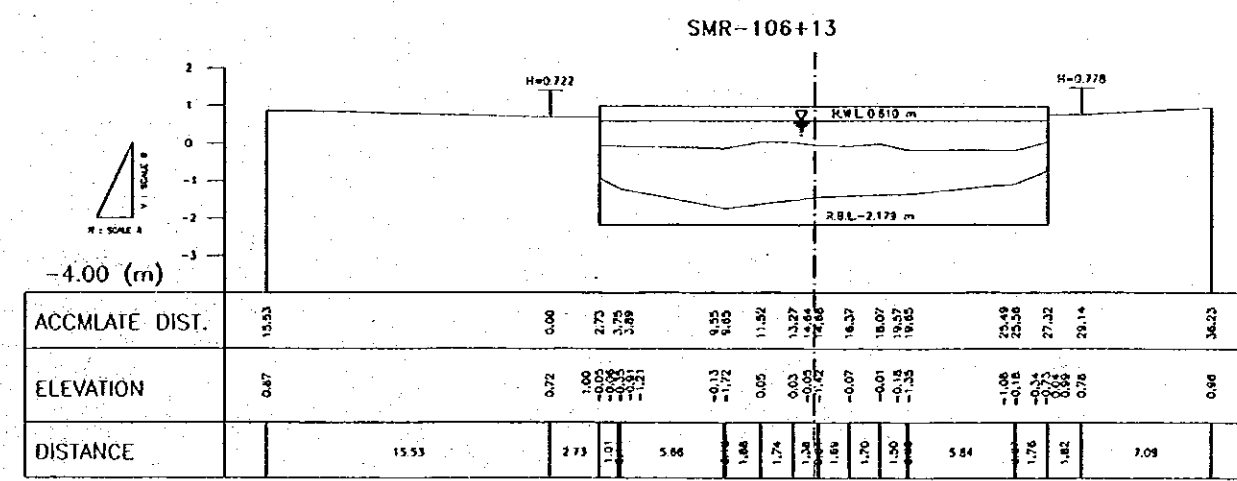
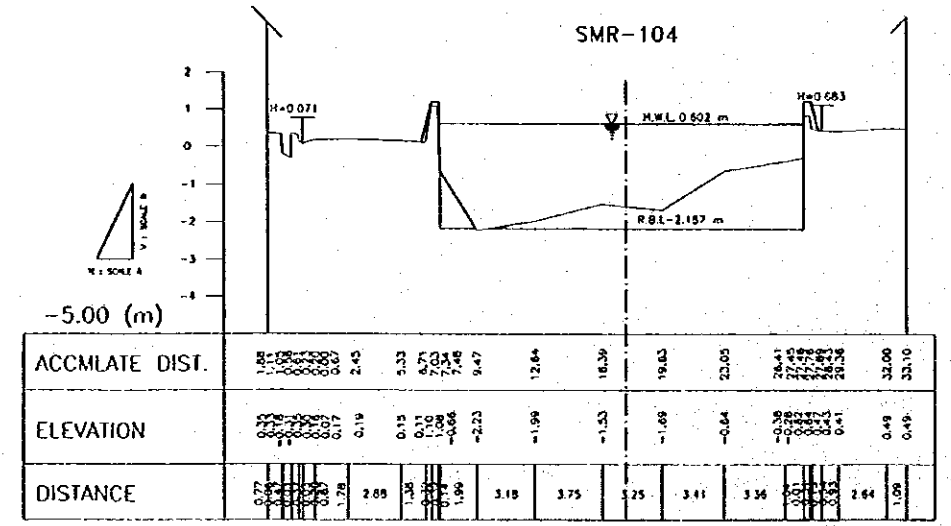
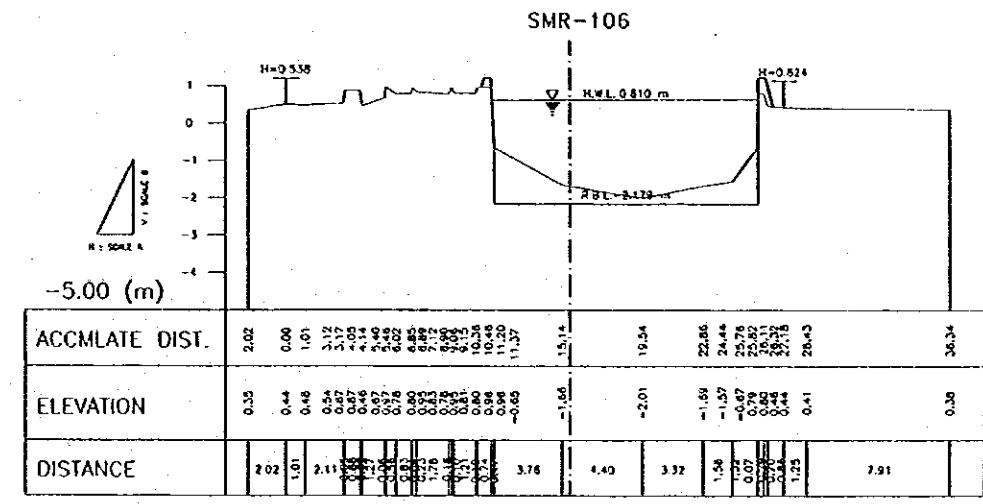
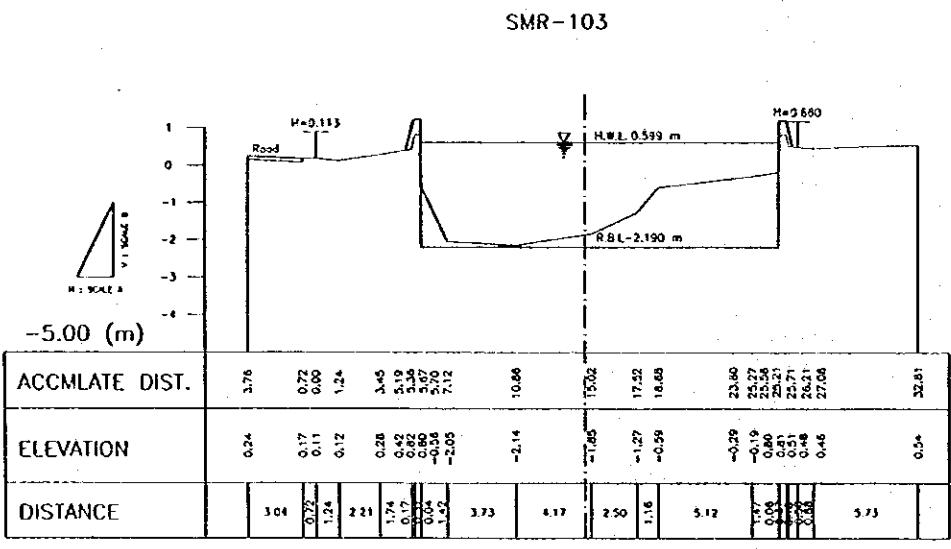
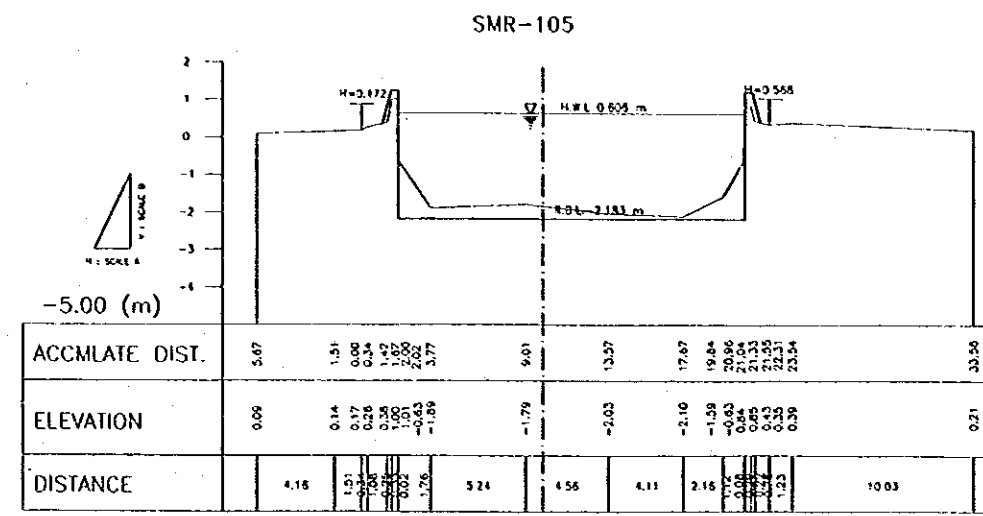
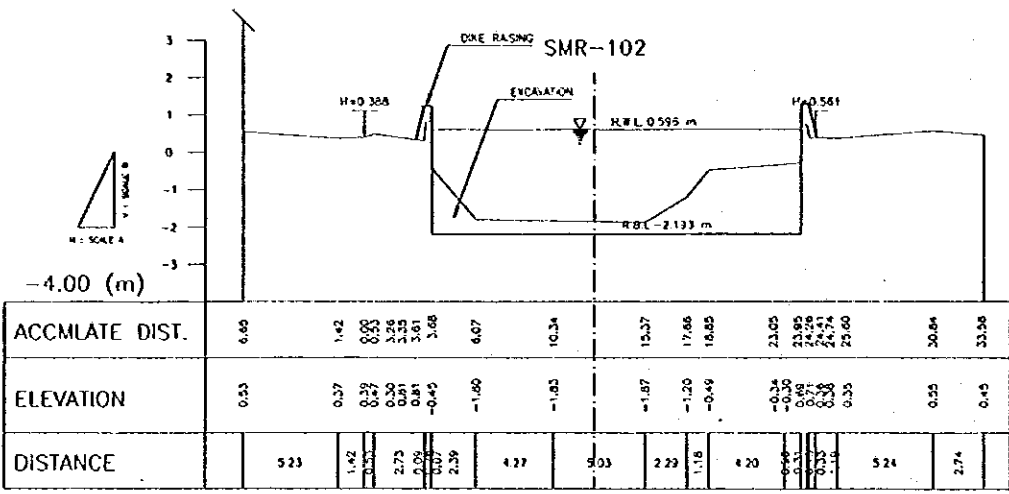
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA
 MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT

JAKARTA INTERNATIONAL COOPERATION AGENCY
 CTS ENGINEERING CO. LTD. IN ASSOCIATION WITH
 PACIFIC CONSULTANTS INTERNATIONAL AND
 PANDOR INTERNATIONAL INC.

DISBURSED
 CHECKED
 APPROVED
 CHIEF OF PLANNING AND DESIGN
 PROJECT MANAGER

PROVINCE: CENTRAL JAVA
 PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT OF SEMARANG IN THE REPUBLIC OF INDONESIA
 DISTRICT: SEMARANG CITY
 DRAWING NO.: U-PI-S-Cr-10
 SHEET NO.: 22
 DATE: _____
 CONTRACT NO.: _____



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

NO.	DATE	REVISIONS	PREPARED	DESIGNED	APPROVED

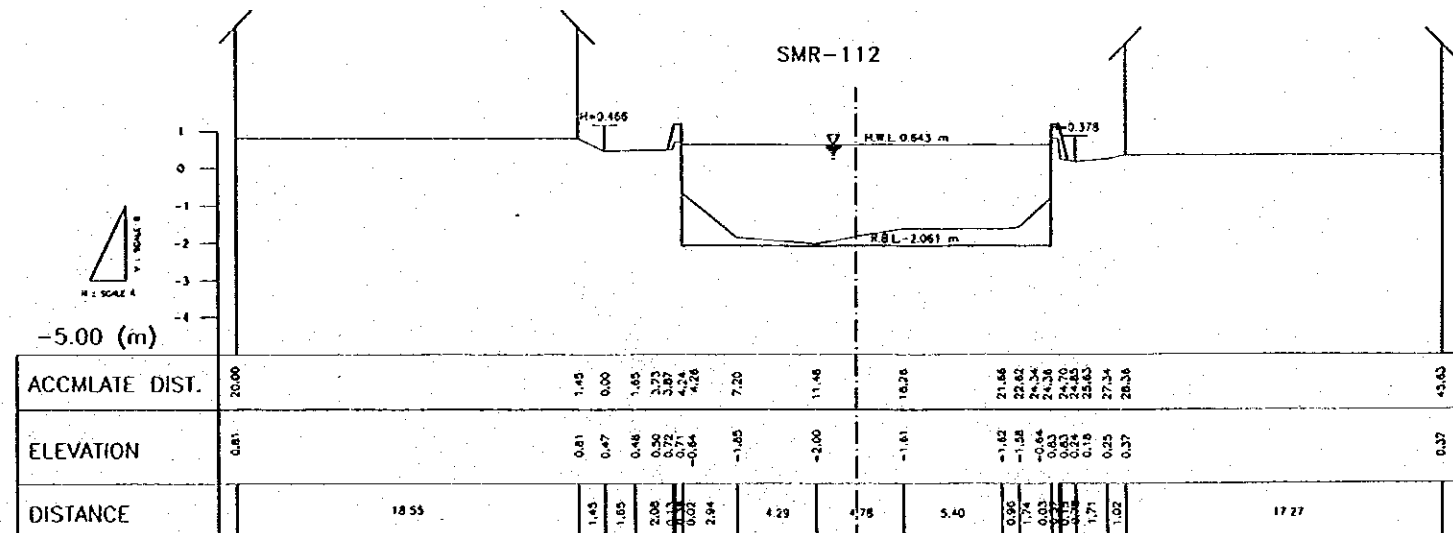
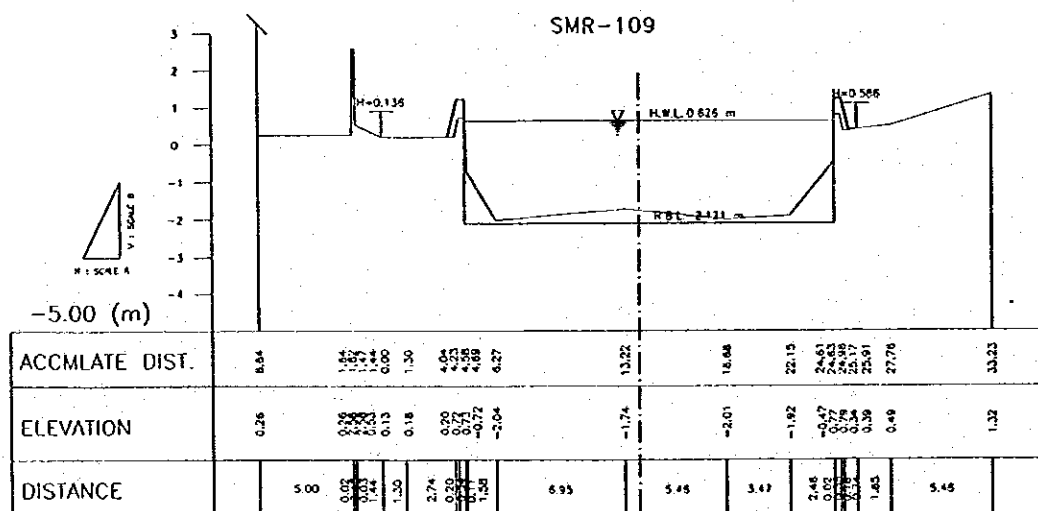
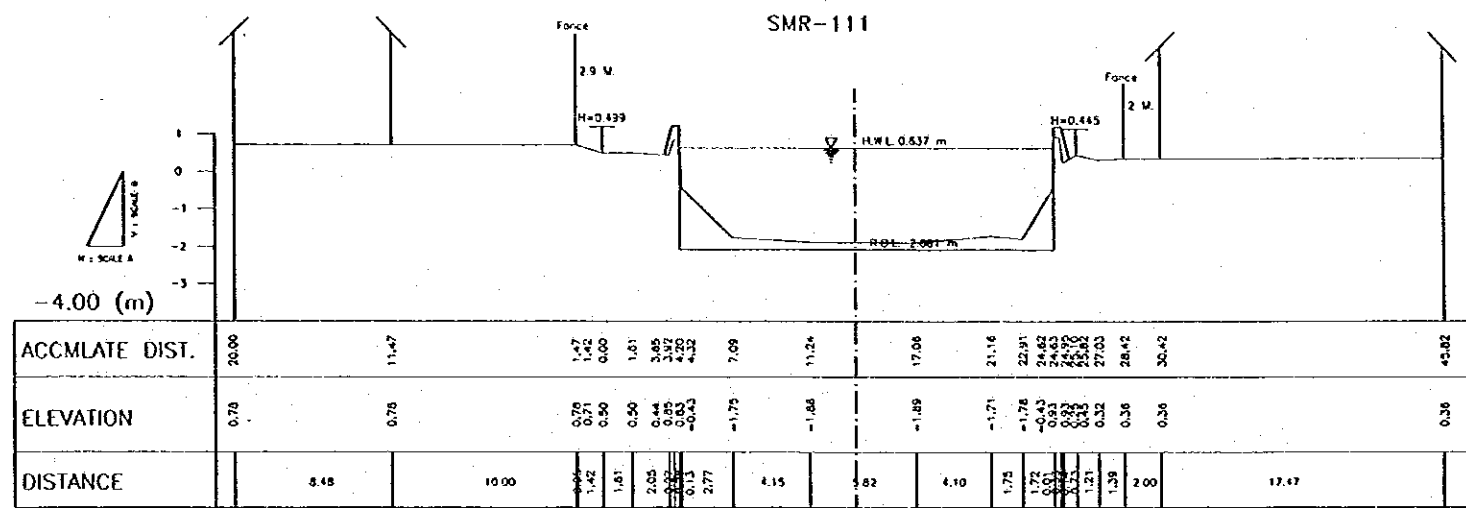
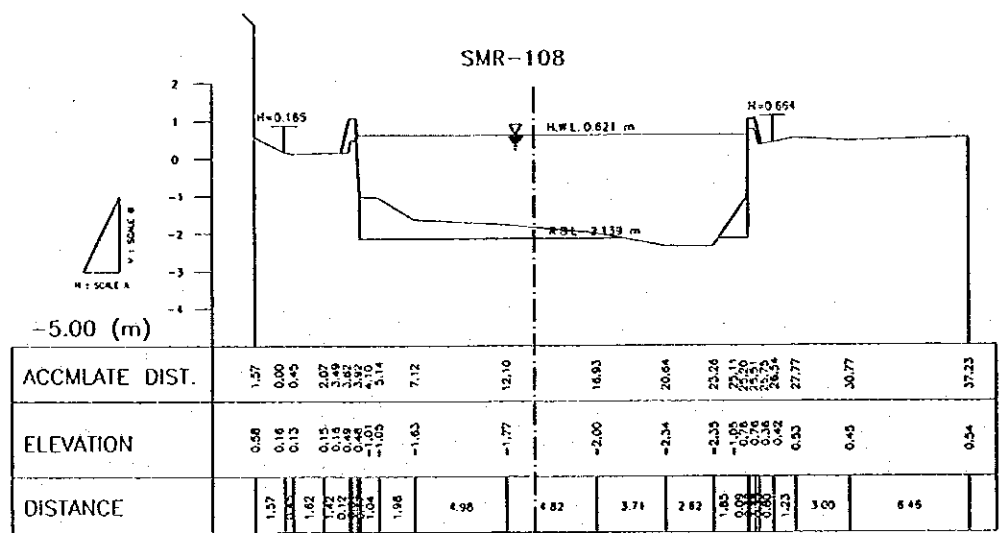
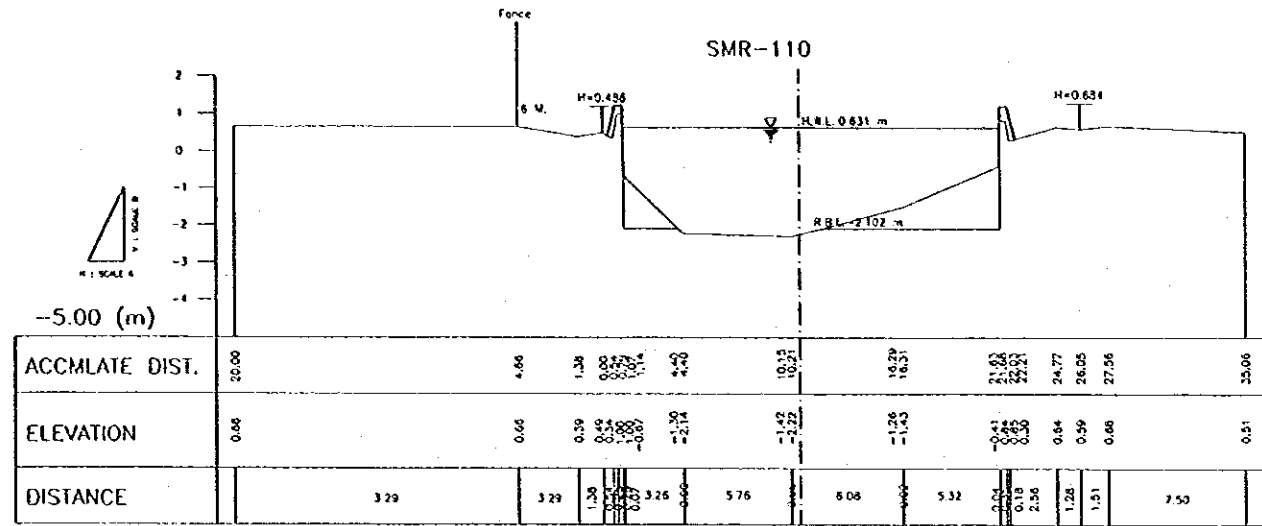
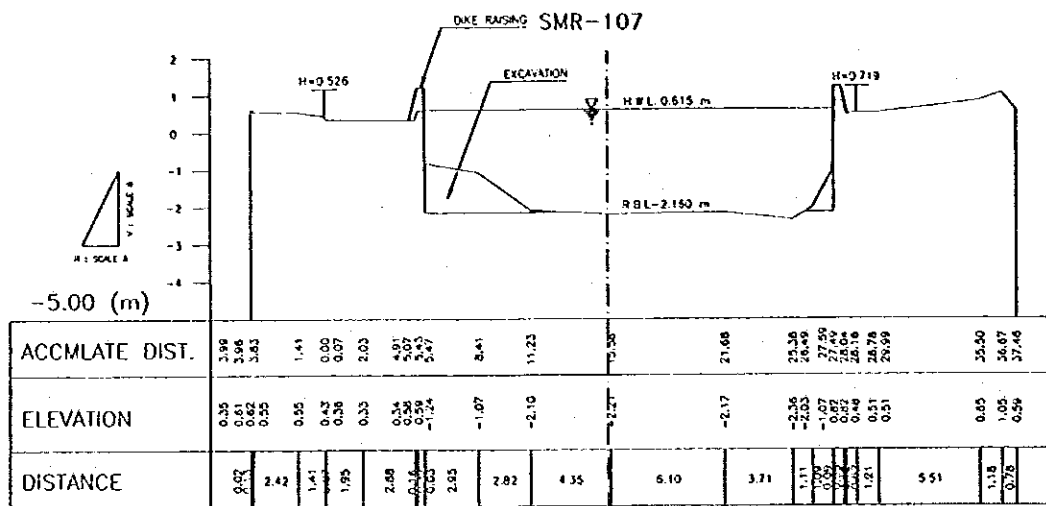
THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT

JATUNGLUNG FLOOD CONTROL PROJECT
COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT

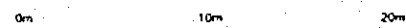
SEMARANG RIVER
CROSS SECTION (11/36)

JAWA INTERNATIONAL COOPERATION AGENCY
CIS (INDONESIA) LTD. IN PARTNERSHIP WITH
PACIFIC CONSULTANTS INTERNATIONAL AND
PACIFIC INTERNATIONAL INC.

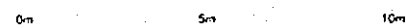
DATE: / /
CONTRACT NO.



SCALE A
1 : 200



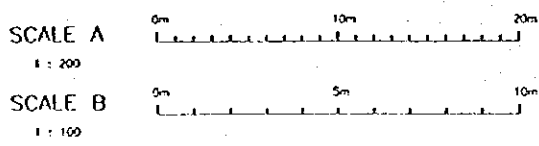
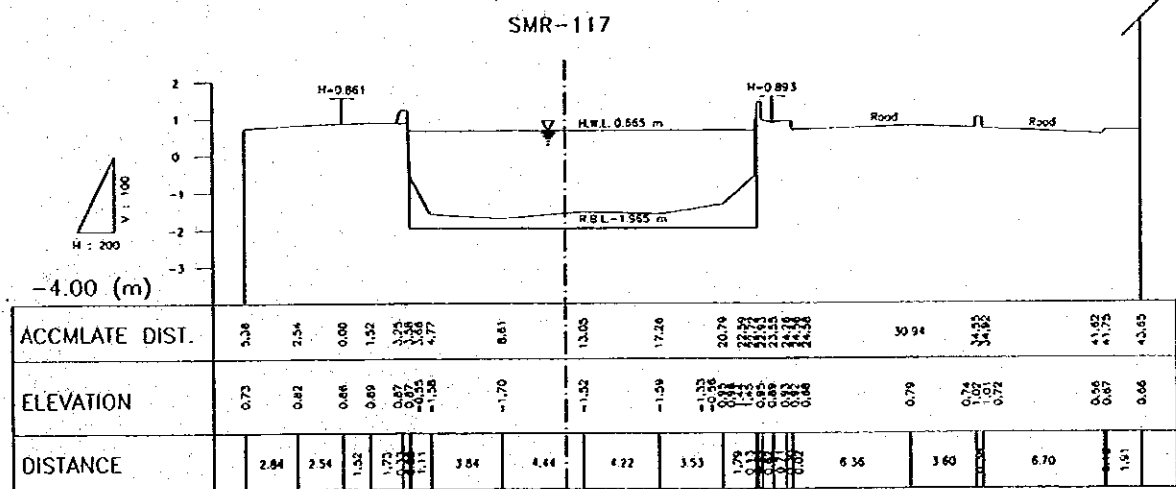
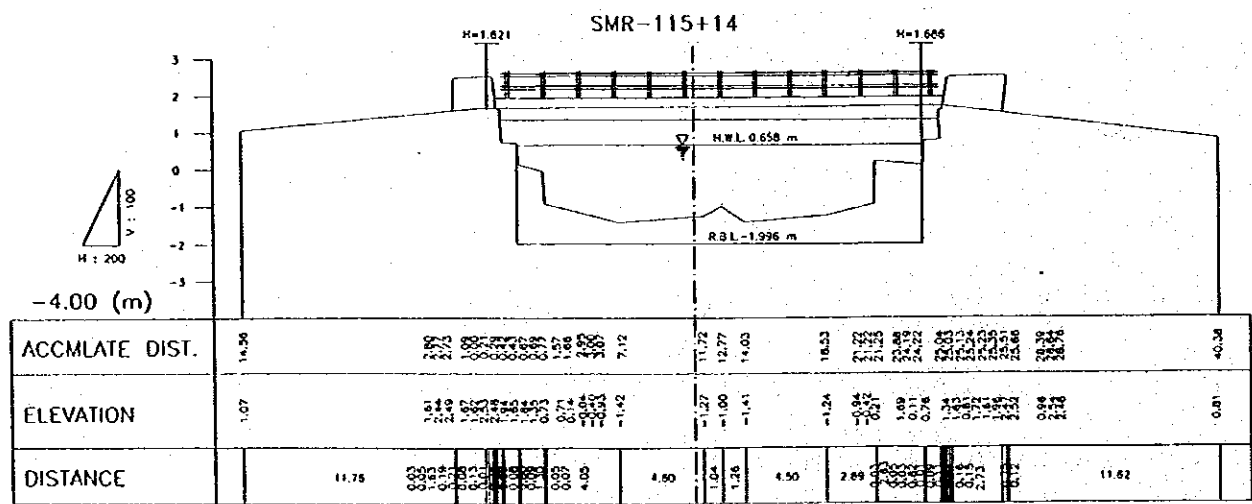
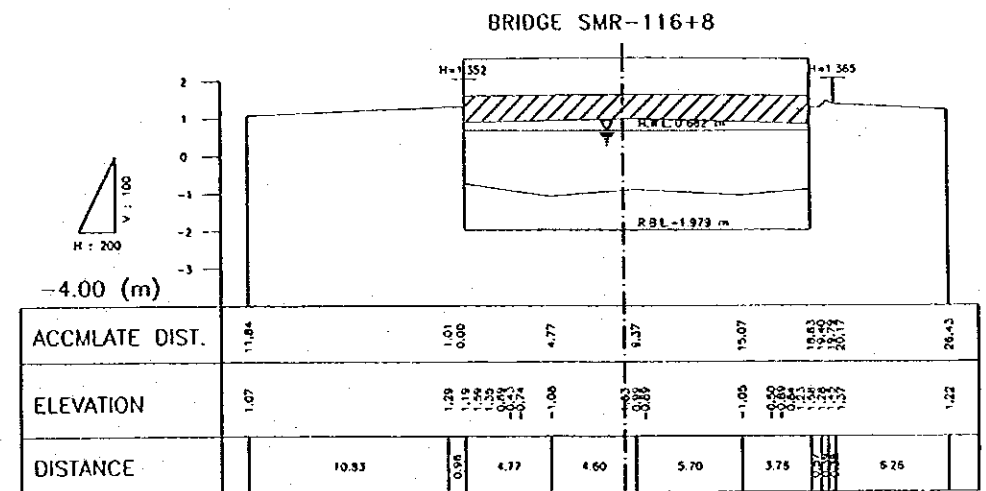
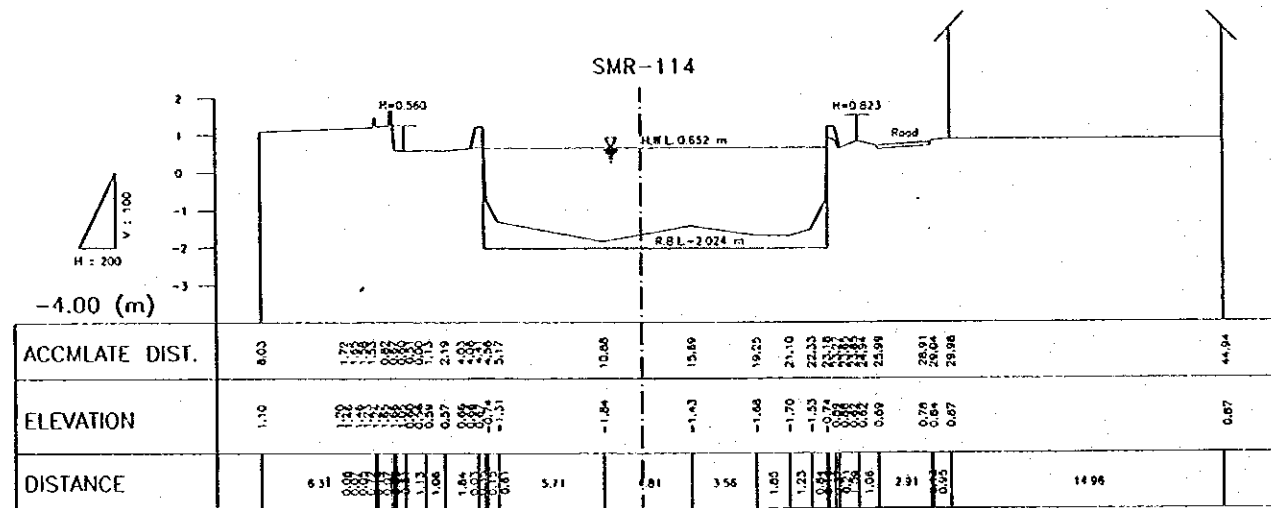
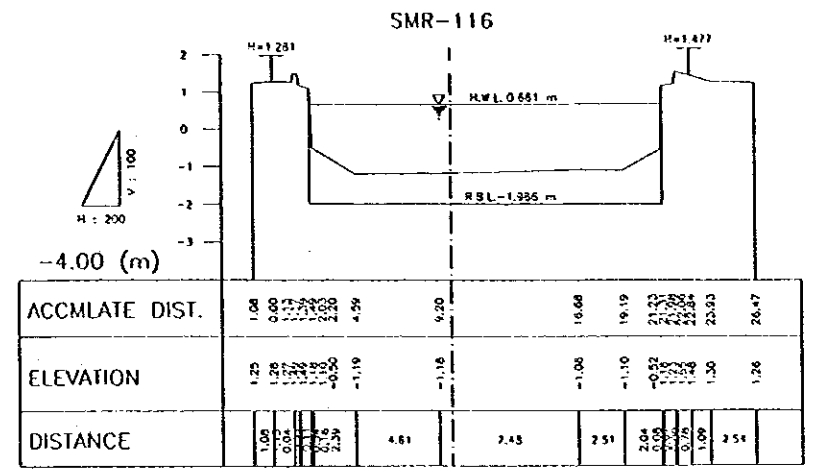
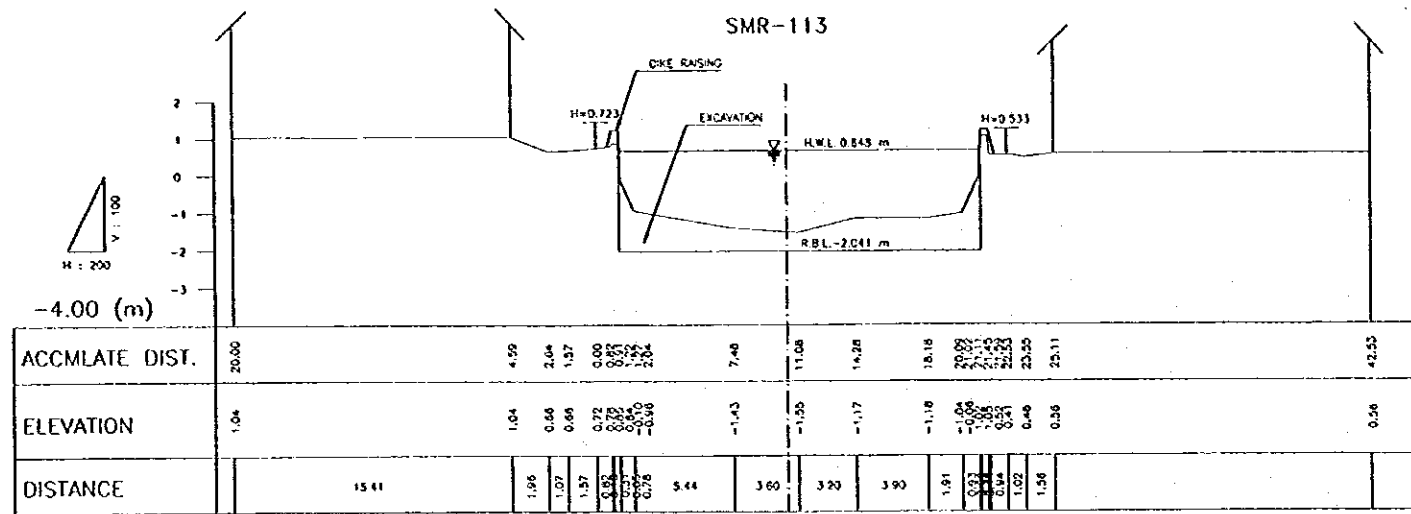
SCALE B
1 : 100



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

NO.	DATE	REVISIONS	DESIGNED	APPROVED

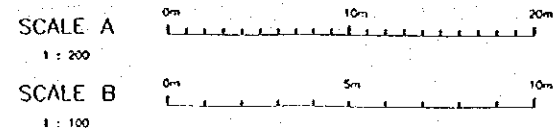
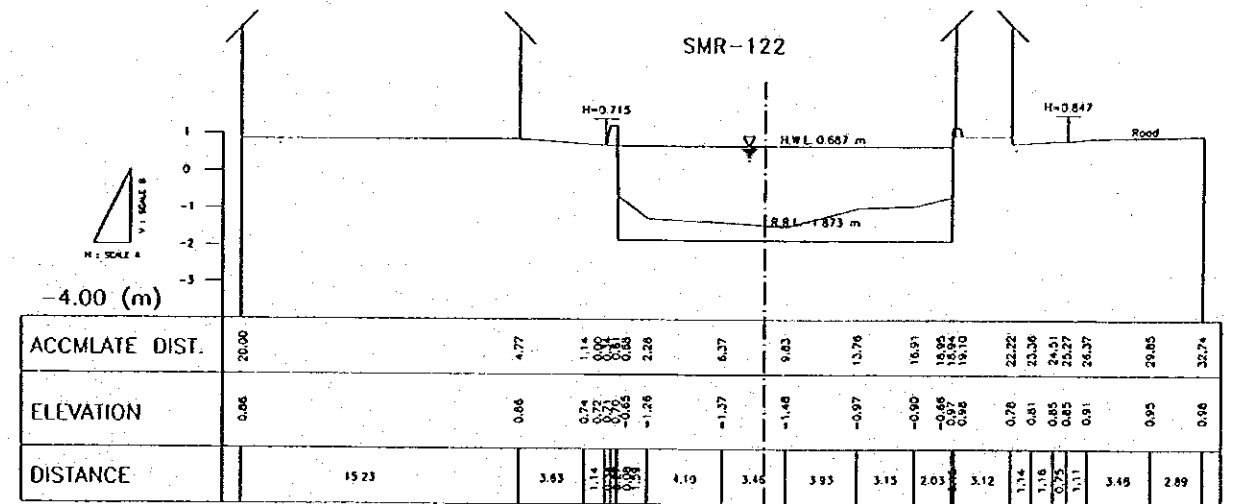
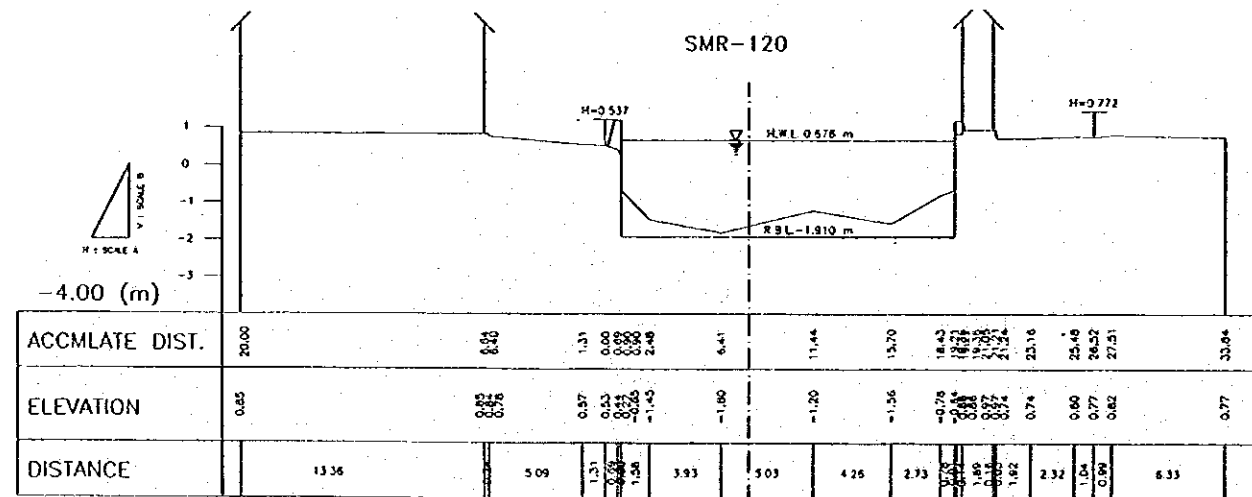
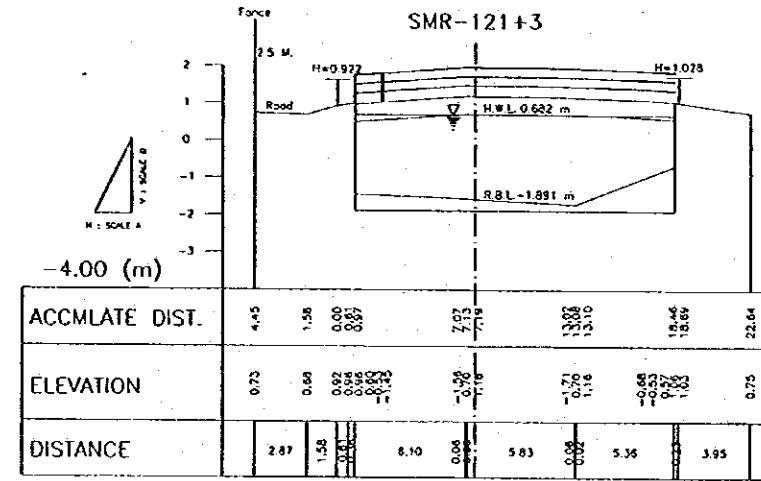
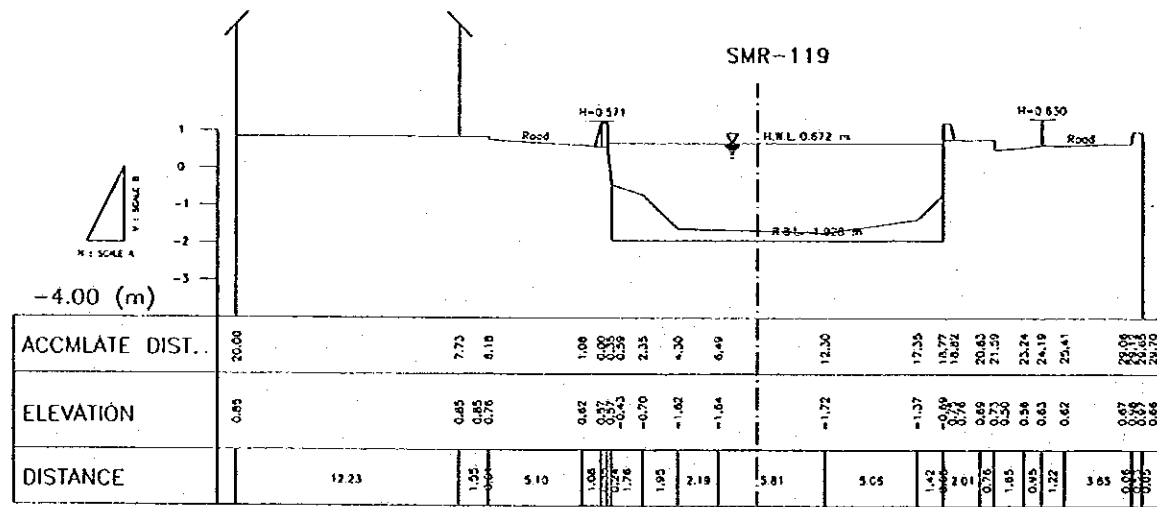
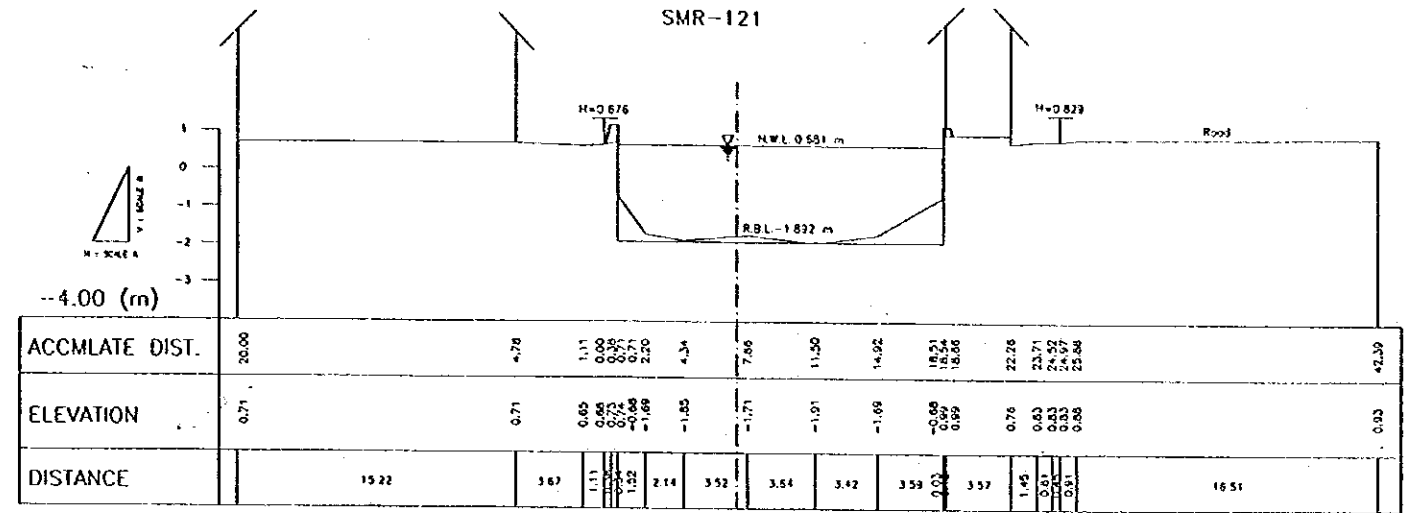
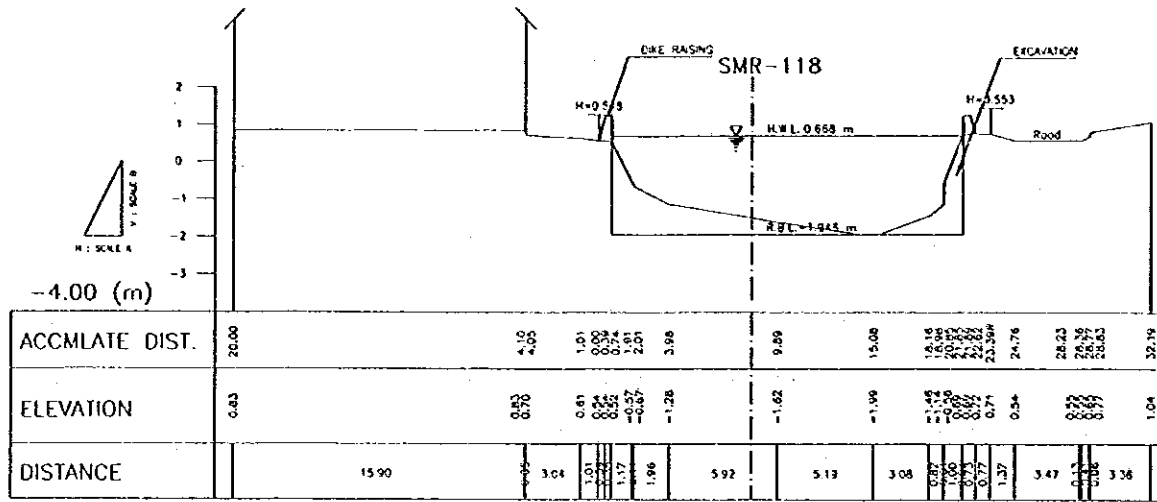
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
JATUNGBELANA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
SEMARANG RIVER CROSS SECTION (12/36)		DISTRICT SEMARANG CITY
LAJAN INTERNATIONAL COOPERATION AGENCY CE ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND FASCO INTERNATIONAL INC.		DRAWING NO. U-P1-S-Cr-12
CHECKED DESIGNED APPROVED		SHEET NO. 24
PROJECT MANAGER		DATE CONTRACT NO.



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

NO.	DATE	REVISIONS	GENERATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
JATUNGLUH FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE PROVINCE OF CENTRAL JAVA
SEMARANG RIVER CROSS SECTION (13/36)		DISTRICT SEMARANG CITY
JAPAN INTERNATIONAL COOPERATION AGENCY CIJIBANG, LTD. in association with PACIFIC CONSULTANTS INTERNATIONAL, INC. and FANCO INTERNATIONAL, INC.		DRAWING NO. U-PI-S-Cr-13 SUBSET NO. 25
APPROVED	DESIGNED	DATE
CHEF OF PLANNING AND DESIGN	PROJECT MANAGER	CONTRACT NO.

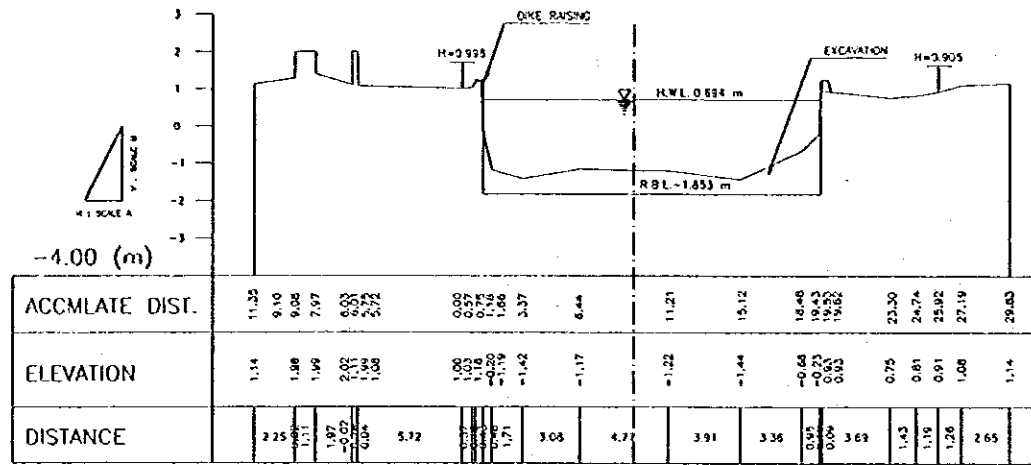


H.W.L. : DESIGN HIGH WATER LEVEL
R.B.L. : DESIGN RIVER BED LEVEL

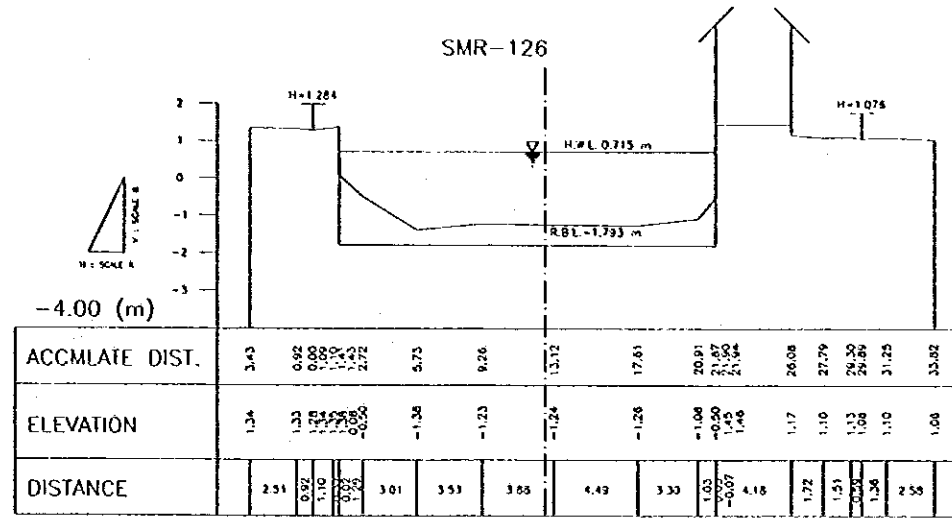
NO.	DATE	REVISIONS	ORIGINATED	DRAWN	CHECKED	APPROVED

THE REPUBLIC OF INDONESIA		CENTRAL JAWA	
MINISTRY OF PUBLIC WORKS		PROJECT NAME	
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DRAINAGE		FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	
SUB-DIRECTORATE GENERAL OF HUMAN SETTLEMENT		DISTRICT	
FRATUNELUMA FLOOD CONTROL PROJECT		SEMARANG CITY	
COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT		DRAWING NO. U-P1-S-Cr-14	
SEMARANG RIVER		SERIAL NO. 26	
CROSS SECTION (14/36)		DATE	
JAPAN INTERNATIONAL COOPERATION AGENCY		DESIGNED	
CITI ENGINEERING CO., LTD. IN ASSOCIATION WITH		CHECKED	
FACTORY CONSULTANTS INTERNATIONAL AND		APPROVED	
LABCOR INTERNATIONAL INC.		CHIEF OF PLANNING AND DESIGN	
PROJECT MANAGER			

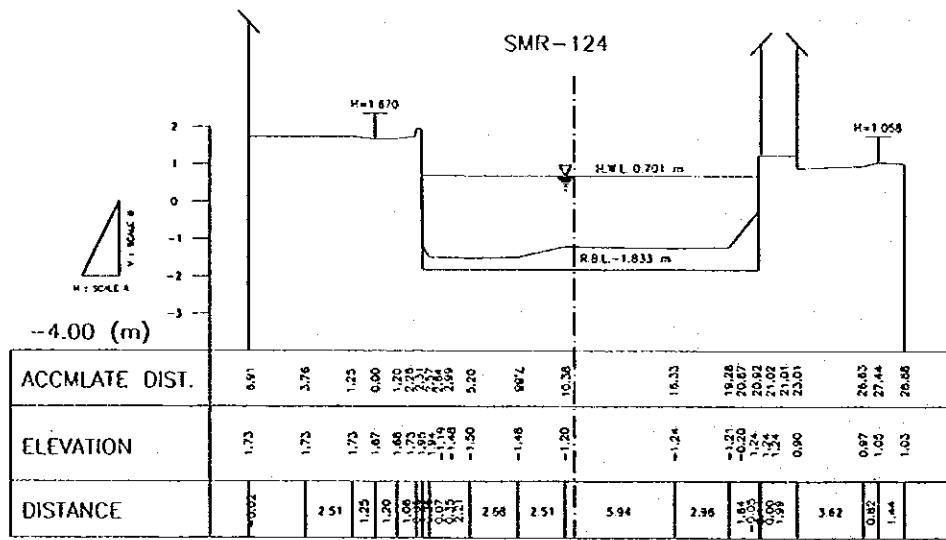
SMR-123



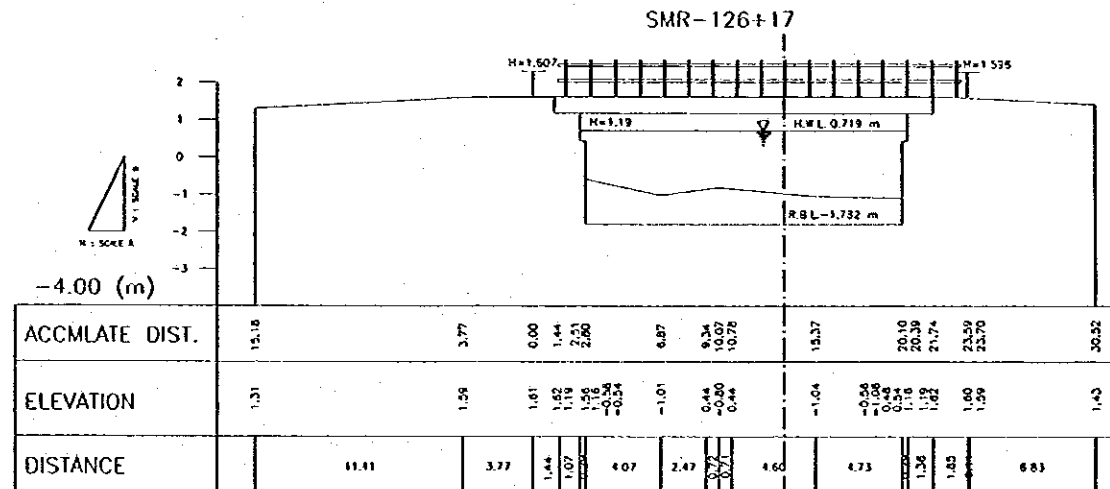
SMR-126



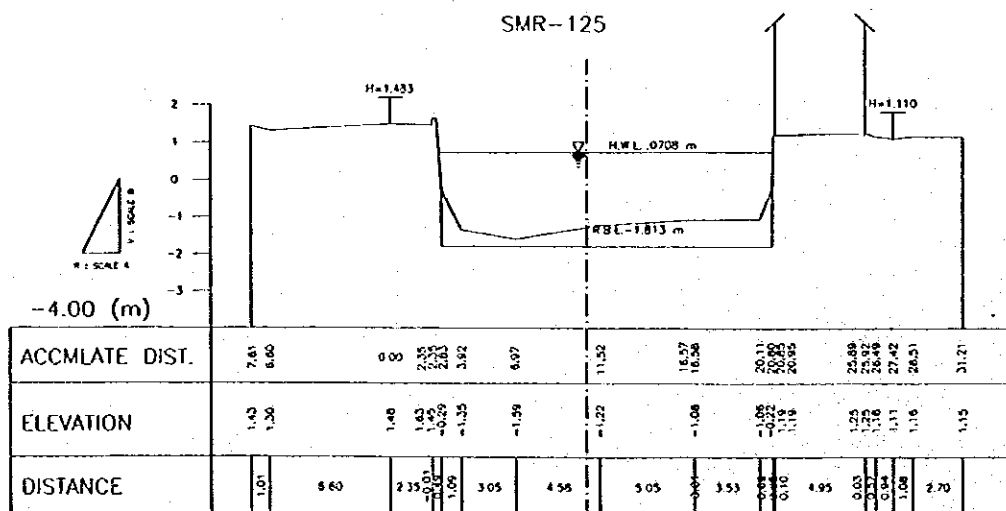
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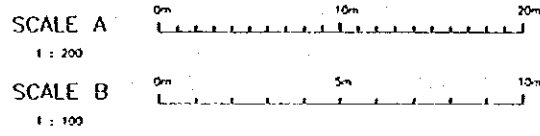
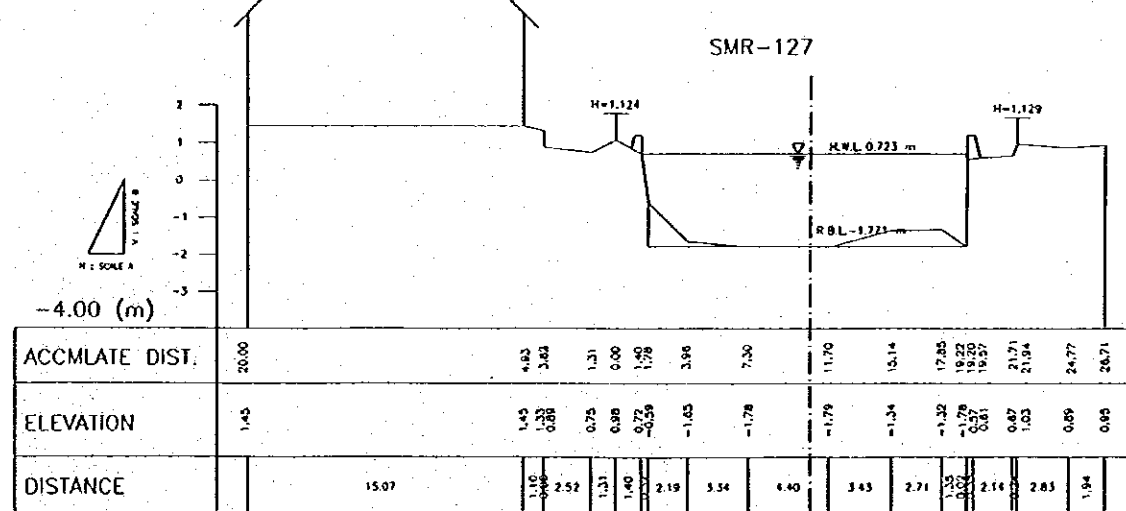
SMR-126+17



SMR-125



SMR-127



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

NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

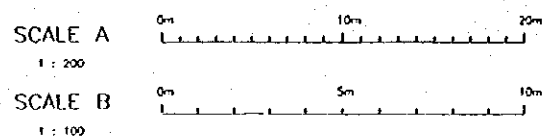
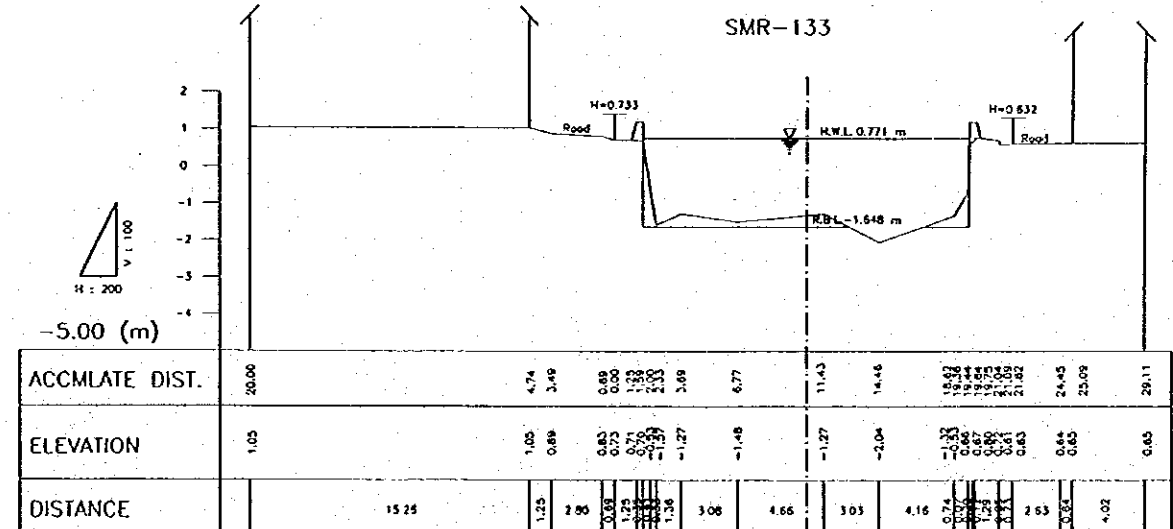
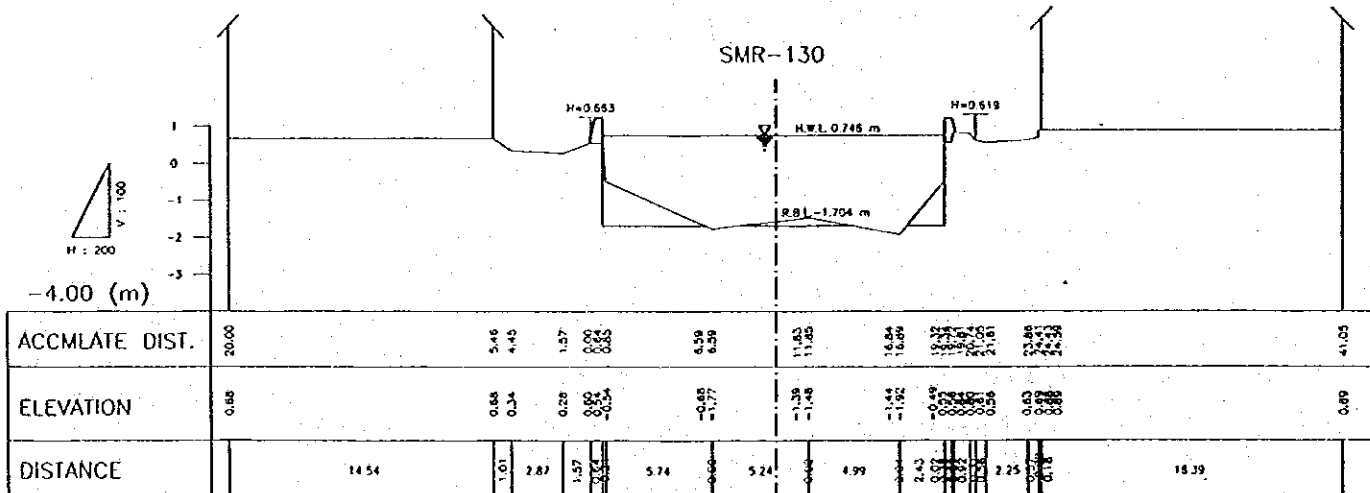
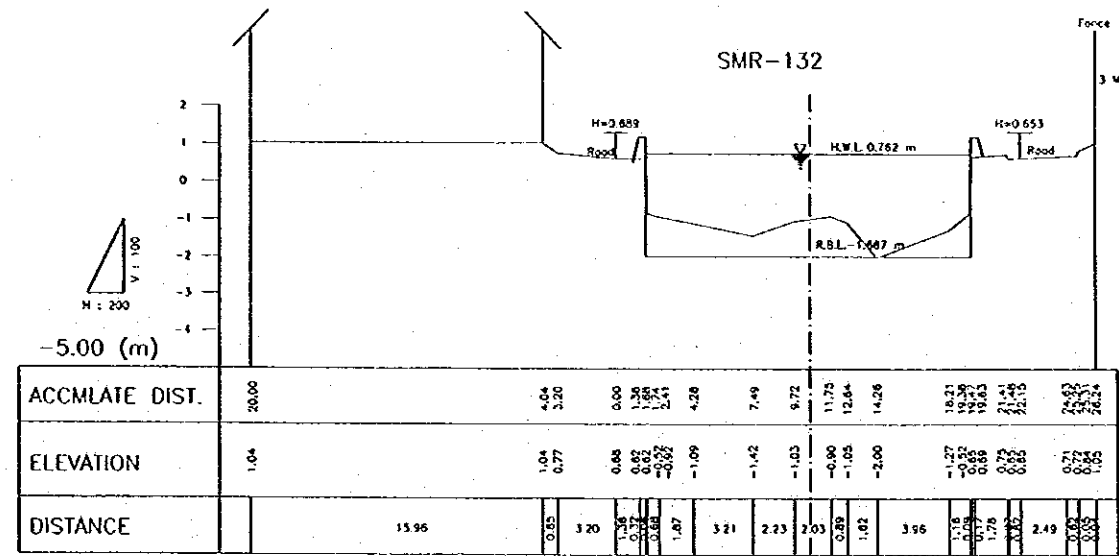
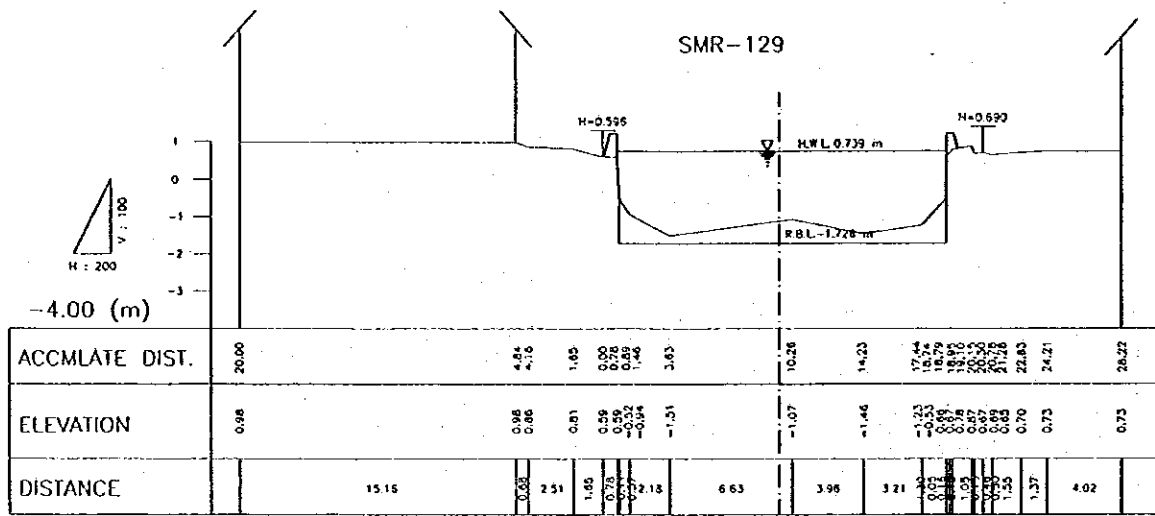
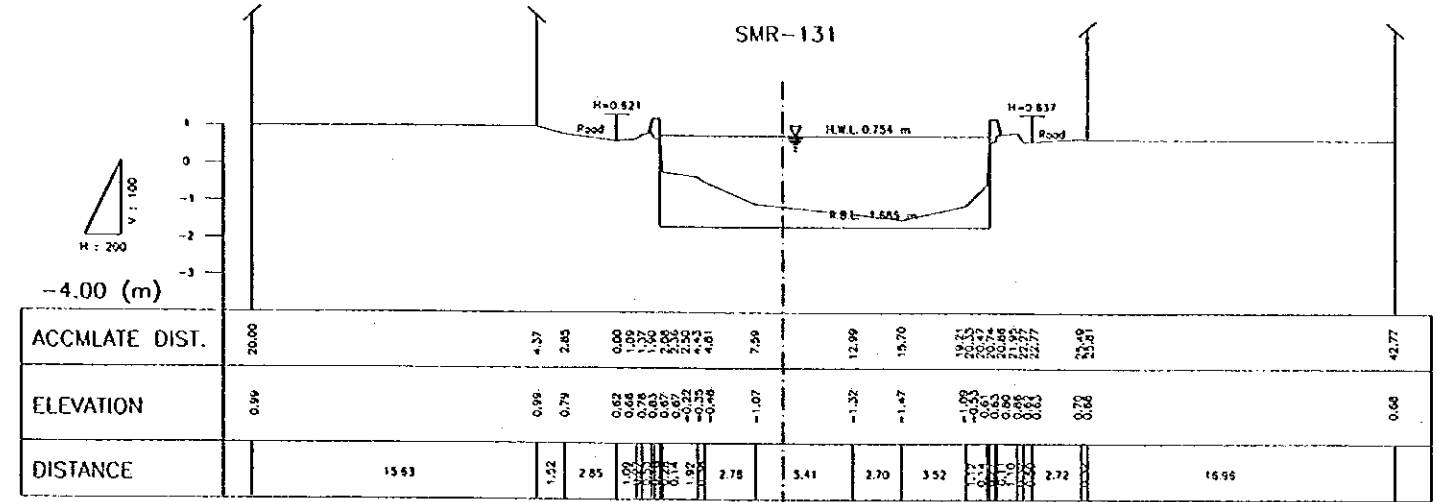
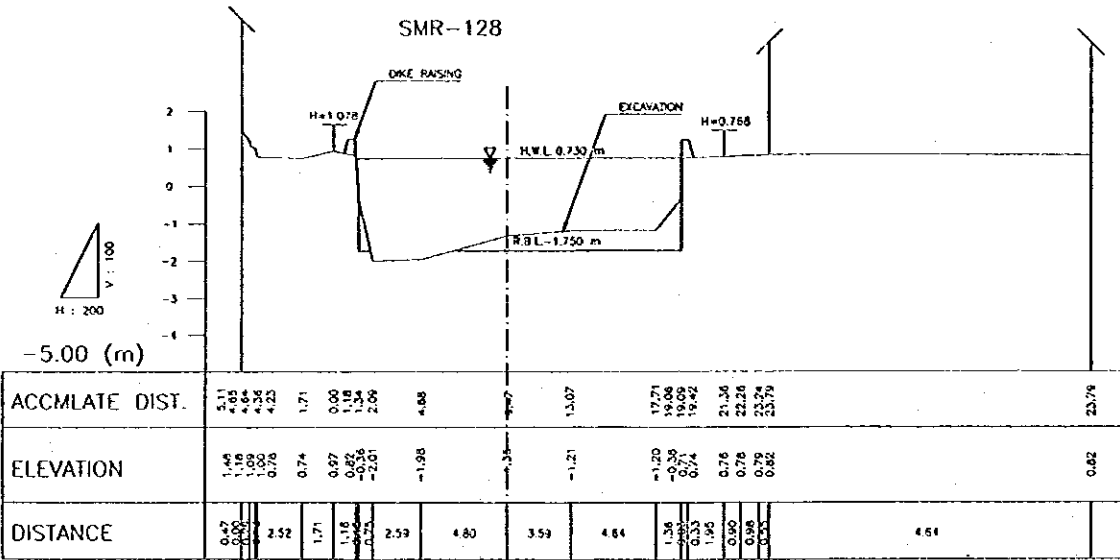
THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
AND DIRECTORATE GENERAL OF URBAN SETTLEMENT

SRATUNBELUNA FLOOD CONTROL PROJECT
COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT
SEMARANG RIVER
CROSS SECTION (15/36)

LAJAN INTERNATIONAL COOPERATION AGENCY
CTI INTERNATIONAL CO., LTD. IN ASSOCIATION WITH
PACIFIC CONSULTANTS (INTERNATIONAL) AND
PARCO INTERNATIONAL INC.

CHIEF OF PLANNING AND DESIGN
PROJECT MANAGER

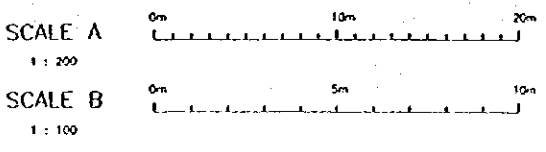
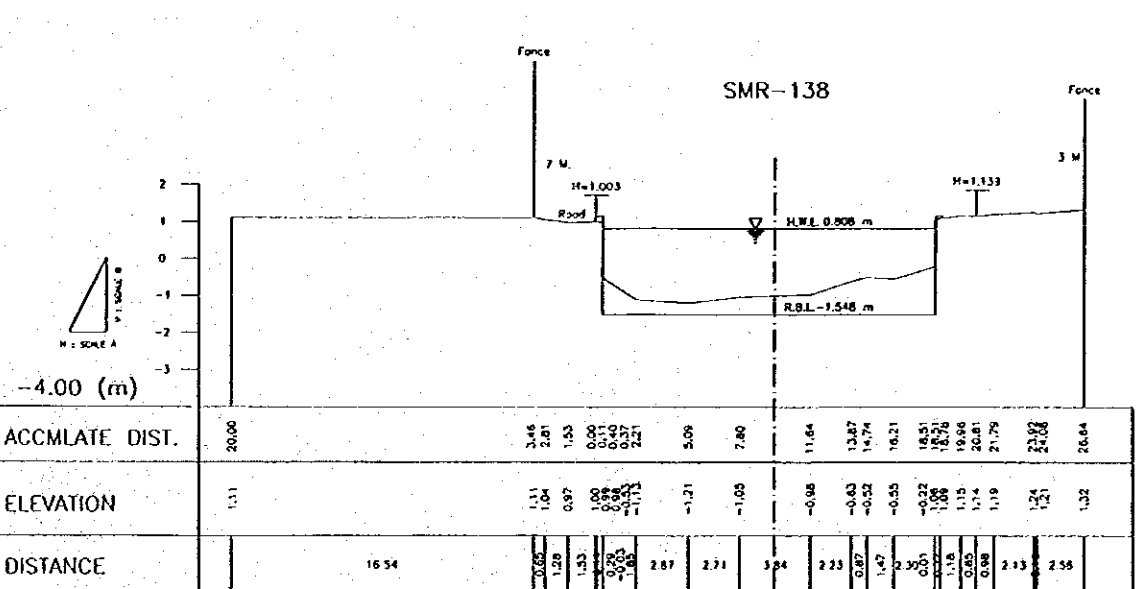
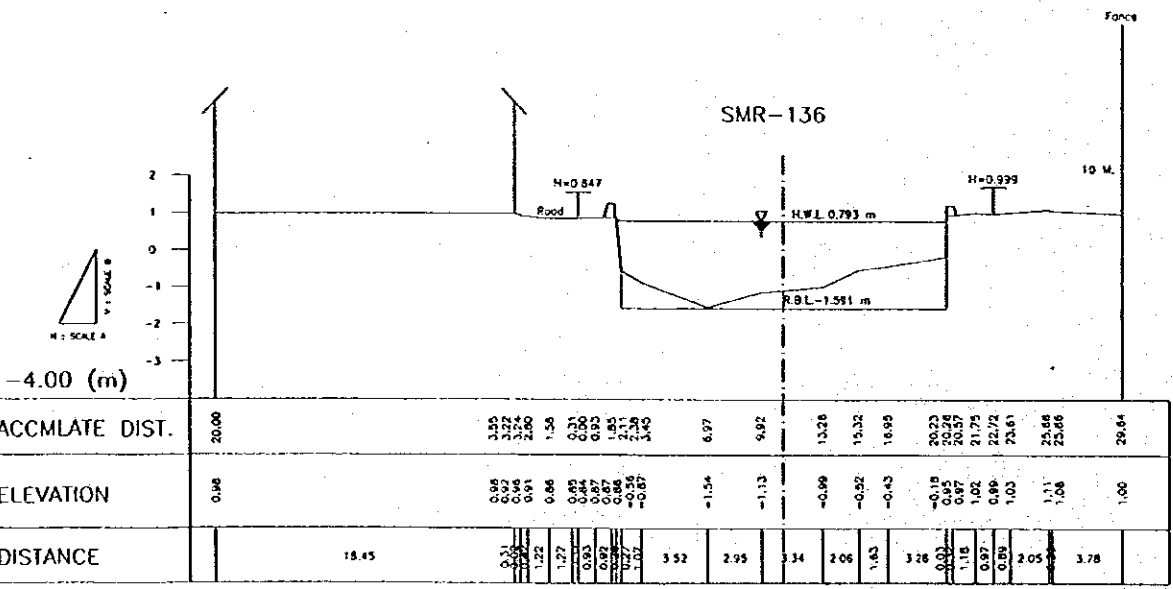
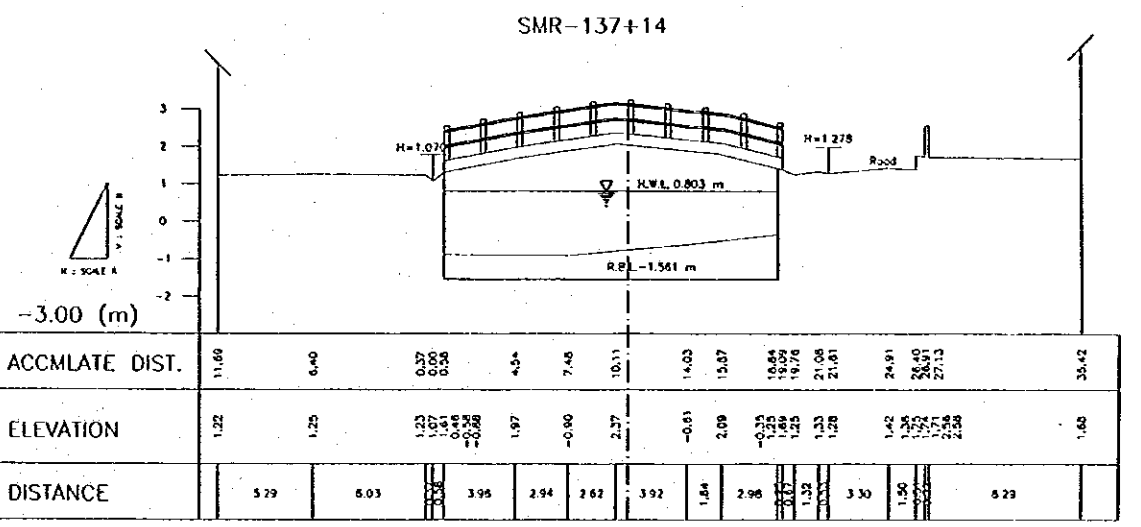
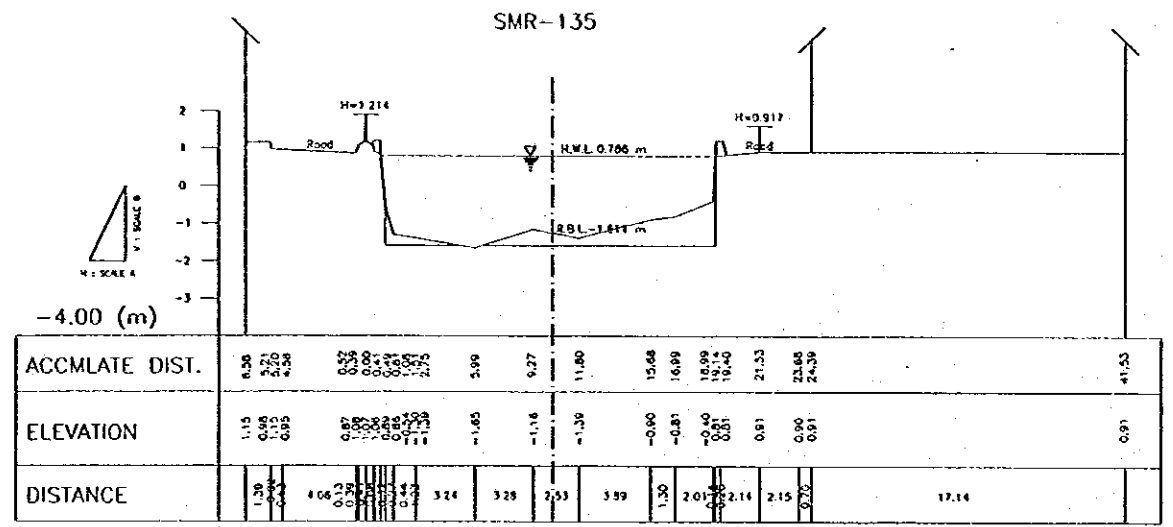
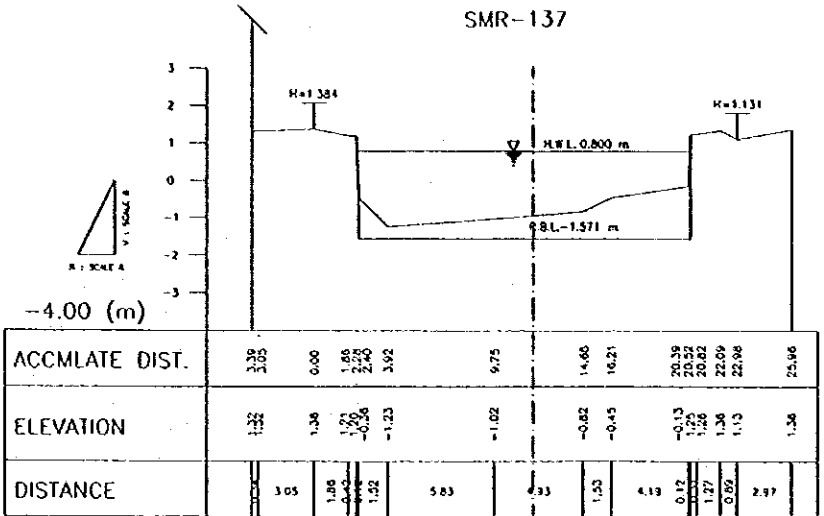
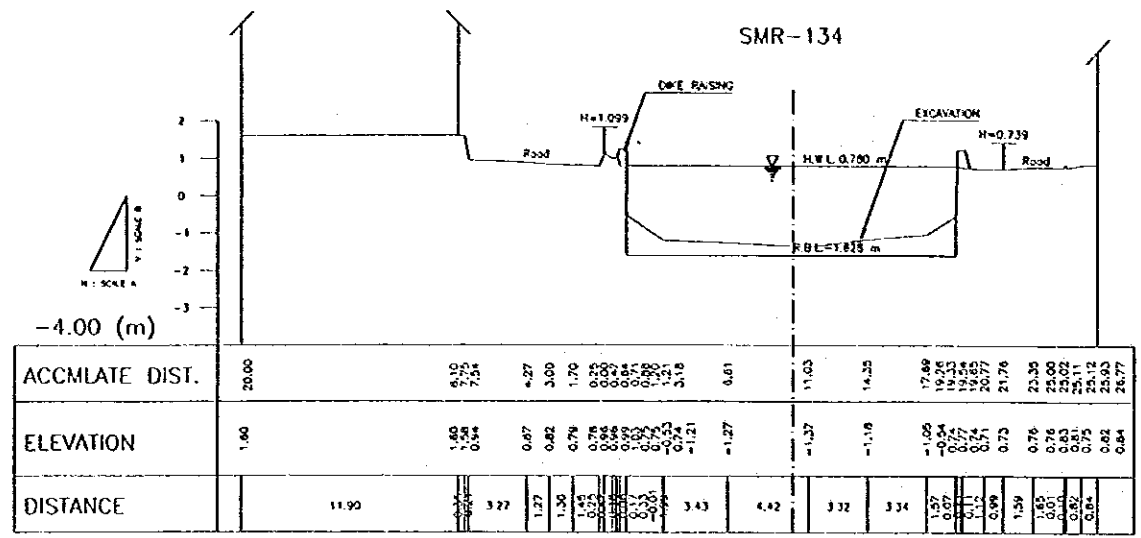
PROVINCE: CENTRAL JAVA
PROJECT NAME: SRATUNBELUNA FLOOD CONTROL PROJECT
WATER RESOURCES DEVELOPMENT IN
SRATUNBELUNA IN THE REPUBLIC OF INDONESIA
DISTRICT: SEMARANG CITY
DRAWING NO. U-P1-S-Cr-15
SHEET NO. 27
DATE: [Signature]
CONTRACT NO. [Signature]



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

NO.	DATE	REVISION	GRADED	DESIGNED	APPROVED

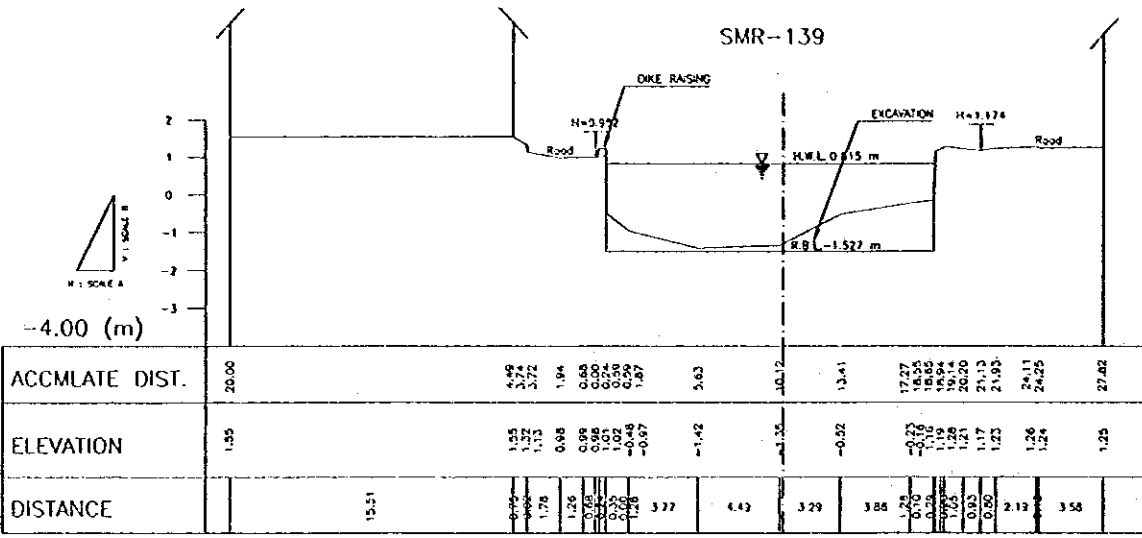
THE REPUBLIC OF INDONESIA		PROVINCE	CENTRAL JAVA
MINISTRY OF PUBLIC WORKS		PROJECT NAME	FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCE DEVELOPMENT OF SEMARANG IN THE REPUBLIC OF INDONESIA
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		DISTRICT	SEMARANG CITY
SEMARANG RIVER CROSS SECTION (16/36)		DRAWING NO.	U-PI-S-Gr-16
JAPAN INTERNATIONAL COOPERATION AGENCY CFI ENGINEERING CO. LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND KAPCO INTERNATIONAL INC.		DISTRICT	SEMARANG CITY
DESIGNED CHECKED PROJECT MANAGER		DATE	CONTRACT NO.
APPROVED			



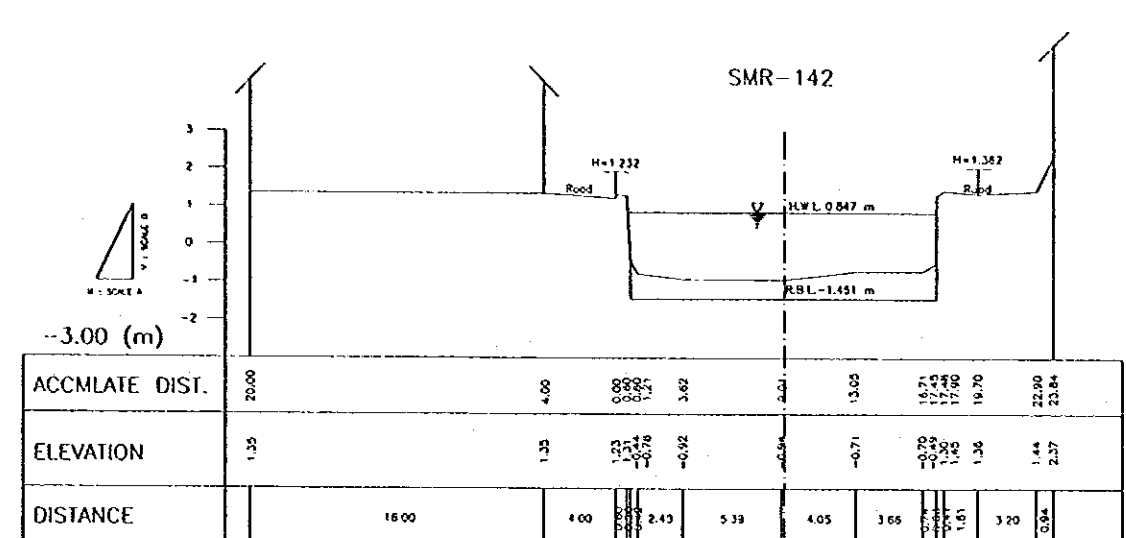
H.W.L. : DESIGN HIGH WATER LEVEL
R.B.L. : DESIGN RIVER BED LEVEL

NO.	DATE	REVISIONS	COORDINATED	DESIGNED	APPROVED

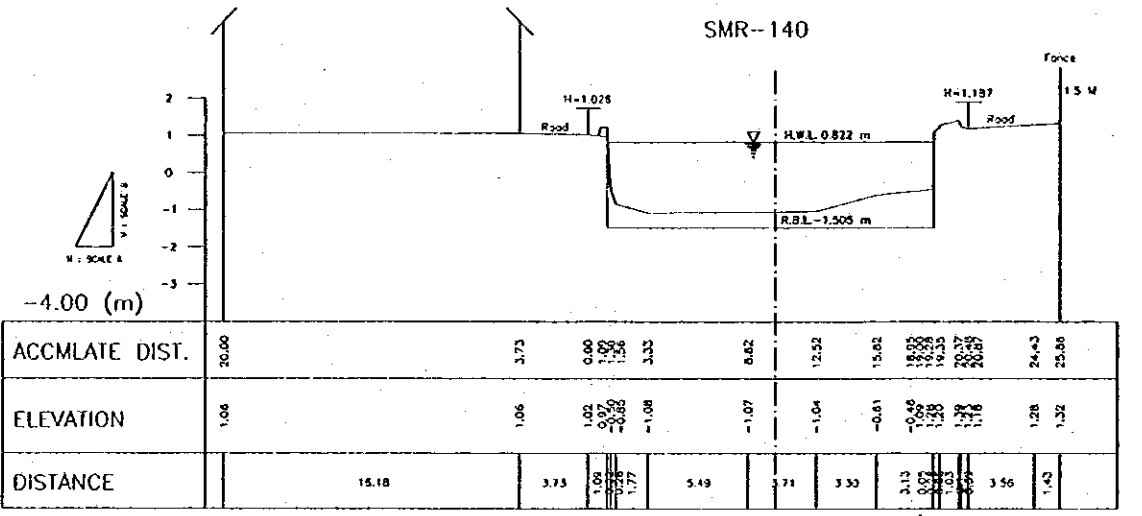
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAWA
SURABAYA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SURABAYA IN THE REPUBLIC OF INDONESIA
SEMARANG RIVER CROSS SECTION (17/36)		DISTRICT SEMARANG CITY
LAJAN INTERNATIONAL COOPERATION AGENCY CTS ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND FAROO INTERNATIONAL INC.		DRAWING NO. U-P1-S-Cr-17
CHECKED [Signature] CHIEF OF PLANNING AND DESIGN		SHEET NO. 29
APPROVED [Signature] PROJECT MANAGER		DATE [Blank]
NO. DATE REVISIONS		CONTRACT NO.



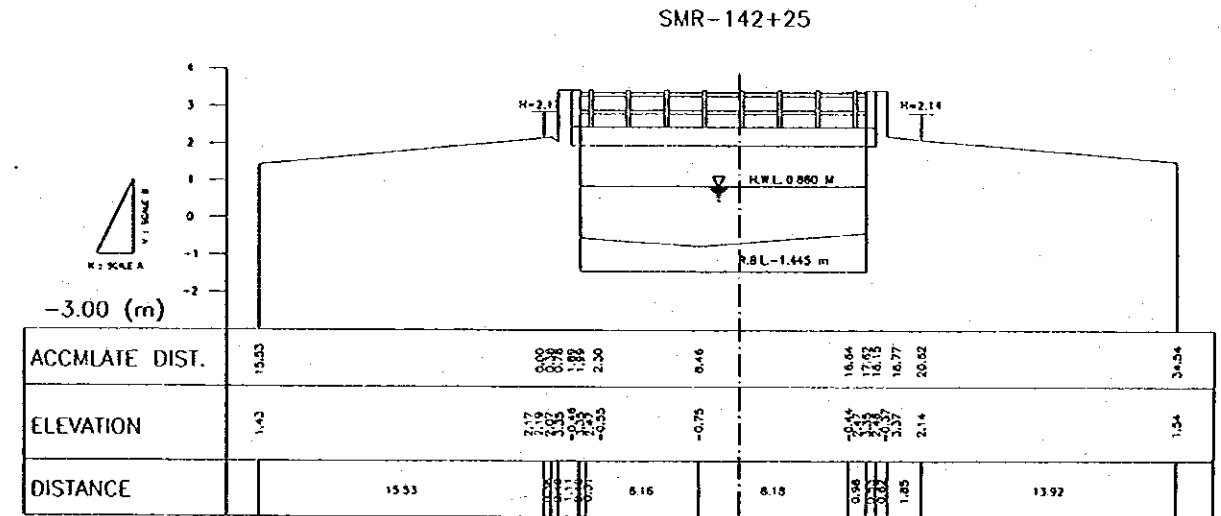
ACCMLATE DIST.	20.00	4.49	3.74	3.72	1.94	0.86	0.60	0.60	0.74	0.59	0.59	1.87	3.63	10.12	13.41	17.27	18.55	18.85	19.14	20.20	21.13	21.93	24.11	24.25	27.82	
ELEVATION	1.35	1.55	1.32	1.13	0.98	0.98	0.98	1.01	0.94	0.87	-0.87	-1.42	-1.35	-0.52	-0.72	-0.72	-0.72	-0.72	-0.72	-0.72	-0.72	-0.72	-0.72	-0.72	-0.72	1.25
DISTANCE		15.51	0.98	0.98	1.78	1.26	0.98	0.98	0.98	0.98	1.28	3.77	4.43	3.29	3.88	0.70	0.39	0.39	0.39	0.39	0.39	0.39	2.19	3.58		



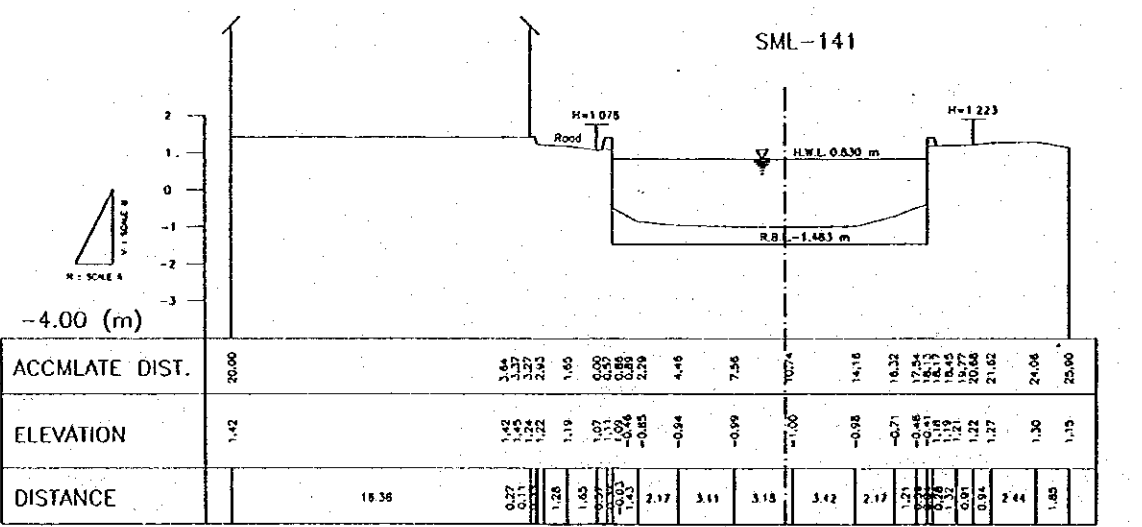
ACCMLATE DIST.	20.00		4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	13.00	16.71	17.44	17.60	17.60	19.70	22.00	23.84
ELEVATION	1.35		1.35	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	-0.54	-0.71	-0.70	-0.70	-0.70	-0.70	1.35	1.44	2.37
DISTANCE		16.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.43	5.33	4.05	3.65	0.70	0.70	1.81	3.20	0.94



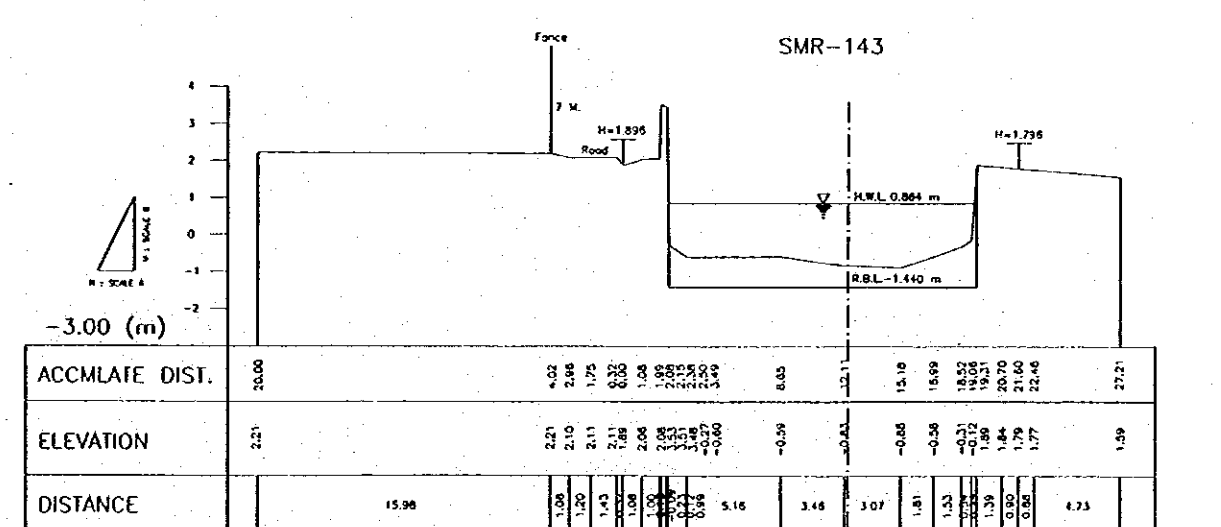
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ELEVATION	1.08		1.06	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	-1.08	-1.07	-1.04	-0.81	-0.81	-0.81	-0.81	-0.81	-0.81	-0.81	-0.81	-0.81	-0.81	1.28	1.32
DISTANCE		15.18	3.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.49	7.71	3.30	3.13	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	3.56	1.42	



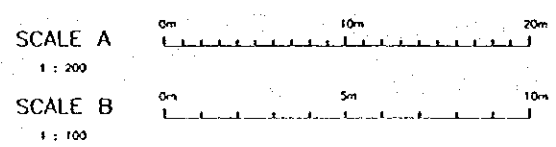
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ELEVATION	1.42		1.17	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	-0.35	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	2.14	1.24
DISTANCE		15.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.16	8.18	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	13.92		



ACCMLATE DIST.	20.00		3.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.90
ELEVATION	1.42		1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	-0.85	-0.84	-0.99	-0.71	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	1.30	1.15
DISTANCE		18.38	0.27	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	2.17	3.11	3.15	3.42	2.17	1.51	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	2.44	1.85	



ACCMLATE DIST.	20.00		4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ELEVATION	2.21		2.21	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10
DISTANCE		15.98	1.00	1.20	1.43	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	5.16	3.48	3.07	1.81	1.53	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25



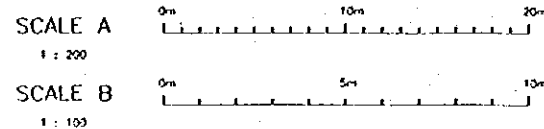
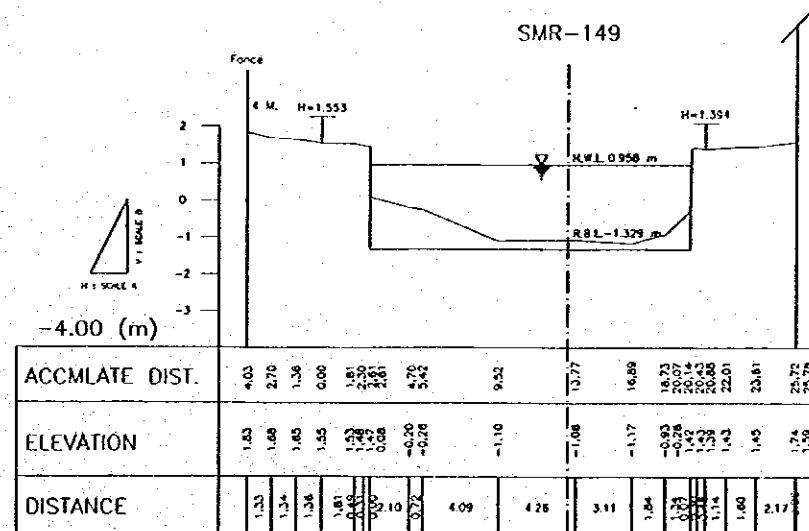
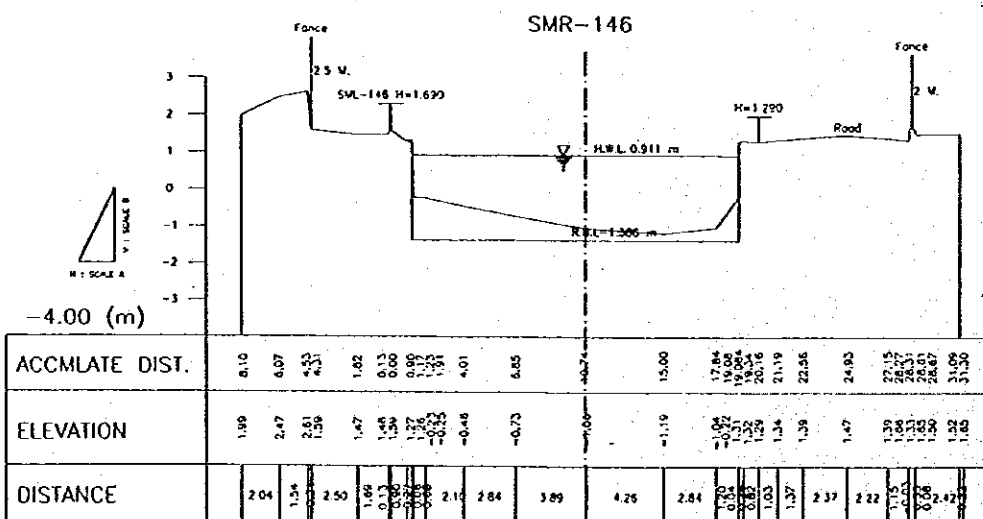
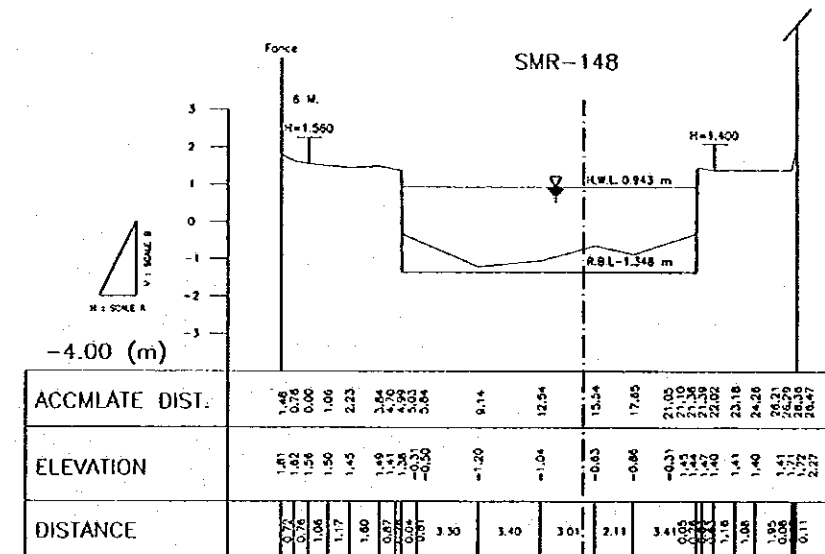
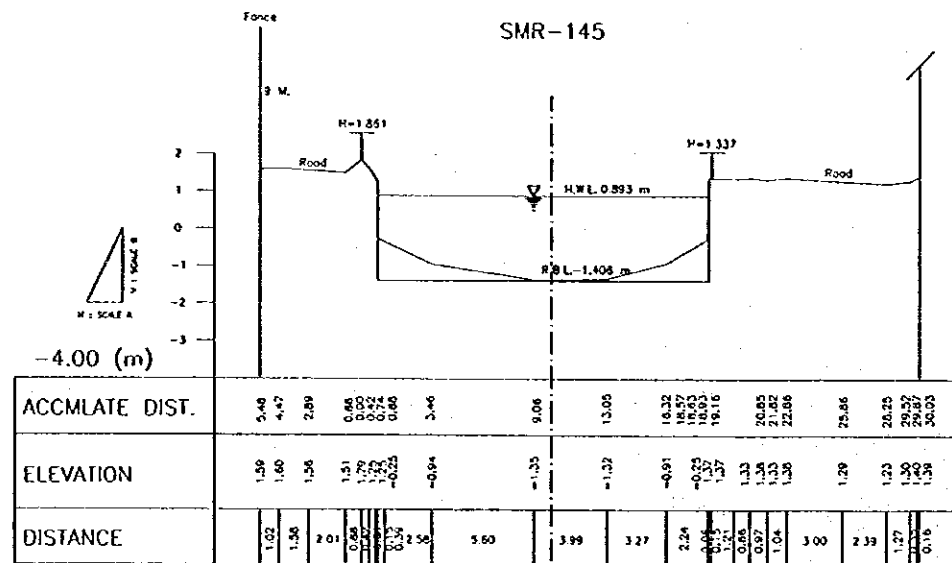
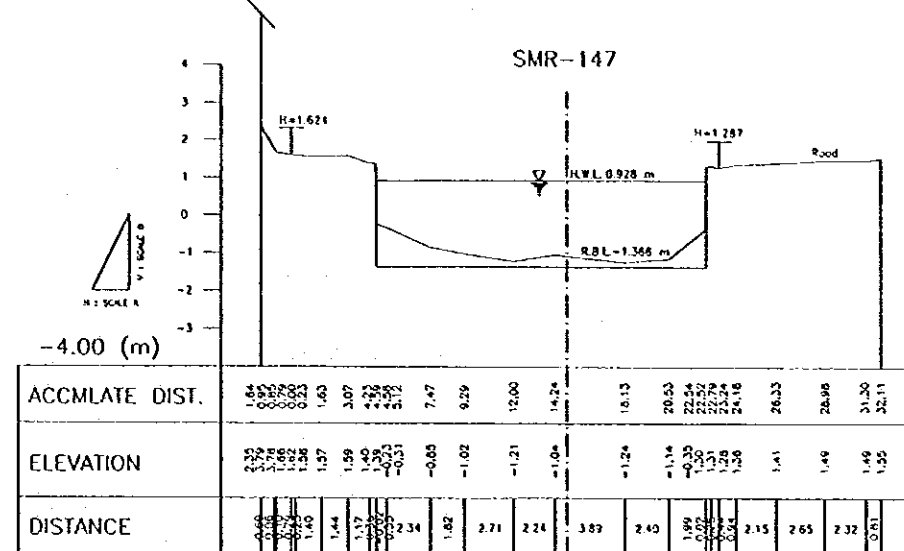
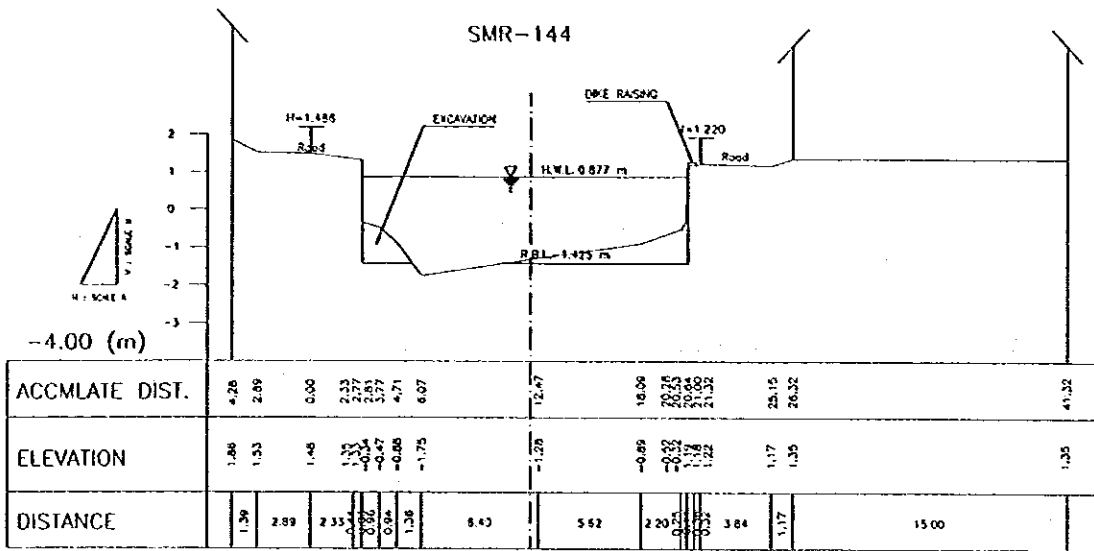
H.W.L. : DESIGN HIGH WATER LEVEL
R.B.L. : DESIGN RIVER BED LEVEL

NO.	DATE	REVISIONS	GRADUATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT
JATUNGGRUNA FLOOD CONTROL PROJECT
COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT
SEMARANG RIVER CROSS SECTION (18/36)

PROVINCE : CENTRAL JAVA
PROJECT NAME : FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
DISTRICT : SEMARANG CITY
DRAWING NO. : U-PI-S-Cr-18
SHEET NO. : 30

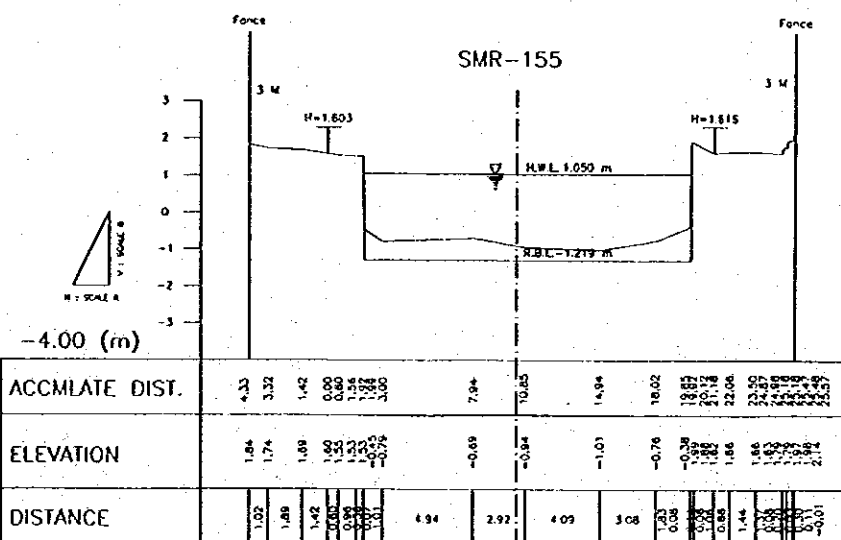
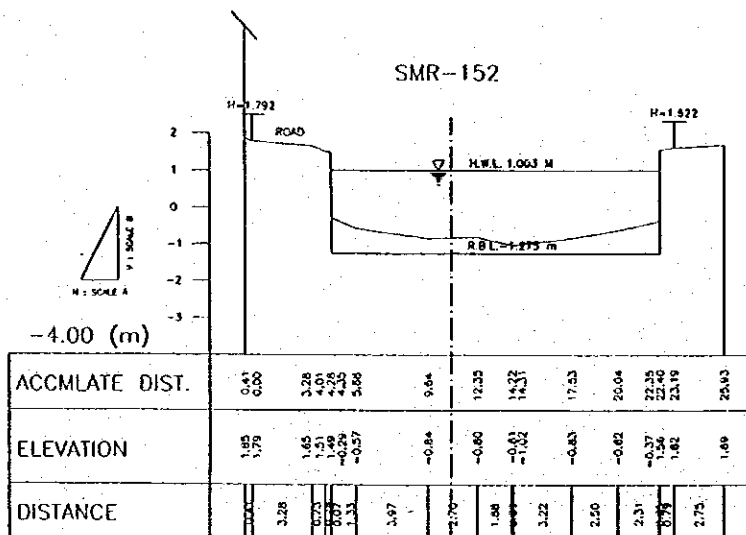
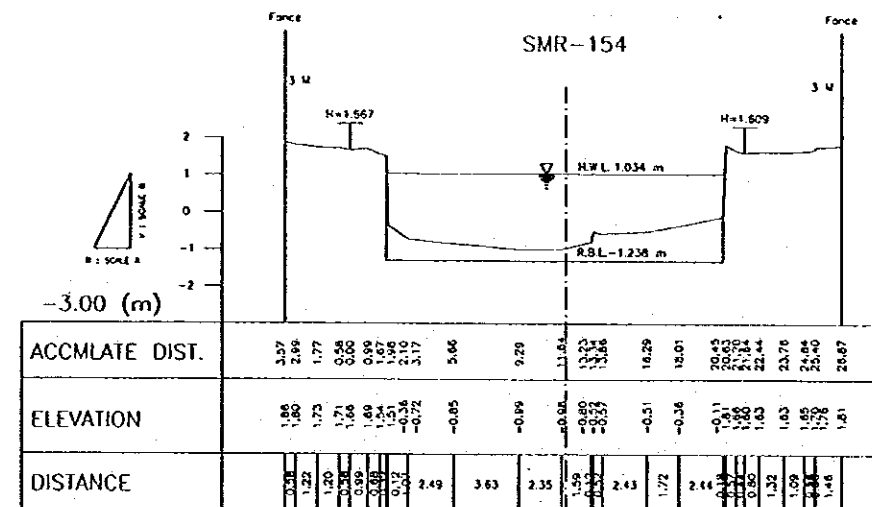
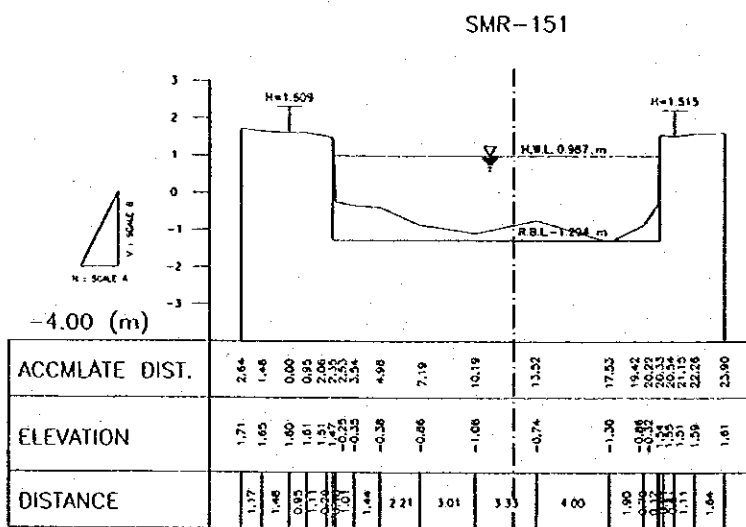
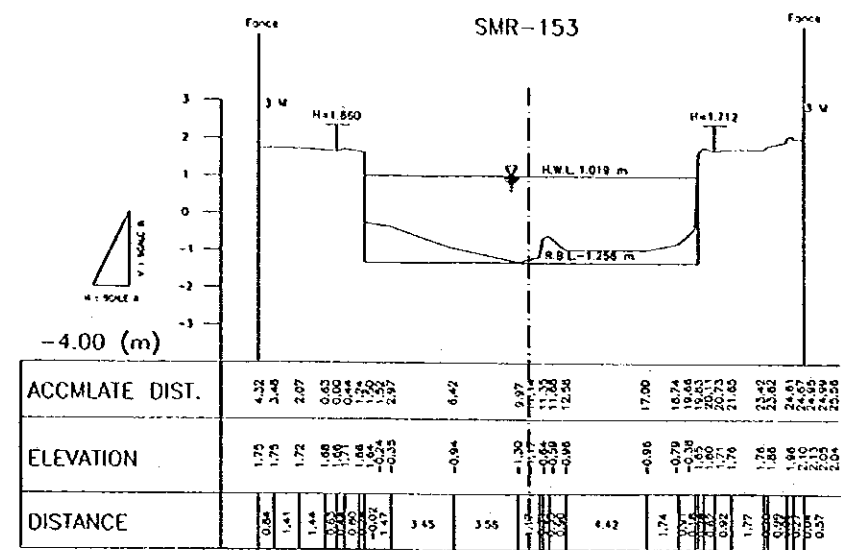
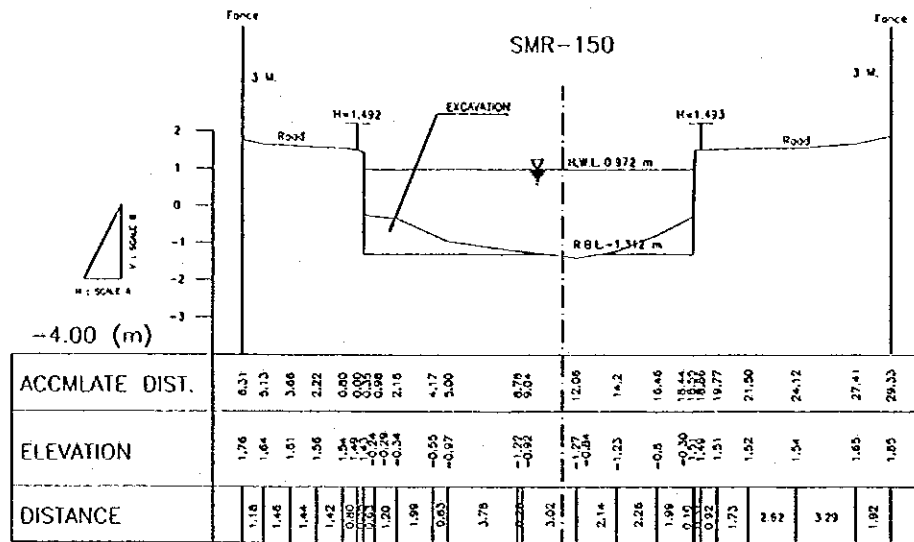
DATE : CONTRACT NO. :
APPROVED : [Signature]
PROJECT MANAGER



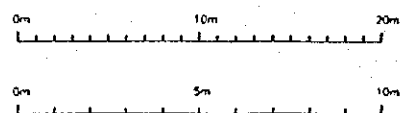
H.W.L. : DESIGN HIGH WATER LEVEL
R.B.L. : DESIGN RIVER BED LEVEL

NO.	DATE	REVISIONS	DRAWN	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
IRATUNSELURA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT SEMARANG RIVER CROSS SECTION (1976)		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
TAJAN INTERNATIONAL COOPERATION AGENCY CIVIL ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL, INC. AND TAJAN INTERNATIONAL, INC.		DISTRICT SEMARANG CITY
DESIGNED CHECKED	DATE CONTRACT NO.	DRAWING NO. U.P.I.-S-Cr-19 SHEET NO. 31
CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		



SCALE A
1 : 200
SCALE B
1 : 100



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

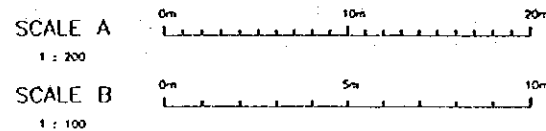
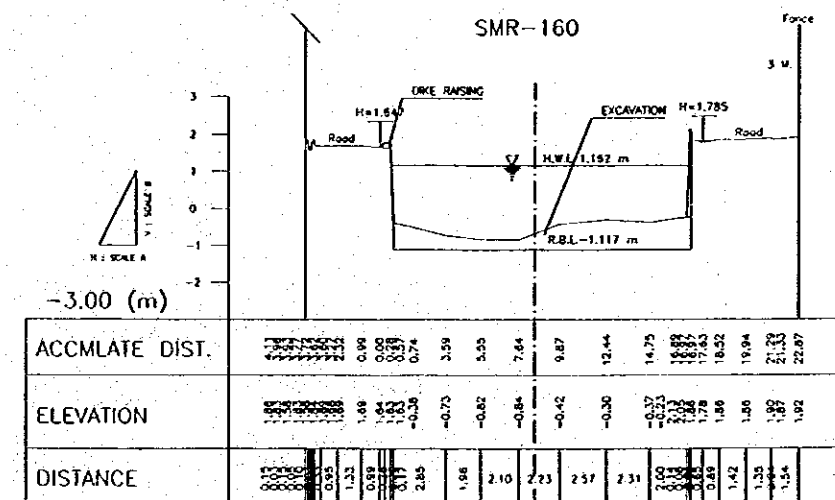
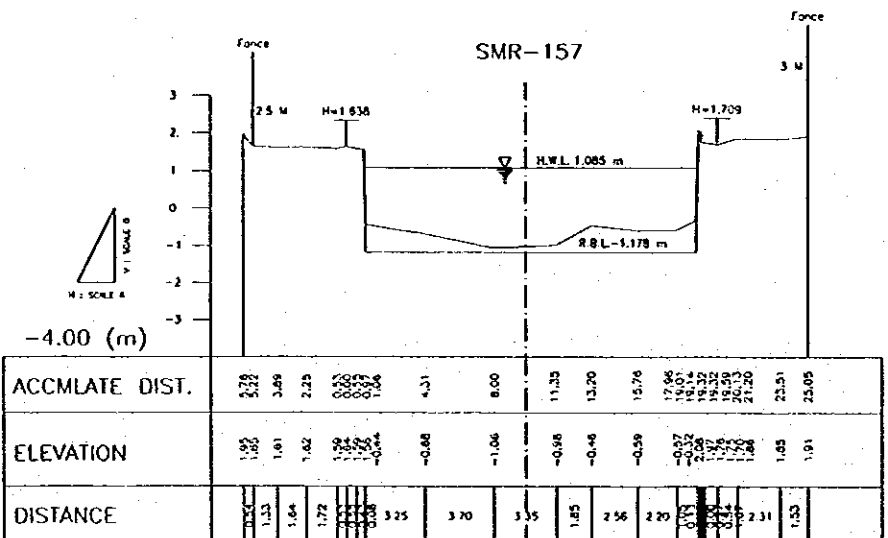
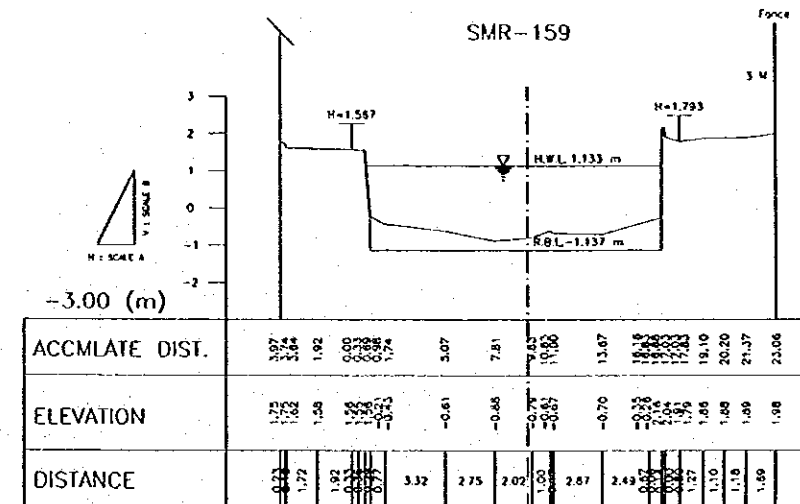
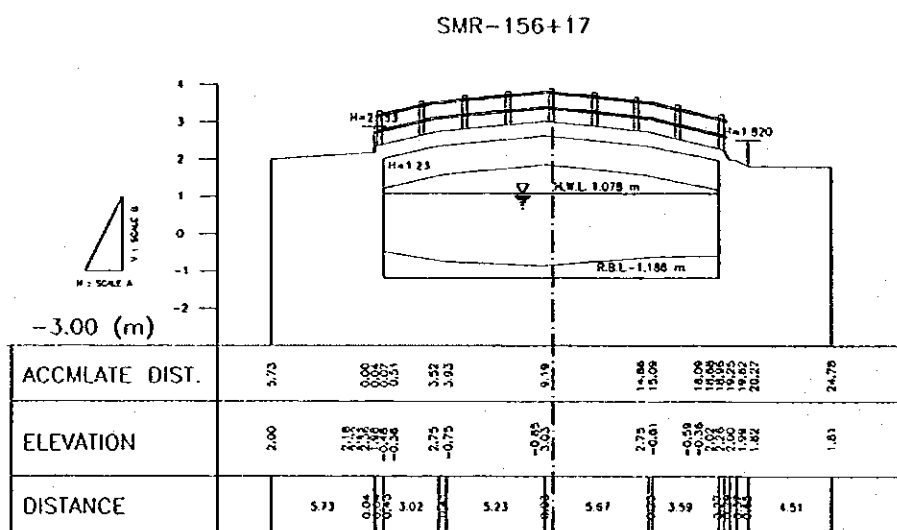
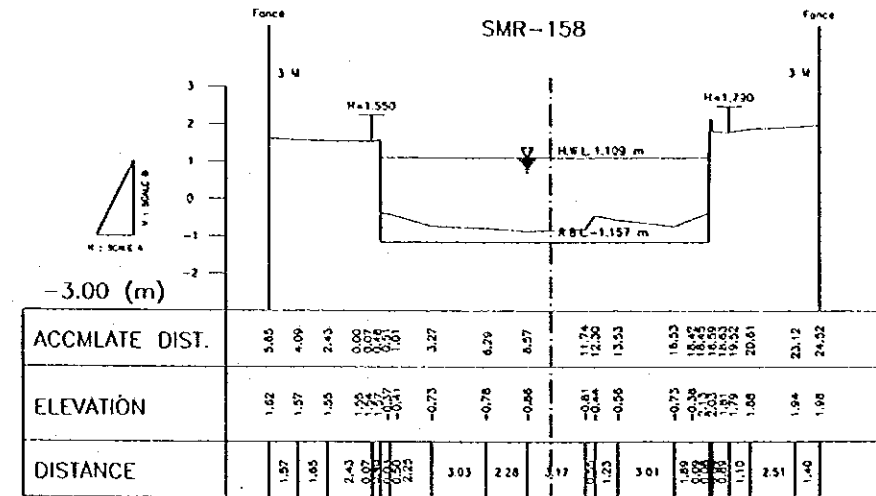
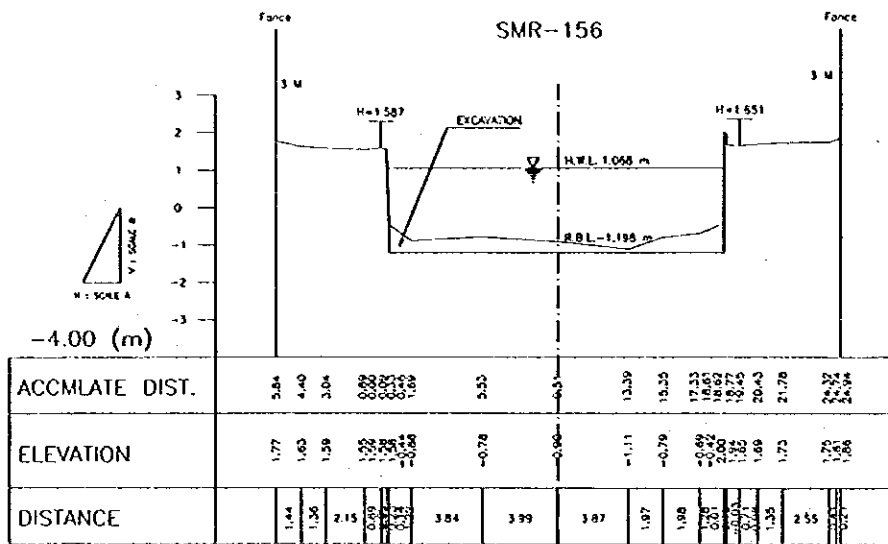
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT
JATUNSELURAN FLOOD CONTROL PROJECT
COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT
SEMARANG RIVER
CROSS SECTION (2016)

PROVINCE: CENTRAL JAVA
PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
DISTRICT: SEMARANG CITY
DRAWING NO. U-PI-S-Cr-20
SHEET NO. 32
DATE: CONTRACT NO.

JAPAN INTERNATIONAL COOPERATION AGENCY
CIJ IN ASSOCIATION WITH
PACIFIC CONSULTANTS INTERNATIONAL INC.
PACIFIC INTERNATIONAL INC.

DESIGNED: CHECKED: PROJECT MANAGER:



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

NO.	DATE	REVISIONS	DRAWN	DESIGNED	APPROVED	PROJECT MANAGER

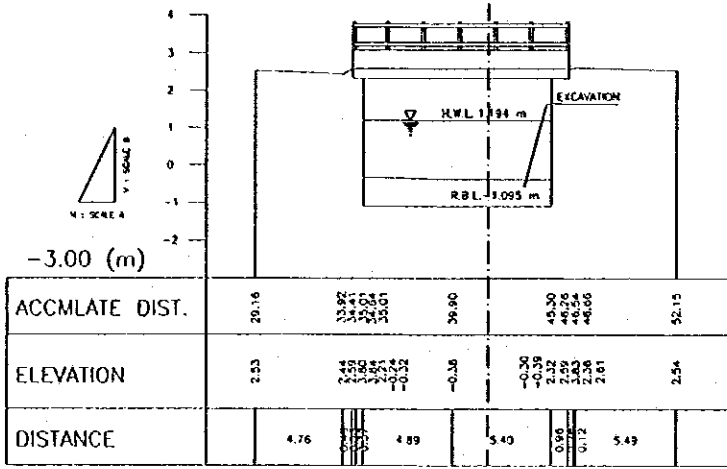
THE REPUBLIC OF INDONESIA
 MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT
 JAWA TIMUR REGIONAL FLOOD CONTROL PROJECT
 COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT
 SEMARANG RIVER
 CROSS SECTION (21/56)

PROVINCE: CENTRAL JAVA
 PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG CITY
 DISTRICT: SEMARANG CITY
 DRAWING NO.: U-Pl-S-Cr-21
 SHEET NO.: 33
 DATE: [blank]
 CONTRACT NO.: [blank]

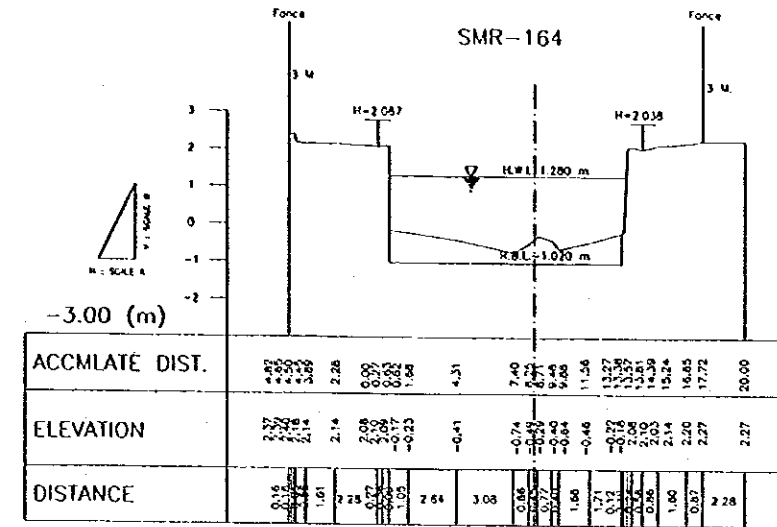
JAPAN INTERNATIONAL COOPERATION AGENCY
 CITI ENGINEERING CO., LTD.
 PACIFIC CONSULTANTS INTERNATIONAL, INC.
 PAKD PERSERIKATAN PERUSAHAAN SAHABAT
 CITEE OF PLANNING AND DESIGN

DESIGNED: [blank]
 CHECKED: [blank]
 APPROVED: [blank]

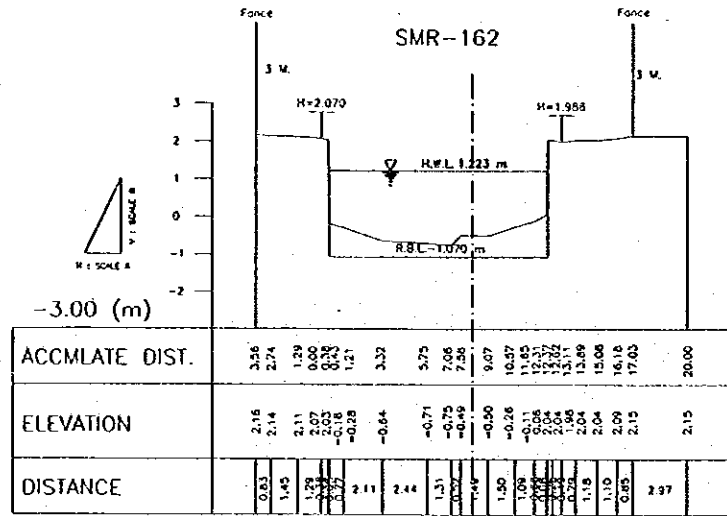
BRIDGE SMR-161



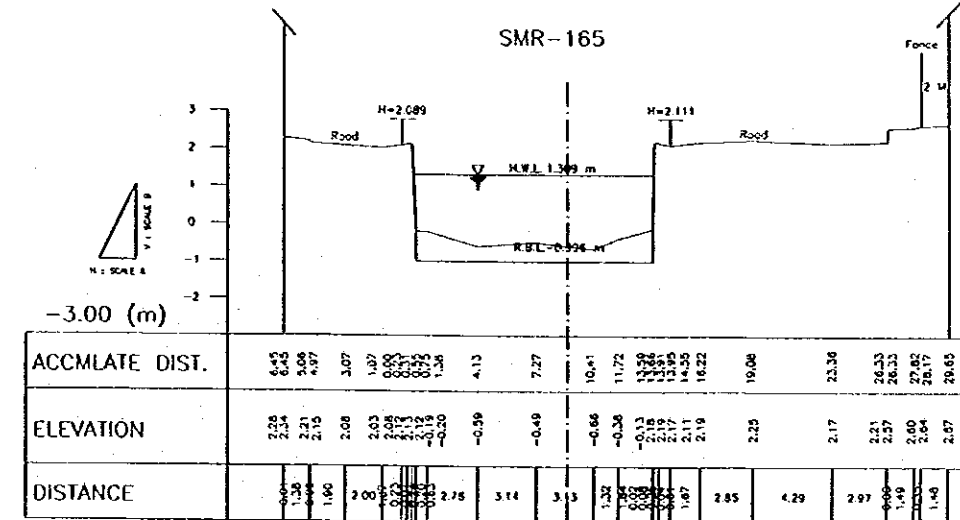
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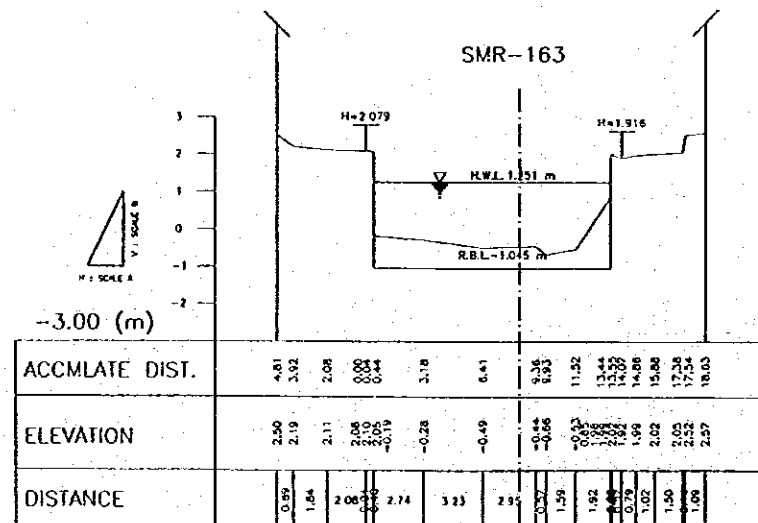
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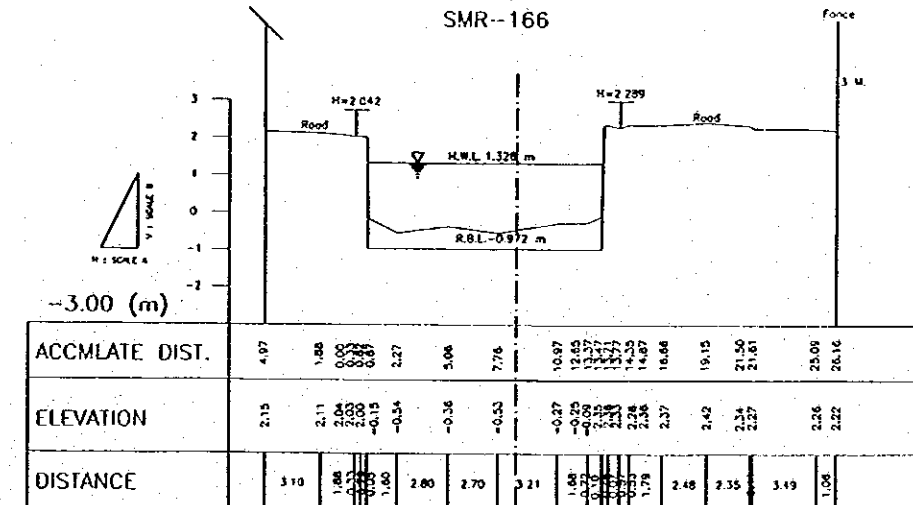
SMR-165



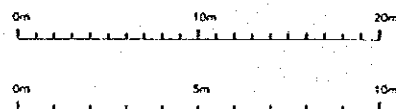
SMR-163



SMR-166



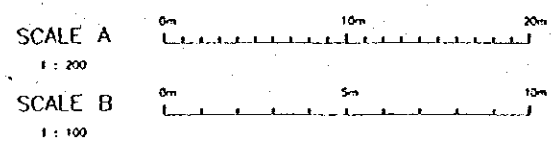
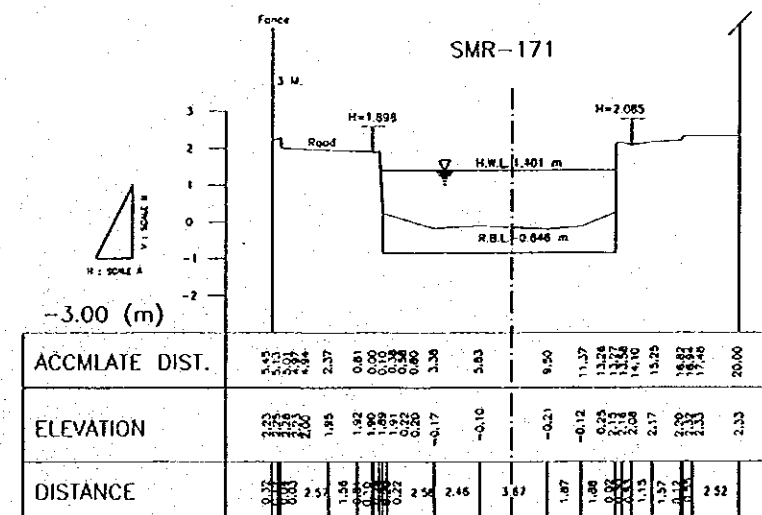
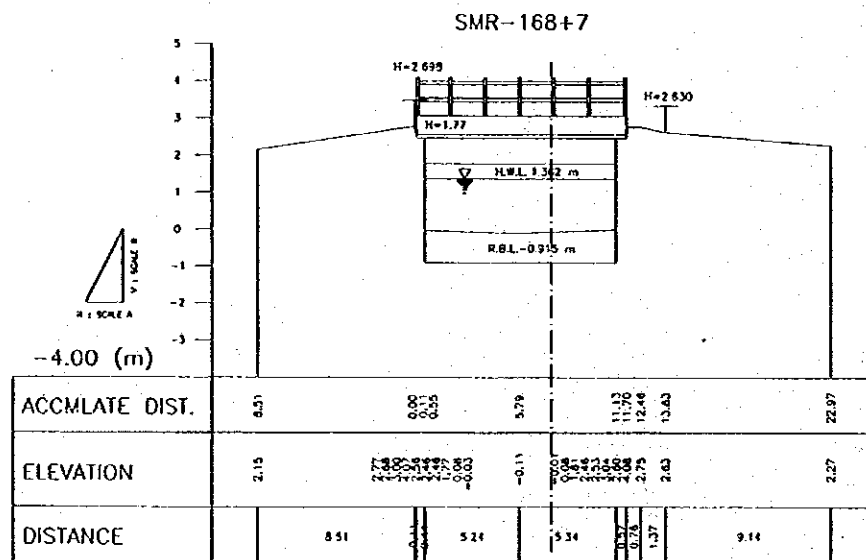
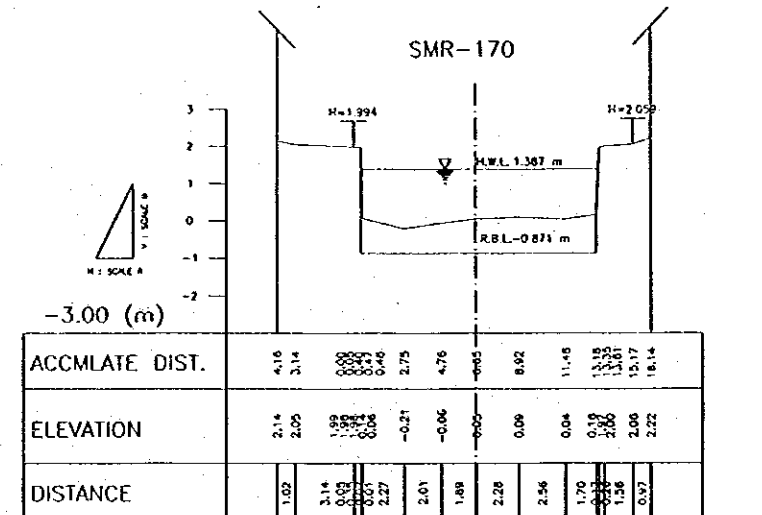
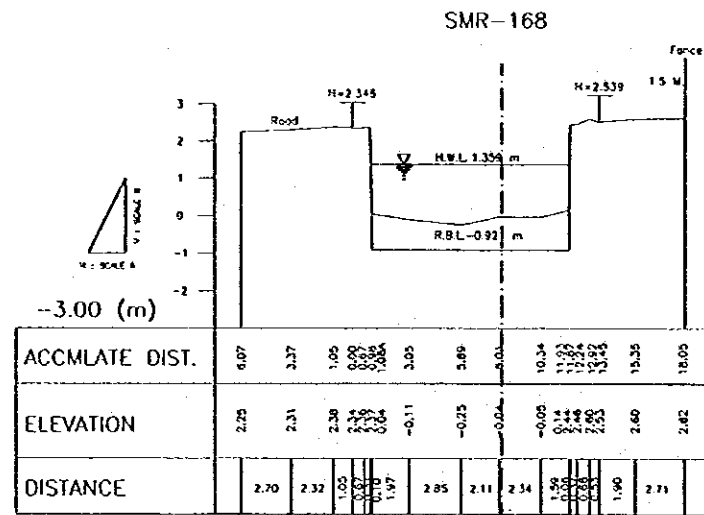
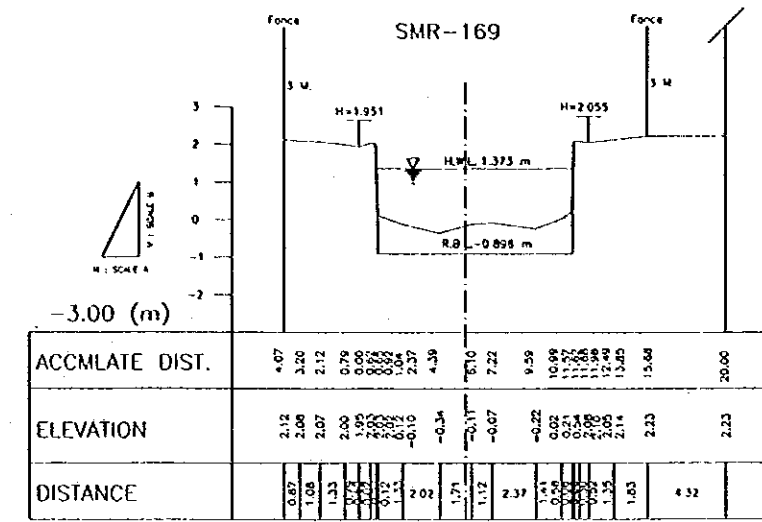
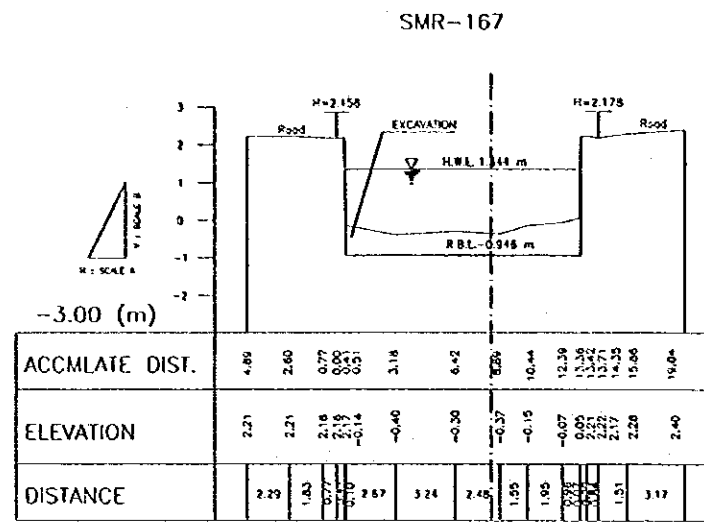
SCALE A
1 : 200
SCALE B
1 : 100



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

NO.	DATE	REVISIONS	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
RIATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT SEMARANG RIVER CROSS SECTION (22/36)		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) AND PACIFIC CONSULTANTS INTERNATIONAL (PCI) AND JAWA INTERNATIONAL (JIS)		DISTRICT SEMARANG CITY
APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		DRAWING NO. U-P1-S-Cr-22 SHEET NO. 34 DATE CONTRACT NO.



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

NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT

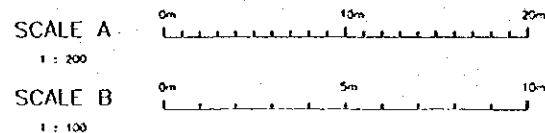
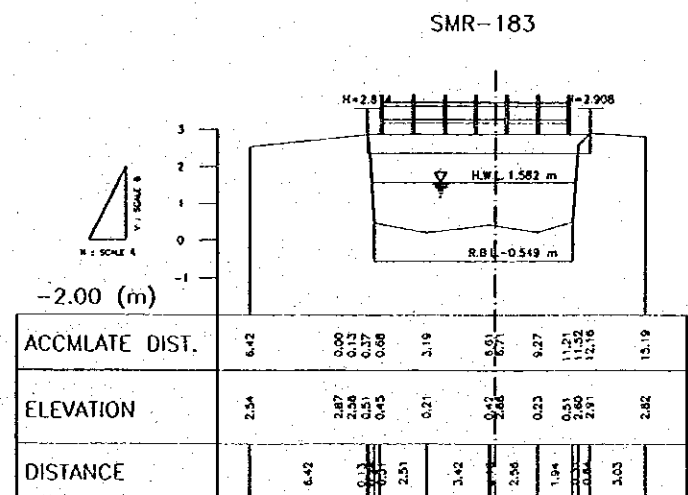
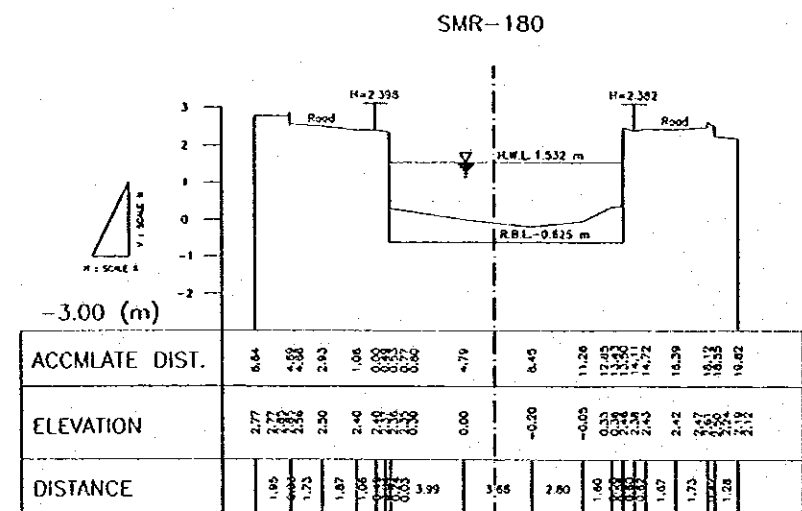
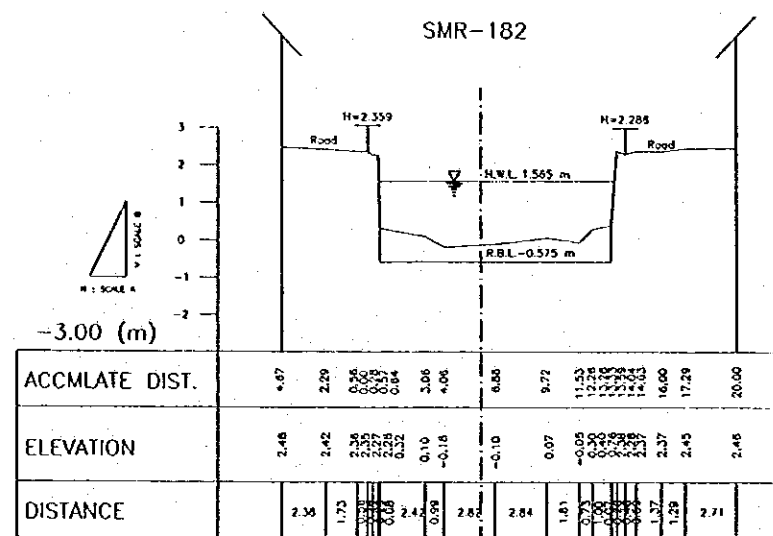
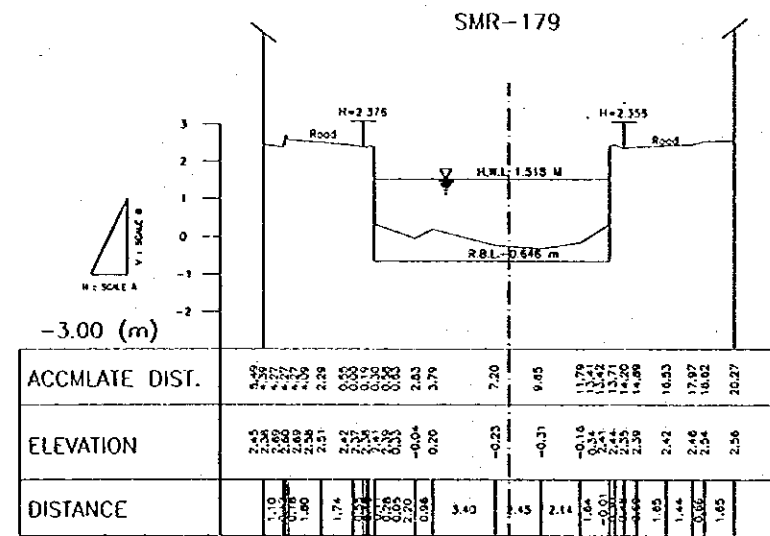
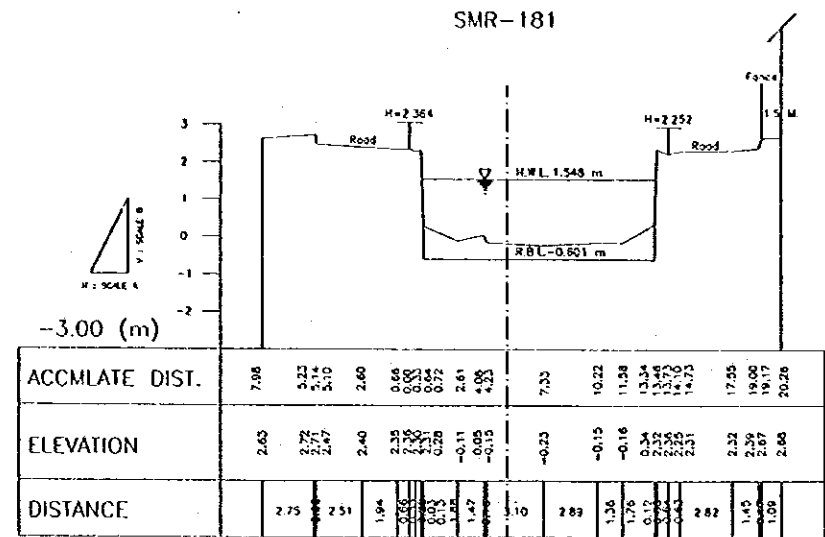
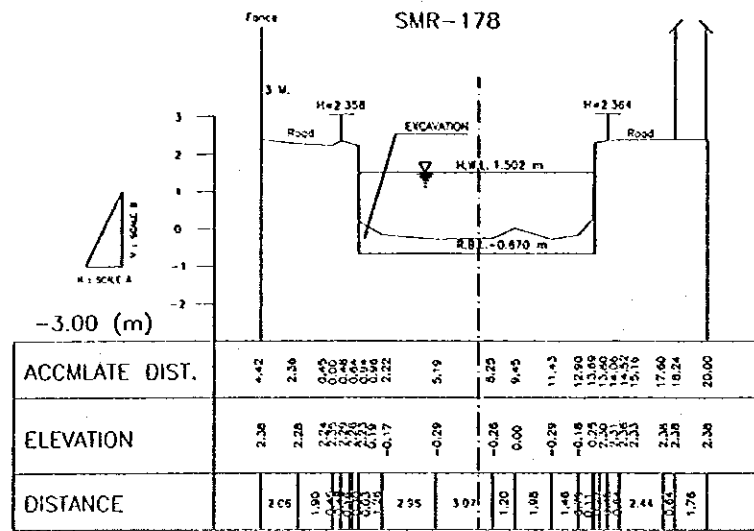
MATURUNGLA FLOOD CONTROL PROJECT
COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT

SEMARANG RIVER
CROSS SECTION (23/56)

JAPAN INTERNATIONAL COOPERATION AGENCY
CII ENGINEERING CO., LTD. IN ASSOCIATION WITH
PACIFIC CONSULTANTS INTERNATIONAL, INC.
PACIFIC CONSULTANTS INTERNATIONAL, INC.

CHECKED: *[Signature]*
APPROVED: *[Signature]*
PROJECT MANAGER

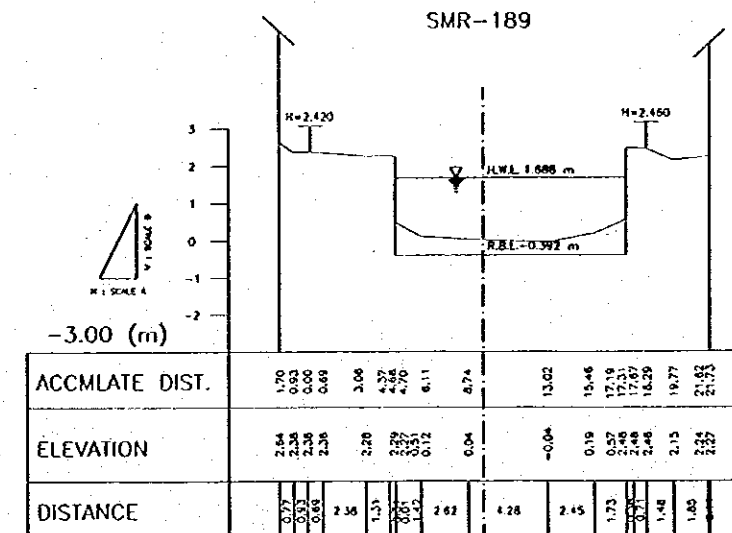
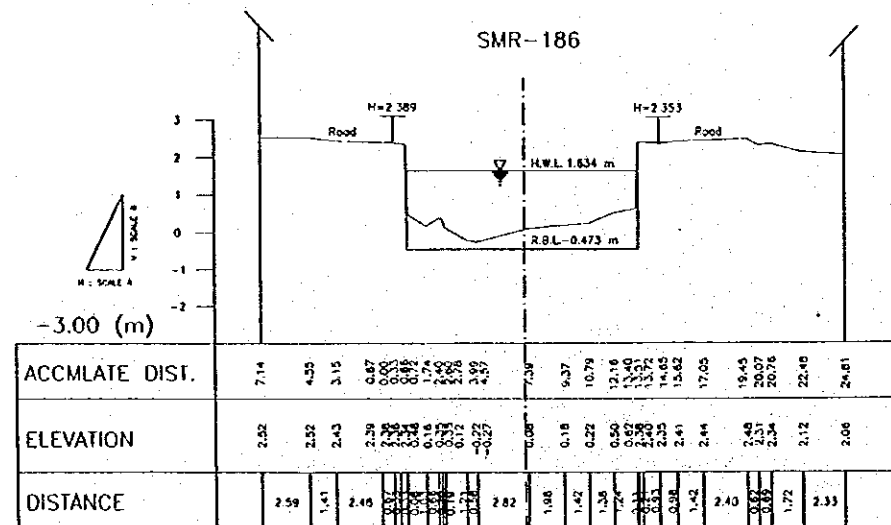
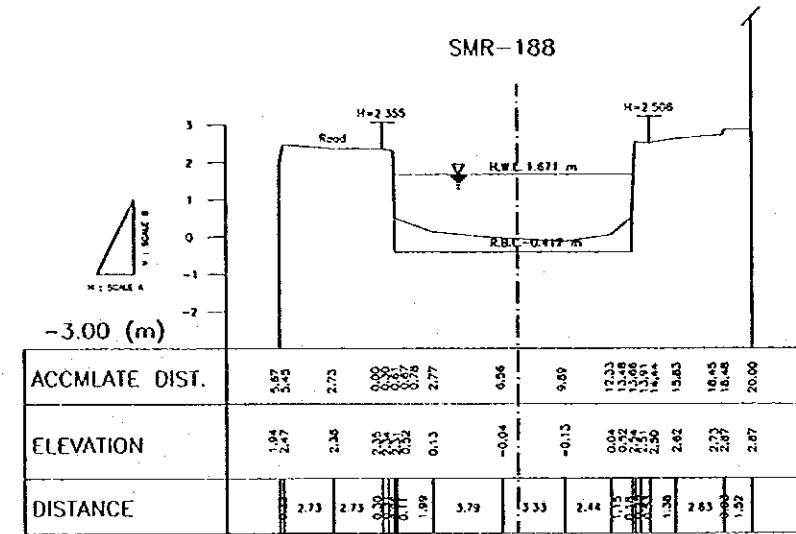
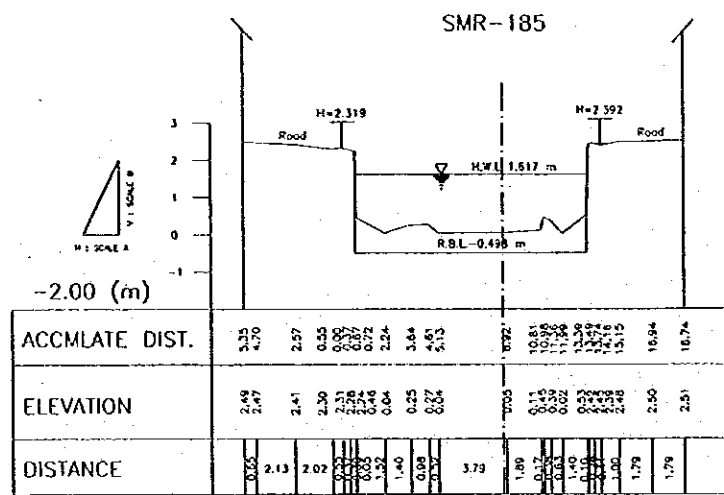
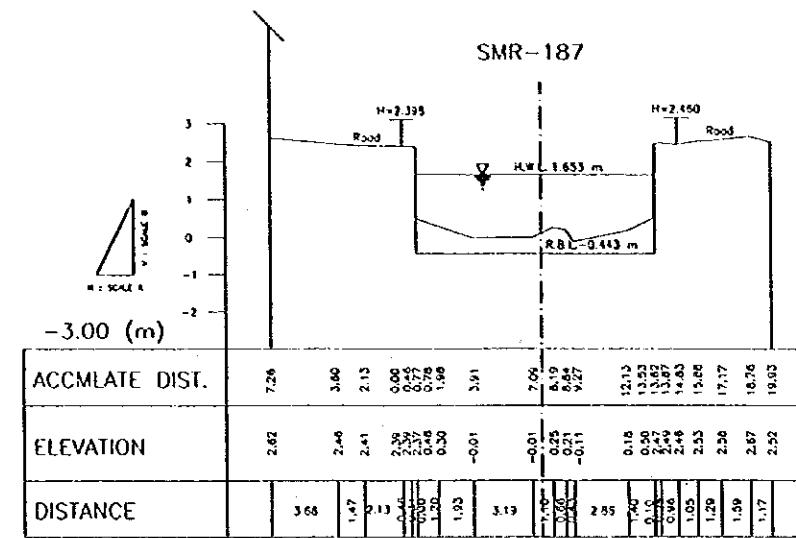
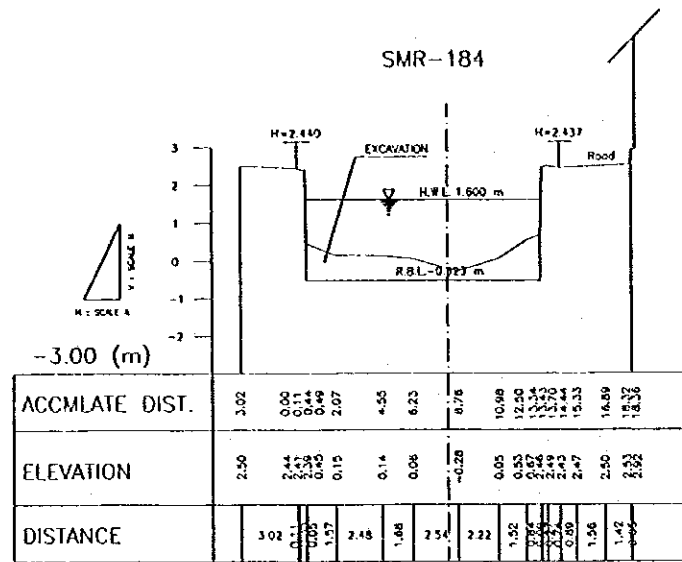
PROVINCE: CENTRAL JAWA
DISTRICT: SEMARANG CITY
DRAWING NO.: U-P1-S-Cr-23
SHEET NO.: 35
DATE: *[Date]*
CONTRACT NO.: *[Contract No.]*



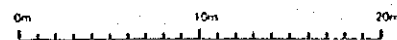
H.W.L. : DESIGN HIGH WATER LEVEL
R.B.L. : DESIGN RIVER BED LEVEL

NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

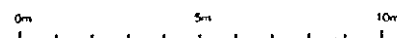
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
IRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT SEMARANG RIVER CROSS SECTION (25/36)		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY CITY ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL INC.		DISTRICT SEMARANG CITY
CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		DRAWING NO. U-P1-S-Cr-25 SHEET NO. 37
CHECKED APPROVED		DATE CONTRACT NO.



SCALE A
1 : 200



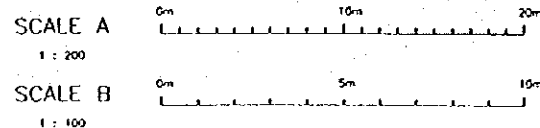
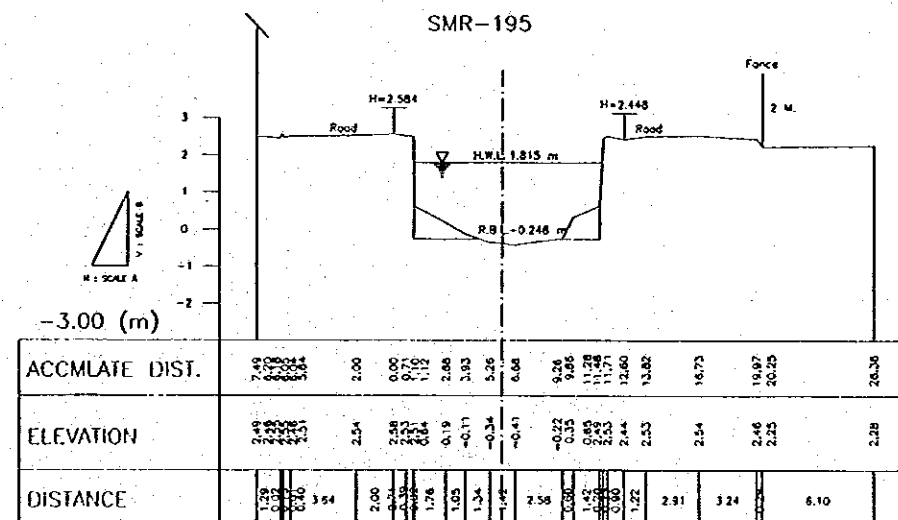
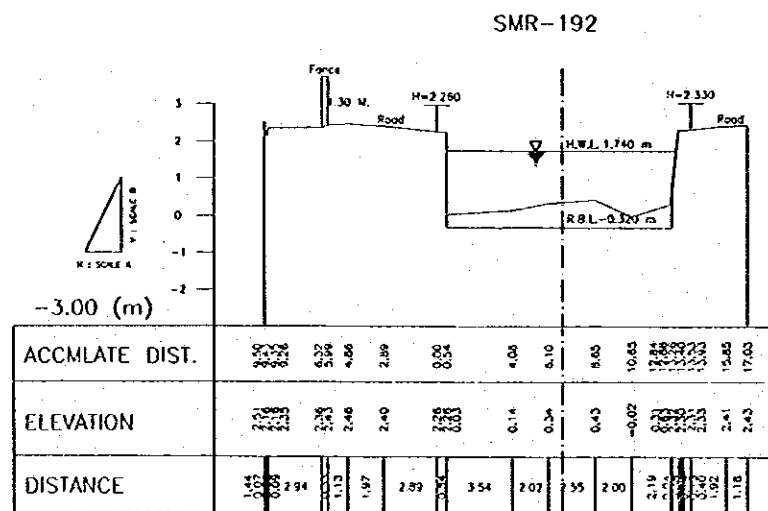
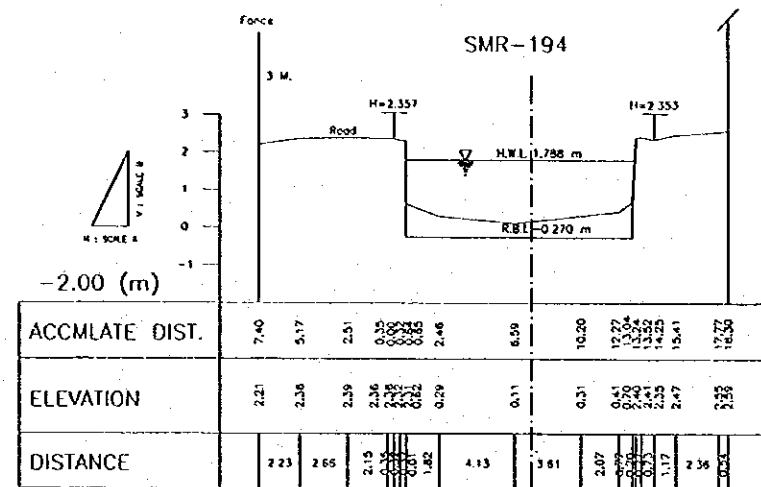
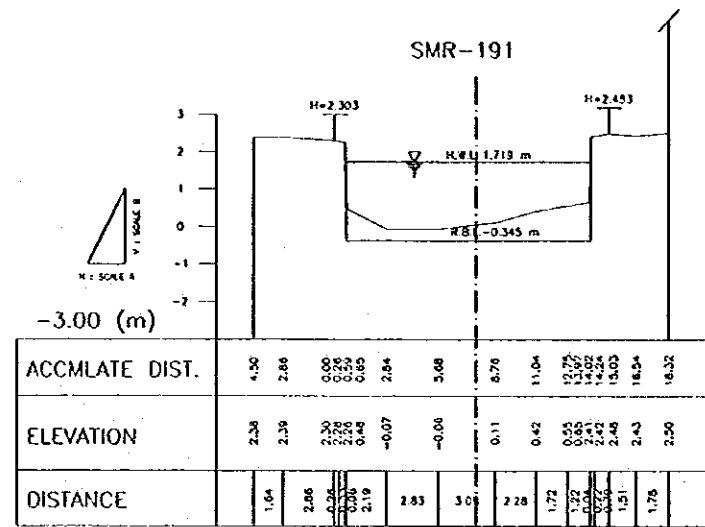
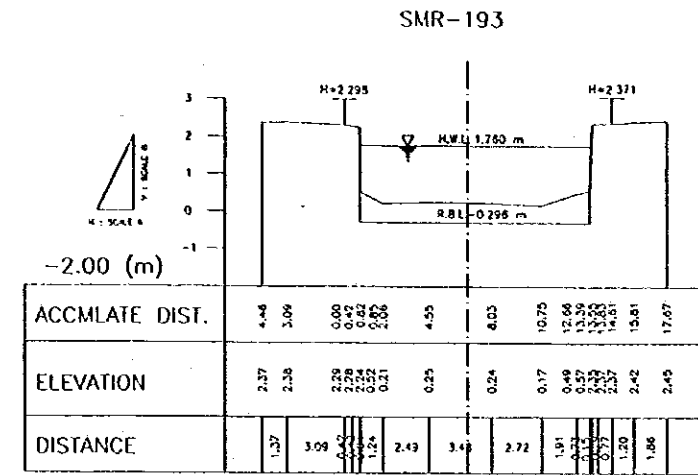
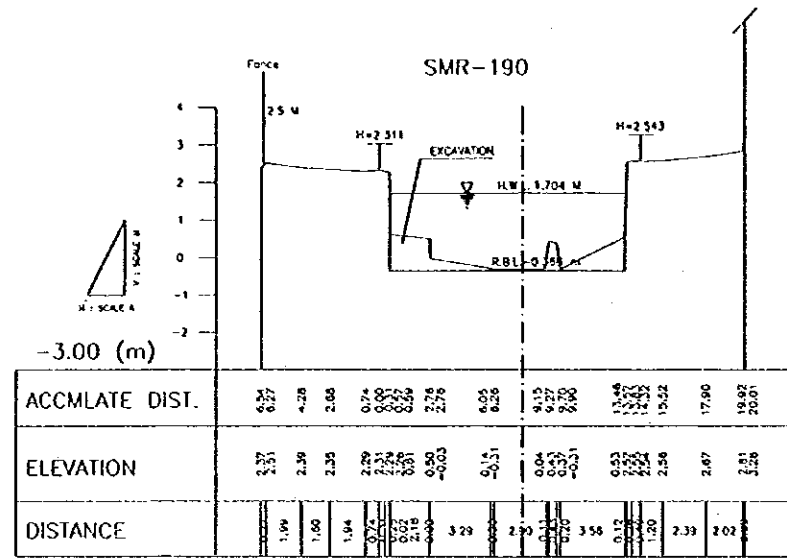
SCALE B
1 : 100



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

NO.	DATE	REVISIONS	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAWA
JATAPURBANA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT SEMARANG RIVER CROSS SECTION (26/36)		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY OTE ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL INC. PACIFIC INTERNATIONAL INC.		DISTRICT SEMARANG CITY
CHECKED APPROVED PROJECT MANAGER		DRAWING NO. U-P1-S-Cr-26 SHEET NO. 38 DATE CONTRACT NO.

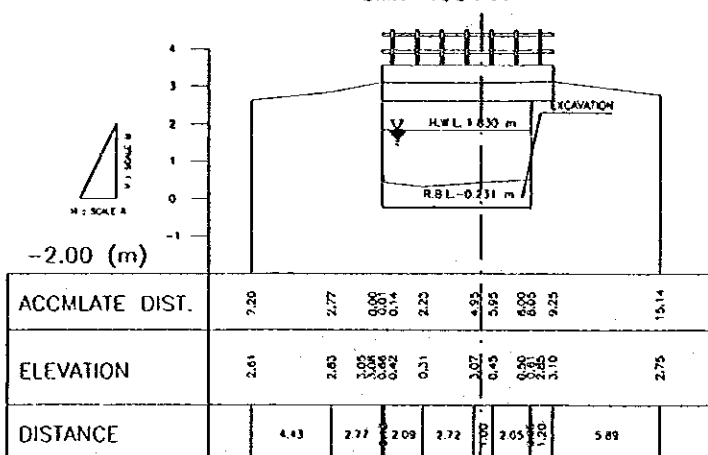


H.W.L. : DESIGN HIGH WATER LEVEL
R.B.L. : DESIGN RIVER BED LEVEL

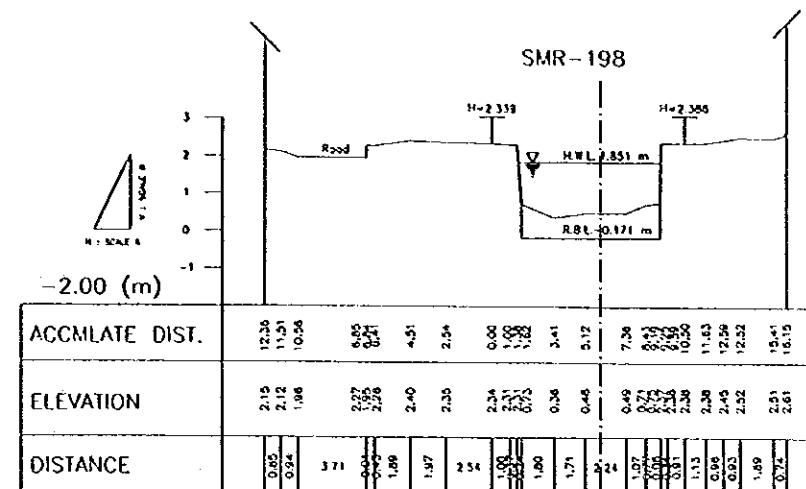
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAWA
WATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT SEMARANG RIVER CROSS SECTION (27/6)		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG BY THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY OTE ENGINEERING CO. LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL INC. CHECKED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		DISTRICT SEMARANG CITY DRAWING NO. U.P1-S-Cr-27 SHEET NO. 39 DATE CONTRACT NO.

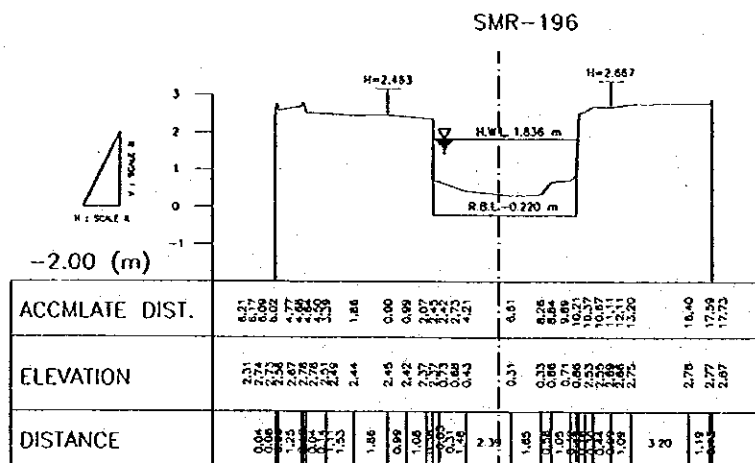
SMR-195+17



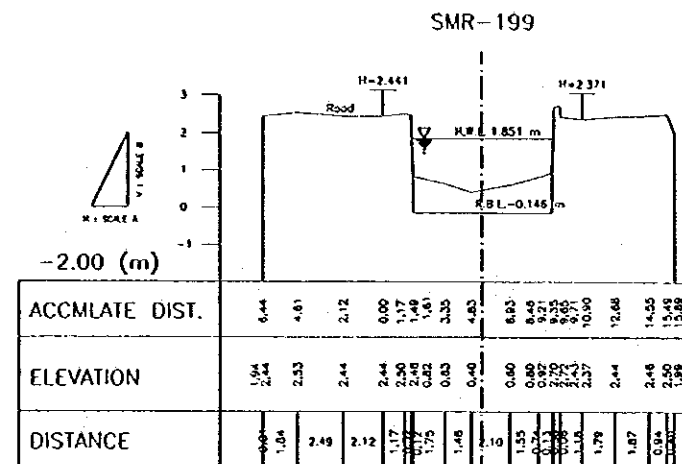
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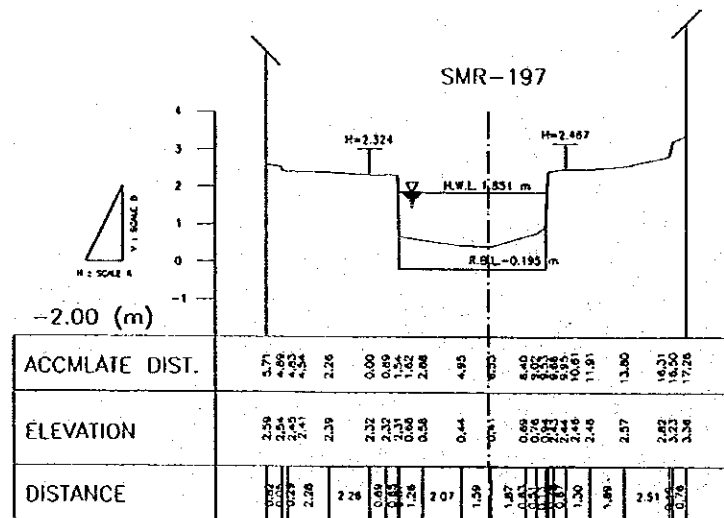
SMR-196



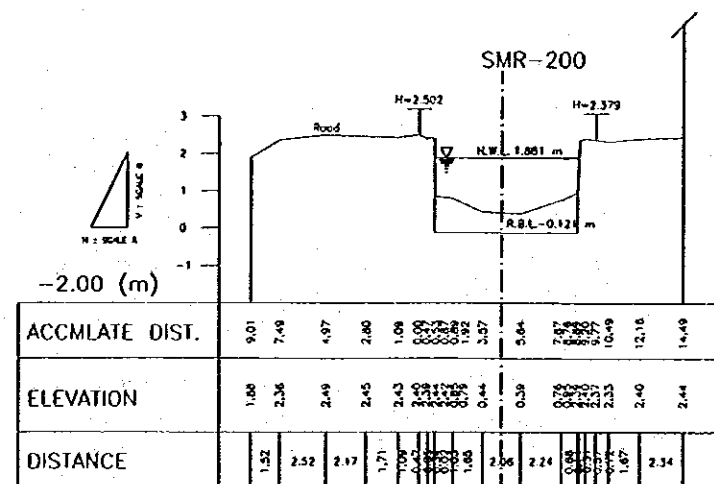
SMR-199



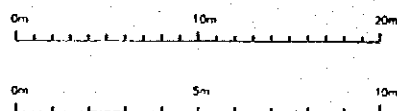
SMR-197



SMR-200



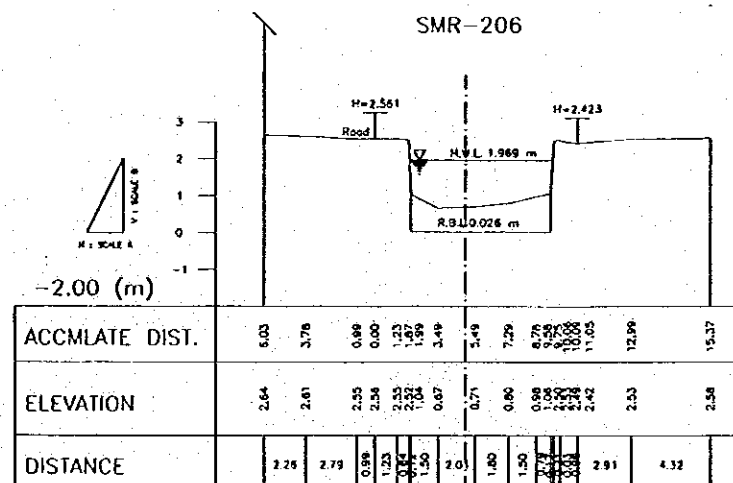
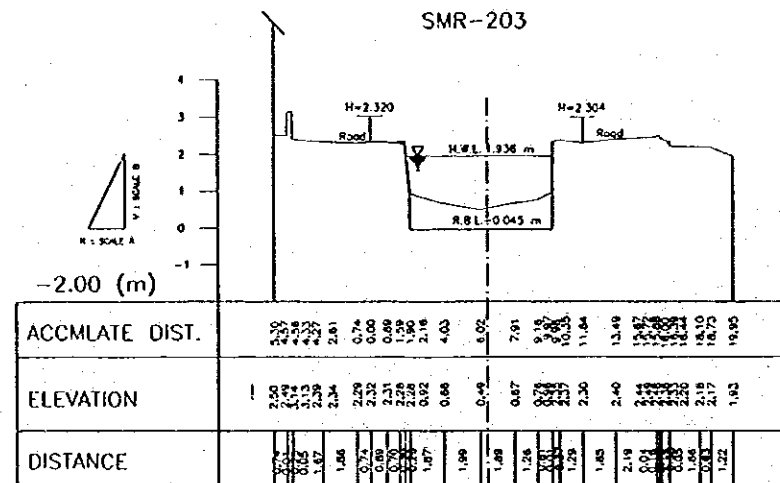
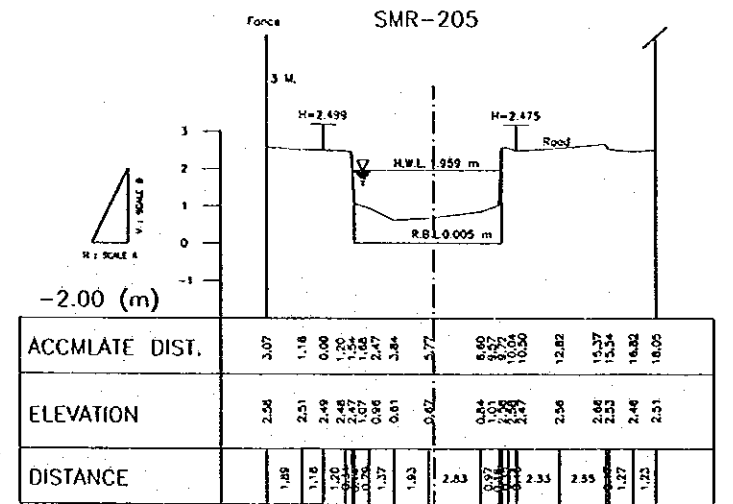
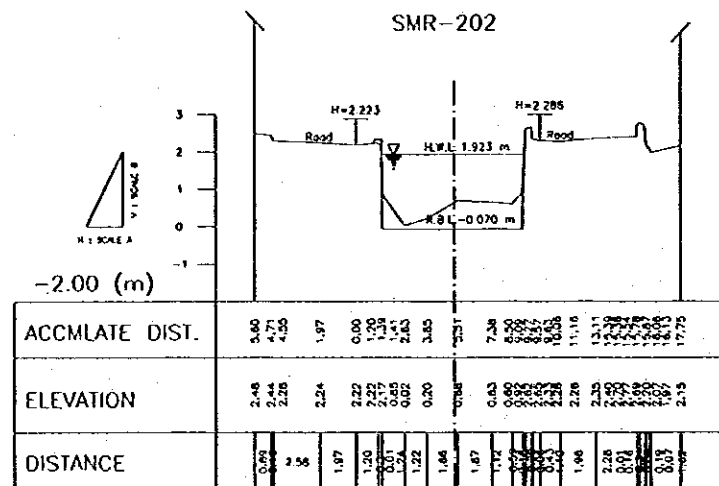
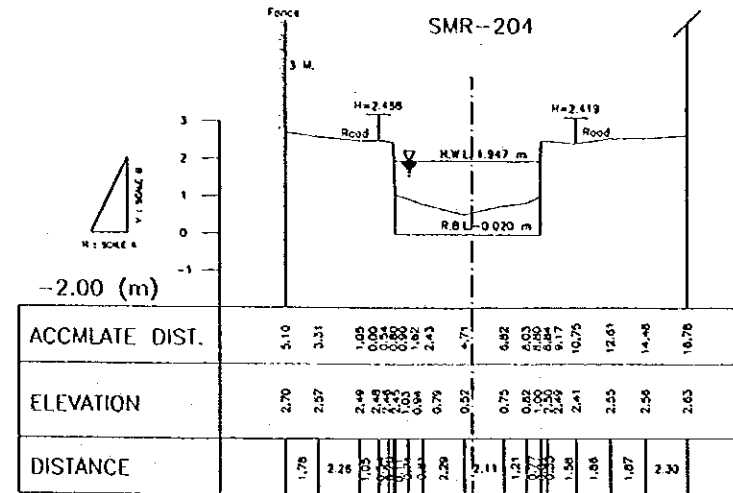
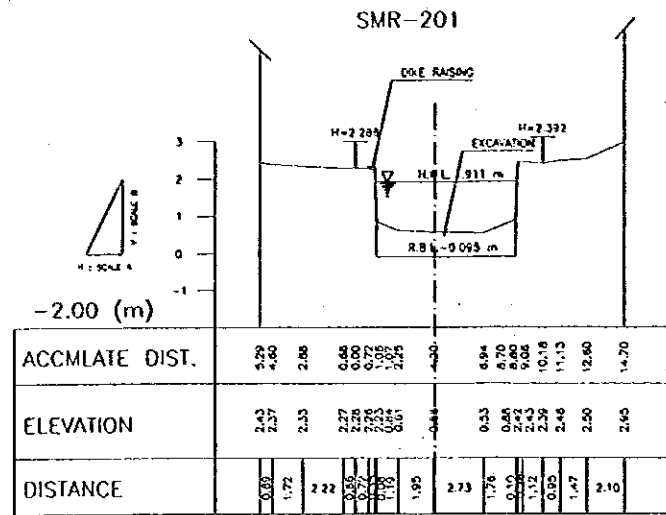
SCALE A
1 : 200
SCALE B
1 : 100



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

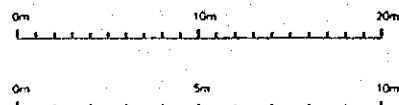
NO.	DATE	REVISIONS	ORIGINATED	DRAWN	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT SURABAYA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT SEMARANG RIVER CROSS SECTION (28/36)			PROVINCE CENTRAL JAYA PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY DRAWING NO. U-P1-S-Cr-28 SHEET NO. 40
JAPAN INTERNATIONAL COOPERATION AGENCY CITI ENGINEERING CO. LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND ZENKO INTERNATIONAL PTE.	DESIGNED CHECKED CITY OF PLANNING AND DESIGN PROJECT MANAGER	DATE CONTRACT NO.	



SCALE A
1 : 200

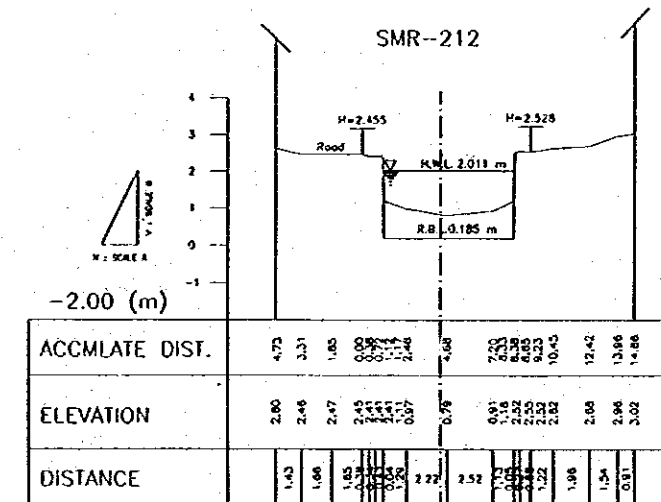
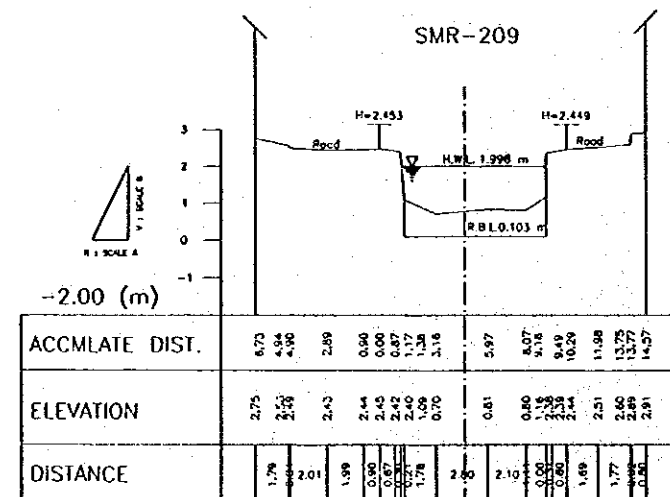
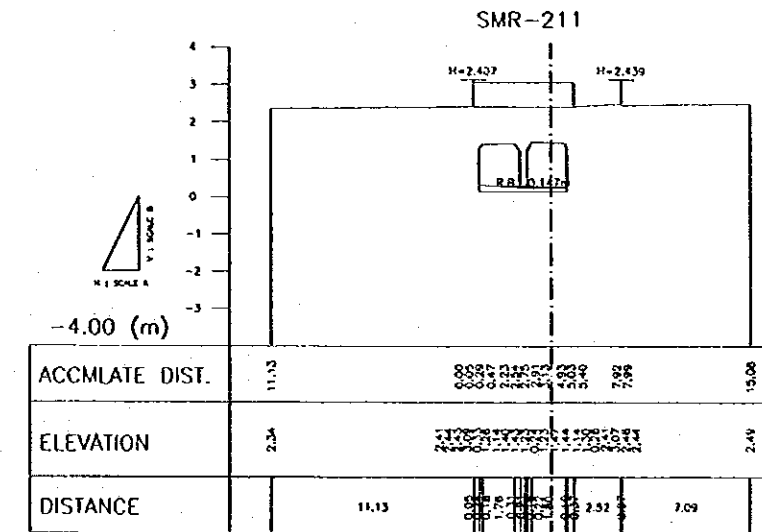
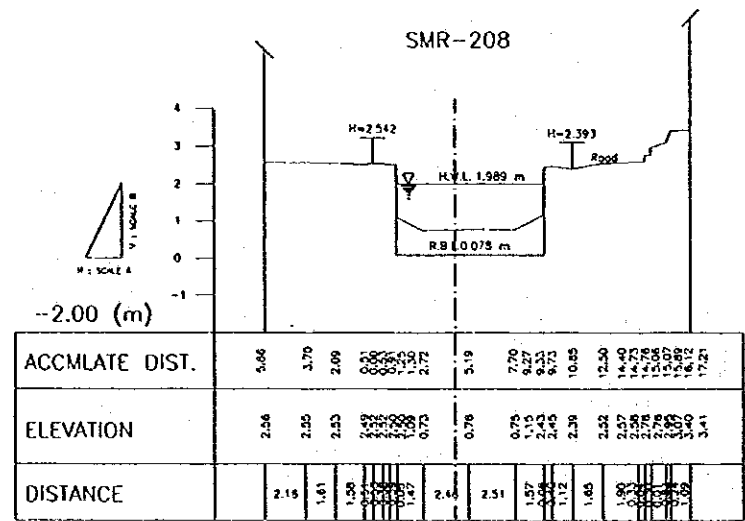
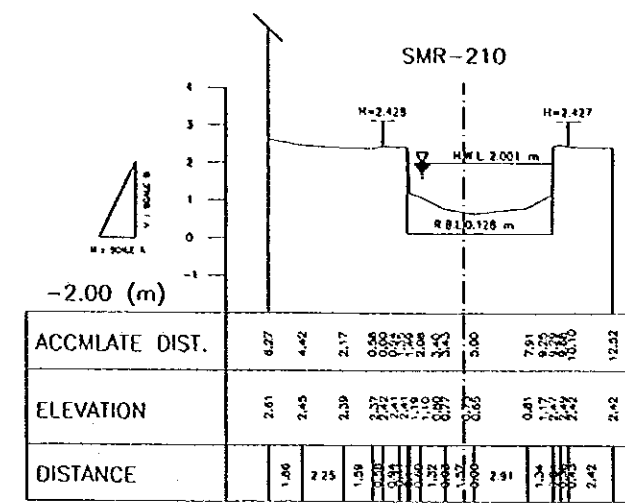
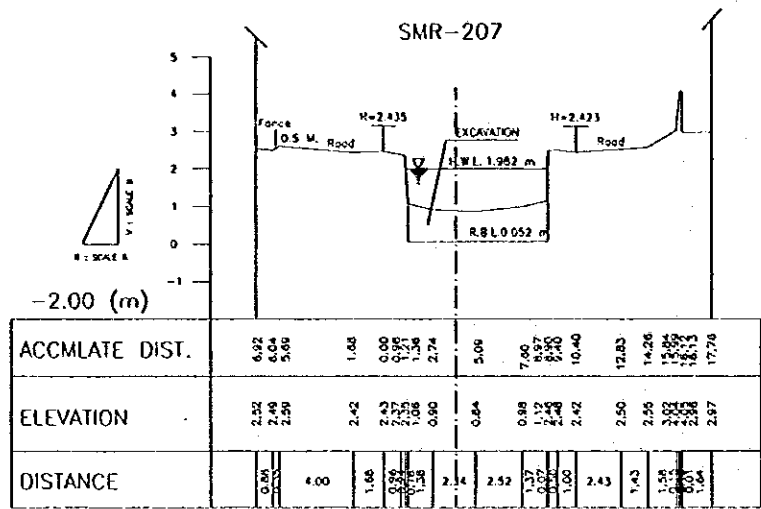
SCALE B
1 : 100



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

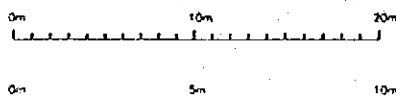
NO.	DATE	REVISIONS	OPERATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAWA
JIATUNDELIWA FLOOD CONTROL PROJECT COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT SEMARANG RIVER CROSS SECTION (2936)		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND FLORA PRESERVATION SUPERVISORY BY SEMARANG IN THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY CITY ENGINEERING CO., LTD. (AFFILIATED WITH PACIFIC CONSULTANTS INTERNATIONAL AND PARCO INTERNATIONAL INC.		DISTRICT SEMARANG CITY
CHECKED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		DRAWING NO. U-P1-S-Cr-29
DATE 		SHEET NO. 41
APPROVED 		CONTRACT NO.



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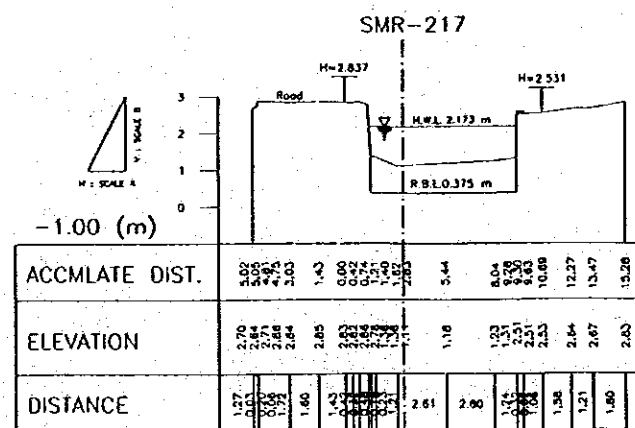
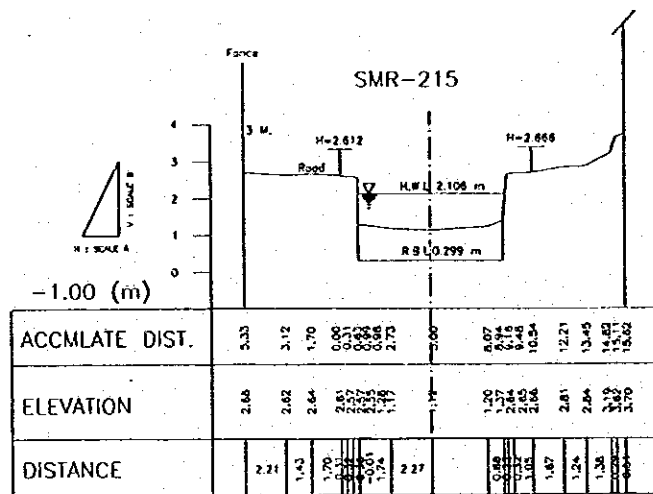
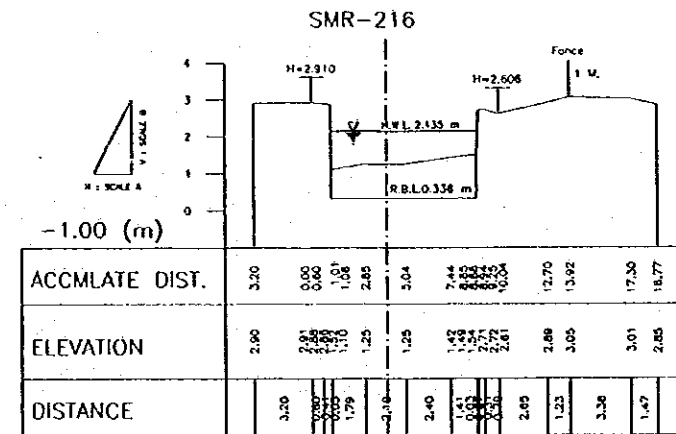
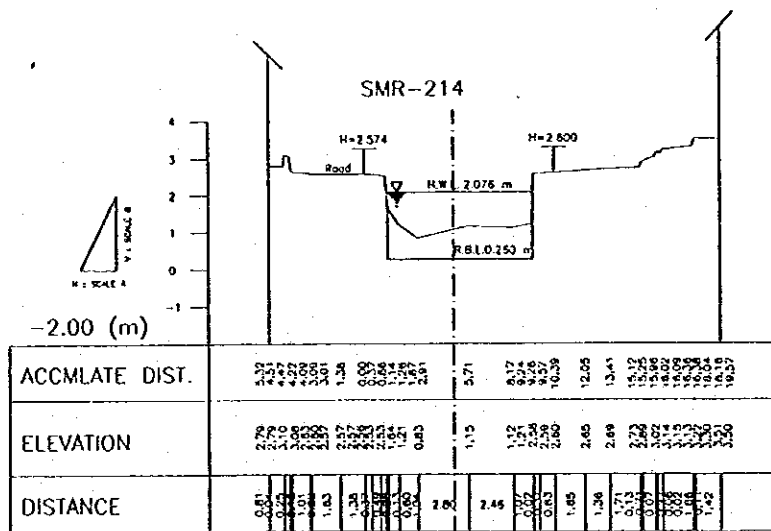
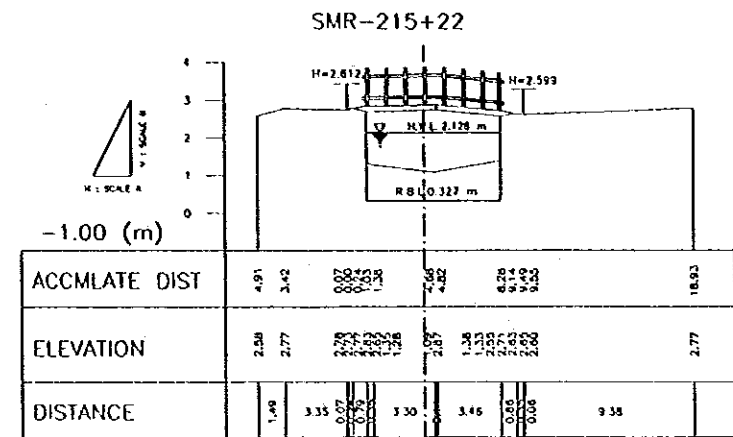
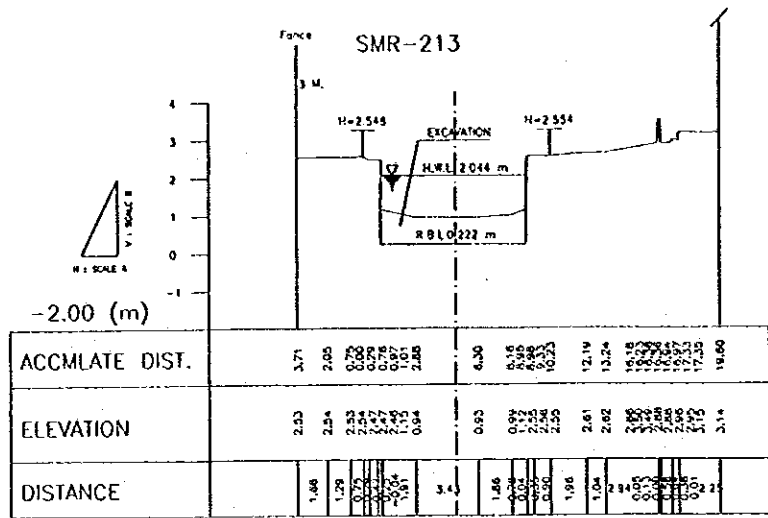
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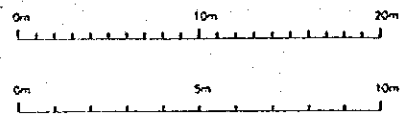
H.W.L. : DESIGN HIGH WATER LEVEL
R.B.L. : DESIGN RIVER BED LEVEL

NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT RATUPHILANA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT SEMARANG RIVER CROSS SECTION (0036)		PROVINCE CENTRAL JAVA PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY DRAWING NO. U-P1-S-Cr-30 SHEET NO. 42 DATE CONTRACT NO.
JAPAN INTERNATIONAL COOPERATION AGENCY CITY ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL, INC. PAKO INTERNATIONAL INC.	DESIGNED CHECKED CERM OF PLANNING AND DESIGN PROJECT MANAGER	DATE CONTRACT NO.



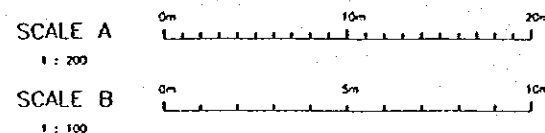
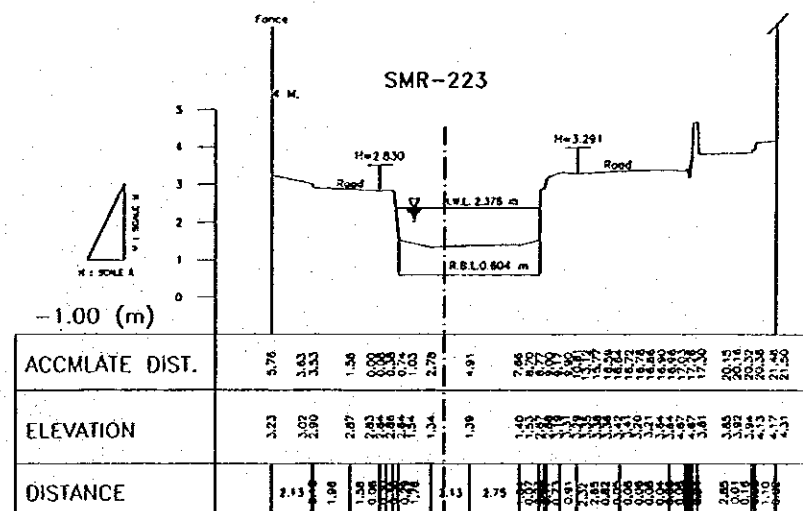
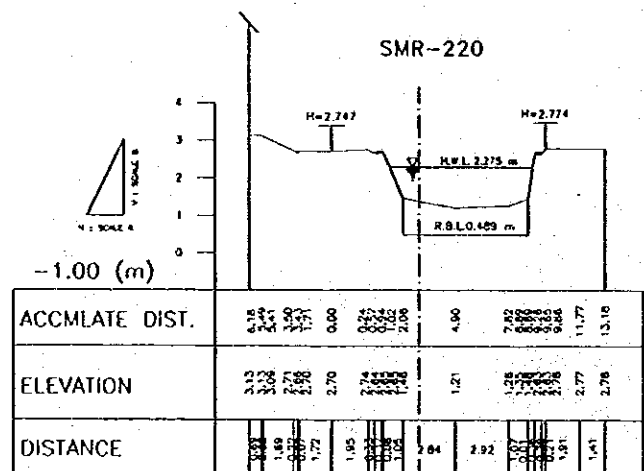
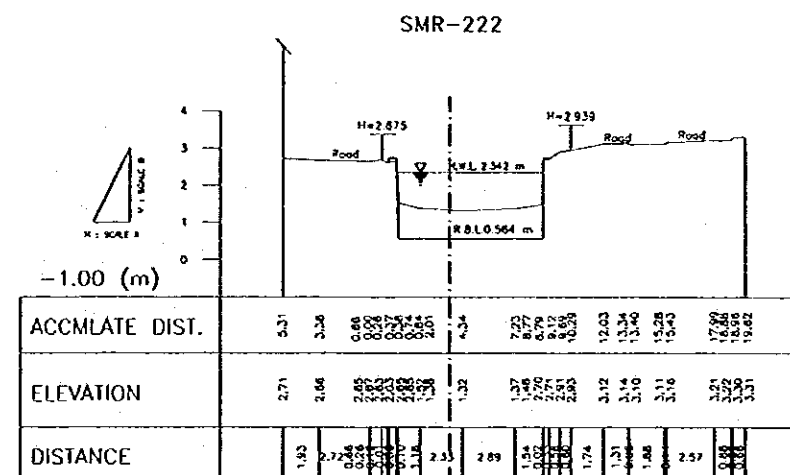
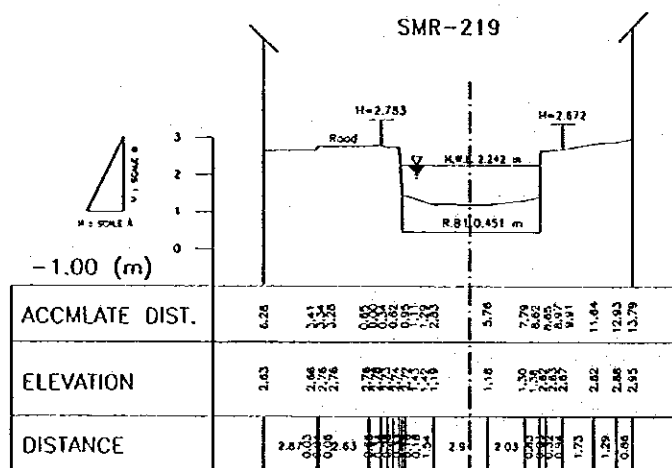
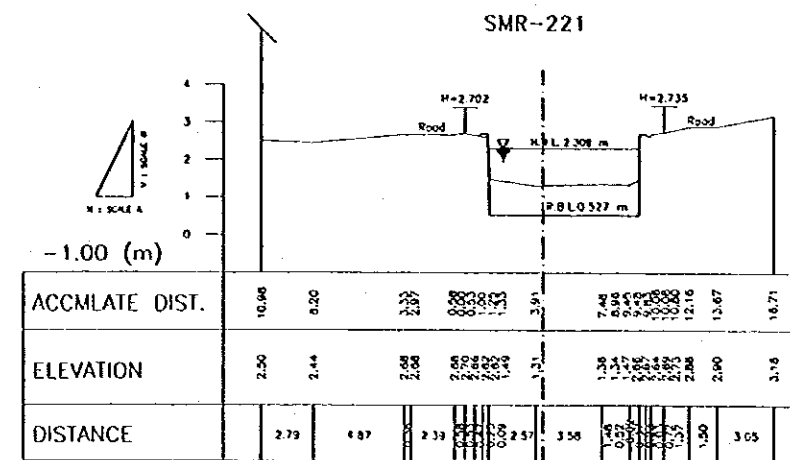
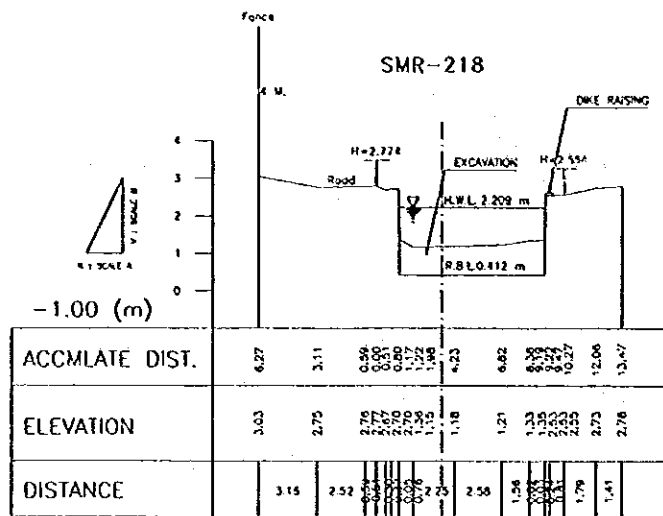
SCALE A
1 : 200
SCALE B
1 : 100



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

NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT BRATUNGGAL FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT SEMARANG RIVER CROSS SECTION (11/16)		PROVINCE CENTRAL JAWA
LAPAN INTERNATIONAL COOPERATION AGENCY CI1 (SEMI-STATE) CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL and TANCO INTERNATIONAL INC.		DRAWING NO. U-PI-S-Cr-31 SHEET NO. 43 DATE CONTRACT NO.
CHIEF OF PLANNING AND DESIGN		PROJECT MANAGER



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

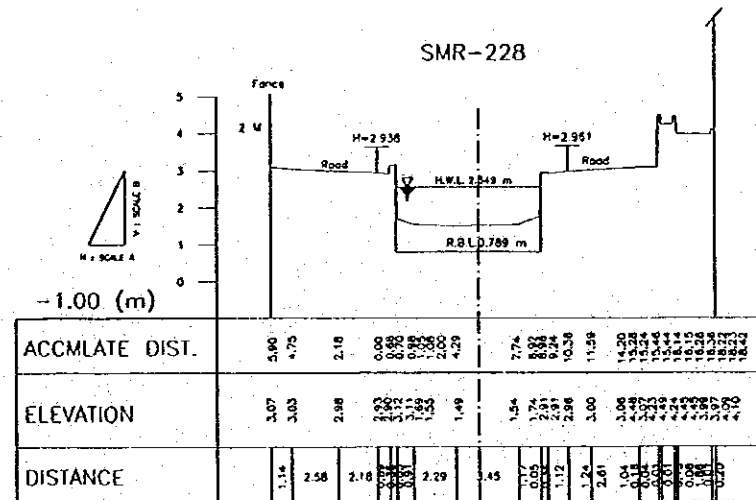
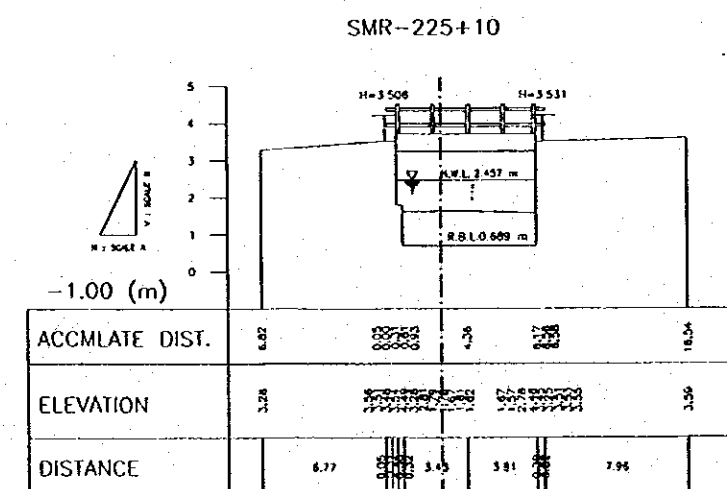
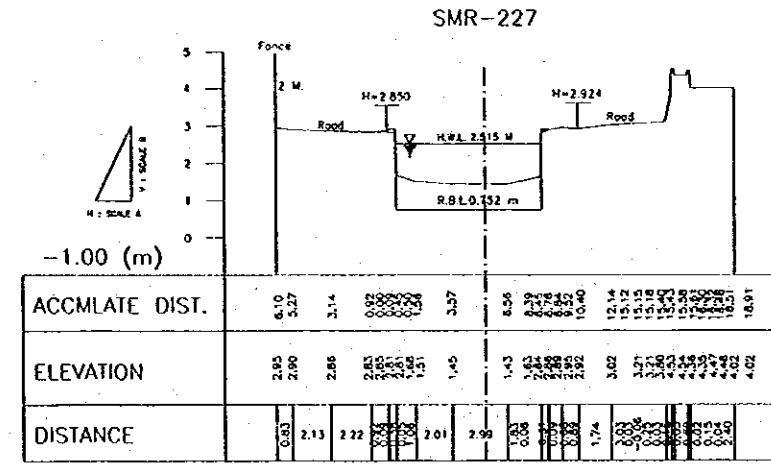
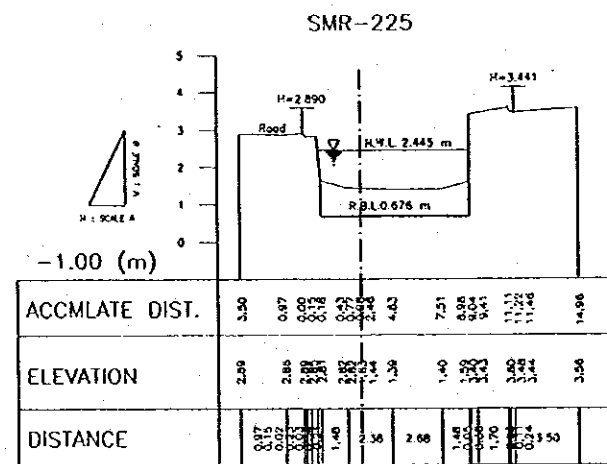
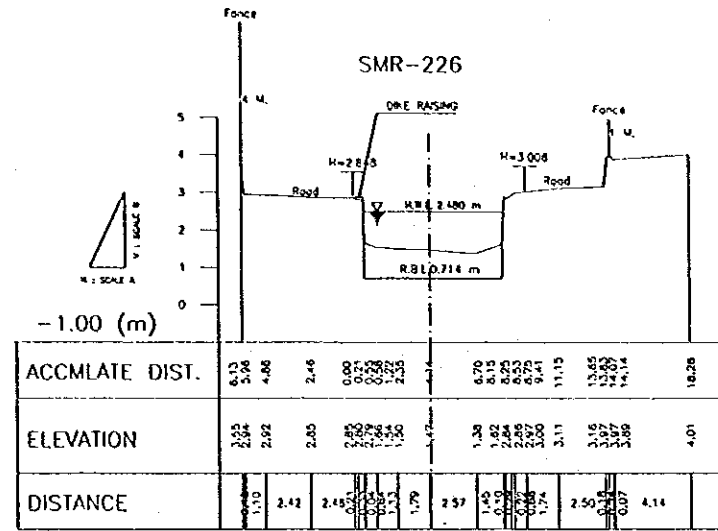
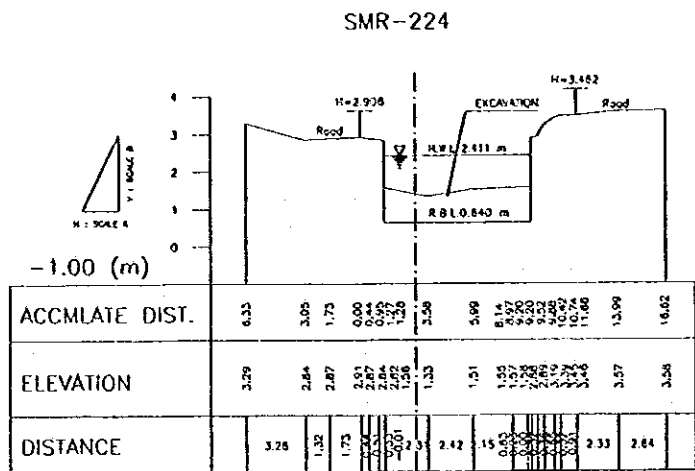
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA
 MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT
 REATUNNELINA FLOOD CONTROL PROJECT
 COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT
 SEMARANG RIVER
 CROSS SECTION (32/36)

PROJECT: CENTRAL JAVA
 PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
 PROJECT: SEMARANG CITY
 DRAWING NO. U-P1-S-Cr-32
 SHEET NO. 44

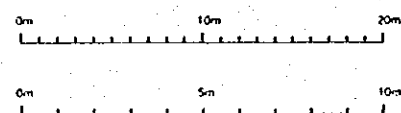
MAIN INTERNATIONAL COOPERATION AGENCY: CS ENGINEERING CO. LTD. 88 AVENUE 10th FLOOR PACIFIC COMMERCIAL BUILDING 100 ROBINSON ROAD SINGAPORE
 DRAWN: [Signature]
 CHECKED: [Signature]
 APPROVED: [Signature]
 PROJECT MANAGER: [Signature]

DATE: [] CONTRACT NO.: []



SCALE A
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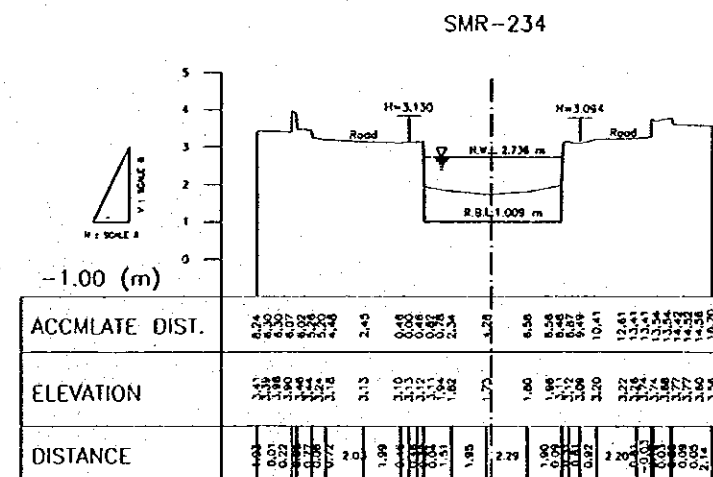
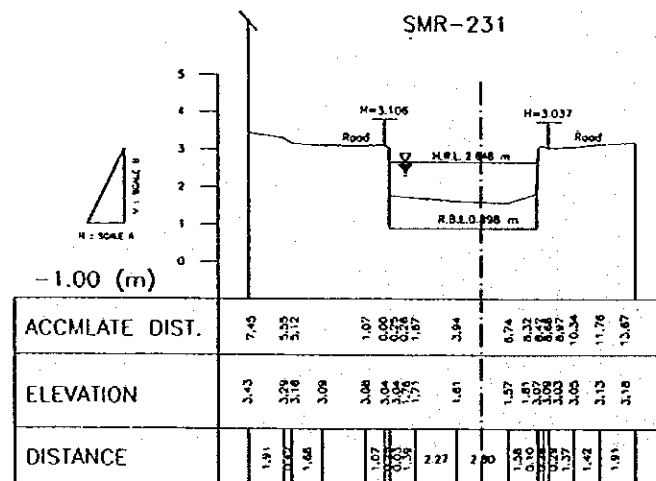
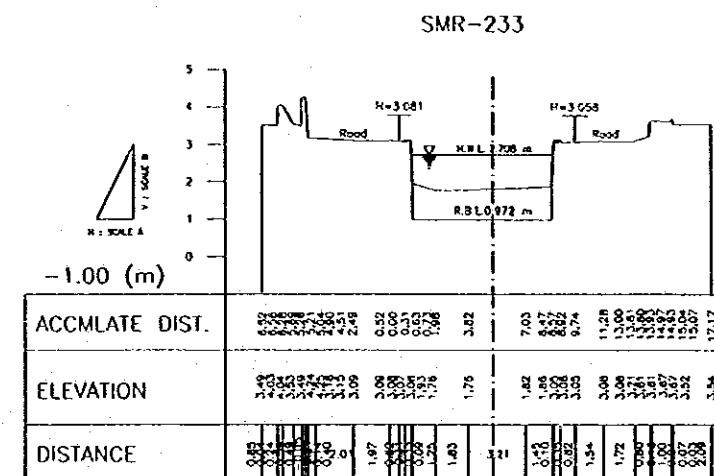
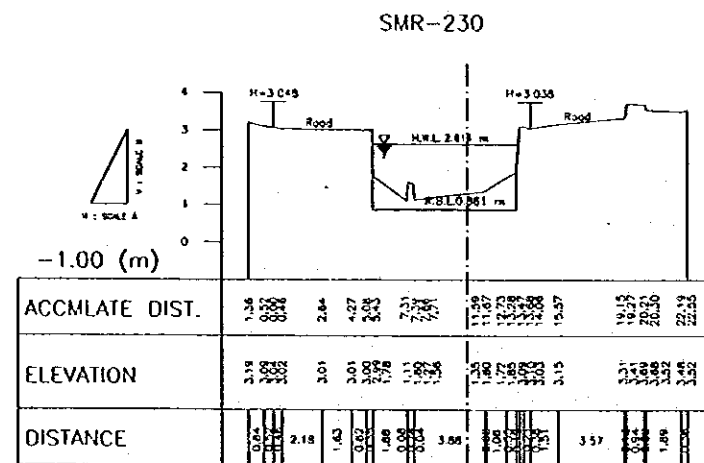
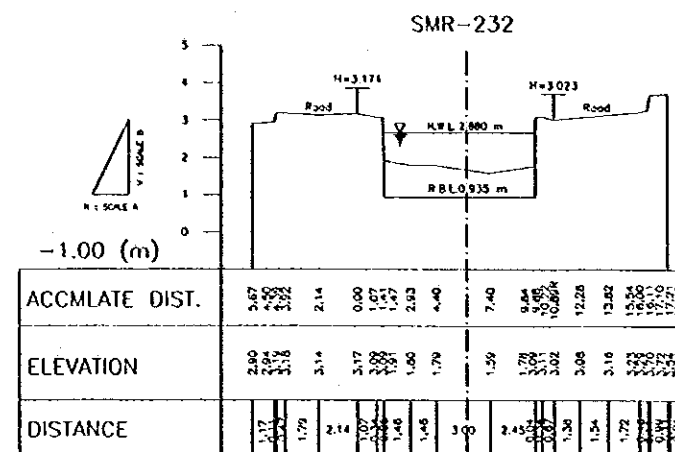
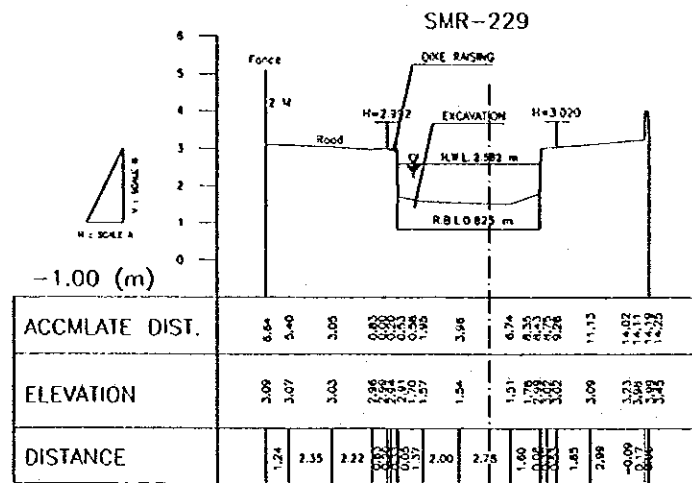
SCALE B
1 : 100



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

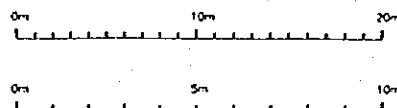
NO.	DATE	REVISION	CREATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAWA
REJATUNELARA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT SEMARANG RIVER CROSS SECTION (3/36)		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY CIJ (JICA) AND PACIFIC CONSULTANTS INTERNATIONAL AND EMCO INTERNATIONAL INC.		DISTRICT SEMARANG CITY
APPROVED		DRAWING NO. U-P1-S-Cr-33
CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		SHEET NO. 45
DATE		CONTRACT NO.



SCALE A
1 : 200

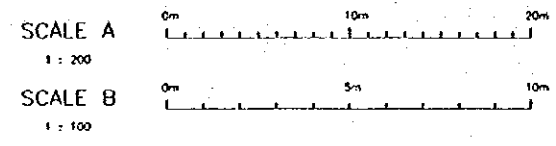
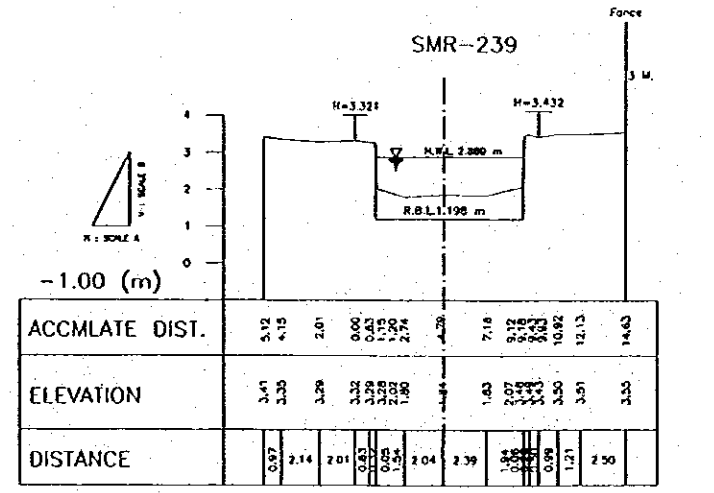
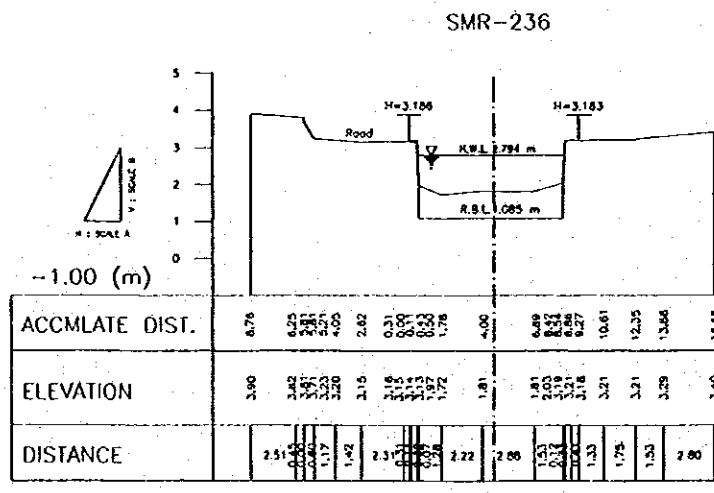
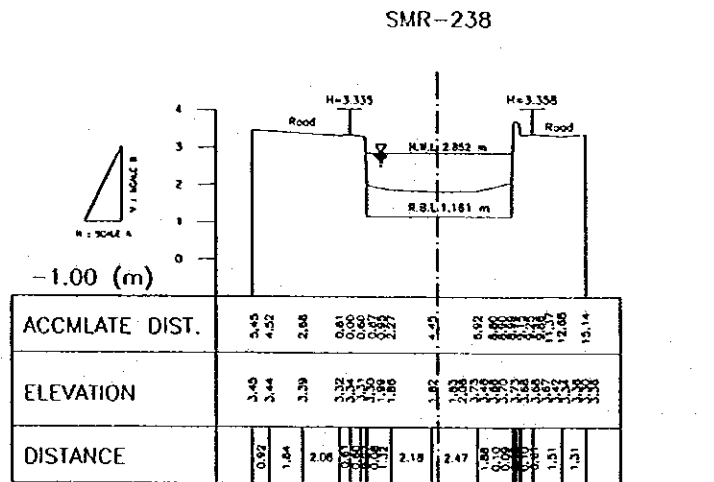
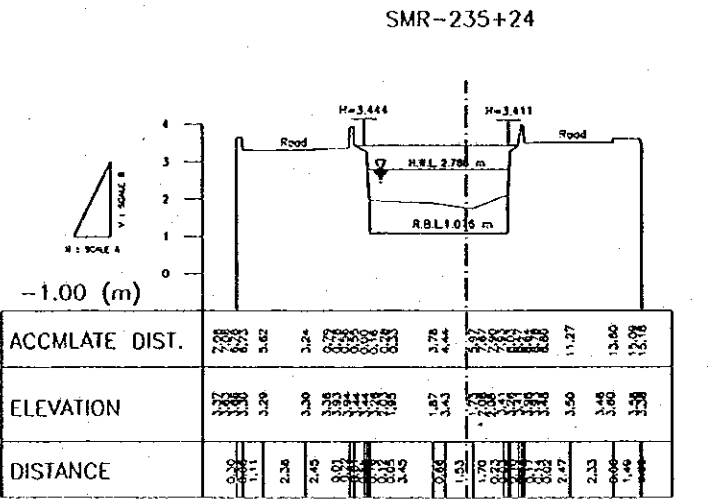
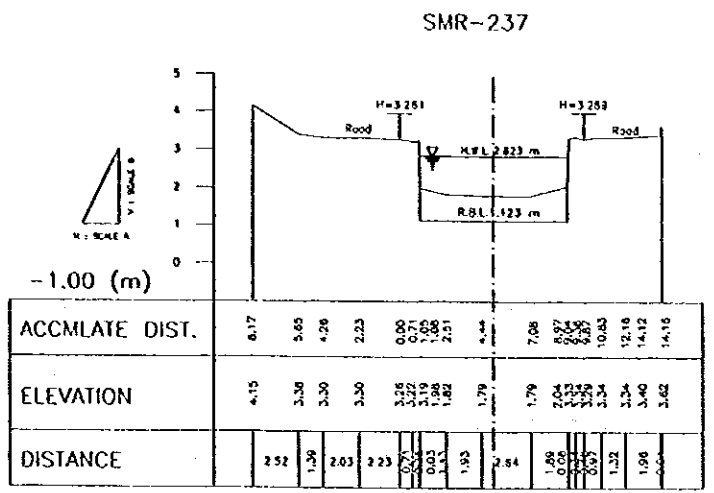
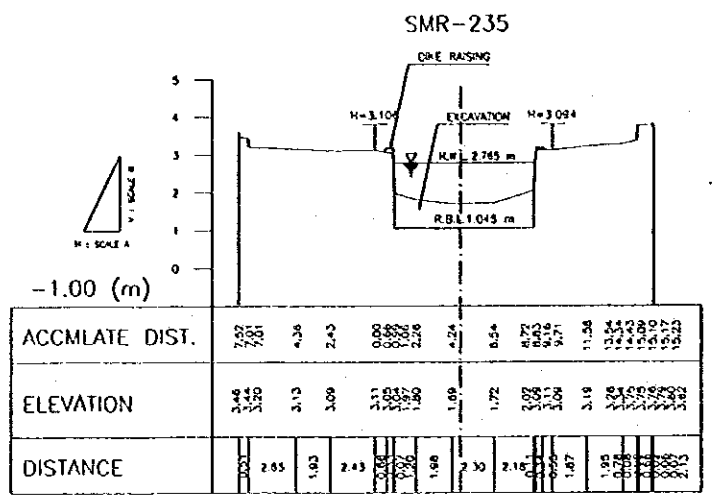
SCALE B
1 : 100



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

NO.	DATE	REVISIONS	DRAWN	CHECKED	APPROVED

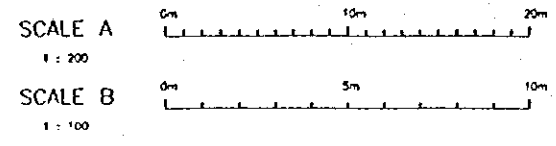
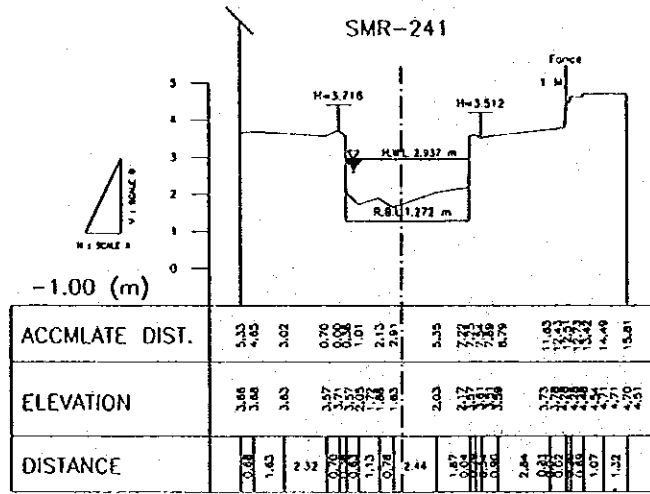
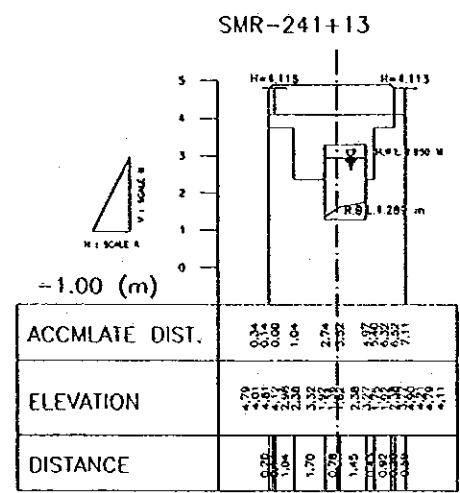
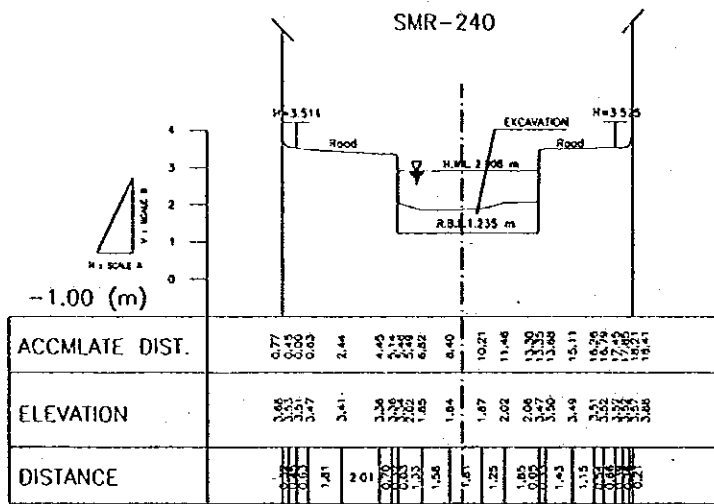
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT SRATUNUJUNA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT SEMARANG RIVER CROSS SECTION (34/36)		PROVINCE CENTRAL JAWA PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT OF SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY DRAWING NO. U-PIS-Cr-34 SHEET NO. 46	
SAFARI INTERNATIONAL COOPERATION AGENCY CITI INTERNATIONAL CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL INC. PARTNER: PT. PERUSAHAAN INDOPTRA, PT.		DATE _____ CONTRACT NO. _____	
DESIGNED <i>[Signature]</i> CHECKED <i>[Signature]</i> APPROVED <i>[Signature]</i> PROJECT MANAGER		DRAWN <i>[Signature]</i> CHECKED <i>[Signature]</i> APPROVED <i>[Signature]</i> PROJECT MANAGER	



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

NO.	DATE	REVISIONS	DESIGNATED	DESIGNED	APPROVED

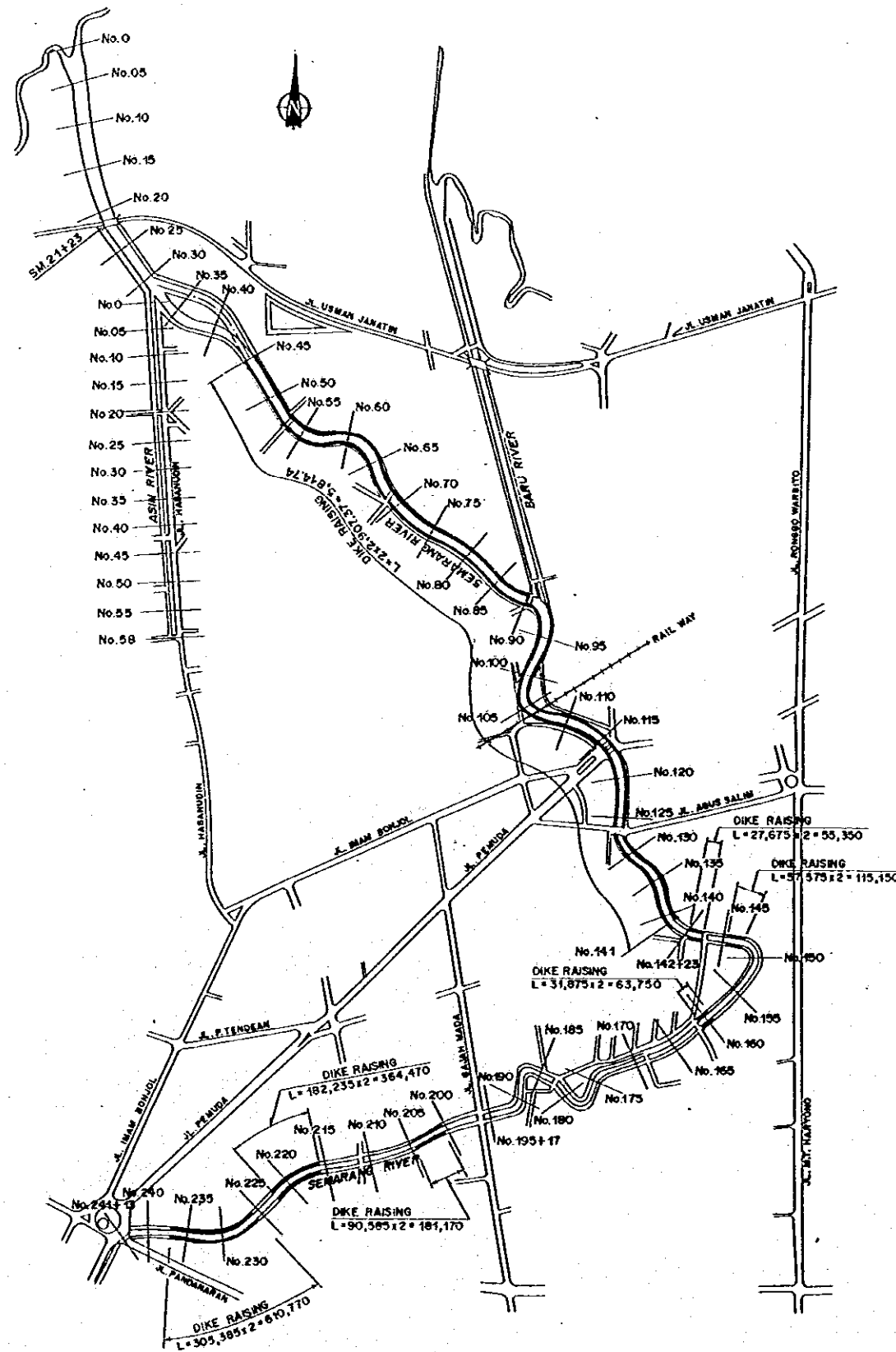
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCE DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAWA
IRATUNBELUNA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT SEMARANG RIVER CROSS SECTION (39/36)		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) AND PACIFIC CONSULTANTS INTERNATIONAL INC. (PCI)		DISTRICT SEMARANG CITY
CORP OF PLANNING AND DESIGN PROJECT MANAGER		DRAWING NO. U-PI-S-Cr-35
CHECKED [Signature]		SHEET NO. 47
DATE		CONTRACT NO.



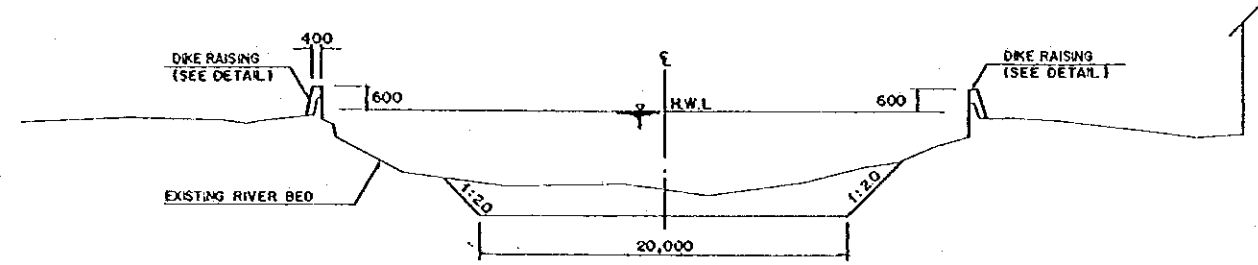
H.W.L. : DESIGN HIGH WATER LEVEL
R.B.L. : DESIGN RIVER BED LEVEL

NO.	DATE	REVISIONS	ASSOCIATED	DESIGNED	APPROVED

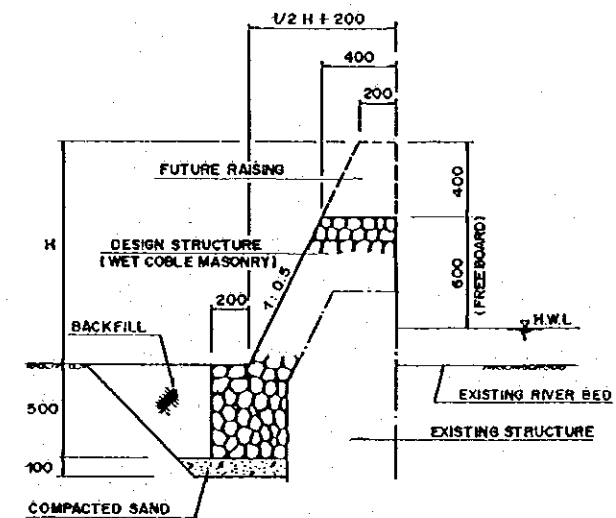
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
BRATUNGLUVA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT SEMARANG RIVER CROSS SECTION (36/36)		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
SUDHARJITONATIONAL COOPERATION AGENCY PT. BROWNSING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PABCO PERKONSULTING INS.		DISTRICT SEMARANG CITY
CHECKED [Signature] CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		DRAWING NO. U-PI-S-Cr-36
APPROVED [Signature]		SHEET NO. 48
DATE		CONTRACT NO.



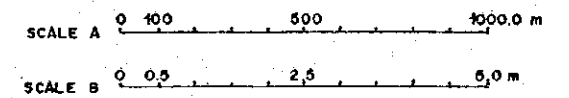
PLAN
SCALE A



STANDARD OF CROSS SECTION
SCALE V=1:100, H=1:200

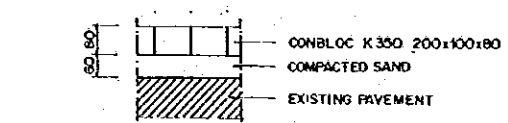
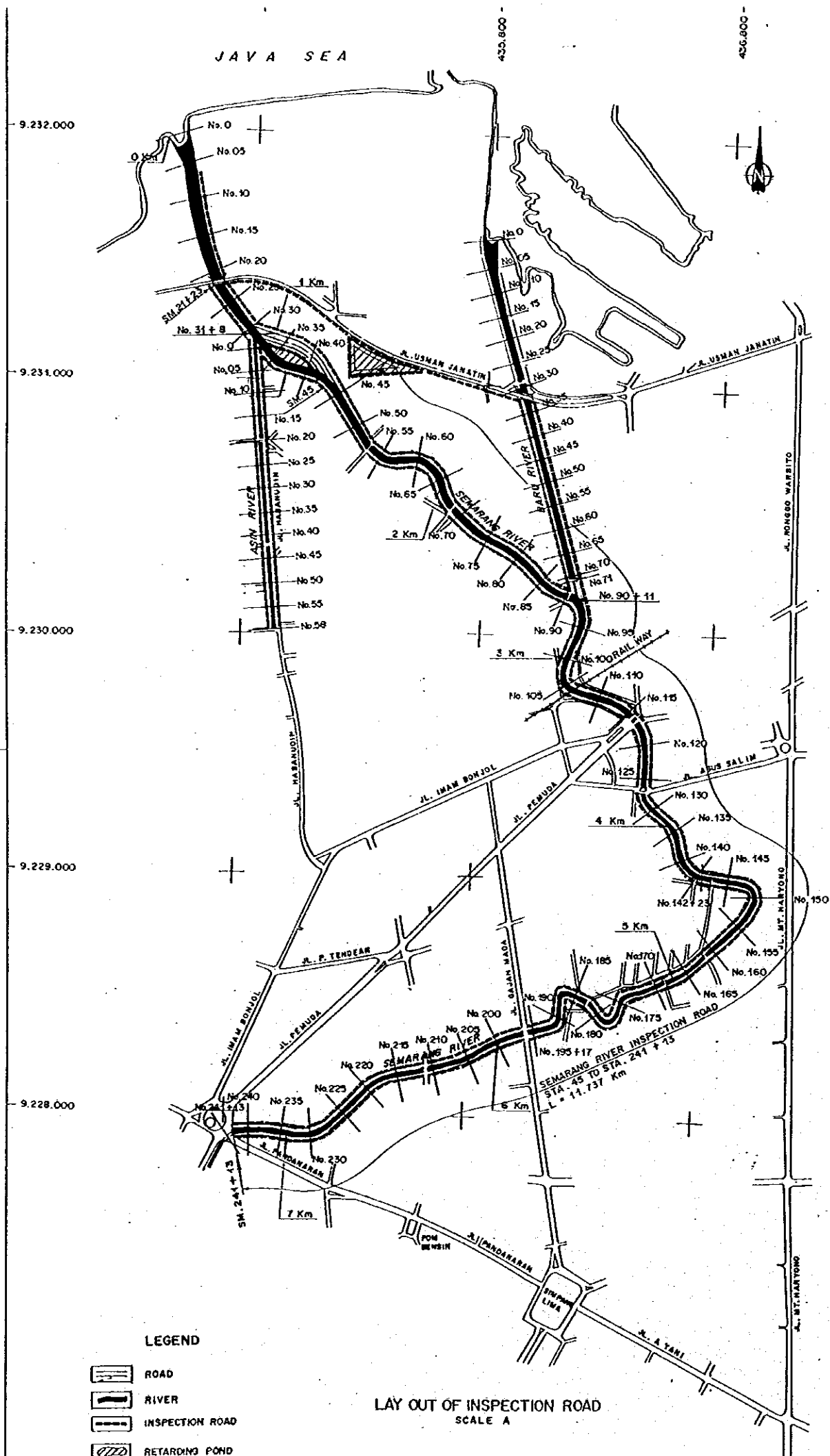


DIKE RAISING DETAIL
SCALE B

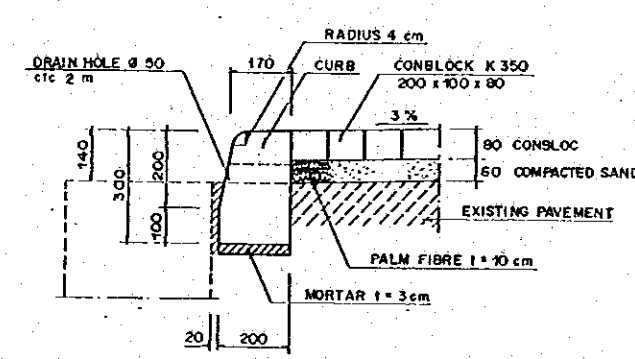


NO.	DATE	REVISIONS	QUOTED	DESIGNED	APPROVED

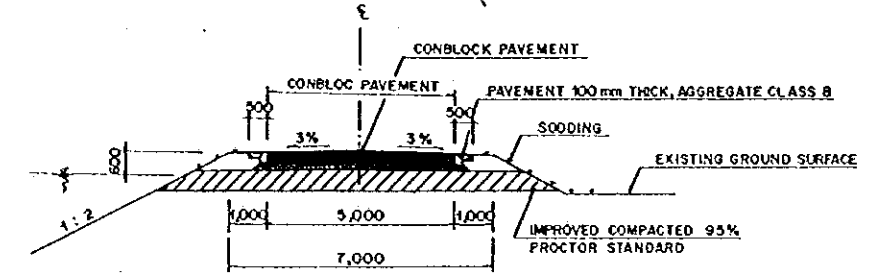
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAWA	
DRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT SEMARANG RIVER DETAILS OF DIKE RAISING		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) THROUGH THE TECHNICAL ASSISTANCE PROGRAM (TAP)		DISTRICT SEMARANG CITY	
CHECKED DATE		DRAWING NO. U - P1 - 8 - RV - 1 SHEET NO. 49	
APPROVED PROJECT MANAGER		CONTRACT NO.	



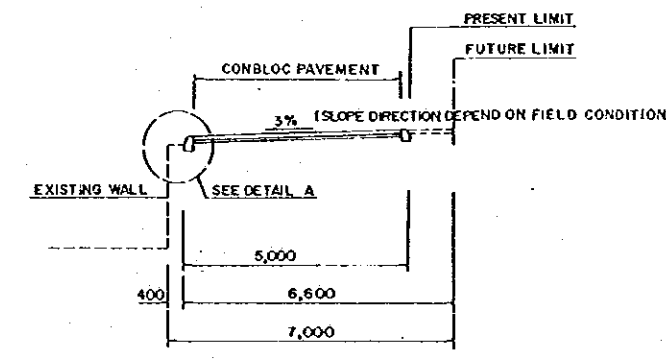
CONBLOC PAVEMENT ON THE EXISTING PAVEMENT SCALE C



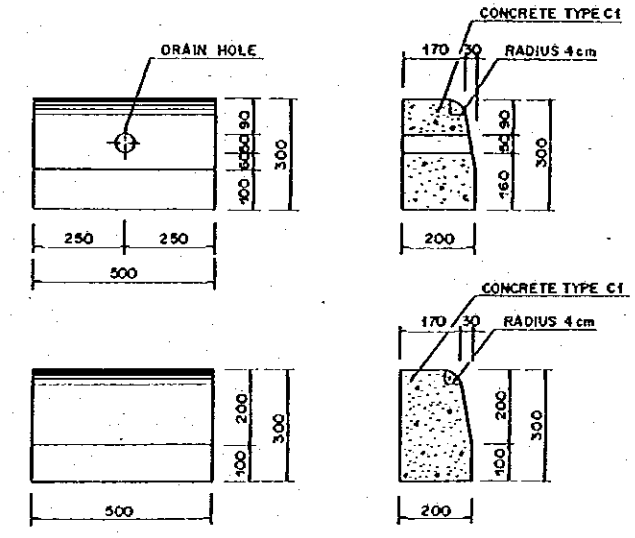
DETAIL A SCALE C



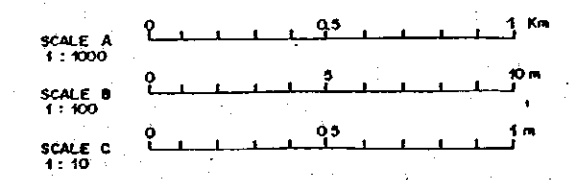
TYPICAL CROSS SECTION SCALE B NOT APPLIED IN PACKAGE 1



TYPICAL CROSS SECTION SCALE B APPLIED IN PACKAGE 1



CURB SCALE C

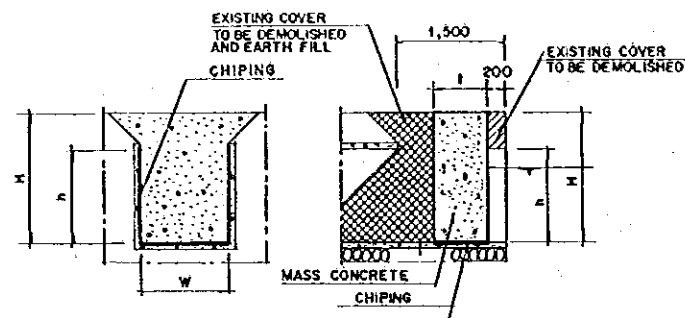


- LEGEND
- ROAD
 - RIVER
 - INSPECTION ROAD
 - RETARDING POND

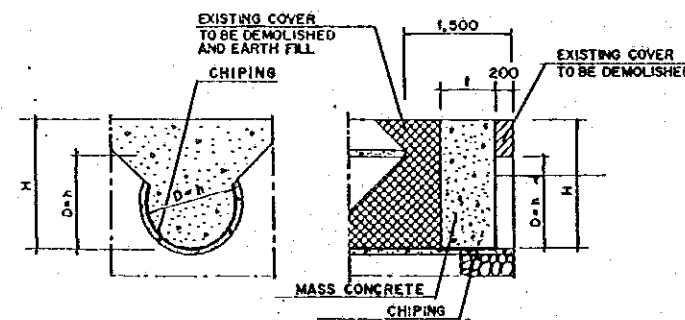
LAY OUT OF INSPECTION ROAD SCALE A

NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED	APPROVED

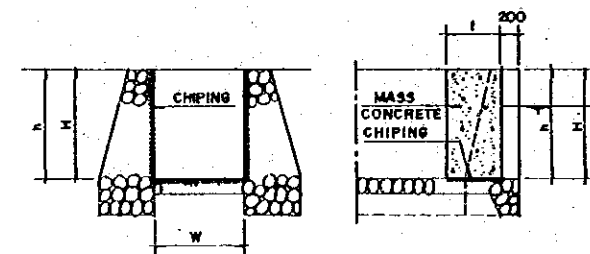
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAYA
BATANGSELIMA FLOOD CONTROL PROJECT COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT SEMARANG RIVER INSPECTION ROAD		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG BY THE REPUBLIC OF INDONESIA
LAPAN INTERNATIONAL CONSULTING COMPANY C/I ENGINEERING CO., LTD. PACIFIC CONSULTANTS INTERNATIONAL INC. PARTNERSHIP		CITY SEMARANG CITY
DESIGNED CHECKED DATE OF PLANNING AND DESIGN PROJECT MANAGER		DRAWING NO. U-P1-8-R4-1 SHEET NO. 50 DATE CONTRACT NO.



TYPE I



TYPE II

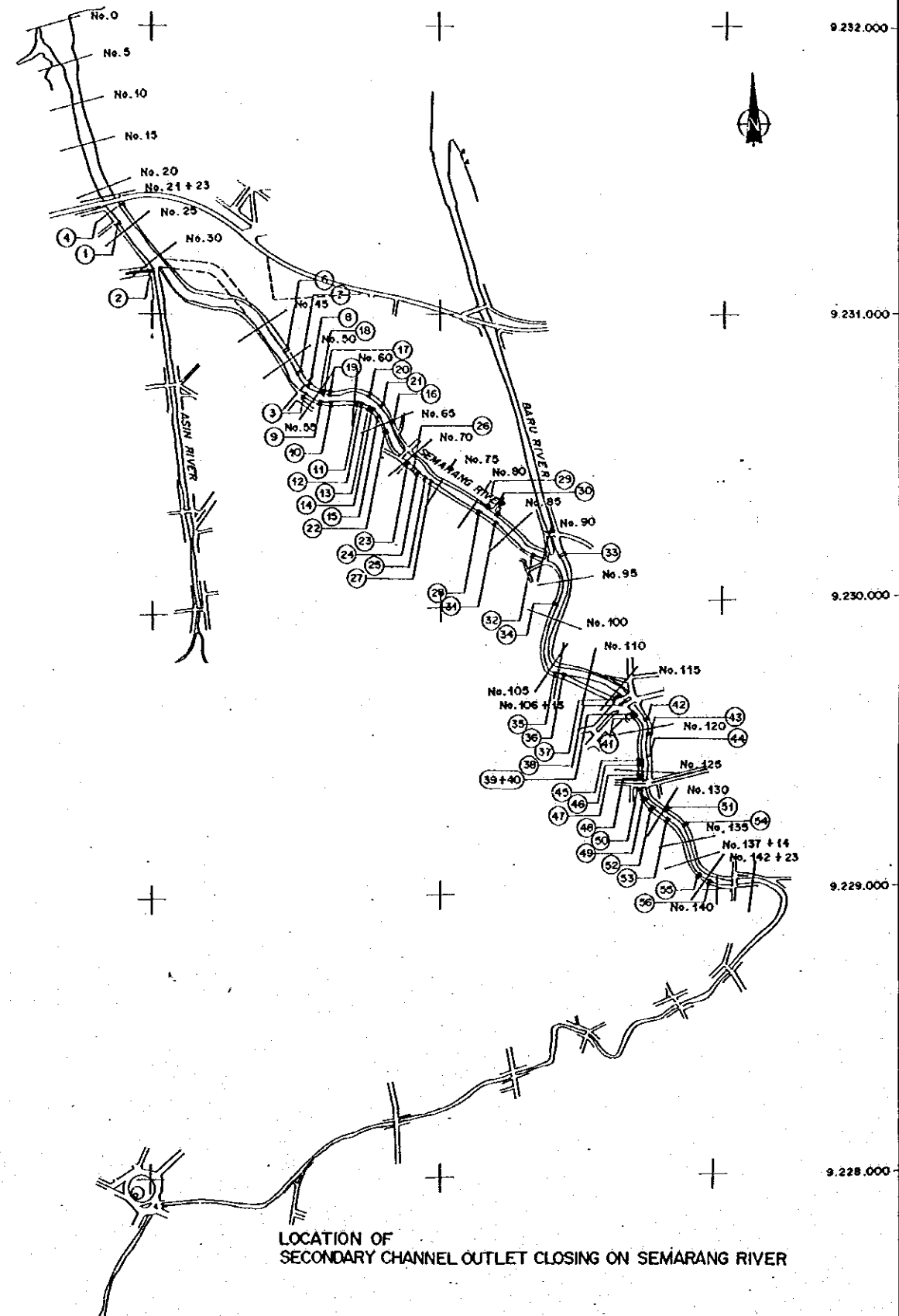


TYPE III

TABLE OF SECONDARY CHANNEL OUTLET CLOSING ON SEMARANG RIVER

NO.	POSITION OF STRUCTURE	TYPE	DIMENSION				WORK VOLUME				
			W (mm)	h (mm)	H (mm)	l (mm)	CHIPING (m ²)	FORM (m ²)	MASS CONCRETE (m ³)	STRUCTURE EXCAVATION (m ³)	EARTH FILL (m ³)
1	SML.24+5	I	1,500	950	1,300	500	1.70	4.15	1.04	1.11	2.47
2	SML.31+5	II	-	270	1,490	500	0.64	7.38	1.85	4.74	3.36
3	SML.54+17	I	1,810	1,230	2,550	900	3.84	12.72	5.72	10.07	7.79
4	SMR.22+20	II	4,000	1,060	1,060	500	6.12	8.48	2.12	-	5.51
5	SMR.42+6	II	-	250	840	500	0.59	2.08	0.52	0.93	0.61
6	SMR.49+H	I	1,000	1,000	1,730	650	1.95	4.53	1.47	2.55	2.63
7	SMR.52+29	I	-	-	-	-	-	-	-	-	-
8	SMR.54+10	II	-	460	1,180	500	1.08	3.73	0.93	1.77	1.12
9	SML.56+30	II	-	100	330	500	0.24	0.32	0.08	0.13	0.07
10	SML.57+31	I	480	240	730	500	0.48	1.18	0.30	0.89	0.66
11	SML.60+12	I	510	60	550	500	0.32	1.04	0.25	0.91	0.60
12	SML.61+5	I	790	500	1,310	500	0.88	3.28	0.82	2.67	2.48
13	SML.62+0	II	-	120	140	500	0.28	0.58	0.14	0.04	0.01
14	SML.62+28	I	630	590	1,490	500	0.91	3.50	0.88	3.05	2.49
15	SML.64+15	I	690	500	1,430	500	0.84	3.67	0.92	3.34	2.65
16	SMR.65+11	II	-	170	630	500	0.40	1.20	0.30	0.55	0.33
17	SMR.55+11	II	-	370	1,150	500	0.87	3.80	0.95	1.93	1.24
18	SMR.65+5	I	850	390	1,120	500	0.82	2.97	0.74	2.35	1.87
19	SMR.57+0	I	-	-	-	-	-	-	-	-	-
20	SMR.61+22	II	-	120	870	500	0.28	2.63	0.66	1.43	0.97
21	SMR.63+13	II	-	160	510	500	0.38	0.75	0.19	0.32	0.48
22	SML.68+25	I	890	530	1,380	500	0.98	3.90	0.98	3.45	2.62
23	SML.70+11	I	2,000	1,100	2,280	800	3.36	11.90	4.76	8.66	7.22
24	SML.72+19	I	970	850	1,880	650	1.74	5.65	1.84	4.52	3.71
25	SML.73+29	II	-	170	830	500	0.40	2.24	0.56	1.15	0.73
26	SML.72+28	I	600	1,720	2,840	1,050	4.24	5.92	3.11	4.67	3.22
27	SML.74+33	I	480	1,340	2,270	850	2.69	3.91	1.66	2.99	2.32
28	SML.81+17	I	720	1,720	2,650	1,000	4.16	5.55	2.78	3.42	3.01
29	SMR.81+19	I	510	1,760	2,810	1,050	4.23	5.07	2.66	3.90	2.86
30	SMR.83+8	I	540	1,710	2,770	1,050	4.16	5.24	2.75	4.04	2.94
31	SML.83+13	I	2,780	1,230	2,480	850	4.45	16.70	7.10	11.36	9.82
32	SML.89+27	I	1,800	1,220	2,210	800	5.23	9.03	3.61	5.60	5.20
33	SMR.91+3	I	2,720	2,000	4,160	1,550	10.42	31.96	24.77	32.23	25.86
34	SML.98+6	I	730	870	1,370	500	1.24	2.50	0.63	1.14	1.49
35	SML.106+6	I	2,450	1,440	2,840	1,000	5.33	17.84	8.92	13.23	10.36
36	SML.107+22	I	1,990	820	1,800	600	2.18	9.08	2.72	6.26	6.43
37	SML.115+22	II	-	800	1,360	500	1.41	4.70	1.17	2.49	1.39
38	SML.115+24	I	2,320	1,700	2,660	1,000	5.72	7.00	3.50	6.68	7.13
39	SML.116+32	II	-	1,000	1,910	700	2.36	8.51	2.98	3.77	2.36
40	SML.116+32	I	910	820	950	800	1.08	1.95	0.49	0.70	1.04
41	SML.116+33	II	-	280	610	500	0.66	0.93	0.23	0.35	0.20
42	SMR.119+14	I	600	500	640	500	0.80	0.81	0.20	0.16	0.41
43	SMR.120+22	I	1,172	500	610	500	1.09	1.45	0.36	0.22	0.74
44	SMR.123+2	II	-	800	1,170	500	0.66	3.23	0.81	1.29	0.81
45	SML.123+11	I	500	830	910	500	0.90	1.05	0.26	0.33	0.56
46	SML.124+29	I	610	1,100	1,110	500	1.41	1.35	0.34	0.11	0.91
47	SML.126+1	I	610	730	1,130	500	1.04	1.70	0.43	0.72	0.95
48	SML.126+2	II	-	800	810	500	0.66	1.24	0.31	0.28	0.21
49	SML.128+1	II	-	1,000	1,870	700	2.36	8.07	2.82	3.48	2.18
50	SML.126+29	II	-	130	890	800	0.31	2.73	0.68	1.49	1.00
51	SMR.130+18	II	-	800	1,530	550	1.88	5.47	1.90	2.28	1.48
52	SML.129+33	II	-	1,000	2,060	700	2.36	10.29	3.60	5.03	3.16
53	SML.131+2	II	-	1,000	1,830	850	2.36	7.64	2.48	3.19	2.08
54	SMR.133+20	II	-	800	1,290	500	1.88	3.53	0.88	1.16	0.82
55	SML.139+11	II	-	800	1,090	800	1.88	2.26	0.57	0.53	0.46
56	SML.140+32	II	-	800	1,130	900	1.88	2.49	0.62	0.64	0.51
TOTAL VOLUME							106.13	216.28	112.97	179.71	152.93

NOTE :
② NUMBER OF CLOSED STRUCTURE



LOCATION OF SECONDARY CHANNEL OUTLET CLOSING ON SEMARANG RIVER

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT			PROVINCE CENTRAL JAYA		
JATUNHEULIMA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT (MISCELLANEOUS) SEMARANG RIVER SECONDARY CHANNEL OUTLET CLOSURES			PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA		
JAPAN INTERNATIONAL COOPERATION AGENCY CITY ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND TAMEO INTERNATIONAL INC.			DISTRICT SEMARANG CITY		
CHIEF OF PLANNING AND DESIGN PROJECT MANAGER			DRAWING NO. U-P1-S-MI-1 SHEET NO. 51 DATE CONTRACT NO.		
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED





JICA