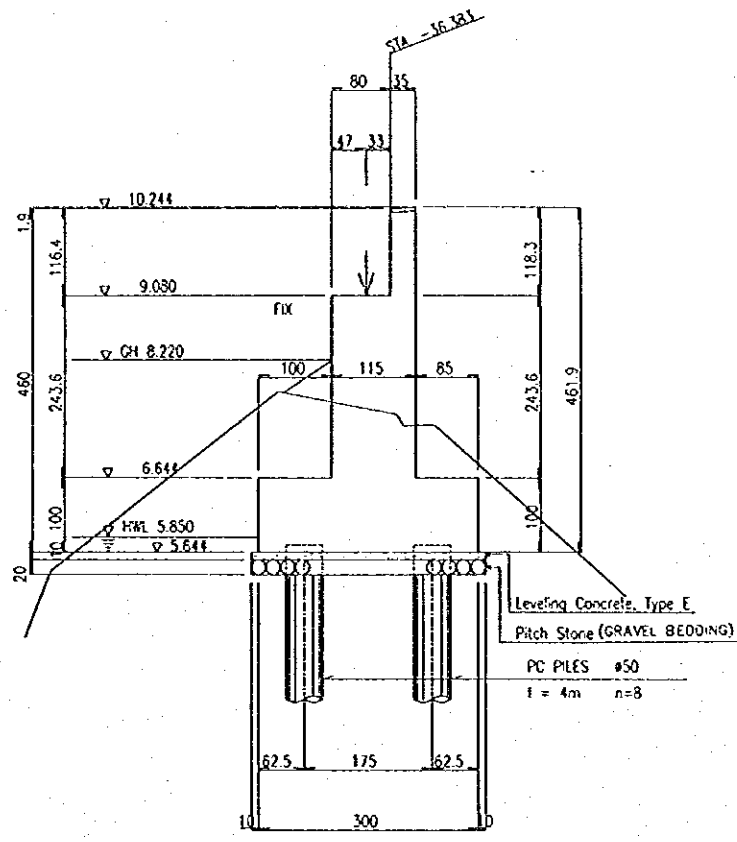
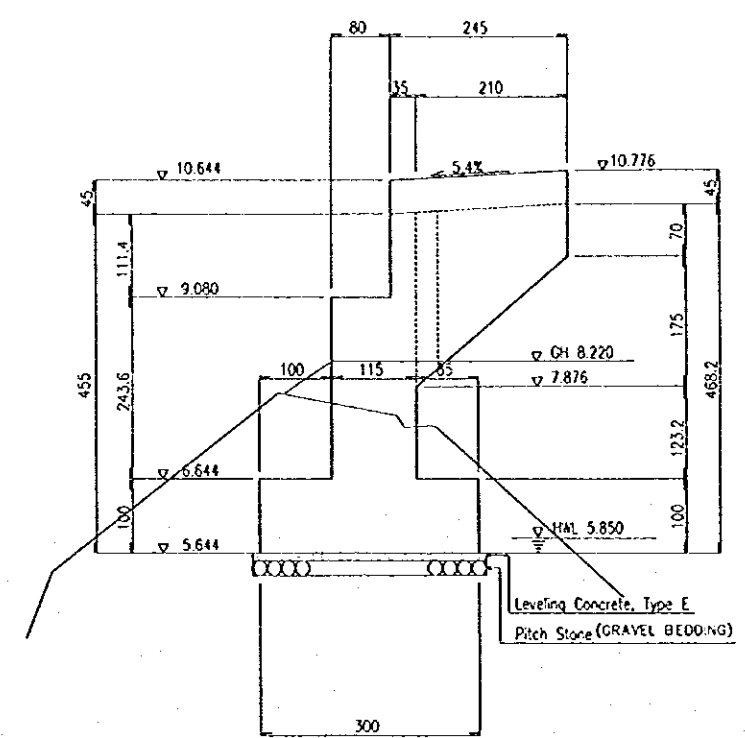


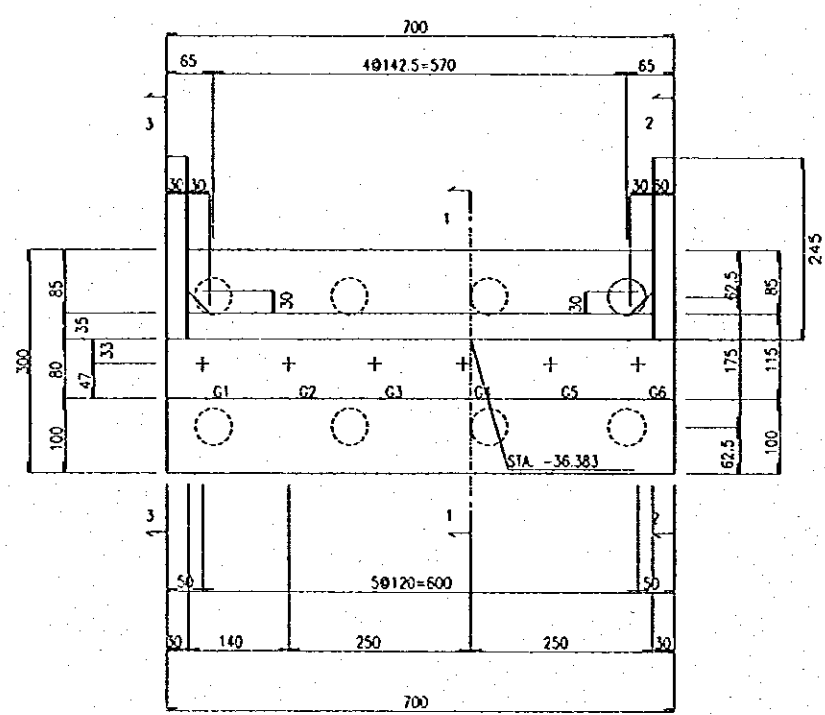
ELEVATION
SCALE A



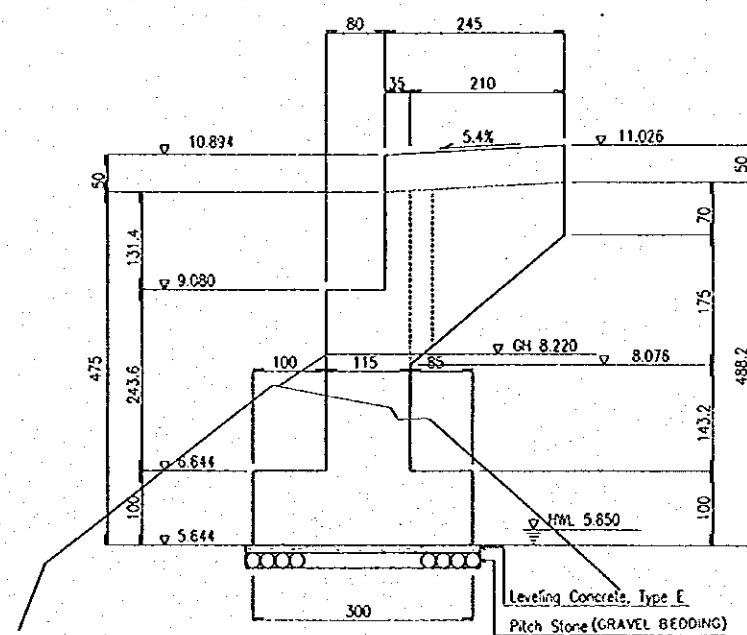
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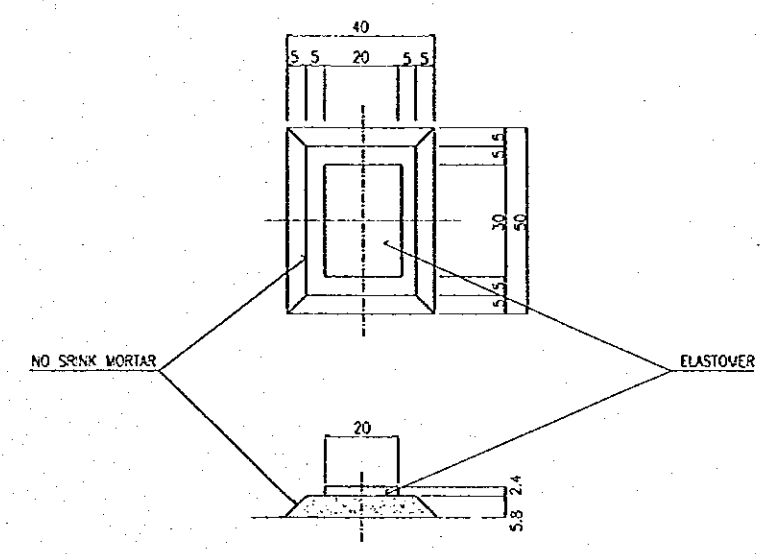
2 - 2
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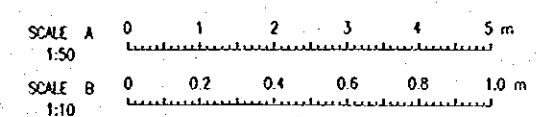
PLAN
SCALE A



3 - 3
SCALE A



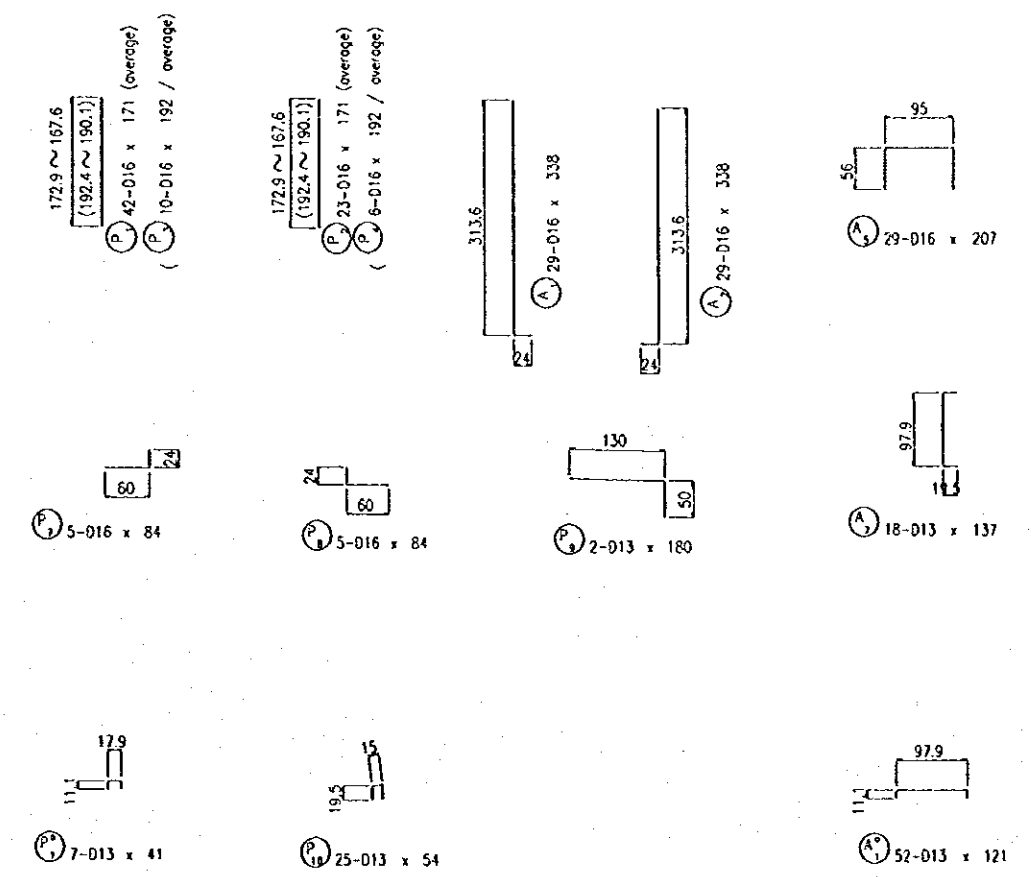
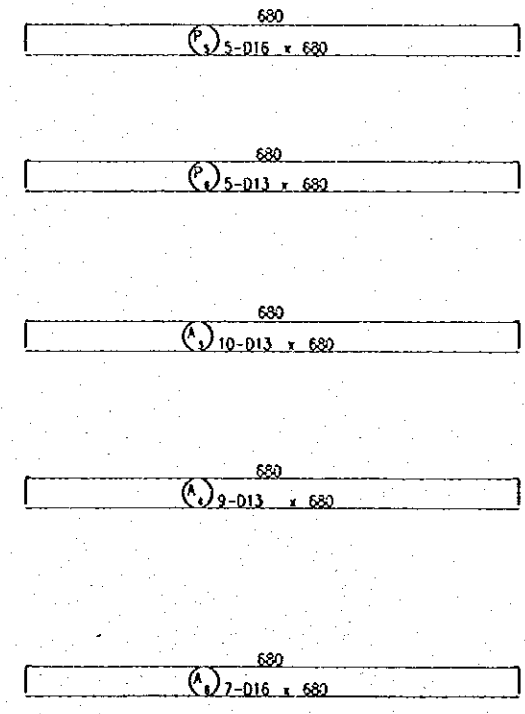
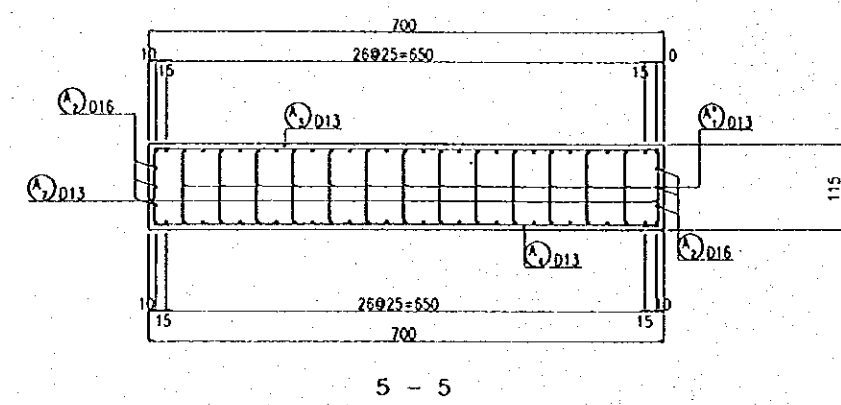
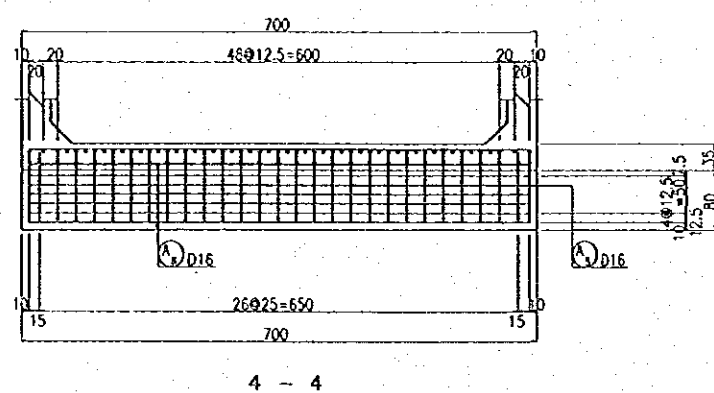
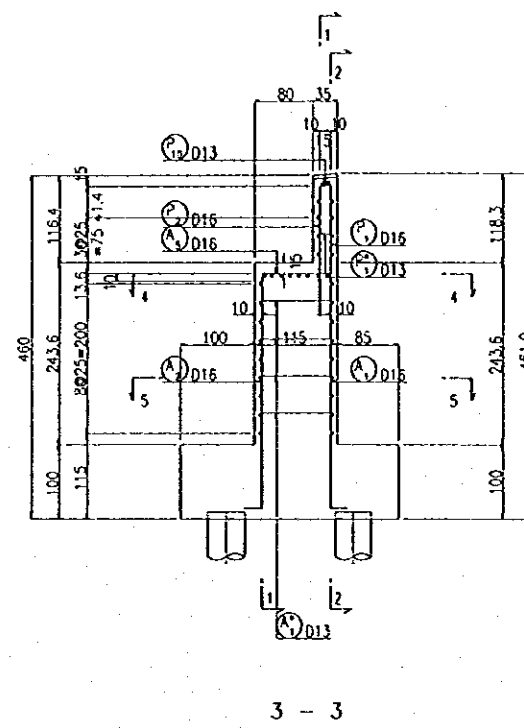
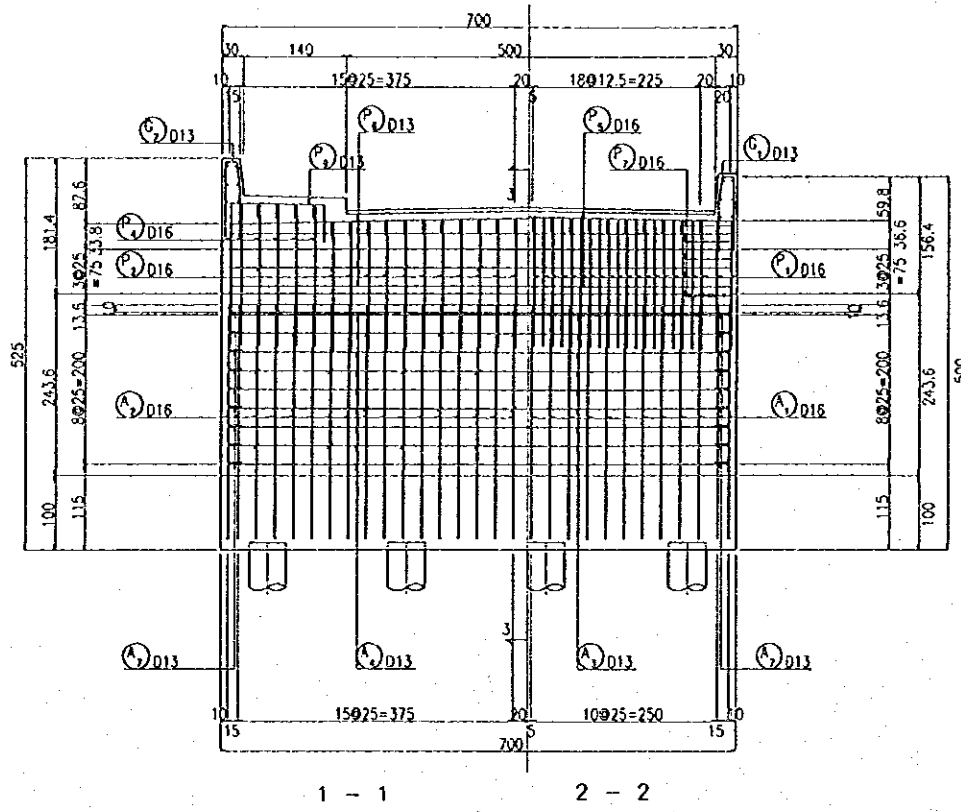
BEARING PAD
SCALE B



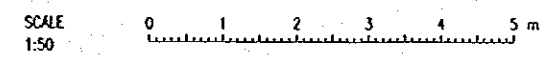
Notes :
1. The elevation in m
2. The dimension in cm
3. Concrete for construction, Type C1

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 : WEST FLOODWAY / GARANO RIVER IMPROVEMENT MAINTENANCE BRIDGE SUBSTRUCTURE PLAN AND PROFILE OF ABUTMENT 2		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT BY REFORMING IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY
JAPAN INTERNATIONAL COOPERATION AGENCY CITI ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL PARKO INTERNATIONAL SPC		DRAWING NO. WB-P2-MB-01-02 SHEET NO. 146
DESIGNED CHECKED	DATE	CONTRACT NO.
CENTER OF PLANNING AND DESIGN PROJECT MANAGER		



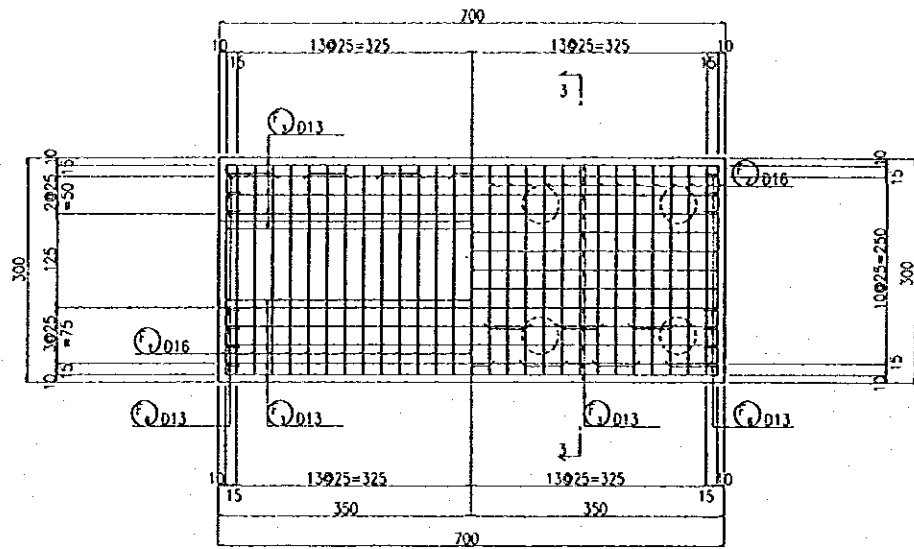
DETAILS OF BEARING SHOES



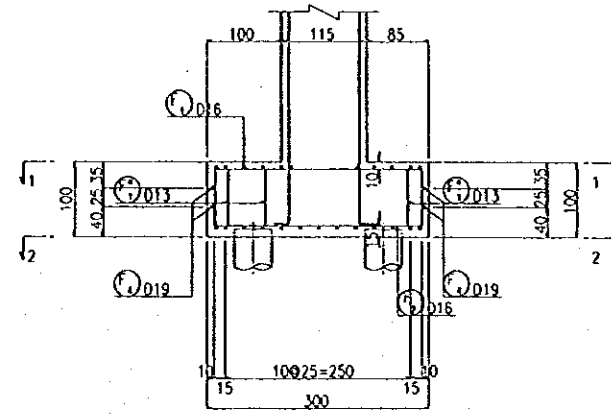
Notes : The dimensions in cm, except for reinforcing bar diameter in mm

NO	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

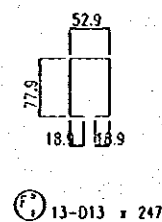
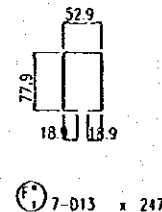
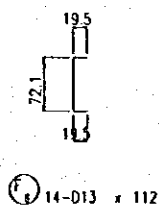
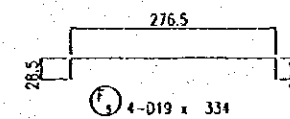
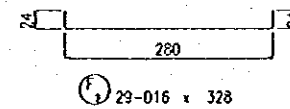
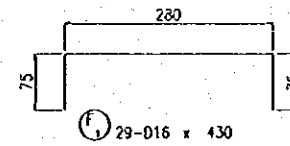
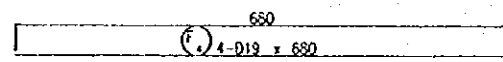
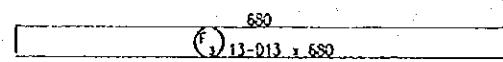
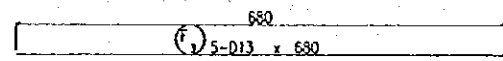
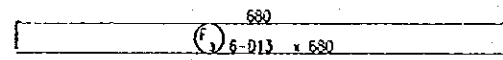
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
JATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT MAINTENANCE BRIDGE SUBSTRUCTURE REINFORCING BAR ARRANGEMENT OF ABUTMENT 2/1/2		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY
INFRA INTERNATIONAL CORPORATION CITI ENGINEERING CO., LTD. (A MEMBER OF IFC) PT. INDOCONSULT INTERNATIONAL PT. INDOCONSULT INTERNATIONAL	DESIGNED CHECKED	DATE CONTRACT NO.
CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		DRAWING NO. WB-P2-MB-Ra-13 SHEET NO. 147



1 - 1 2 - 2

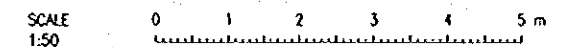


3 - 3

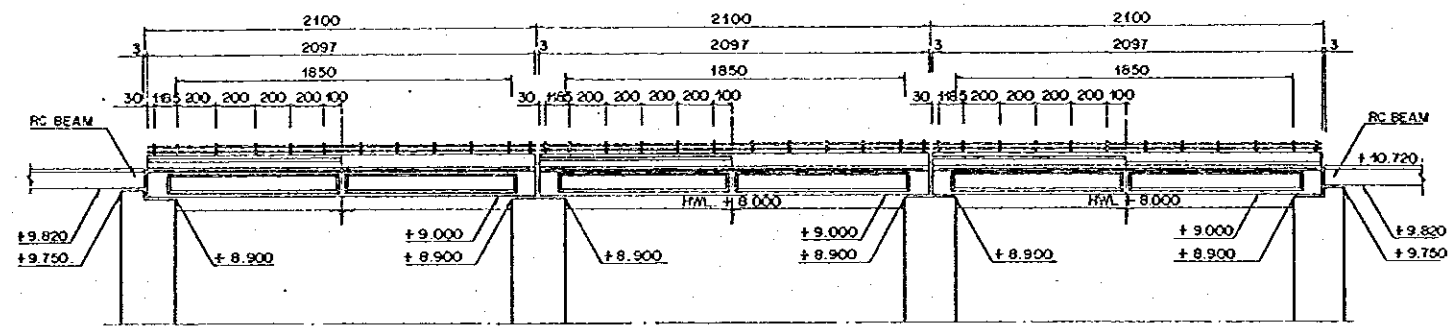


Note : The dimension in cm, except for reinforcing bar diameter in mm

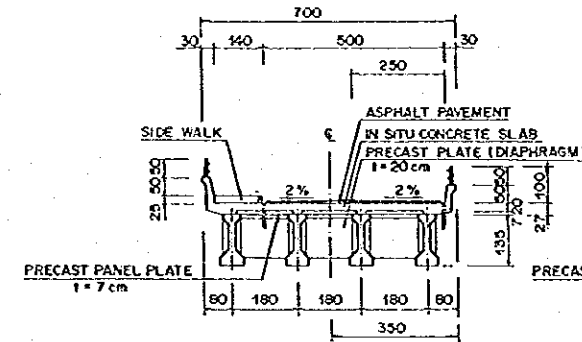
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED



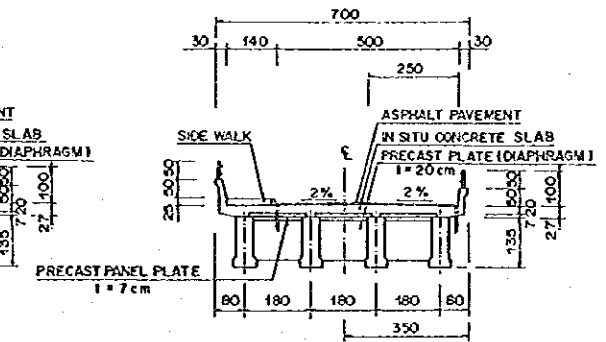
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVIDER CENTRAL JAVA
JRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT MAINTENANCE BRIDGE SUBSTRUCTURE REINFORCING BAR ARRANGEMENT OF ABUTMENT 2(2/2)		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
PT. ENGINEERING CO. LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL PT. INTERNATIONAL INC.		DISTRICT SEMARANG CITY
DESIGNED: [Signature] CHECKED: [Signature]		DRAWING NO. WB-P2-MB-RE-14 SHEET NO. 148
CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		DATE: [Signature] CONTRACT NO.



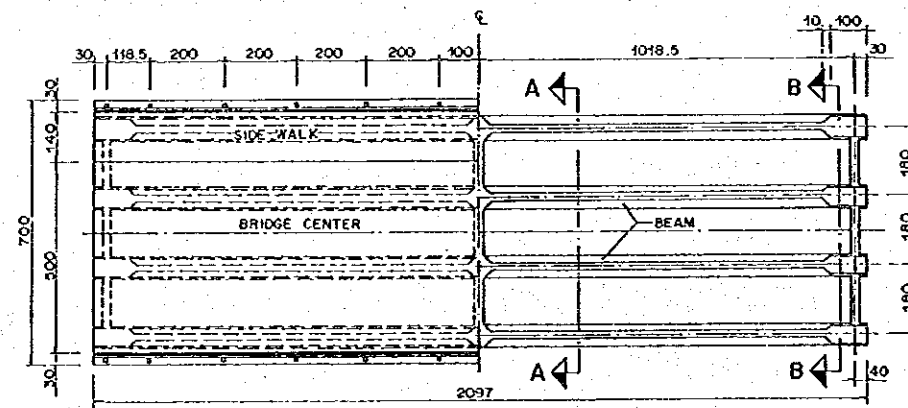
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SCALE A



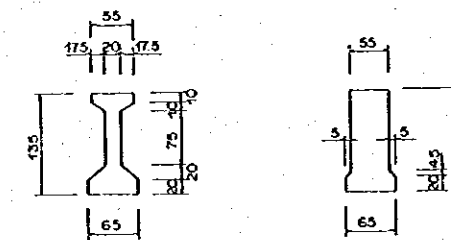
SECTION A - A
SCALE B



SECTION B - B
SCALE B

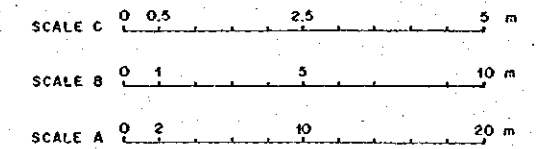


PLAN
SCALE B



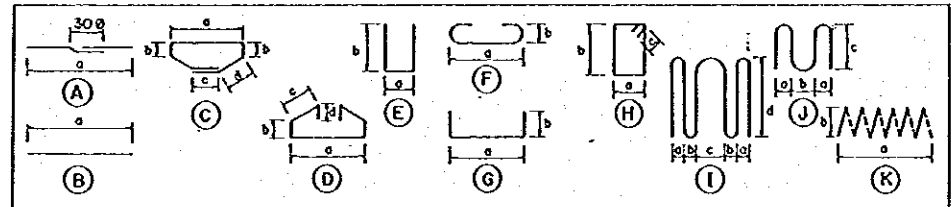
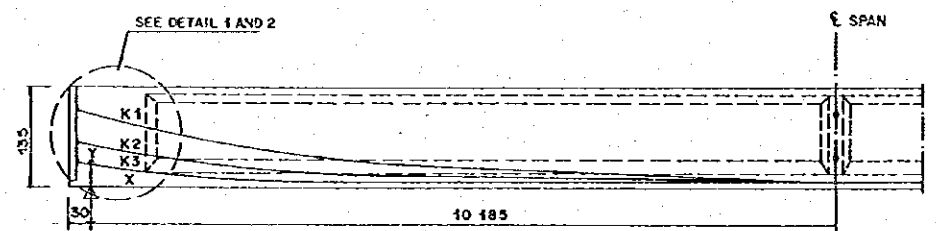
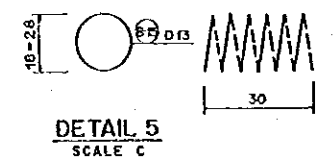
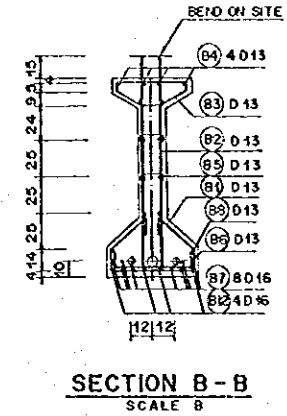
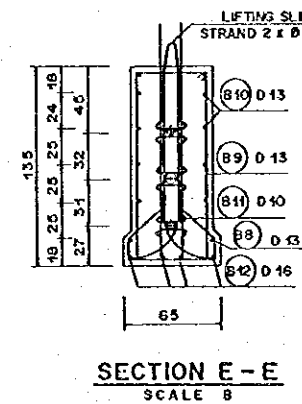
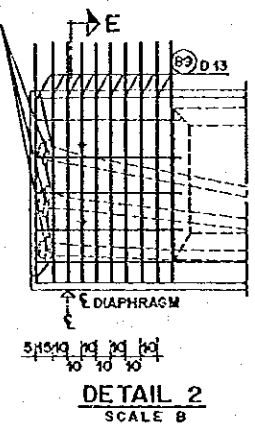
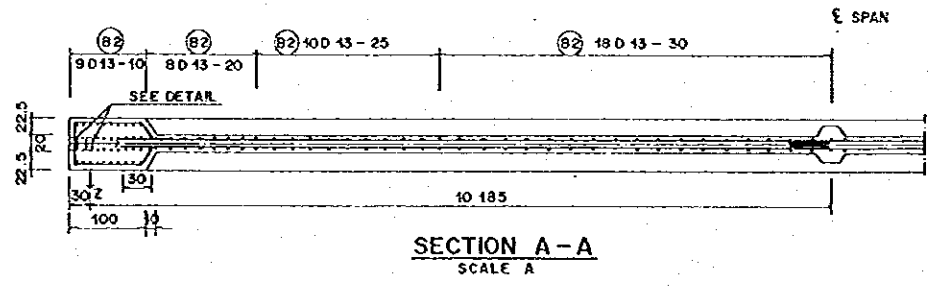
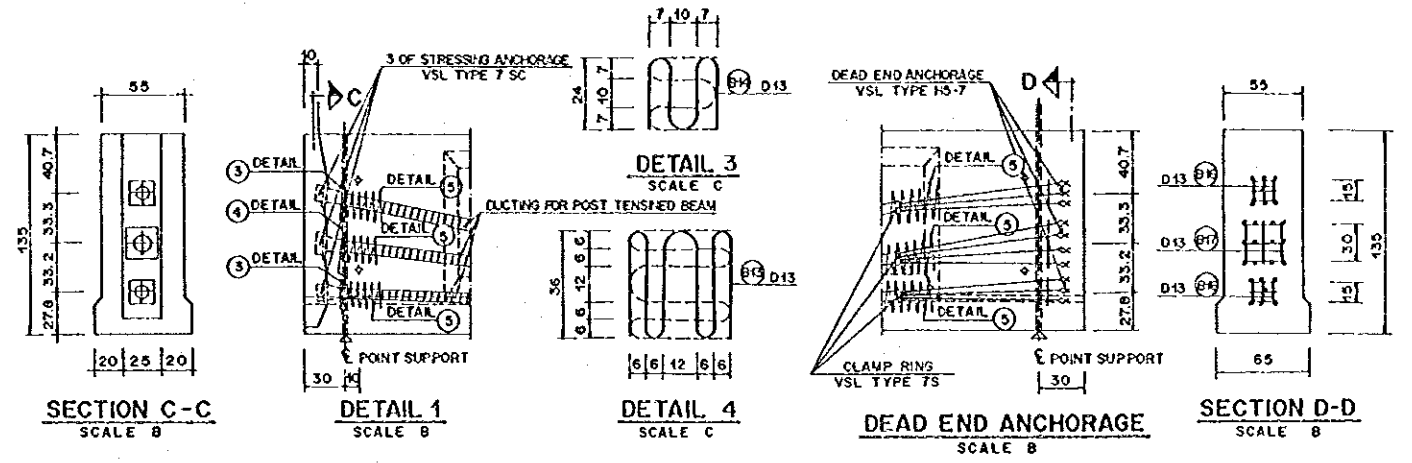
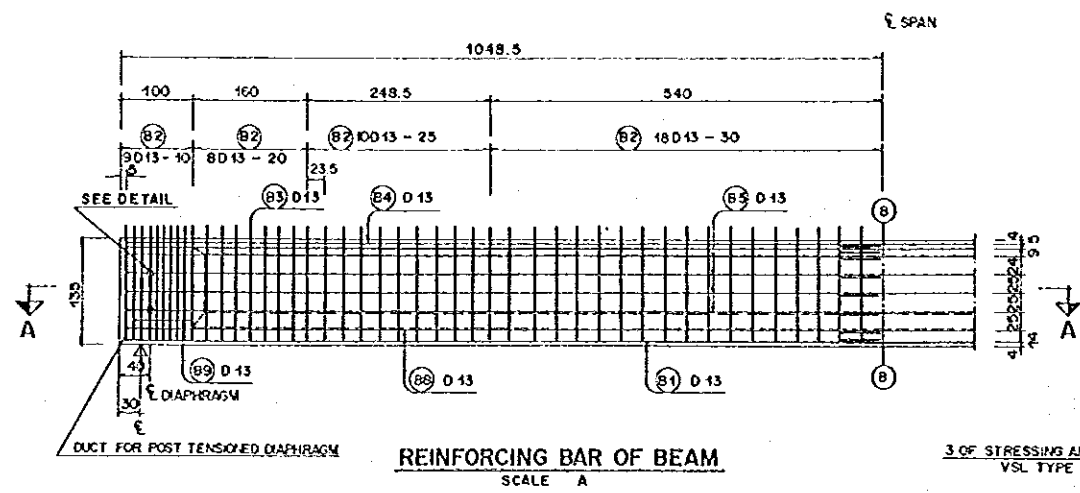
CENTER END
BEAM SECTION
SCALE C

- NOTE :
1. UNIT IN CENTIMETER
 2. CONCRETE QUALITY FOR MAIN GIRDER AND DIAPHRAGM K-400
 3. CONCRETE QUALITY FOR SLAB AND SIDE WALK K-250
 4. ASPHALT PAVEMENT CONSISTS OF ASPHALT CONCRETE (AC) 1 = 50 mm AND ASPHALT TREATMENT BASE (ATB)



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 JAVA
JATUNSELUNA FLOOD CONTROL PROJECT COMPONENT: WEST FLOODWAY/GARANG RIVER IMPROVEMENT MAINTENANCE BRIDGE NO. 2,3,4 PLAN AND PROFILE OF SUPERSTRUCTURE		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY
JAPAN INTERNATIONAL COOPERATION AGENCY JICA ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL INC. JAPAN INTERNATIONAL ENGINEERING CO., LTD.		DRAWING NO. W8-P2-MB-S1-15 SHEET NO. 149
DESIGNED: [Signature] CHECKED: [Signature]		DATE: [Date] CONTRACT NO.: [Number]
CHIEF OF PLANNING AND DESIGN		PROJECT MANAGER

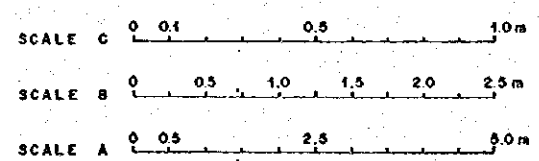


	X	0	100	200	300	400	500	600	700	800	900	1000	10185
CABLE 3 (K3)	Y	27	24	21.4	190	16.9	13.1	12.2	11.3	10.6	10.1	10	10
	Z	0	2.1	4	5.7	7.1	8.4	9.5	10.4	11.1	11.6	11.9	12
CABLE 2 (K2)	Y	58.8	50.1	42.5	35.7	29.6	24.4	20	16.4	13.6	11.6	10.4	10
	Z	0	0	0	0	-3.2	-5.9	-8.1	-9.8	-11	-11.8	-12	-12
CABLE 1 (K1)	Y	90	76.1	63.6	52.3	42.4	33.8	26.5	20.6	17.7	15.4	10.9	10
	Z	0	0	0	0	0	0	0	0	0	0	0	0

LIST OF CABLE COORDINATE (Cm)

REINFORCING BAR NO.	Ø (mm)	TYPE	BENDING DIMENSION (cm)						TOTAL LENGTH (m)	UNIT WEIGHT (kg/m)	NUMBER	WEIGHT (kg)	REMARKS
			a	b	c	d	e	f					
K 3	12.7	7 STRANDS	15663						156.63	0.789	4	494	
K 2	12.7	7 STRANDS	26682						266.82	0.789	4	843	
K 1	12.7	7 STRANDS	15713						157.13	0.789	4	496	
TOTAL = 1838 kg													

LIST OF PC CABLE OF MAIN GIRDER

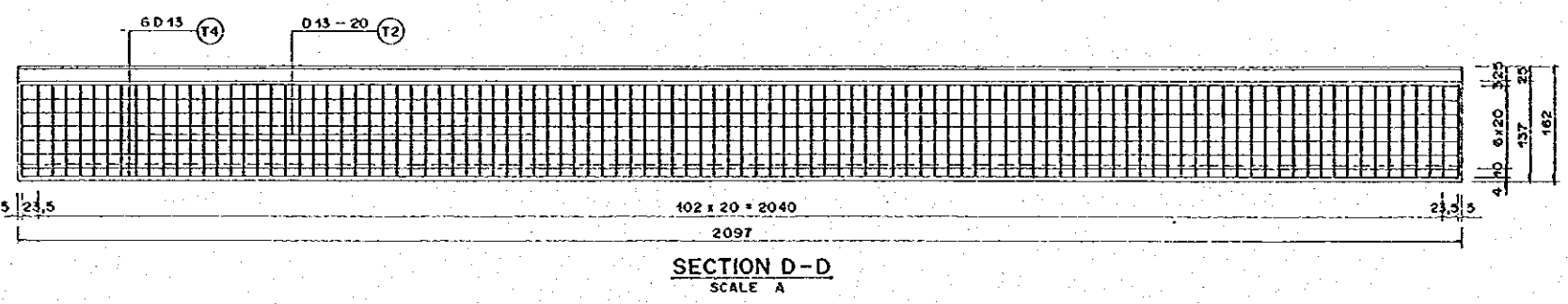
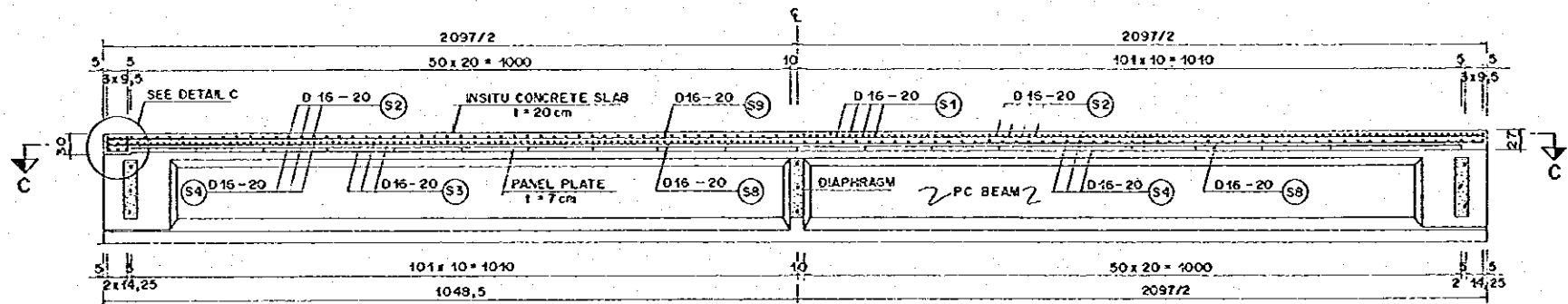
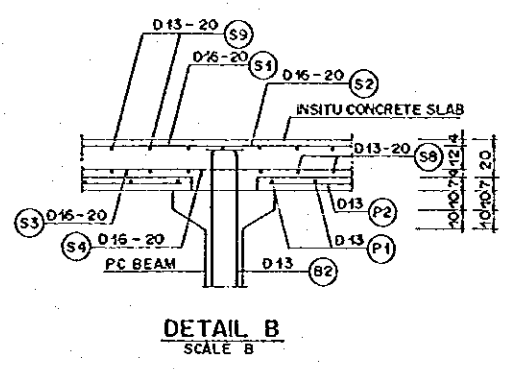
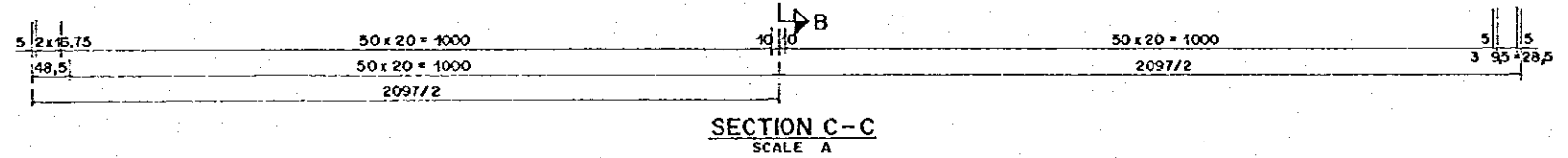
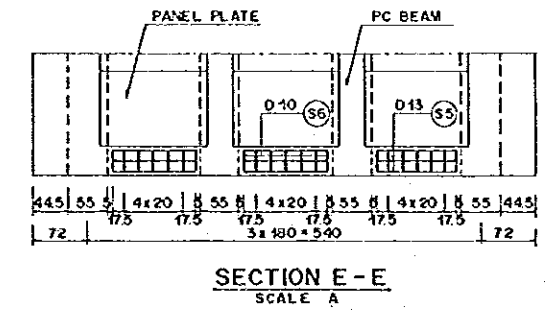
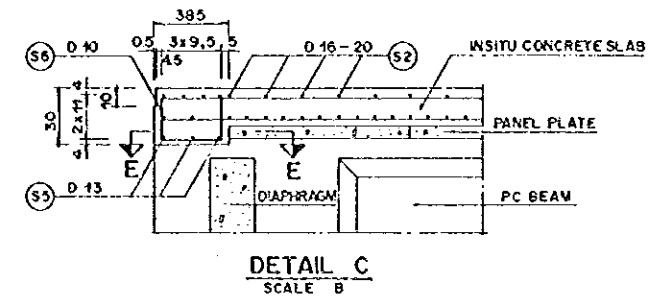
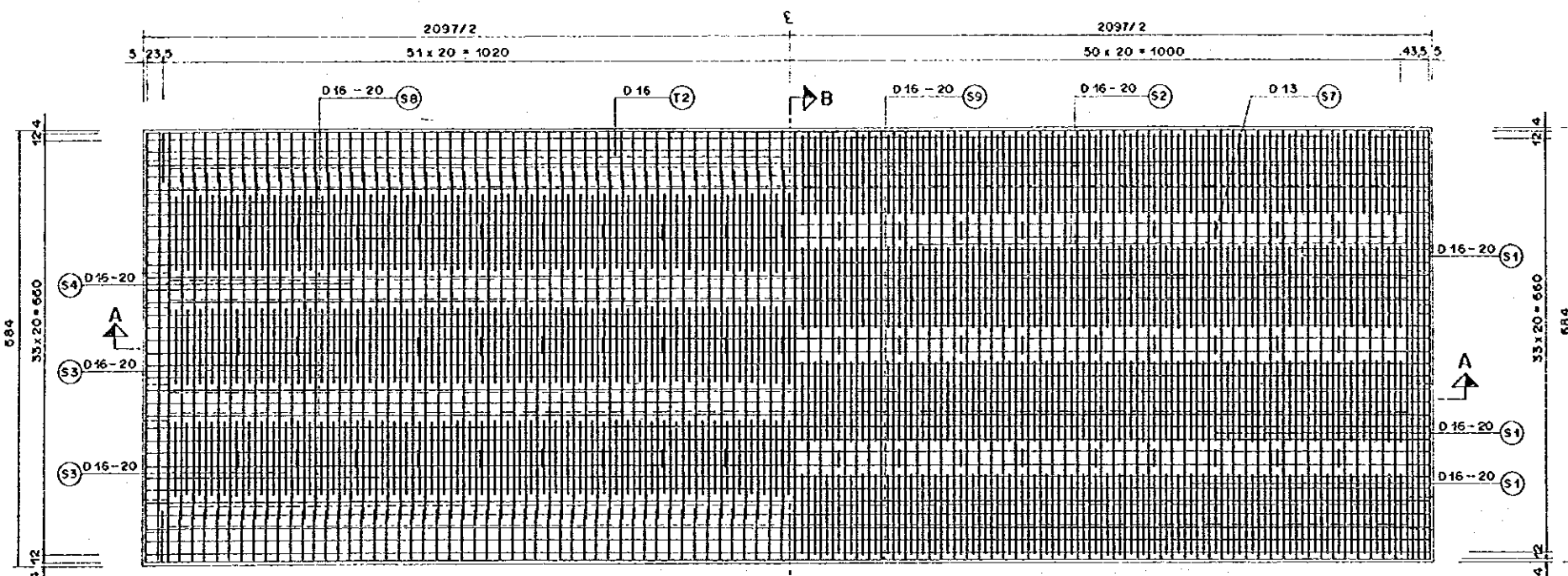


REINFORCING BAR NO.	Ø (mm)	TYPE	BENDING DIMENSION (cm)						TOTAL LENGTH (m)	UNIT WEIGHT (kg/m)	NUMBER	WEIGHT (kg)	REMARKS
			a	b	c	d	e	f					
B1	13	D	57	15	35	10		1.77	1.04	4x92	677		
B2	13	E	12	166				3.44	1.04	4x92	1316		
B3	13	C	47	4	12	20		1.19	1.04	4x74	366		
B4	13	A	2087					21.26	1.04	4x4	354		
B5	13	A	1943					19.82	1.04	4x8	660		
B6	13	G	55	40				0.75	1.04	4x1	4		
B7	16	A	2087					21.35	1.58	4x8	1080		
B8	13	A	2087					21.26	1.04	4x2	175		
B9	13	H	47	127	6.5			3.61	1.04	4x8	271		
B10	13	B	92	23	15			1.30	1.04	4x16	87		
B11	10	F	15	4				0.24	0.617	4x316	197		
B12	16	A	2087					21.35	1.58	4x4	540		
B13	13	I	6	6	12	36		2.36	1.04	4x12	20		
B14	13	J	7	10	24			0.45	1.04	4x12	75		
B15	13	K	30	18				3.391	1.04	4x6	83		
B16	13	B	15					0.90	1.04	4x2	8		
B17	13	B	30					1.8	1.04	4x1	8		
TOTAL = 5846 kg													

LIST OF REINFORCING BAR OF MAIN GIRDER

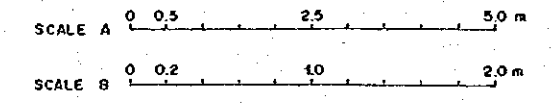
- NOTE:
- CONCRETE COMPRESSION STRENGTH OF:
 - $c' = 33.2 \text{ MPa (338 kgf)}$
 - $c' = 26.6 \text{ MPa (271.32 kgf)}$
 - TENSILE STRENGTH OF REINFORCING BAR
 - $f_y = 320 \text{ MPa (3264 kgf)}$
 - TENDON SPECIFICATION
 - TYPE = 7 SUPER STRANDS
 - DIAMETER = 12.7 mm
 - AREA A = 100 mm²
 - MIN TENSILE STRENGTH = 1840 MPa (18768 kgf)
 - MIN BREAKING LOAD 184 kN
 - USED = 26 STRANDS
 - K 1 = 7 STRANDS
 - K 2 = 12 STRANDS
 - K 3 = 7 STRANDS
 - EACH STRAND SHALL BE PRESTRESSED TO 150 kN IMMEDIATELY PRIOR TO LOCK OFF
 - UNIT IN CENTIMETER EXCEPT FOR DIAMETER OF REINFORCING BAR
 - CONCRETE QUALITY K-400
 - STEEL QUALITY BJ-32

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT BRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT: WEST FLOODWAY / GARANG RIVER IMPROVEMENT MAINTENANCE BRIDGE NO. 2, 3, 4 CABLE AND BAR ARRANGEMENT OF GIRDER			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: W9-P2-MB-S1-16 SHEET NO: 154		
			JAPAN INTERNATIONAL COOPERATION AGENCY OTE ENGINEERING CO. LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL, INC. LARCO INTERNATIONAL, INC.		
DESIGNED: [Signature] CHECKED: [Signature] DATE: [Date]			DATE: [Date] CONTRACT NO.: [Number]		
APPROVED: [Signature] PROJECT MANAGER			APPROVED: [Signature]		
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED



REINFORCING BAR NO.	Ø (mm)	TYPE	BENDING DIMENSION (cm)					TOTAL LENGTH (m)	UNIT WEIGHT (kg/m)	WEIGHT PER BAR (kg)	NUMBER	WEIGHT (kg)	REMARKS
			a	b	c	d	e						
S 1	D 16	B	130					1.30	1.58	2.054	404	830	
S 2	D 16	B	676					6.76	1.58	10.697	110	1175	
S 3	D 16	B	130					1.30	1.58	2.054	303	622	
S 4	D 16	E	595	40	40	10		7.75	1.58	12.245	106	1297	
S 5	D 16	B	115					1.15	1.58	1.817	78	33	
S 6	D 10	C	28.5	22	5			1.11	0.56	0.638	42	26	□
S 7	D 10	D	25	10	5			0.55	0.56	0.308	54	17	□
S 8	D 15	A	20.87					21.26	1.58	33.59	36	1209	
S 9	D 16	A	20.87					21.26	1.58	33.59	36	1209	
TOTAL											6418	kg	

LIST OF REINFORCING BAR OF DECK SLAB



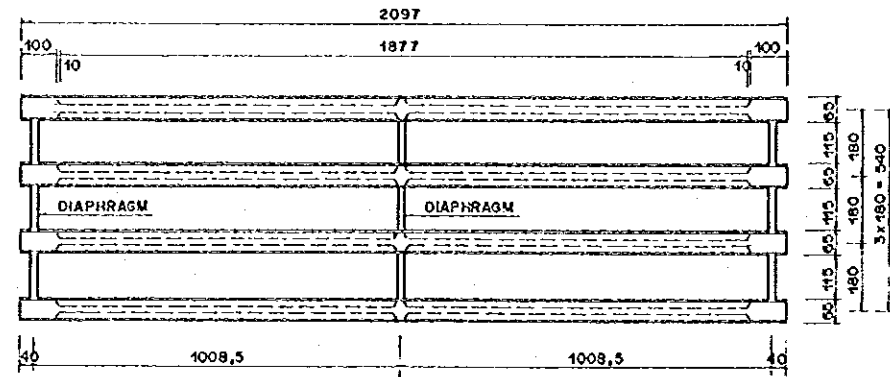
THE REPUBLIC OF INDONESIA
 MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT
 IRATUNSELUNA FLOOD CONTROL PROJECT
 COMPONENT : JATIBARANG DAM CONSTRUCTION
MAINTENANCE BRIDGE NO. 2,3,4
REINFORCING BAR ARRANGEMENT OF DECK SLAB

JAWAH INTERNATIONAL COOPERATION AGENCY
 PT. INDOBESTRA CO., LTD. IN ASSOCIATION WITH
 PACIFIC CONSULTANTS INTERNATIONAL AND
 PONDOK BENDOWATI P.T.C.

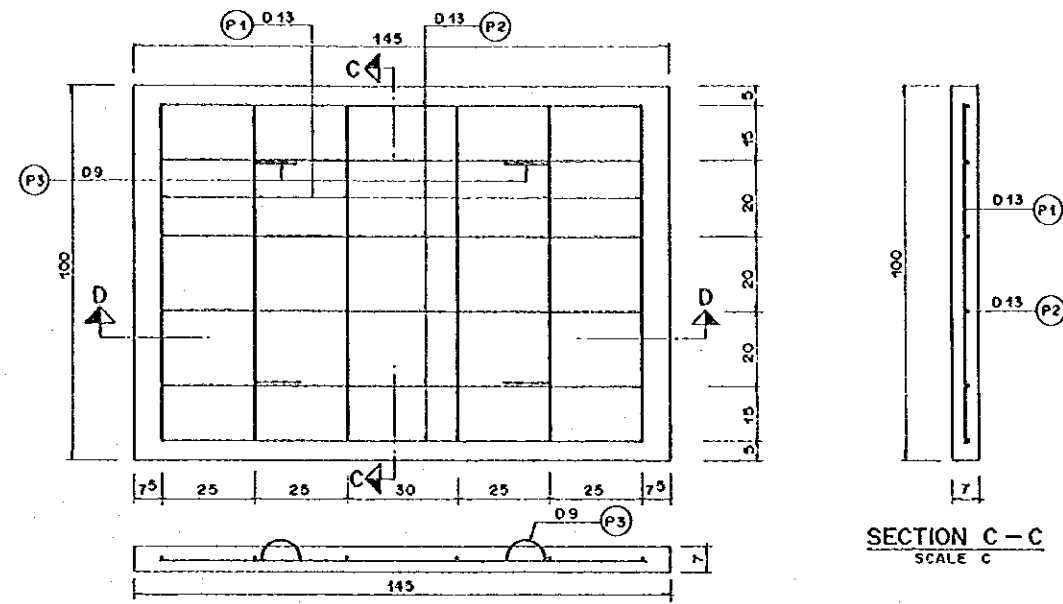
DESIGNED: [Signature]
 CHECKED: [Signature]
 CEASE OF PLANNING AND DESIGN: [Signature]
 PROJECT MANAGER: [Signature]

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. W6-P2-MB-RS-17
 SHEET NO. 131
 DATE: [] CONTRACT NO.

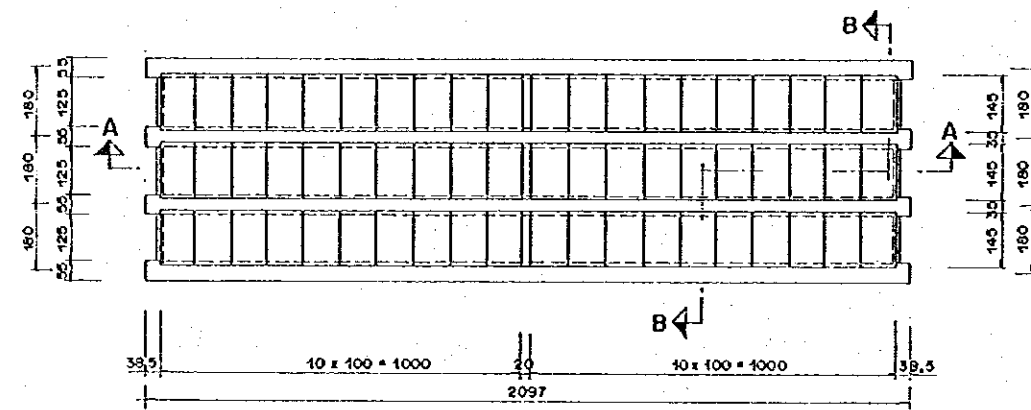
NO.	DATE	REVISION	ORIGINATED	DESIGNED	APPROVED



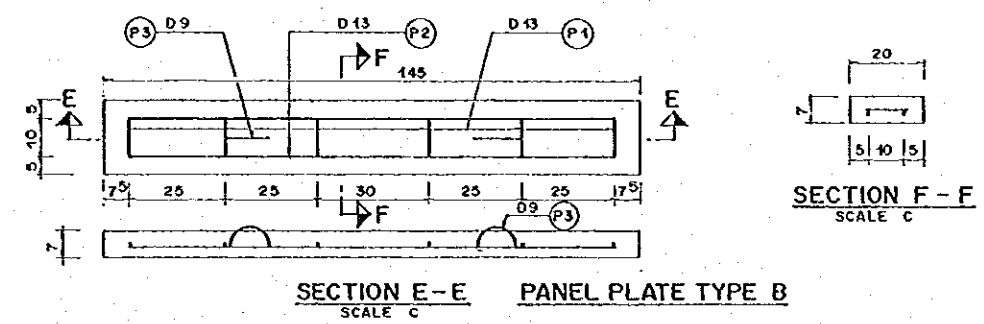
BEAM AND DIAPHRAGM ARRANGEMENT
SCALE A



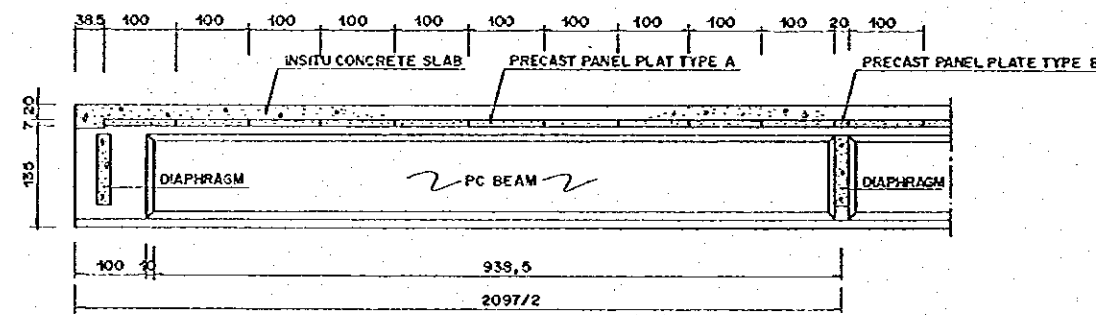
SECTION D - D PANEL PLATE TYPE A
SCALE C



PANEL PLATE ARRANGEMENT
SCALE A



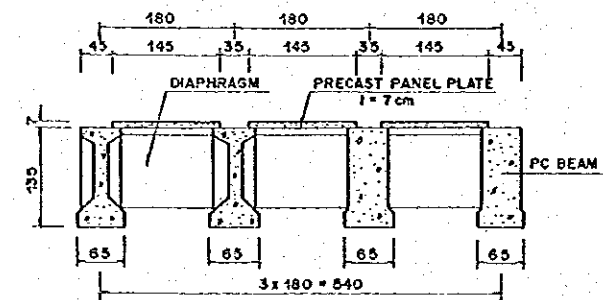
SECTION E - E PANEL PLATE TYPE B
SCALE C



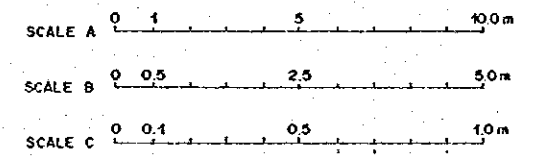
SECTION A - A
SCALE B

REINFORCING BAR NO.	Ø (mm)	TYPE	BENDING DIMENSION (cm)						TOTAL LENGTH (m)	UNIT WEIGHT (kg/m)	NUMBER	WEIGHT (kg)	REMARKS
			a	b	c	d	e	f					
[Ø] 145 x 100 (60)													
P 1	13	B	90						0.90	1.04	360	337	
P 2	13	B	130						1.30	1.04	360	487	
P 3	9	I	20	10	12				0.39	0.50	240	47	
[Ø] 145 x 20 (13)													
P 1'	13	B	10						0.40	1.04	18	1.88	
P 2'	13	B	130						1.30	1.04	18	24	
P 3'	9	I	20	10	12				0.39	0.50	6	1.17	
TOTAL											898	kg	

LIST OF REINFORCING BAR OF PANEL PLATE

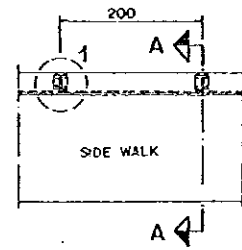


SECTION 8 - B
SCALE B

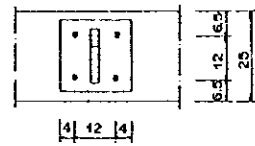


NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

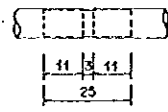
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
PRATUNSELUMA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT MAINTENANCE BRIDGE NO. 2,3,4 REINFORCING BAR ARRANGEMENT OF PANEL PLATE		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCE DEVELOPMENT IN SURABAYA IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL INC. (PCI)		DRAWING NO. W8 - P2 - M8 - P4 - 18 SHEET NO. 152
DESIGNED: [Signature] CHECKED: [Signature] CARRY OF PLANNING AND DESIGN PROJECT MANAGER		DATE: [Date] CONTRACT NO.



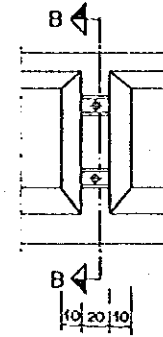
PLAN
SCALE A



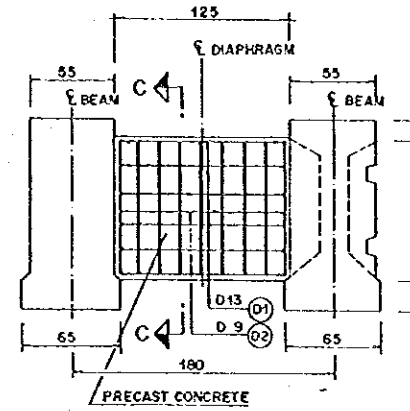
DETAIL 1
SCALE C



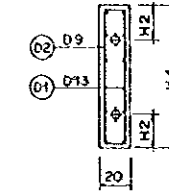
PIPE CONNECTION
SCALE C



ELEVATION
SCALE B

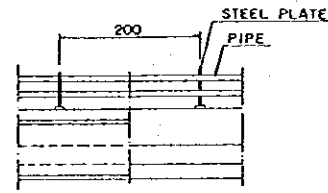


SECTION B-B
SCALE B

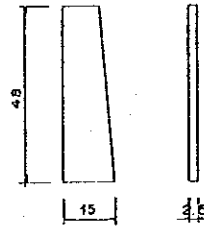


SECTION C-C
SCALE B

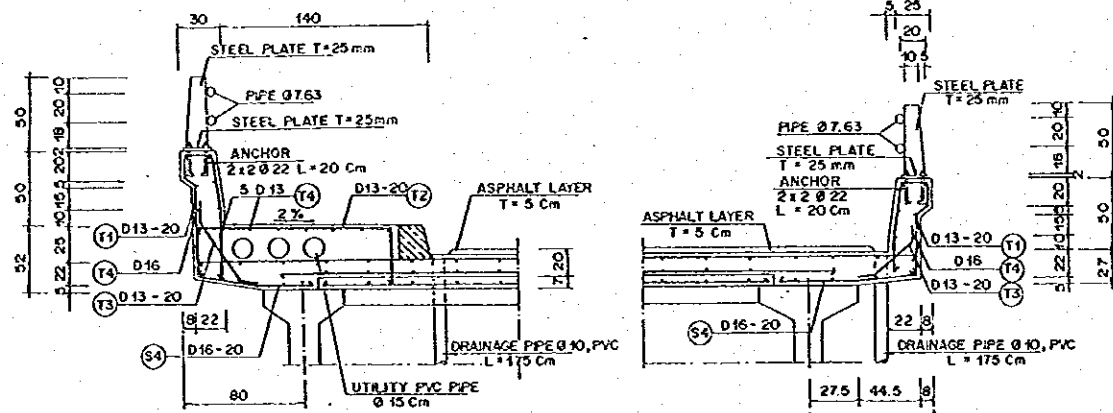
DIAPHRAGM DIMENSION	
SIZE (mm)	
H 1	980
H 2	200



SECTION
SCALE A

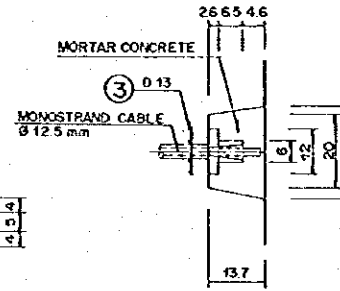


STEEL PLATE
SCALE C

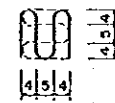


DETAIL OF SIDE WALK
SCALE B

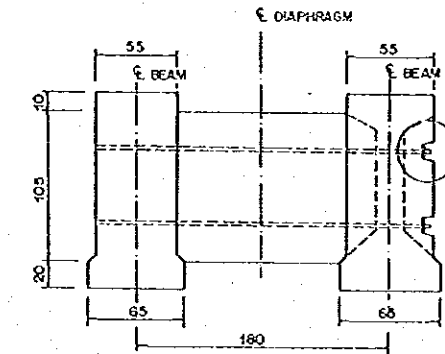
DETAIL OF HAND RAIL
SCALE B



DETAIL 2
SCALE C



DETAIL 3
SCALE C



SECTION B-B
SCALE B

LIST OF REINFORCING BAR OF DIAPHRAGM

REINFORCING BAR NO.	Ø (mm)	TYPE	BENDING DIMENSION (cm)						TOTAL LENGTH (m)	UNIT WEIGHT (kg/m)	NUMBER	WEIGHT (kg)	REMARKS
			a	b	c	d	e	f					
D 1	13	B	107						1.20	1.04	108	135	
D 2	9	H	12	90	4.5				2.15	0.50	81	86	
TOTAL = 221 kg													
STRAND CABLE													
MONO STRAND CABLE Ø 12.5 mm													
	12.5	B	622.4						6.97	0.714	18	94	
TOTAL = 94 kg													

LIST OF REINFORCING BAR OF SIDE WALK AND HAND RAIL

REINFORCING BAR NO.	Ø (mm)	TYPE	BENDING DIMENSION (cm)							TOTAL LENGTH (m)	UNIT WEIGHT (kg/m)	NUMBER	WEIGHT (kg)	REMARKS
			a	b	c	d	e	f						
SIDE WALK														
T 1	16	J	45	35	20	15	10	55	1.93	1.58	105	321	R	
T 2	16	K	35	30	96	65			2.08	1.04	105	228		
T 3	16	L	12	40	15				0.67	1.58	105	112		
T 4	16	A	2087						21.35	1.58	14	472		
HAND RAIL														
T 1	16	J	20	35	20	15	10	30	1.43	1.58	105	238	R	
T 2														
T 3	16	L	12	40	15				0.67	1.58	105	112		
T 4	16	A	2087						21.35	1.58	7	236		
TOTAL = 1719 kg														

NOTE :

1. CONCRETE QUALITY OF DIAPHRAGM K-400
2. MAXIMUM AGGREGATE SIZE 20 mm
3. STEEL QUALITY BJ-32
4. MINIMUM CONCRETE COVER 20 mm
5. PIPE AND STEEL PLATE MUST BE GALVANISED
6. DIAPHRAGM IS PRECAST CONCRETE
7. ASPHALT PAVEMENT CONSISTS OF ASPHALT CONCRETE (AC1) = 50 mm ASPHALT TREATMENT BASE (ATB)

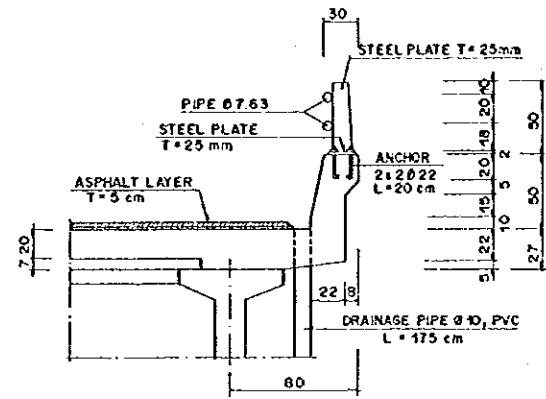
SCALE C 0 0.1 0.5 1 m

SCALE B 0 0.5 1.0 1.5 2.0 2.5 m

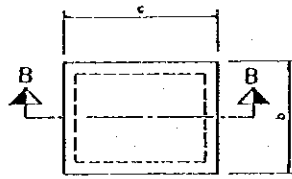
SCALE A 0 0.5 2.5 5 m

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA		DISTRICT SEMARANG CITY
COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT MAINTENANCE BRIDGE NO. 2,3,4 BAR ARRANGEMENT OF DIAPHRAGM SIDE WALK AND HAND RAIL		DRAWING NO. W8-P2-M8-R4-19 SHEET NO. 153
DESIGNED CHECKED APPROVED	DATE	CONTRACT NO.

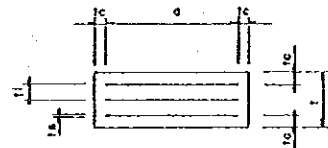
NO.	DATE	REVISIONS	ORIGINATOR	DESIGNED	APPROVED



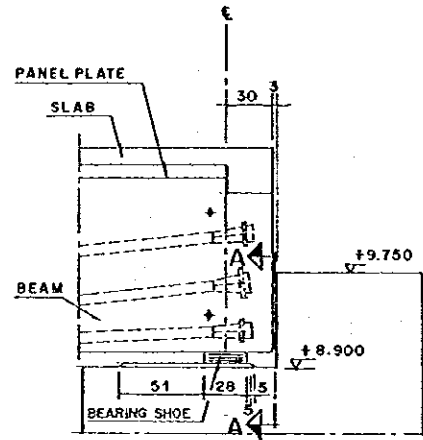
DETAIL OF HAND RAIL
SCALE B



PLAN OF BEARING SHOE



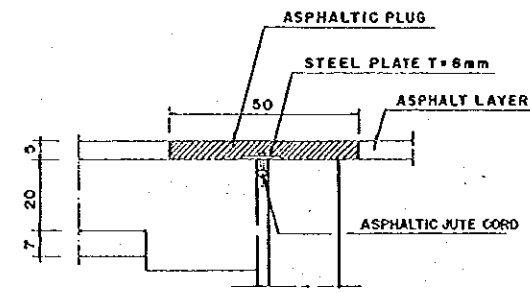
SECTION B-B



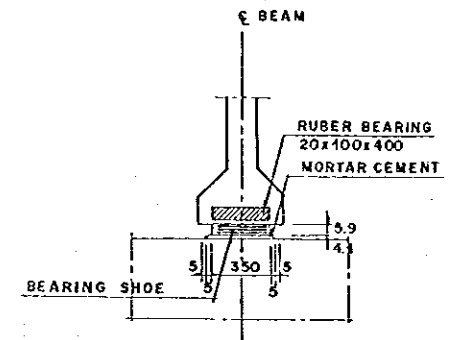
POINT SUPPORT FOR ABUTMENT
SCALE B

SIZE OF BEARING SHOE (mm)

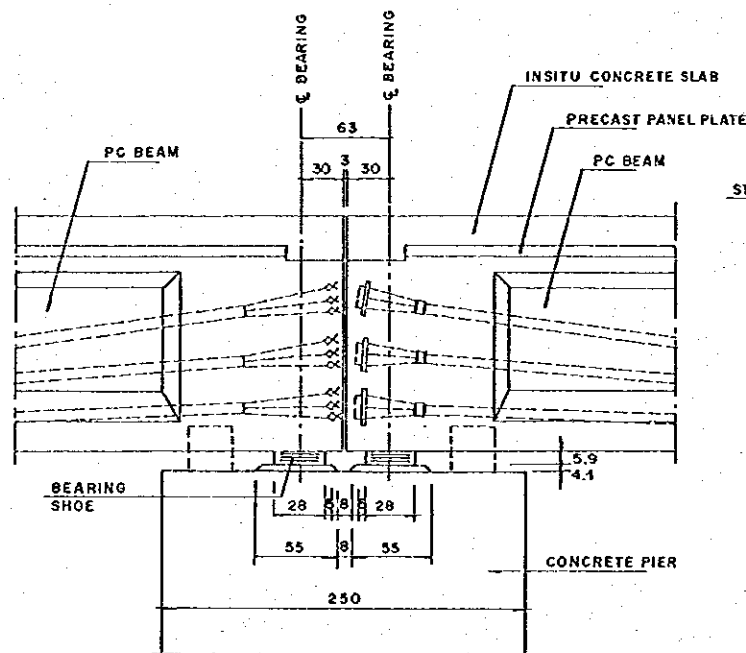
STEEL PLATE		RUBBER		I TOTAL
n	ts	tc	tl	
4	5	6	9	59



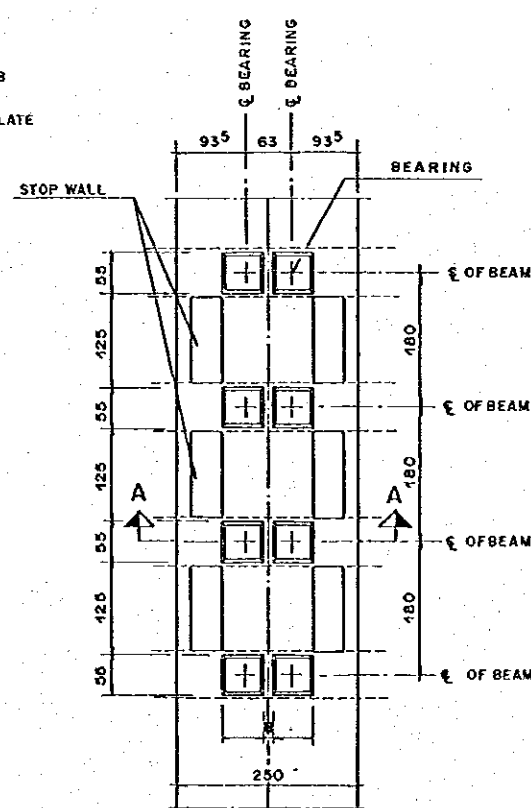
DETAIL OF JOINT
SCALE D



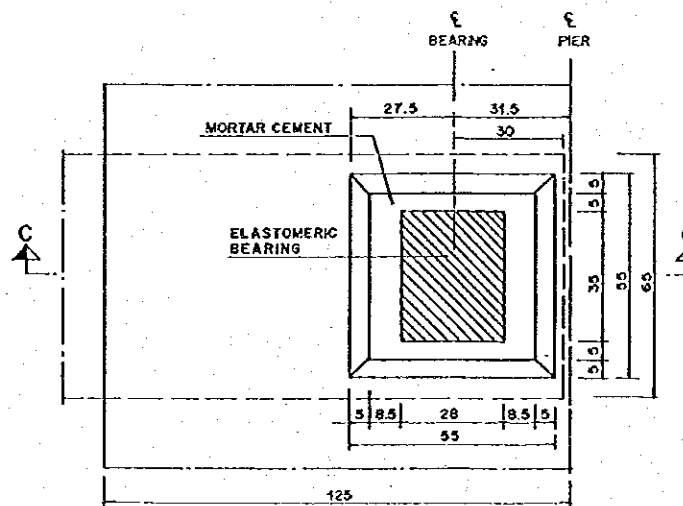
SECTION A-A
SCALE B



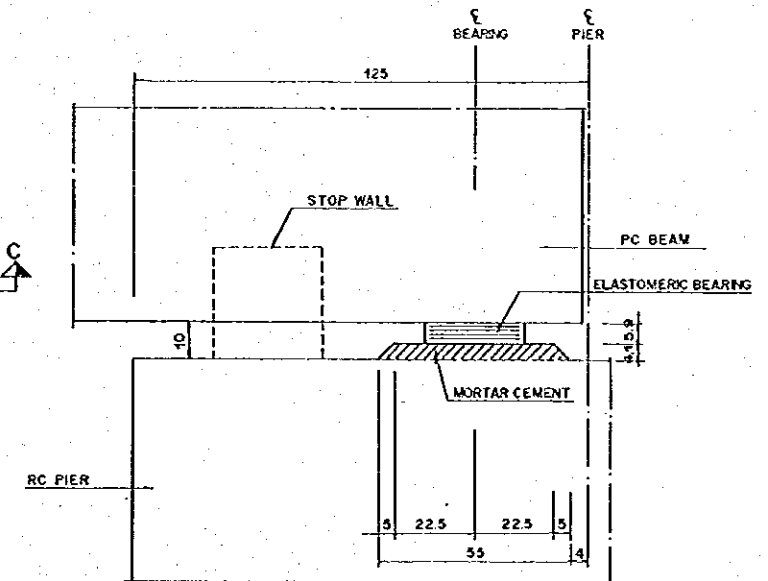
SECTION A-A
SCALE B



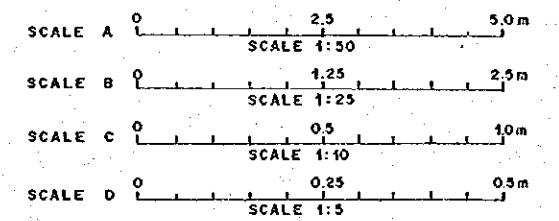
PLAN
SCALE A



PLAN OF BEARING
SCALE C

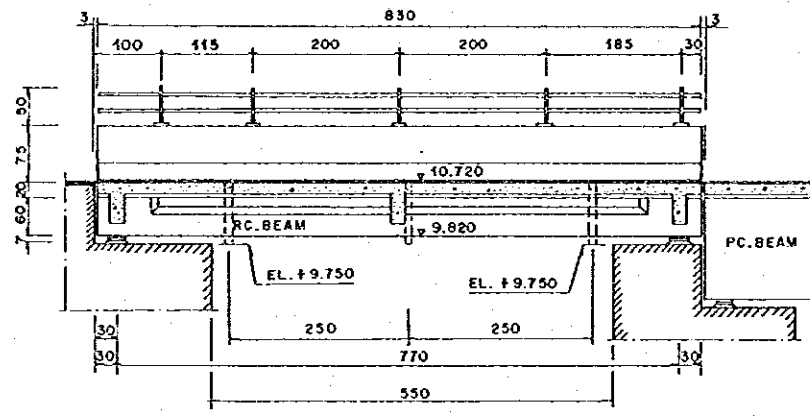


SECTION C-C
SCALE C

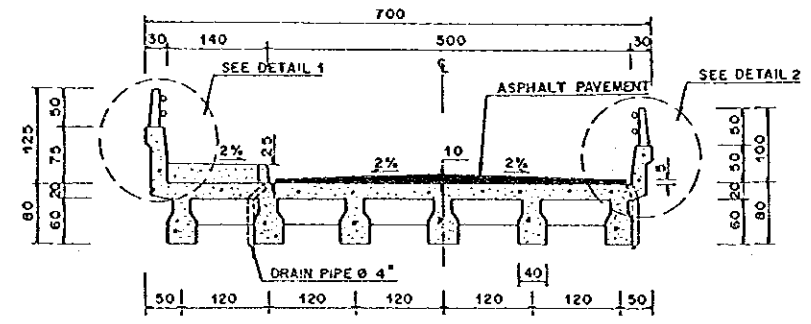


POINT SUPPORT FOR PIER

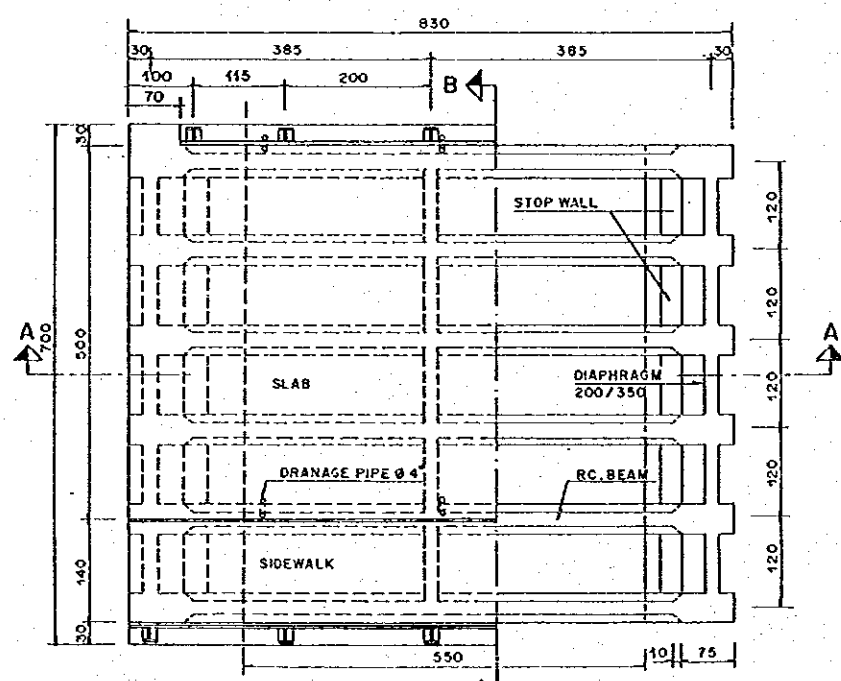
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT JATUNSELUNA FLOOD CONTROL PROJECT COMPONENT: WEST FLOODWAY / GARANG RIVER IMPROVEMENT MAINTENANCE BRIDGE NO. 2,3,4 EXPANSION JOINT AND BEARING SHOE				PROVINCE: CENTRAL JAVA PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT: SEMARANG CITY DRAWING NO. WS-P2-MB-S1-20 SHEET NO. 154	
JAPAN INTERNATIONAL COOPERATION AGENCY OTE ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PACIFIC INTERNATIONAL, INC. CHIEF OF PLANNING AND DESIGN				DESIGNED: [Signature] CHECKED: [Signature] DATE: [Date] CONTRACT NO.	
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED



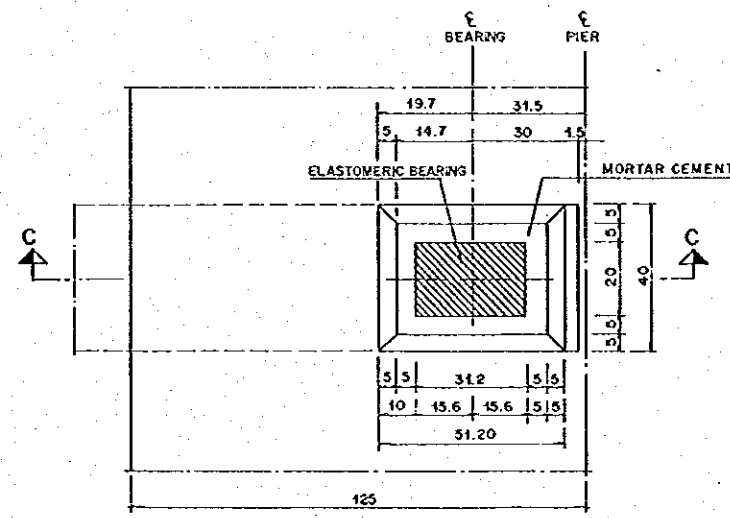
SECTION A-A
SCALE A



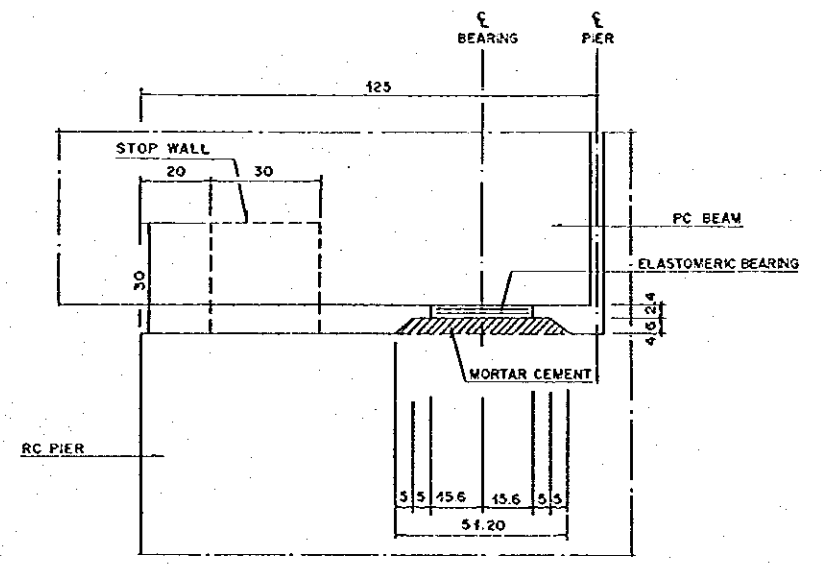
SECTION B-B
SCALE A



PLAN
SCALE A

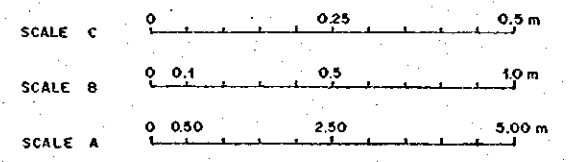


PLAN OF BEARING
SCALE B



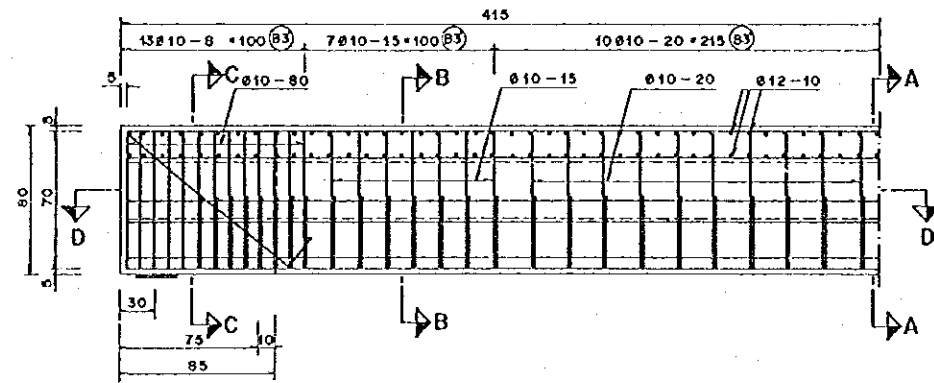
SECTION C-C
SCALE B

- NOTE:
1. UNIT IN CENTIMETER.
 2. CONCRETE QUALITY FOR BEAM AND DIAPHRAGM K-250.
 3. CONCRETE QUALITY FOR SLAB AND CURB K-250.
 4. ASPHALT PAVEMENT CONSISTS OF ASPHALT CONCRETE (AC) 1+50mm AND ASPHALT TREATMENT BASE (ATB).

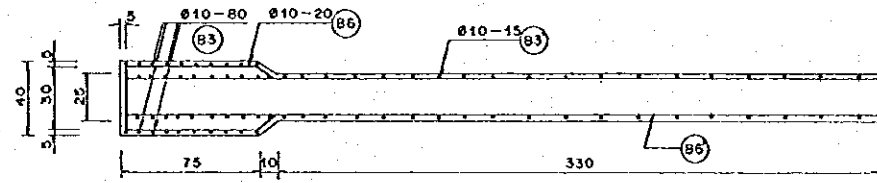


NO.	DATE	REVISIONS	ORGANIZED	DESIGNED	APPROVED

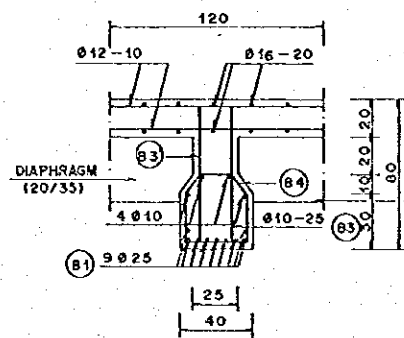
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
JATUNSELUNA FLOOD CONTROL PROJECT COMPONENT: WEST FLOODWAY / GARANO RIVER IMPROVEMENT MAINTENANCE BRIDGE NO. 1 AND NO. 5 PLAN AND PROFILE OF SUPERSTRUCTURE		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 JAPAN INTERNATIONAL INC.		DISTRICT SEMARANG CITY
DESIGNED <i>[Signature]</i>	CHECKED <i>[Signature]</i>	DRAWING NO. W-6-P2-MB-S1-21 SHEET NO. 155
CHIEF OF PLANNING AND DESIGN	PROJECT MANAGER	DATE CONTRACT NO.



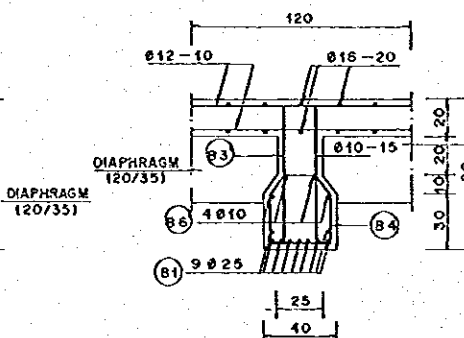
BEAM REINFORCING BAR
SCALE A



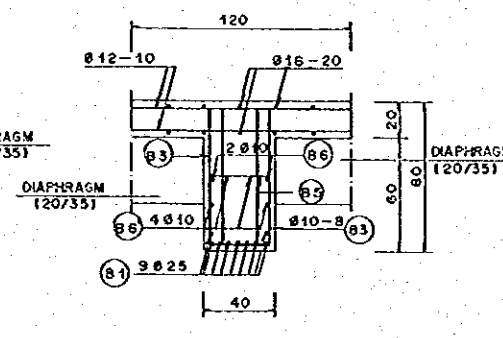
SECTION D-D
SCALE A



SECTION A-A
SCALE A



SECTION B-B
SCALE A



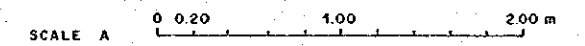
SECTION C-C
SCALE A

LIST OF REINFORCING BAR OF BEAM

REINFORCING BAR	Ø (mm)	TYPE	BENDING DIMENTION (cm)					TOTAL LENGTH (m)	NUMBER	UNIT WEIGHT (kg/m)	NUMBER OF BEAM	TOTAL WEIGHT (kg)	REMARK	
			a	b	c	d	e							
BEAM	25	B1	820					15	8.500	9	3.850	6	1767	↔
	25	B2	120	25	37.5			15	2.125	8	3.850	6	393	↗
	10	B3	34	74				6	2.280	20	0.616	6	169	□
	10	B3'	19	74				6	1.980	60	0.616	6	439	□
	10	B4	34	24	19	14		6	1.410	40	0.616	6	208	⤴
	10	B5	34					6	0.460	20	0.616	6	34	↔
	10	B6	70	12.5	40			6	1.345	2	0.616	6	10	↗
	10	B6'	820					6	8.320	4	0.616	6	123	↔
TOTAL = 3443 kg														

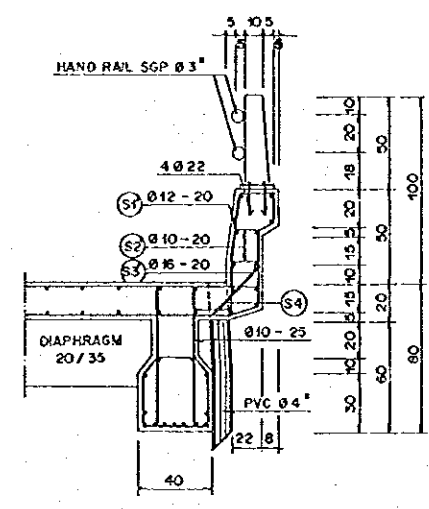
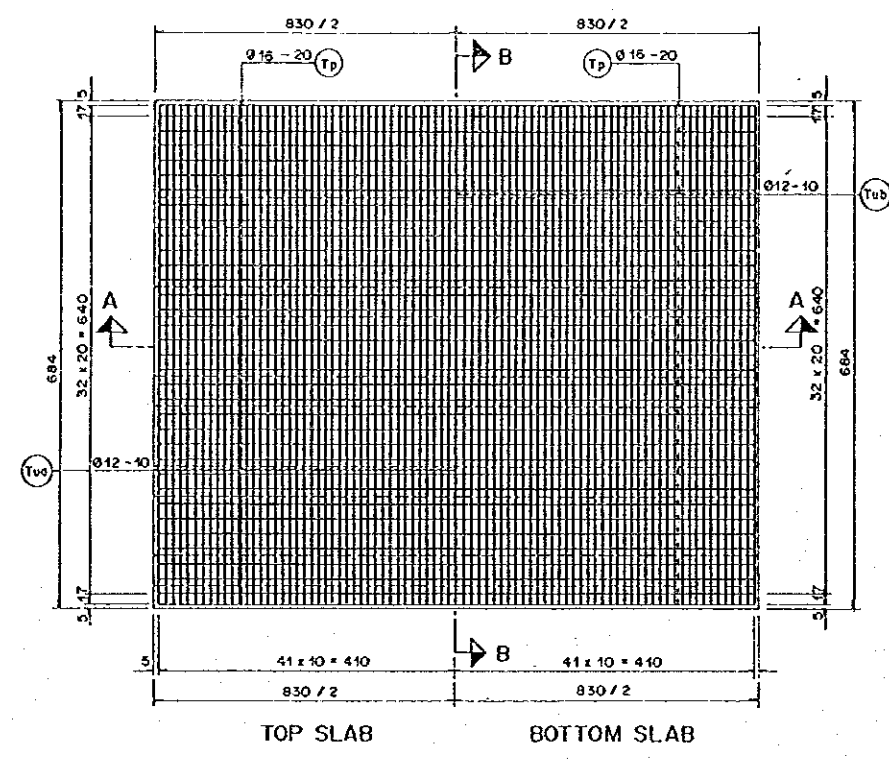
NOTE

1. UNIT IN CENTIMETER EXCEPT REINFORCING BAR AND BEARING SHOE
2. CONCRETE QUALITY SLAB K-250
3. STEEL QUALITY BJ.32
4. CONCRETE COVER MINIMUM 20mm
5. MAXIMUM AGGREGATE SIZE 20mm

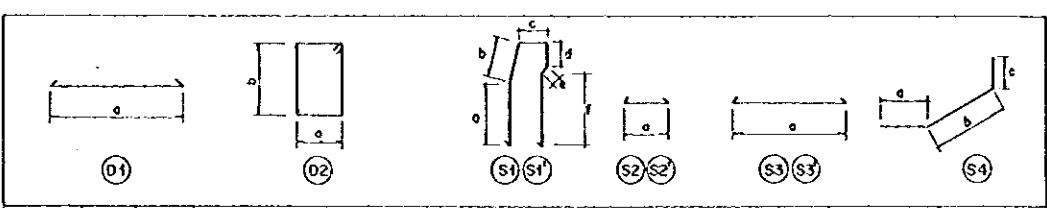


THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT BRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT MAINTENANCE BRIDGE-NO 1 & NO.5 REINFORCING BAR ARRANGEMENT FOR BEAM		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. W0-P2-M8-R1-22 SHEET NO. 156
SAFARI INTERNATIONAL COOPERATION AGENCY CTS ENGINEERING CO., LTD. IN ASSOCIATION WITH FACIFIC CONSULTANTS INTERNATIONAL LLP FACIFIC INTERNATIONAL PTE. LTD.		DESIGNED CHECKED DATE CONTRACT NO.
CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		APPROVED

NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

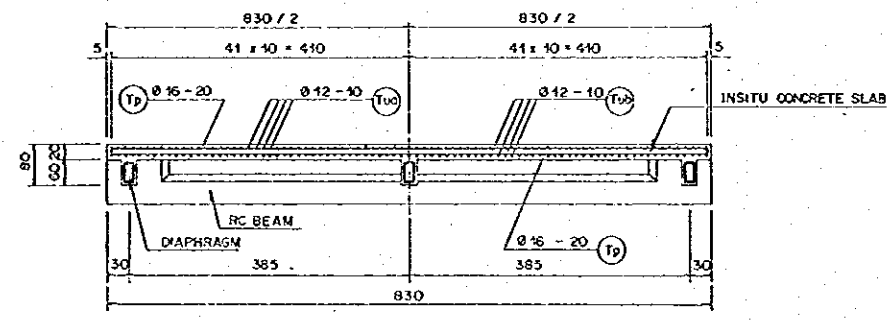


DETAIL 1
SCALE B

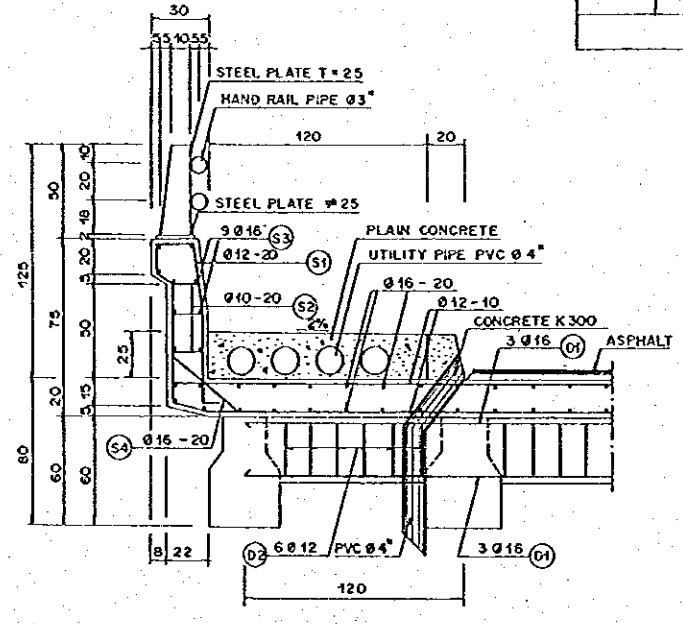


REINFORCING BAR	Ø (mm)	TYPE	BENDING DIMENSION (cm)						HOOK	TOTAL LENGTH (m)	NUMBER	UNIT (kg/m)	NUMBER OF BEAM	TOTAL WEIGHT (kg)	REMARK
			a	b	c	d	e	f							
DIAPHRAGM	16	D1	600						9.6	6.192	6	1.577	3	176	—
	12	D2	14	29					7.2	1.004	18	0.887	3	48	□
CURB	12	S1	45	35	20	15	10	55	7.2	1.944	42	0.887	1	72	∩
	12	S1'	20	35	20	15	10	30	7.2	1.444	38	0.887	1	48	∩
	10	S2	11						6	0.23	126	0.616	1	18	—
	10	S2'	11						6	0.23	16	0.616	1	3	—
	16	S3	820						9.6	8.392	9	1.577	1	119	—
	16	S3'	820						9.6	8.392	7	1.577	1	92	—
	16	S4	12	40	15				9.6	0.862	80	0.887	1	61	∩
SLAB	12	Tu	674						7.2	6.884	83	0.887	1	507	—
	12	Tub	650	24					7.2	7.052	83	0.887	1	519	∩
	16	Tp	820						9.6	8.392	70	0.887	1	521	—
													TOTAL	2184 kg	

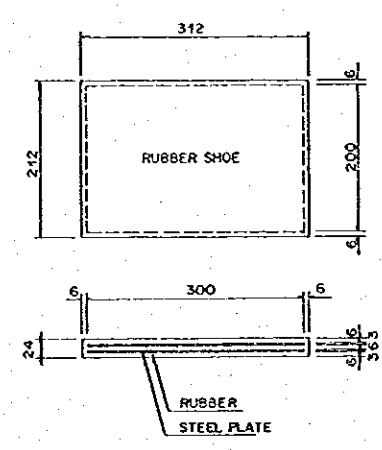
LIST OF REINFORCING BAR OF SLAB AND DIAPHRAGM



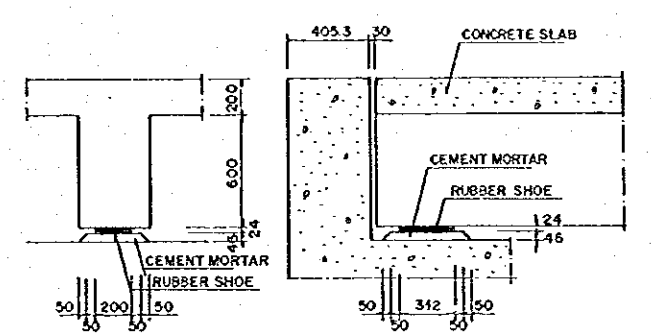
SECTION A - A
SCALE A



DETAIL 2
SCALE B

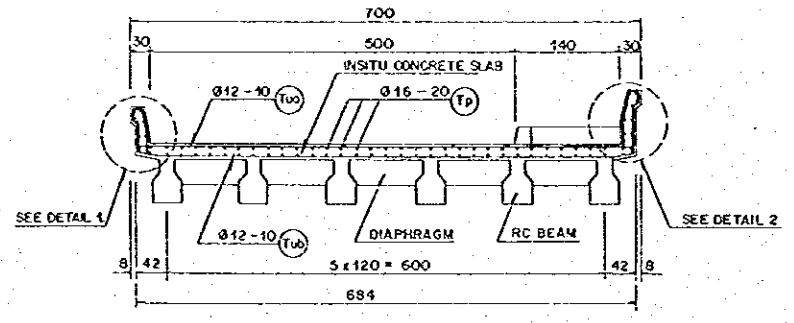


DETAIL OF SHOE (mm)
SCALE C

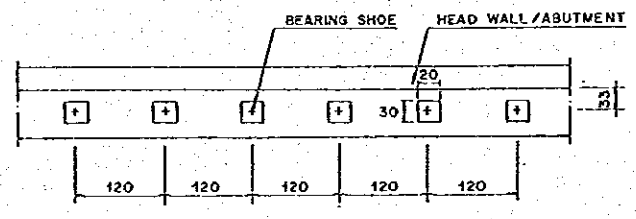


DETAIL OF JOINT
SCALE A

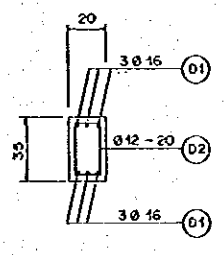
- NOTE**
- UNIT IN CENTIMETER EXCEPT REINFORCING BAR AND BEARING SHOE.
 - CONCRETE QUALITY FOR SLAB K-250.
 - STEEL QUALITY B3.32.
 - CONCRETE COVER MINIMUM 20 mm.
 - MAXIMUM AGGREGATE SIZE 20 mm.



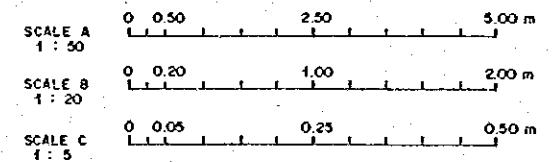
SECTION B - B
SCALE A



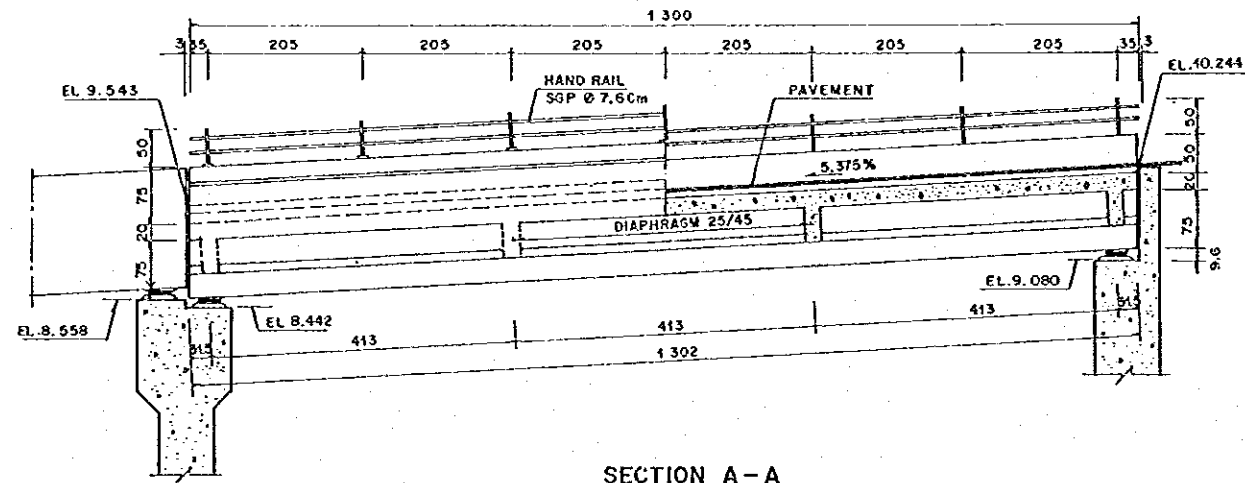
BEARING ARRANGEMENT
SCALE C



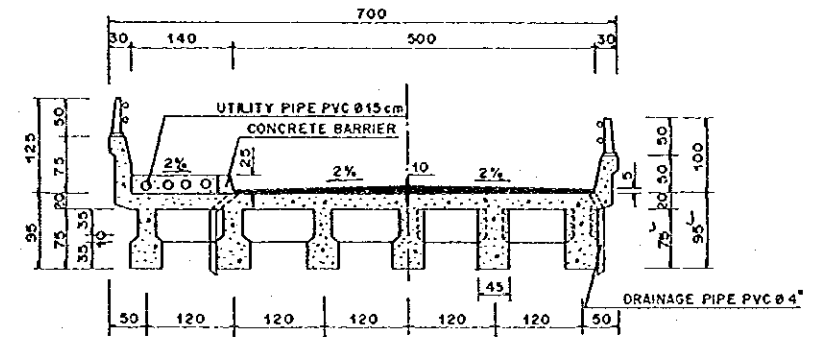
DIAPHRAGM
SCALE B



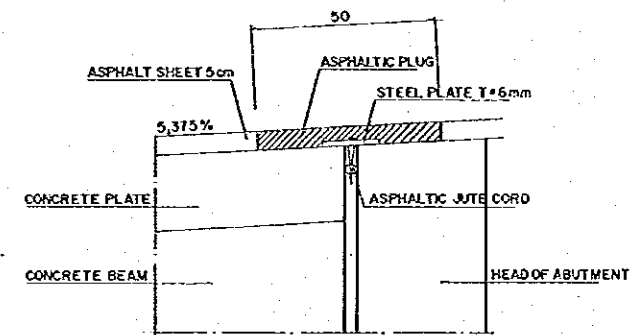
		THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT BRATUNGSILANA FLOOD CONTROL PROJECT COMPONENT: WEST FLOODWAY/GARANG RIVER IMPROVEMENT MAINTENANCE BRIDGE NO.1 AND NO.5 REINFORCING BAR ARRANGEMENT FOR SLAB AND DIAPHRAGM			PROVINCE: CENTRAL JAWA PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT: SEMARANG CITY DRAWING NO. W3-P2-M0-R-23 SHEET NO. 157	
		LIAISON INTERNATIONAL COOPERATION AGENCY CIH SEMARANG CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL INC. IN JAPAN INTERNATIONAL COOPERATION AGENCY		DESIGNED: <i>[Signature]</i> CHECKED: <i>[Signature]</i> CRISIS OF PLANNING AND DESIGN PROJECT MANAGER	DATE: _____ CONTRACT NO.: _____	
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED	



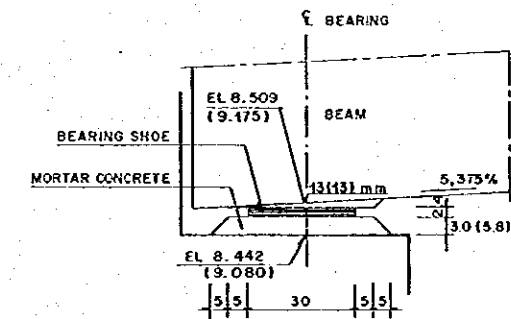
SECTION A-A
SCALE B



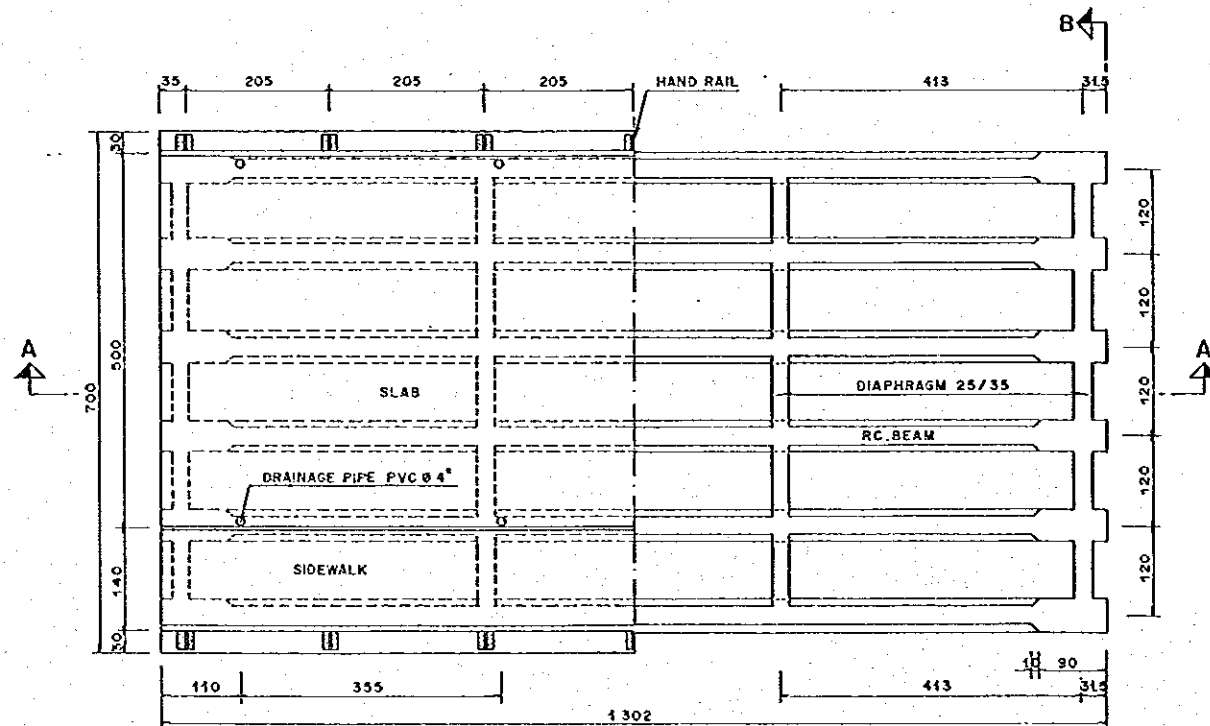
SECTION B-B
SCALE B



DETAIL OF JOINT
SCALE A



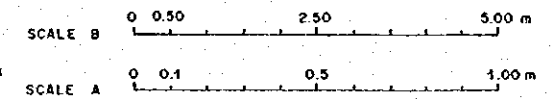
DETAIL 1
SCALE A



PLAN
SCALE B

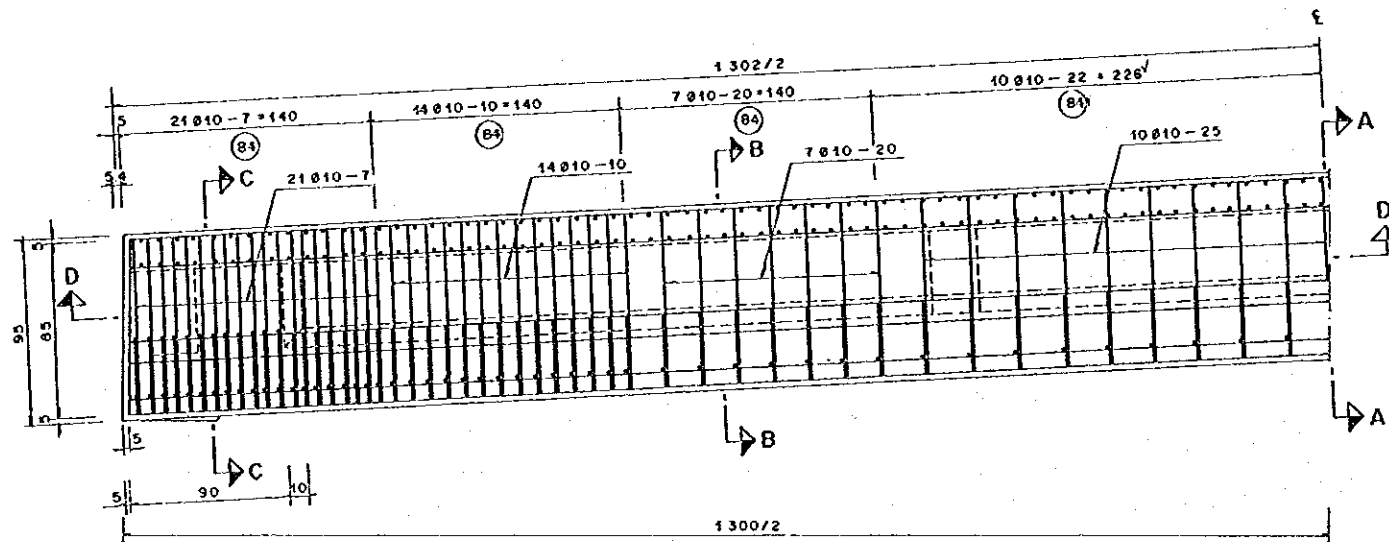
NOTE

1. UNIT IN CENTIMETER
2. CONCRETE QUALITY FOR BEAM AND DIAPHRAGM K-250
3. CONCRETE QUALITY FOR SLAB AND CURB K-250
4. ASPHALT PAVEMENT CONSISTS OF ASPHALT CONCRETE (AC) T=50mm AND ASPHALT TREATMENT BASE (ATB)

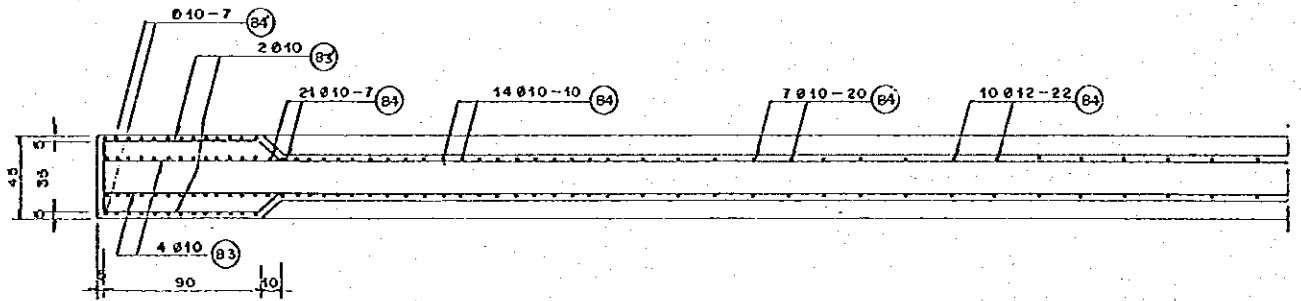


NO.	DATE	REVISIONS	ORIGINATED	DRAWN	APPROVED

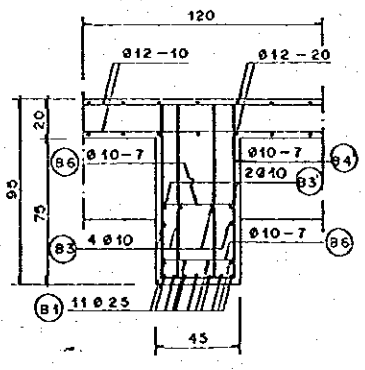
	THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT	PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
	JRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT	DISTRICT SEMARANG CITY
	APPROACH BRIDGE NO.2 STRUCTURAL DETAILS SUPERSTRUCTURE	DRAWING NO. WS-P2-M5-S1-24
	LEAN INTERNATIONAL COOPERATION AGENCY CITI ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PASO INTERNATIONAL INC.	SHEET NO. 155 DATE CONTRACT NO.
APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER	CHECKED DRAWN	DATE



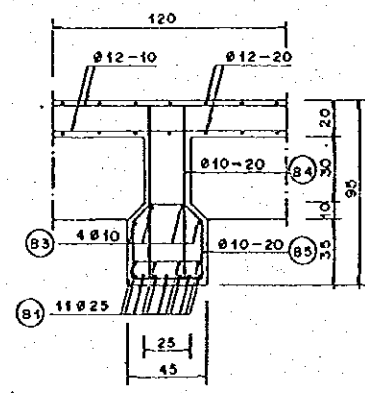
REINFORCING BAR ARRANGEMENT
SCALE A



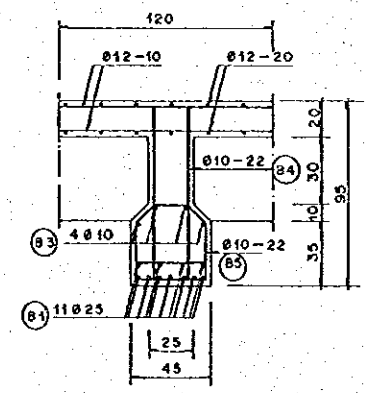
SECTION D-D
SCALE A



SECTION C-C
SCALE A



SECTION B-B
SCALE A

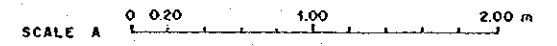


SECTION A-A
SCALE A

LIST OF REINFORCING BAR OF BEAM

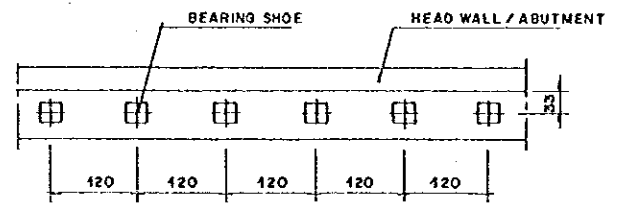
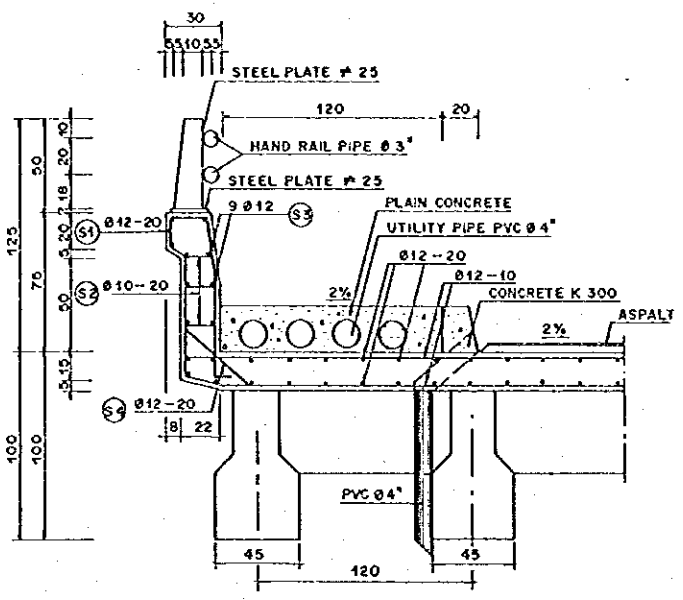
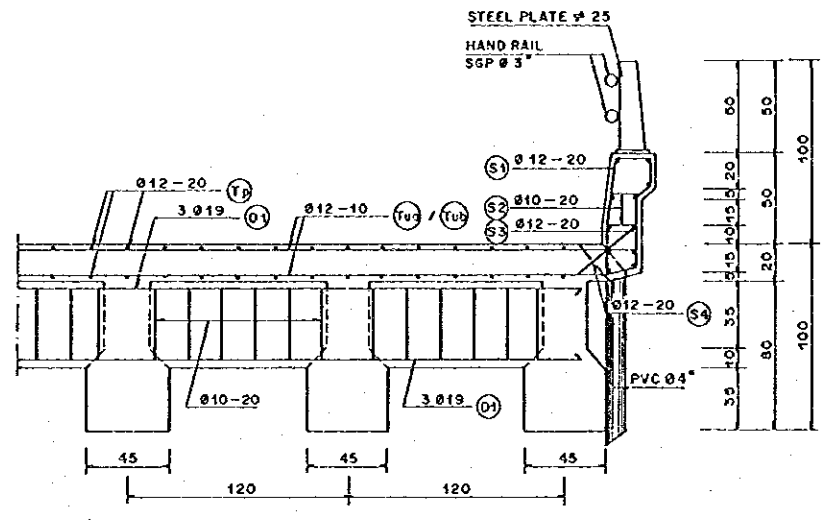
REINFORCING BAR	Ø (mm)	TYPE	BENDING DIMENTION (cm)					TOTAL LENGTH (m)	NUMBER	UNIT WEIGHT (kg/m)	NUMBER OF BEAM	TOTAL WEIGHT (kg)	REMARK	
			a	b	c	d	e							
BEAM	25	B1	1292			100		3.0	14.52	11	3.850	6	3689	↔
	25	B2	125	25	37.5			15	2.040	4	3.850	6	188	↗
	10	B3	1292			40		12	13.56	4	0.616	6	201	↔
	10	B3'	90	125	40			6	1.545	4	0.616	6	23	↔
	10	B4	19	89				6	2.28	103	0.616	6	868	⊠
	10	B4'	39	89				6	2.58	26	0.616	6	258	⊠
	10	B5	39	29	19	14		6	1.56	103	0.616	6	534	⬠
	10	B6	39					6	0.51	52	0.616	6	97	↔
TOTAL = 5918 kg														

- NOTE :
1. UNIT IN CENTIMETER EXCEPT REINFORCING BAR
 2. CONCRETE QUALITY FOR SLAB K-250
 3. STEEL QUALITY BJ.32
 4. CONCRETE COVER MINIMUM 20 mm
 5. MAXIMUM AGGREGATE SIZE 20 mm

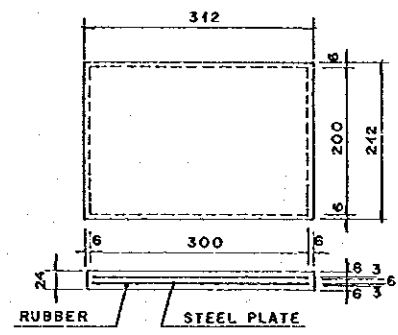


NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
BRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANO RIVER IMPROVEMENT		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
APPROACH DRAWING NO.2 REINFORCING BAR ARRANGEMENT FOR BEAM		DISTRICT SEMARANG CITY
PT. SUDIRTA INTERNATIONAL CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PAKO REKREASIONAL DES.		DRAWING NO. WS-P2-MB-04-25 SERIAL NO. 159
CHECKED DESIGNED APPROVED		DATE CONTRACT NO.

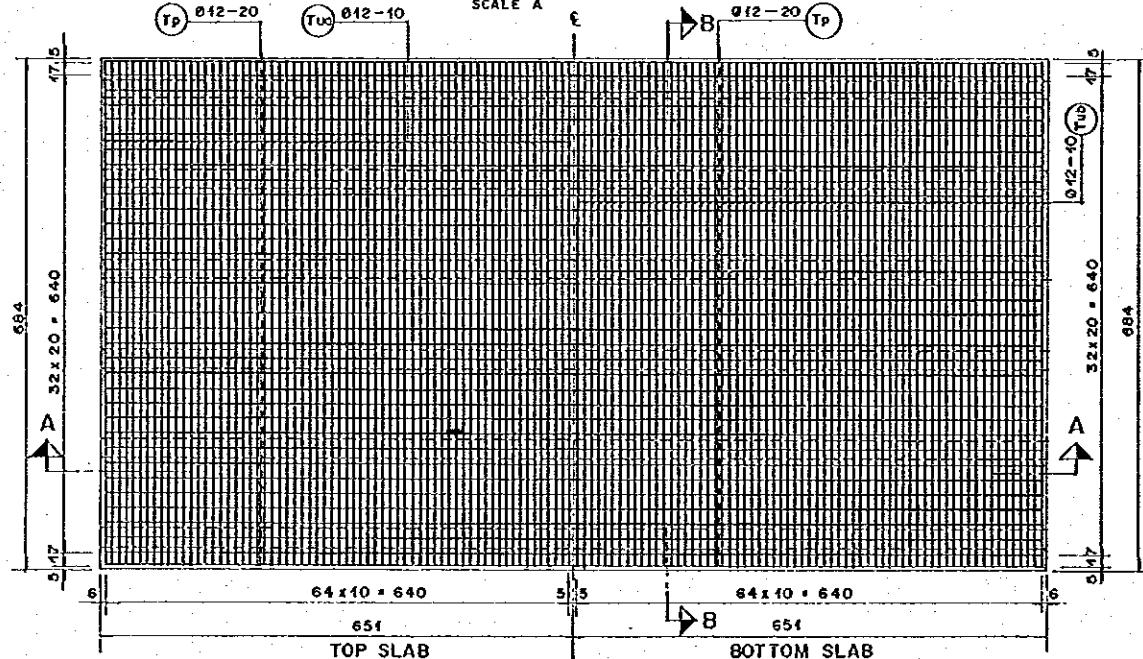


BEARING ARRANGEMENT
SCALE A

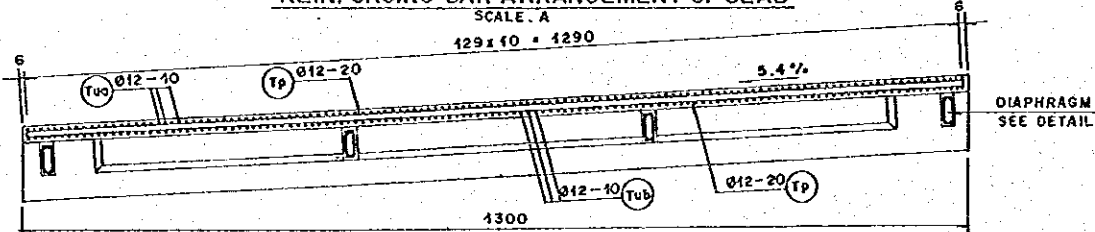


BEARING SHOE
SCALE A

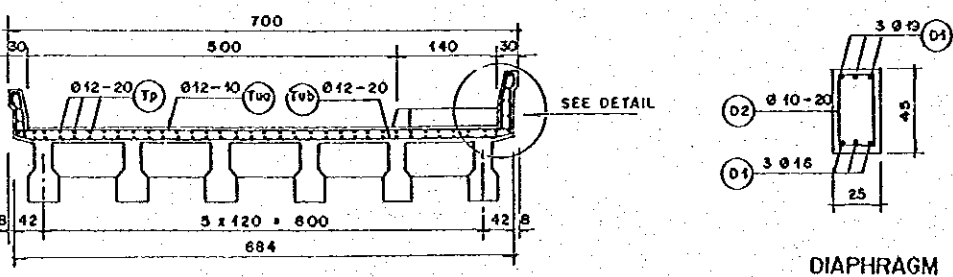
REINFORCING BAR
SCALE A



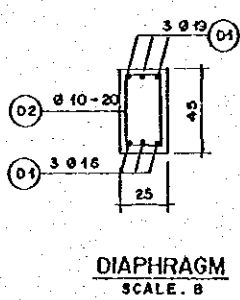
REINFORCING BAR ARRANGEMENT OF SLAB
SCALE A



SECTION A-A
SCALE A



SECTION B-B
SCALE A

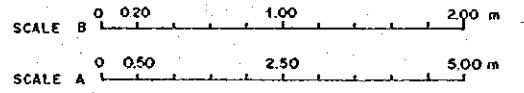


DIAPHRAGM
SCALE B

LIST OF REINFORCING BAR OF SLAB AND DIAPHRAGM

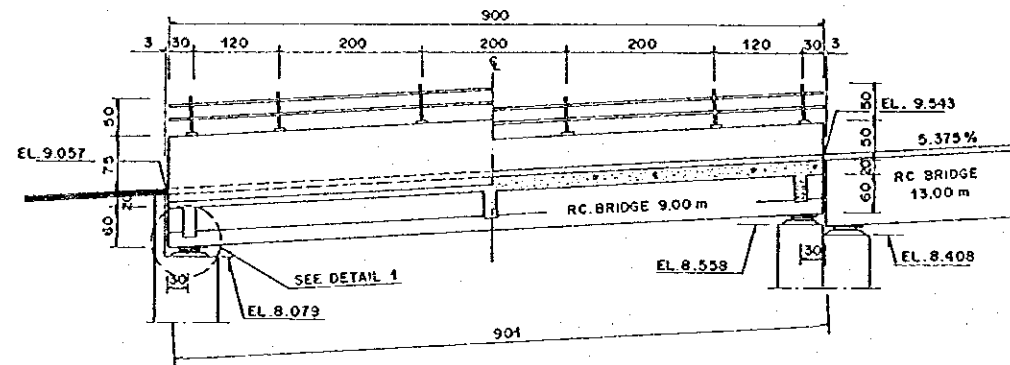
REINFORCING BAR	Ø (mm)	TYPE	BENDING DIMENTION (cm)						HOOK	TOTAL LENGTH (m)	NUMBER	UNIT WEIGHT (kg/m)	NUMBER OF BEAM	TOTAL WEIGHT (kg)	REMARK
			a	b	c	d	e	f							
DIAPHRAGM	19	D1	600						11.4	6,228	6	2.224	4	332	
	10	D2	19	39					6	1,260	30	0.616	4	94	
SLAB	12	Tu	674						7.2	6,884	130	0.887	1	793	
	12	Tab	650	24					7.2	6,884	130	0.887	1	793	
	12	Tp	1290			48			14.4	13,668	35	0.887	1	424	
CURB	12	S1	45	35	20	15	10	55	7.2	1,964	66	0.887	1	115	
	10	S2	16						6	0,28	198	0.616	1	34	
	12	S3	1290						7.2	13,044	9	0.887	1	105	
	12	S4	12	40	15				7.2	0,814	66	0.887	1	47	
	12	S1'	30	35	20	15	10	35	7.2	1,494	66	0.887	1	87	
	10	S2'	16						6	0,28	132	0.616	1	23	
	12	S3'	1240						7.2	13,044	7	0.887	1	81	
	12	S4'	12	40	15				7.2	0,814	66	0.887	1	47	
TOTAL													2975	kg	

- NOTE :
- UNIT IN CENTIMETER EXCEPT REINFORCING BAR AND BEARING SHOE
 - CONCRETE QUALITY FOR SLAB K-250
 - STEEL QUALITY BJ.32
 - CONCRETE COVER MINIMUM 20 mm
 - MAXIMUM AGGREGATE SIZE 20 mm
 - ASPHALT PAVEMENT CONSISTS OF ASPHALT CONCRETE (AC) I = 50 mm AND ASPHALT TREATMENT BASE (ATB)

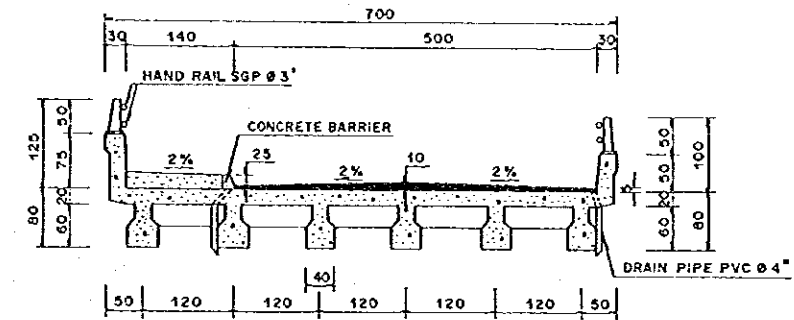


THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT JATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT APPROACH BRIDGE NO.2 REINFORCING BAR ARRANGEMENT FOR SLAB AND DIAPHRAGM		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. W2-P2-M2-Rs-26 SHEET NO. 160
DESIGNED CHECKED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER	DATE	CONTRACT NO.

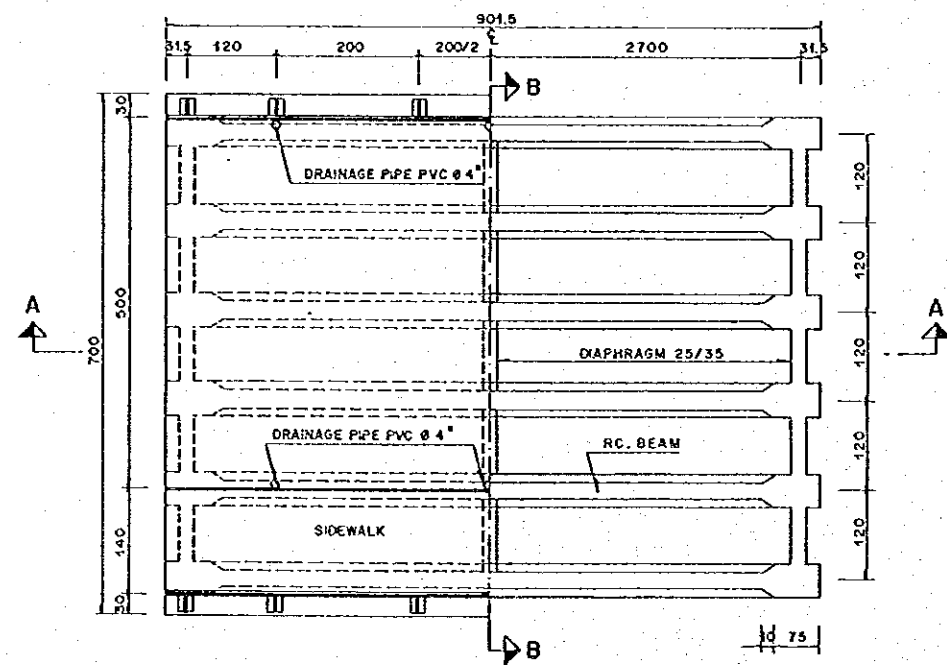
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED



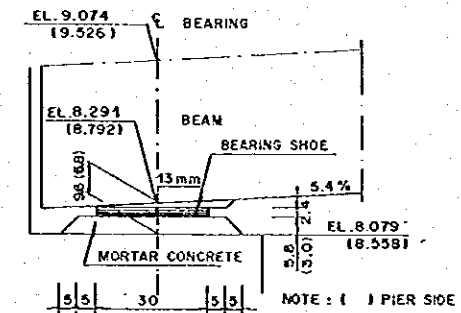
SECTION A-A
SCALE B



SECTION B-B
SCALE B



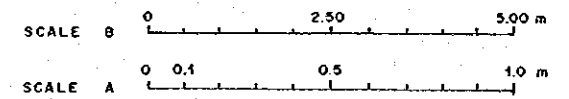
DENAH
SCALE B



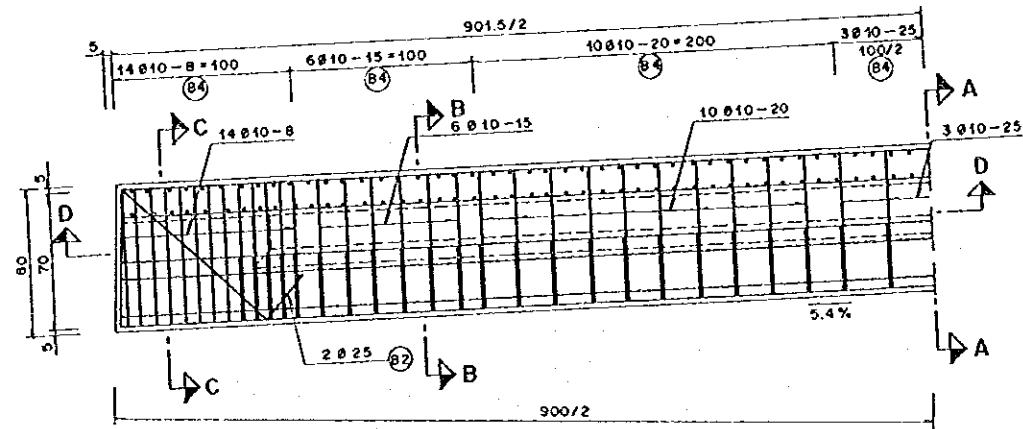
DETAIL 1
SCALE A

NOTE :

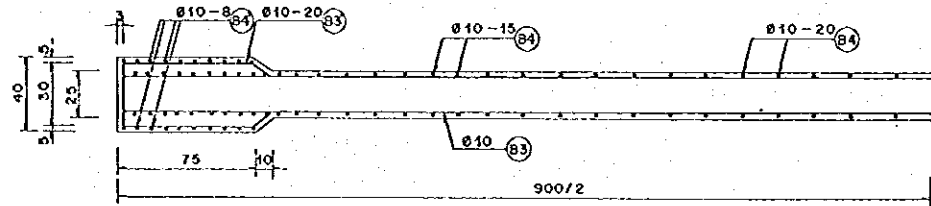
- 1 . UNIT IN CENTIMETER
- 2 . CONCRETE QUALITY FOR BEAM AND DIAPHRAGM K-250
- 3 . CONCRETE QUALITY FOR SLAB AND CURB K-250
- 4 . ASPHALT PAVEMENT CONSISTS OF ASPHALT CONCRETE (AC) t = 50 mm AND ASPHALT TREATMENT BASE (ATB)



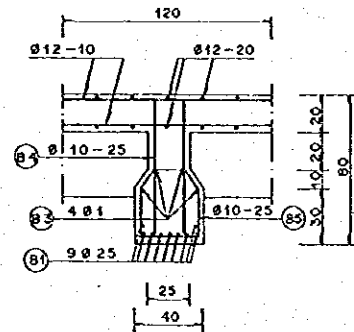
					THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT JATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT APPROACH BRIDGE NO.1 STRUCTURAL DETAILS SUPERSTRUCTURE		PROJECT CENTRAL JAVA PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT OF SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY DRAWING NO. W2-P2-MB-S1-27 SHEET NO. 161	
					WJAN INTERNATIONAL COOPERATION AGENCY CH ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND JAWA INTERNATIONAL INC.		DESIGNED CHECKED DATE	
					CRISIS OF PLANNING AND DESIGN PROJECT MANAGER		CONTRACT NO.	
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED	APPROVED		



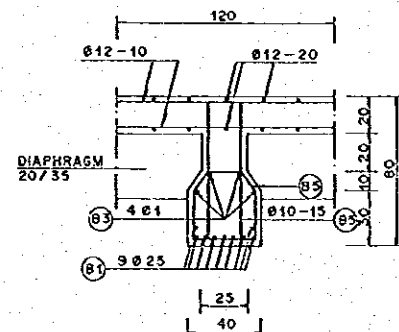
BEAM REINFORCING BAR
SCALE A



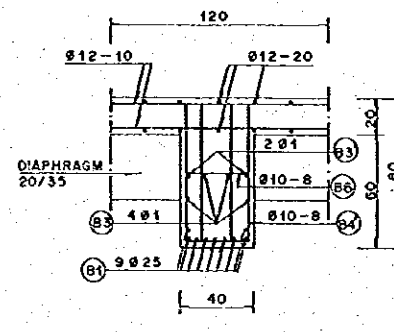
SECTION D-D
SCALE A



SECTION A-A
SCALE B



SECTION B-B
SCALE B

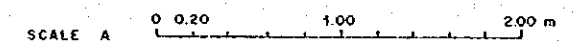


SECTION C-C
SCALE B

LIST OF REINFORCING BAR

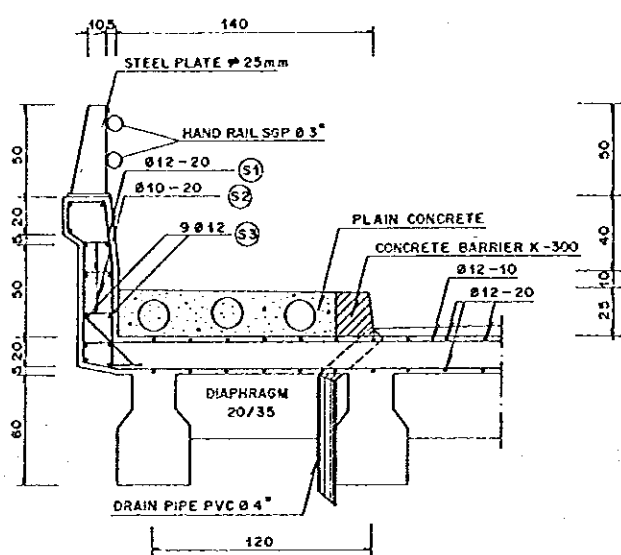
REINFORCING BAR	Ø (mm)	TYPE	BENDING DIMENTION (cm)					HOOK	TOTAL LENGTH (m)	NUMBER	UNIT WEIGHT (kg/m)	NUMBER OF BEAM	TOTAL WEIGHT (kg)	REMARK
			a	b	c	d	e							
BEAM	25	B1	890					15	9.20	9	3.850	6	1891	↔
	25	B2	120	25	37.5			15	2.125	4	3.850	6	196	↗
	10	B3	890					6	9.02	4	0.888	6	192	↔
	10	B3'	75	12.5	40			6	1.395	4	0.888	6	30	↗
	10	B4	19	74				6	1.98	65	0.888	6	686	⊠
	10	B4'	34	74				6	2.28	20	0.888	6	243	⊠
	10	B5	34	24	19	14		6	1.28	47	0.888	6	321	⬇
	10	B6	34					6	0.46	20	0.888	6	49	↔
TOTAL = 3608 kg														

- NOTE :**
1. UNIT IN CENTIMETER EXCEPT REINFORCING BAR AND BEARING SHOE
 2. CONCRETE QUALITY SLAB K-250
 3. STEEL QUALITY BJ.32
 4. CONCRETE COVER MINIMUM 20 mm
 5. MAXIMUM AGGREGATE SIZE 20 mm

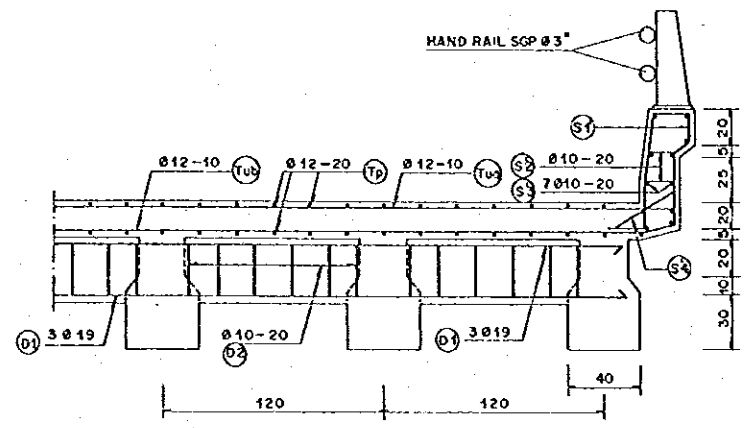


THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT			PROVIDER CENTRAL JAVA
JATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT APPROACH BRIDGE NO.1 REINFORCING BAR ARRANGEMENT FOR BEAM			PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
			DISTRICT SEMARANG CITY
			DRAWING NO. W 8 - P 2 - M 8 - R 2 - 28 SHEET NO. 142
JAPAN INTERNATIONAL COOPERATION AGENCY CTS ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PANGS INTERNATIONAL INC.			CONTRACT NO.
DESIGNED <i>[Signature]</i>	CHECKED <i>[Signature]</i>	DATE	PROJECT MANAGER

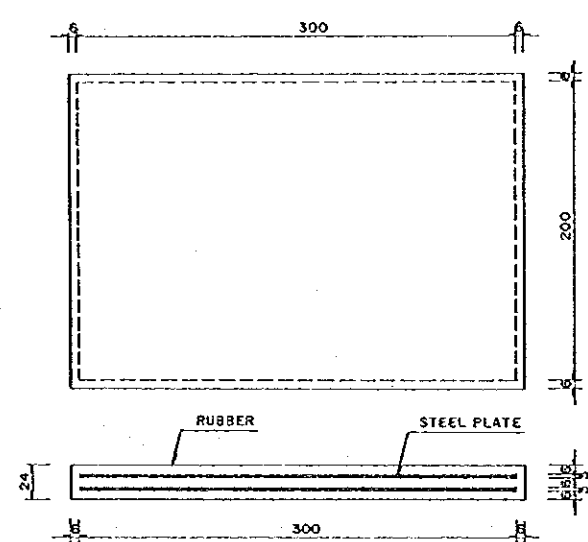
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED



DETAIL A
SCALE C



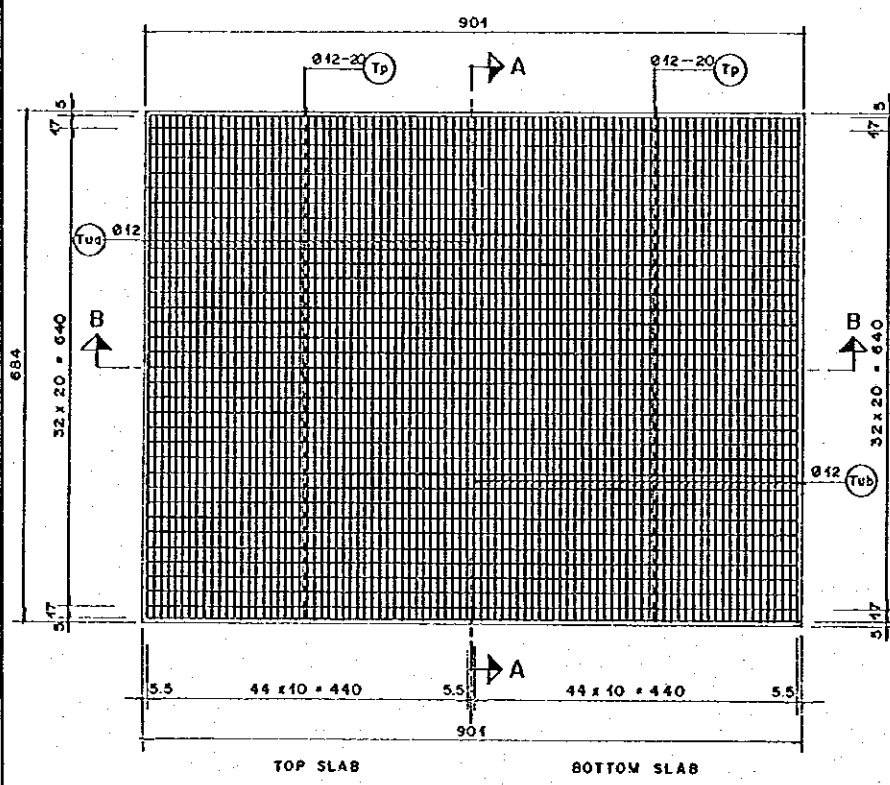
DIAPHRAGM REINFORCING BAR
SCALE C



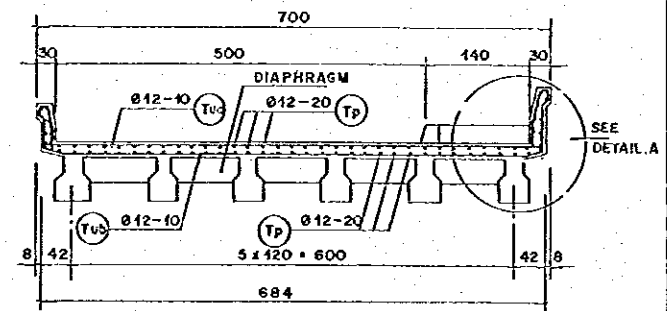
BEARING SHOE
SCALE B

LIST OF REINFORCING BAR OF SLAB AND DIAPHRAGM

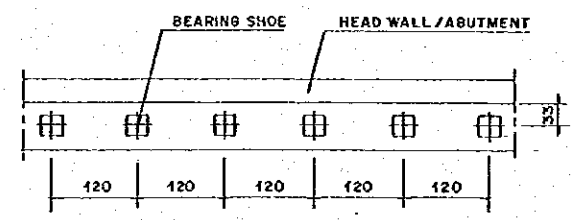
REINFORCING BAR (mm)	Ø	TYPE	BENDING DIMENTION (cm)						HOOK	TOTAL LENGTH (m)	NUMBER	UNIT WEIGHT (kg/m)	NUMBER OF BEAM	TOTAL WEIGHT (kg)	REMARK
			a	b	c	d	e	f							
DIAPHRAGM	16	D1	600						9.6	6.192	6	2.230	3	249	—
	10	D2	14	29					6	1.04	30	0.617	3	58	□
SLAB	12	Tu0	674						7.2	6.884	90	0.888	1	345	—
	12	Tu0	650	24					7.2	7.124	90	0.888	1	570	—
	12	Tp	890						7.2	9.044	70	0.888	1	562	—
CURB	12	S1	45	35	20	15	10	55	7.2	1.944	46	0.888	1	80	—
	10	S2	16						6	0.34	138	0.617	1	29	—
	10	S3	890						6	9.020	9	0.617	1	50	—
	12	S4	50						7.2	0.644	46	0.888	1	26	—
	12	S1'	20	35	20	15	10	30	7.2	1.444	46	0.888	1	59	—
	10	S2'	16						6	0.34	138	0.617	1	29	—
	12	S3'	890						7.2	9.044	7	0.617	1	39	—
	12	S4'	50						7.2	0.644	46	0.888	1	26	—
TOTAL = 2322 kg															



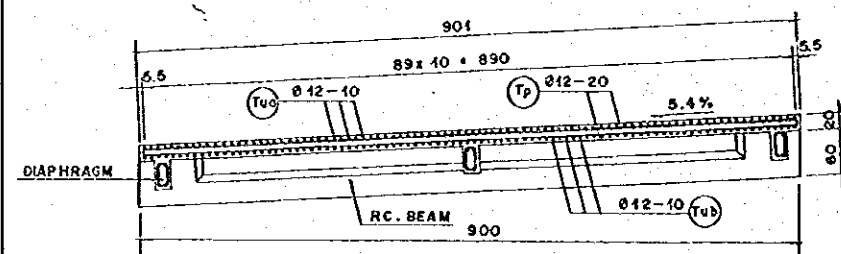
REINFORCING BAR OF SLAB
SCALE A



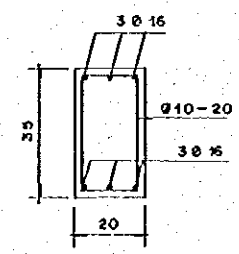
SECTION A-A
SCALE A



BEARING ARRANGEMENT
SCALE A



SECTION B-B
SCALE A



DIAPHRAGM
SCALE 1:10

NOTE :

- UNIT IN CENTIMETER EXCEPT REINFORCING BAR AND BEARING SHOE
- CONCRETE QUALITY FOR SLAB K-250
- STEEL QUALITY BJ.32
- CONCRETE COVER MINIMUM 20 mm
- MAXIMUM AGGREGATE SIZE 20 mm

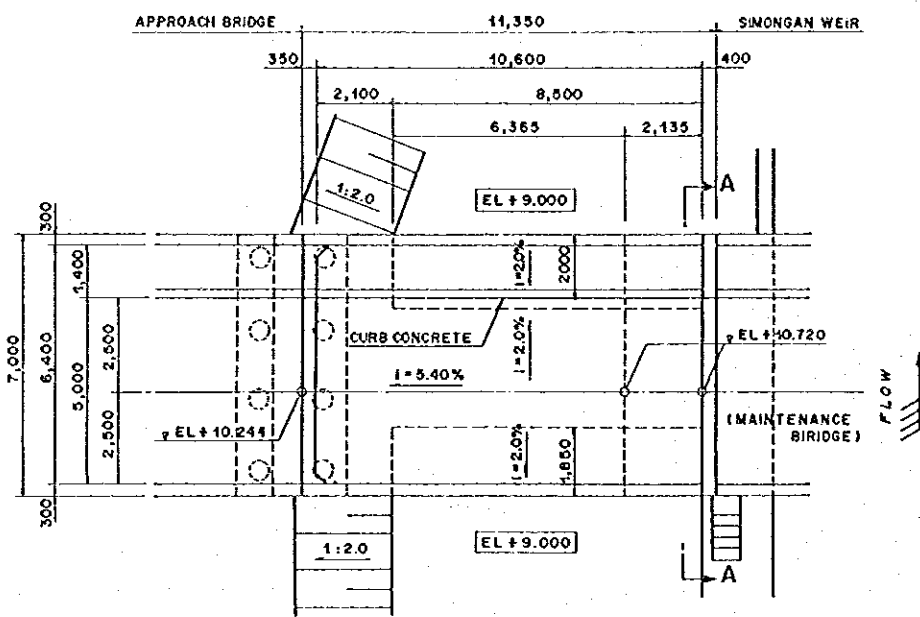
SCALE C 0 0.20 1.00 2.00 m

SCALE B 0 0.25 1.25 2.50 m

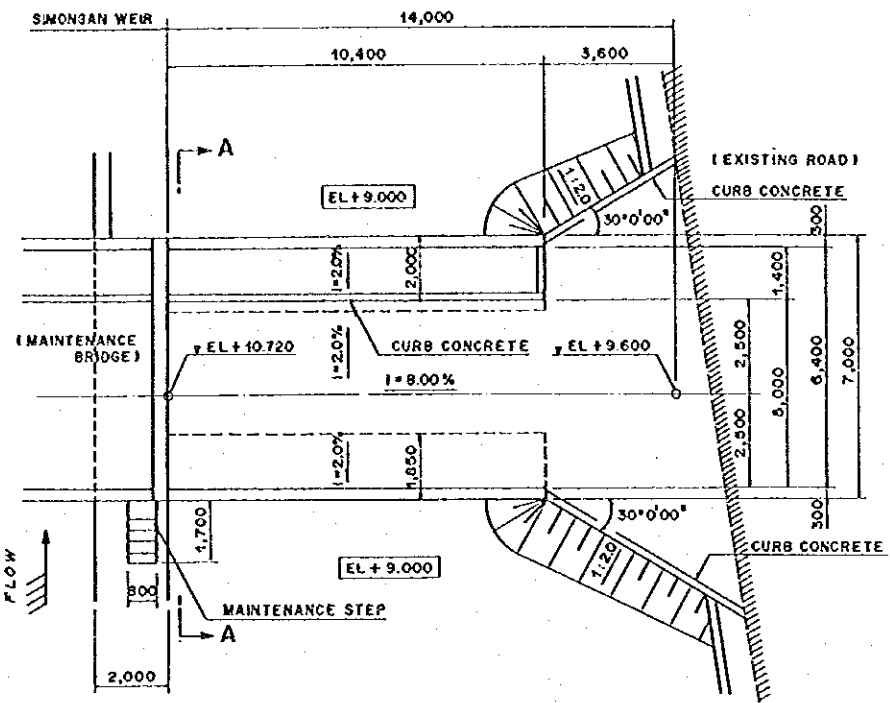
SCALE A 0 0.5 2.50 5.0 m

<p>THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT</p> <p>BRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT APPROACH BRIDGE NO.1 REINFORCING BAR ARRANGEMENT FOR SLAB AND DIAPHRAGM</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY CIH ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PACIFIC INTERNATIONAL</p>	<p>DESIGNED: [Signature] CHECKED: [Signature] DATE: [Date]</p>	<p>PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA</p>	
		<p>DESIGNED BY [Signature]</p>	<p>DATE</p>
		<p>PROJECT MANAGER</p>	<p>CONTRACT NO.</p>

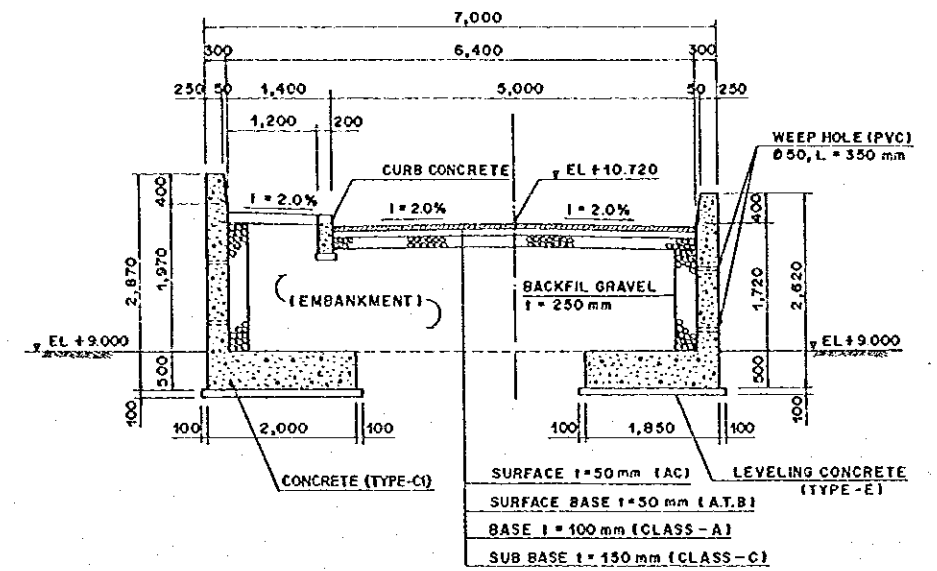
NO.	DATE	REVISIONS	ORIGINATOR	DESIGNED	APPROVED



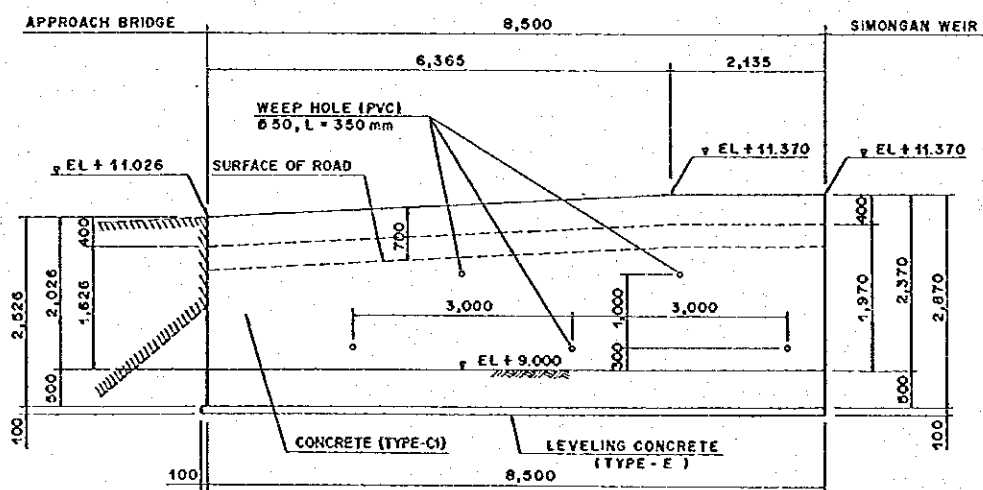
PLAN (LEFT SIDE)
SCALE A



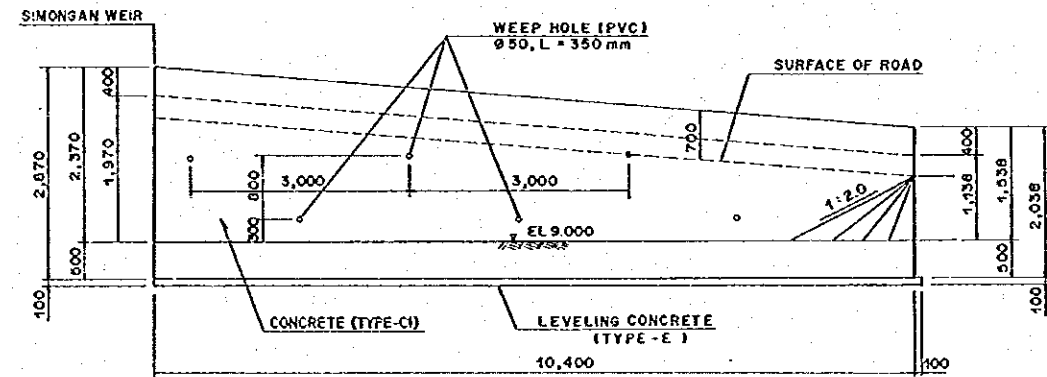
PLAN (RIGHT SIDE)
SCALE A



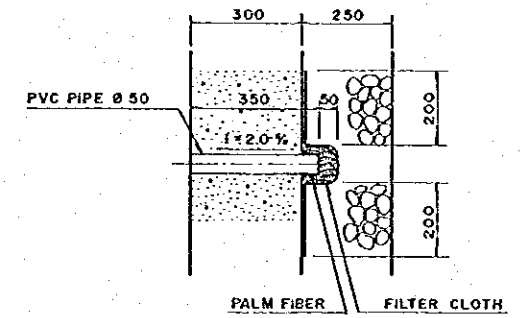
SECTION A-A
SCALE B



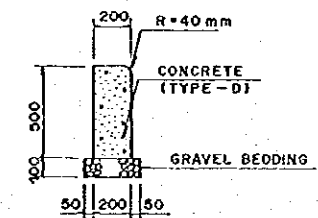
PROFILE (DOWNSTREAM: LEFT SIDE)
SCALE B



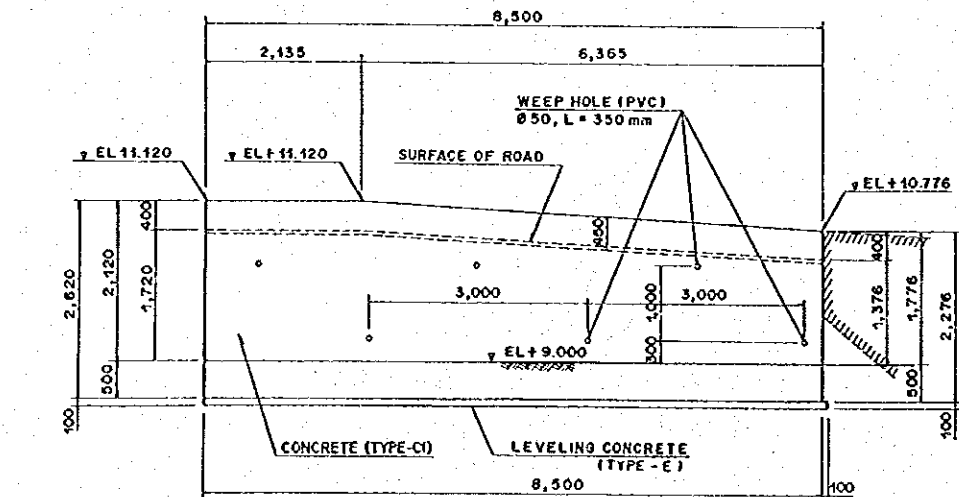
PROFILE (DOWNSTREAM: RIGHT SIDE)
SCALE B



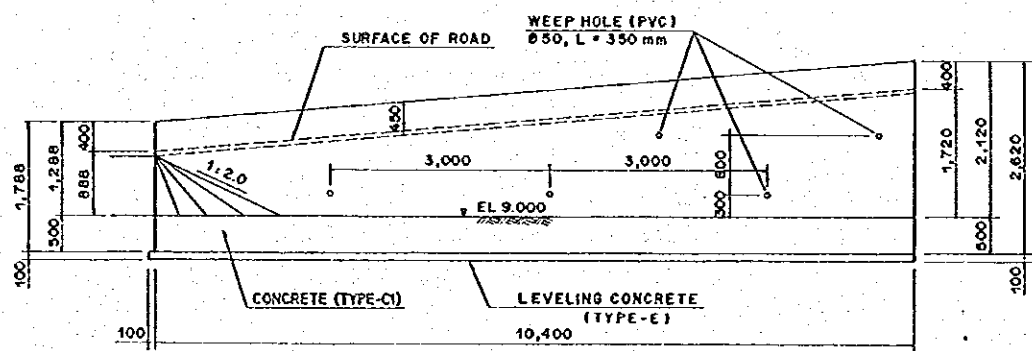
DETAIL OF WEEP HOLE
SCALE D



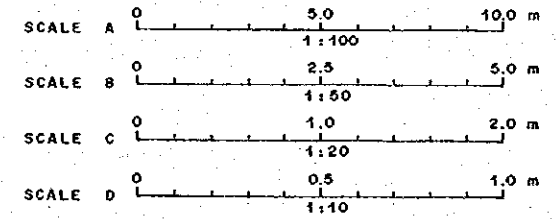
CURB CONCRETE
SCALE C



PROFILE (UPSTREAM: LEFT SIDE)
SCALE B



PROFILE (UPSTREAM: RIGHT SIDE)
SCALE B



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

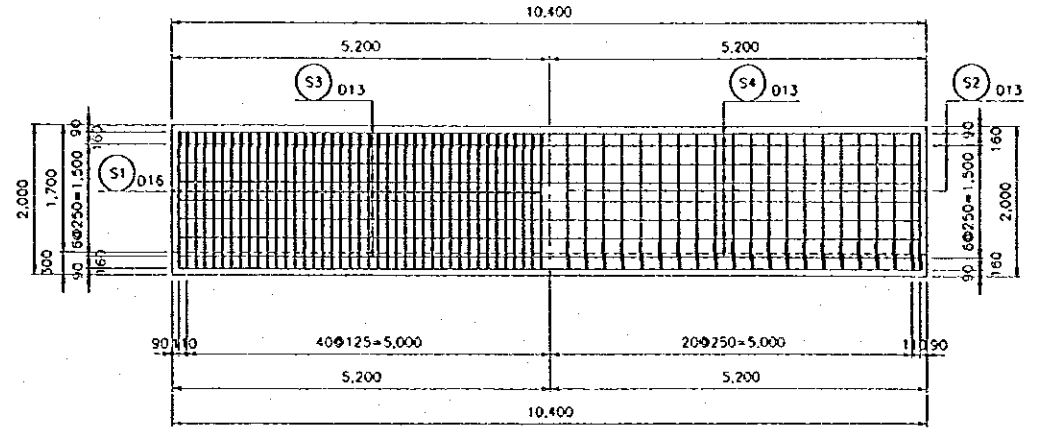
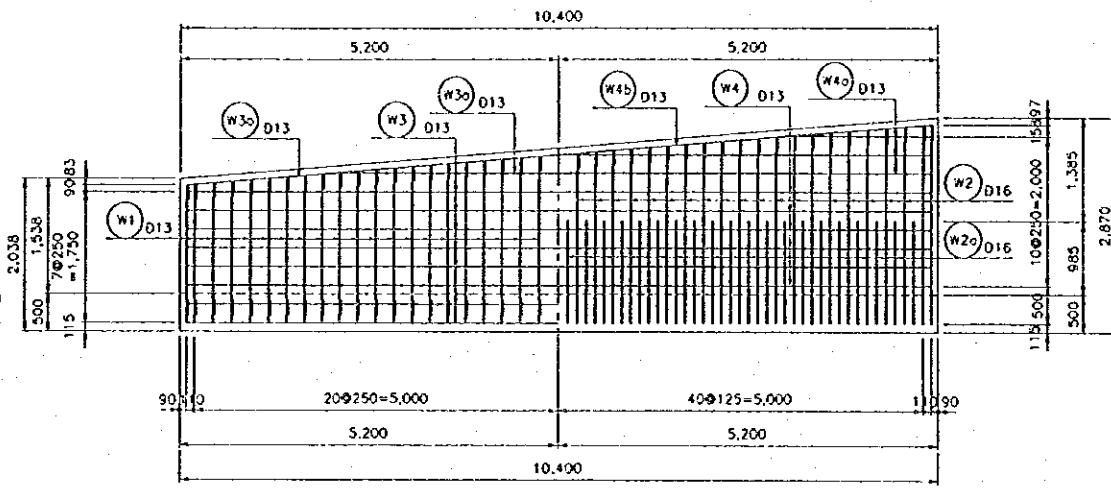
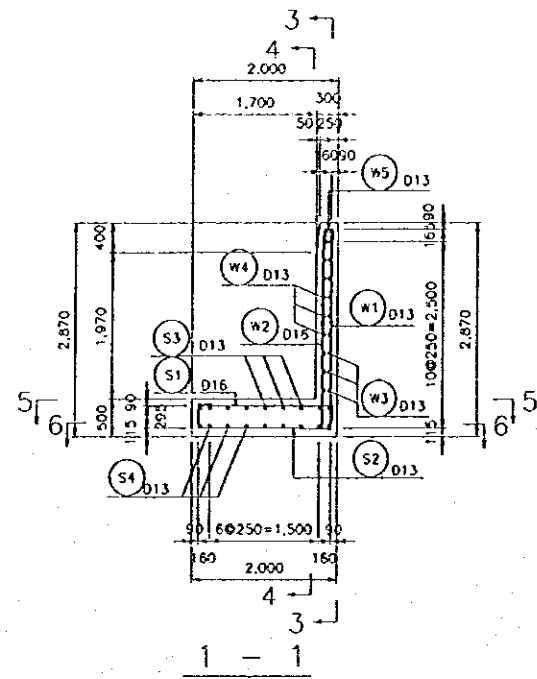
JRATUNSELUNA FLOOD CONTROL PROJECT
COMPONENT: WEST FLOODWAY / GAPANG RIVER IMPROVEMENT
MAINTENANCE BRIDGE
APPROACH ROAD
DETAILS OF ROAD AND WALL

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

DESIGNED: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

PROVIDENCE: CENTRAL JAVA
PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT OF SEMARANG IN THE REPUBLIC OF INDONESIA
DISTRICT: SEMARANG CITY
DRAWING NO. MB-P2-MB-51-30
SHEET NO. 164
DATE: []
CONTRACT NO. []

CHIEF OF PLANNING AND DESIGN
PROJECT MANAGER

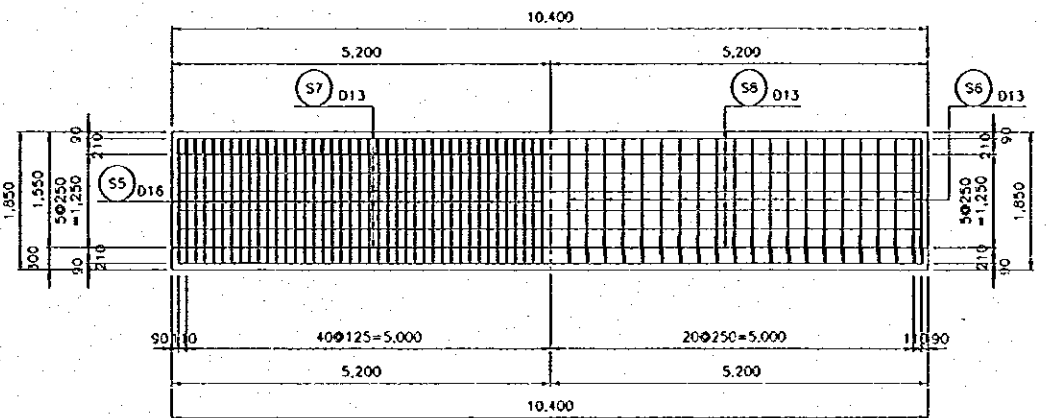
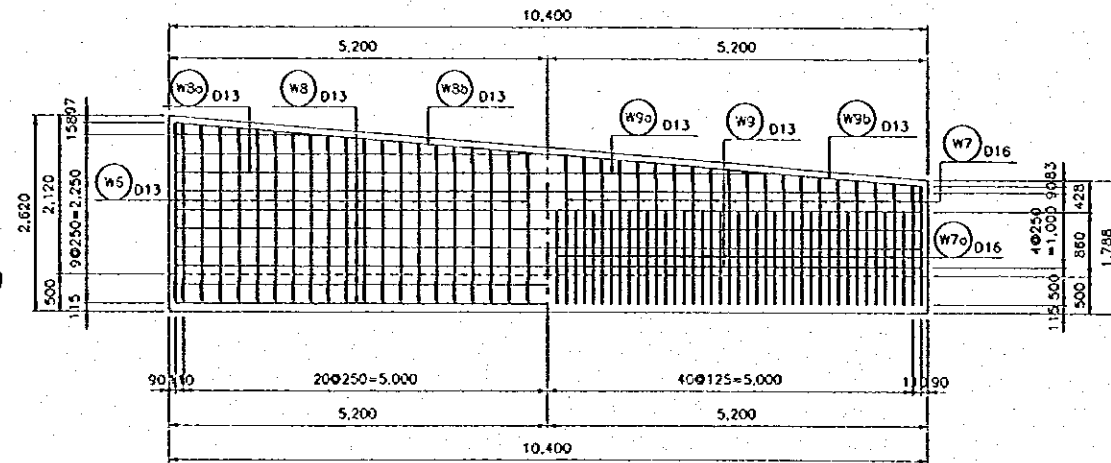
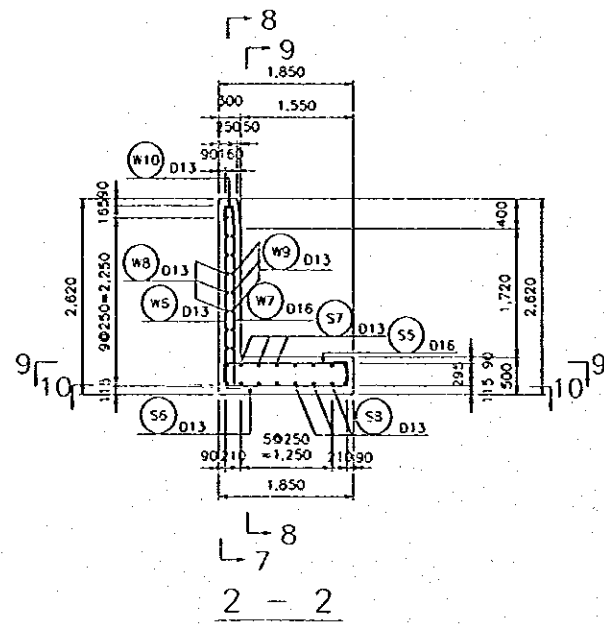


3 - 3

4 - 4

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6 - 6

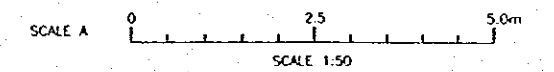


7 - 7

8 - 8

9 - 9

10 - 10



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

JATENGSELUNA FLOOD CONTROL PROJECT
 COMPONENT: WEST FLOODWAY / GARANO RIVER IMPROVEMENT
 MAINTENANCE BRIDGE
 APPROACH ROAD
 REINFORCING BAR ARRANGEMENT FOR WALL (RIGHT BANK)

DESIGNED: *[Signature]*
 CHECKED: *[Signature]*
 APPROVED: *[Signature]*
 CHIEF OF PLANNING AND DESIGN
 PROJECT MANAGER

PROVINCE: CENTRAL JAVA

PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

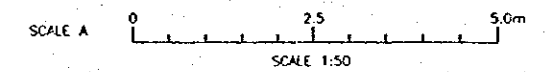
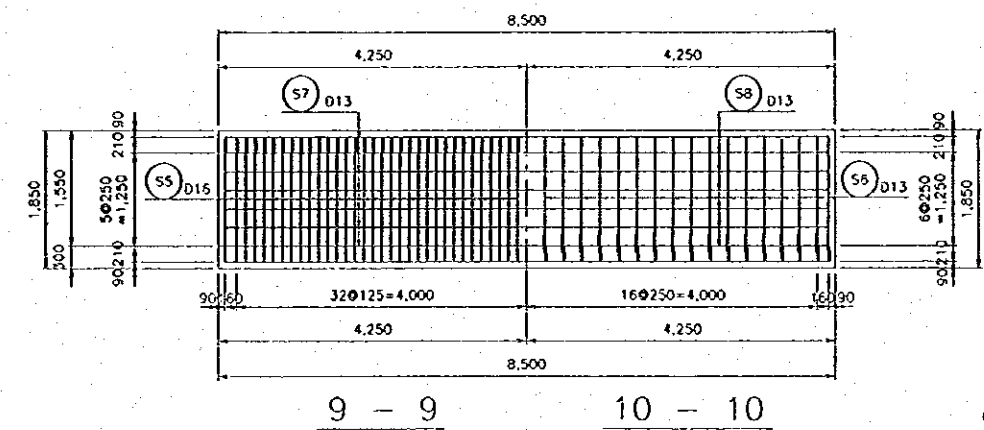
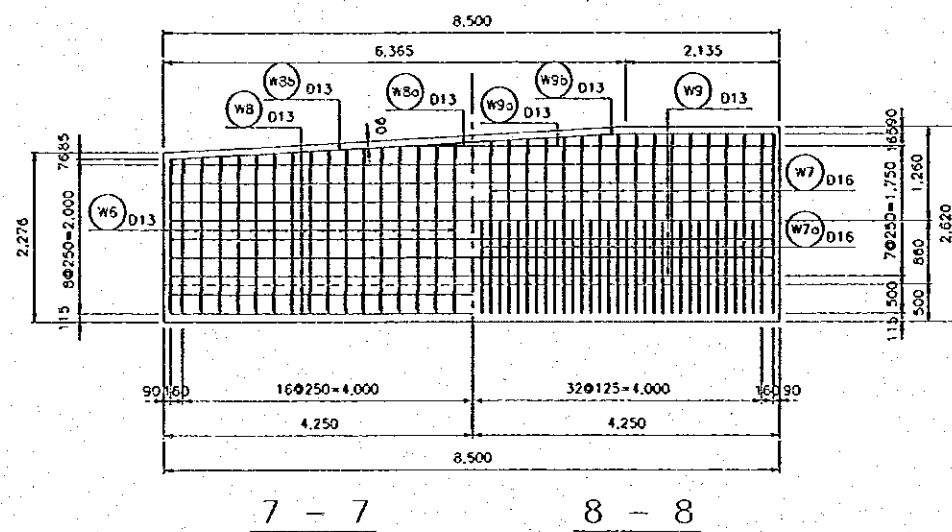
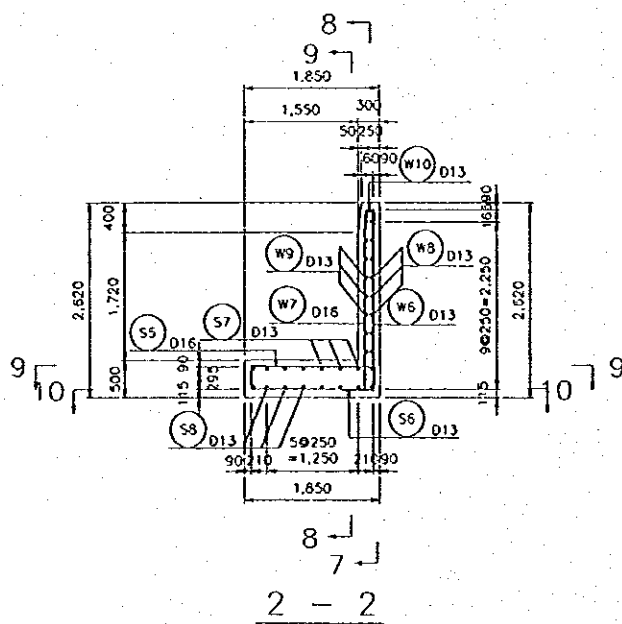
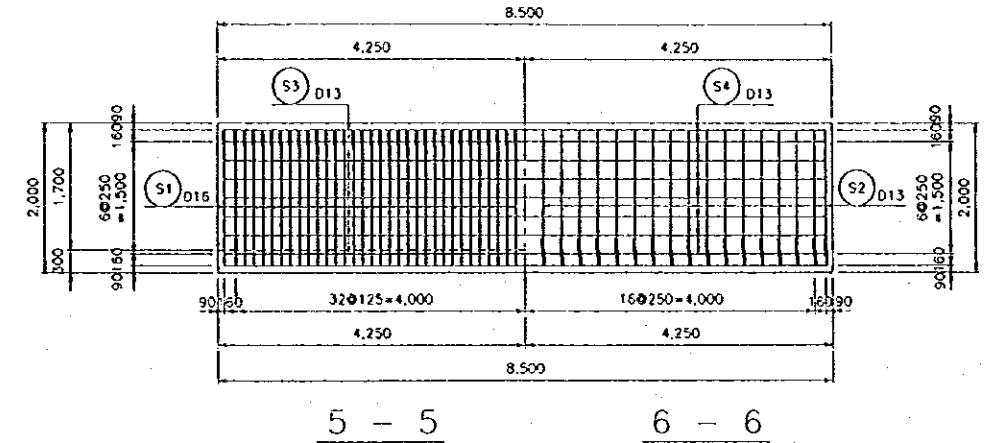
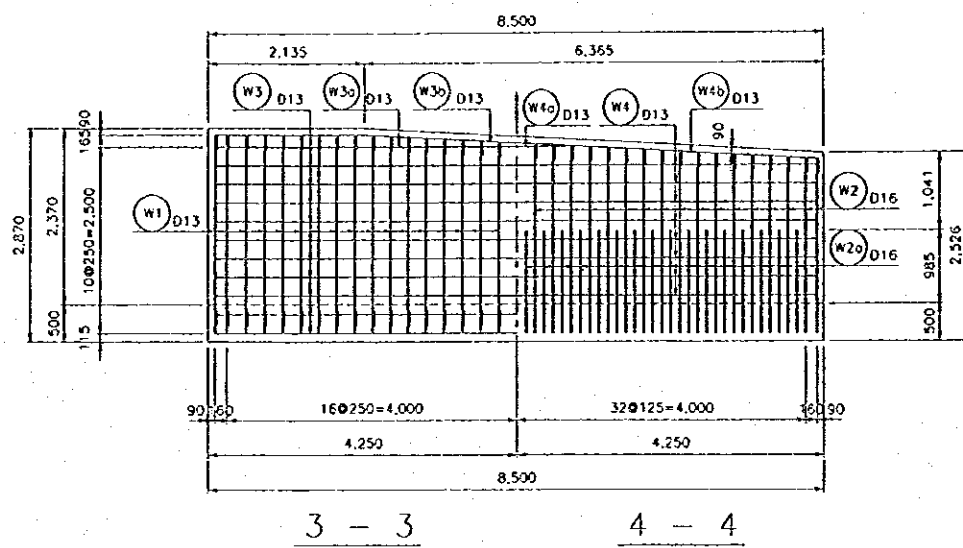
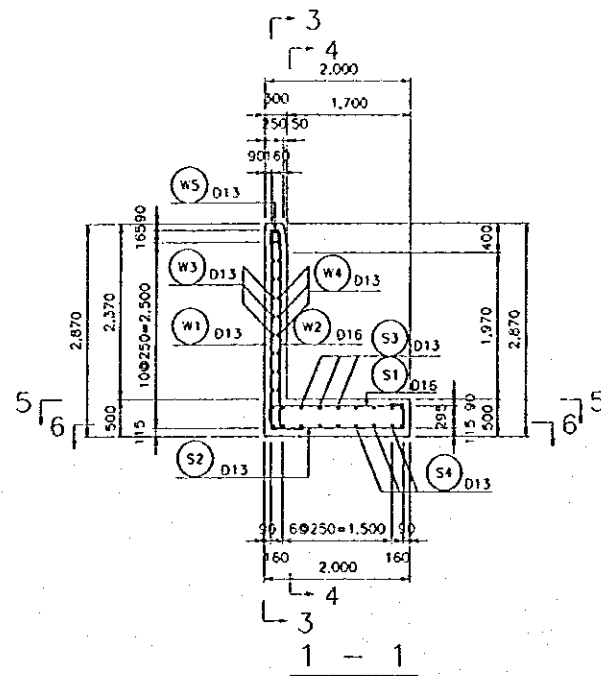
DISTRICT: SEMARANG CITY

DRAWING NO. W.G.-P2-MB-41-21

SHEET NO. 145

DATE: *[Date]*

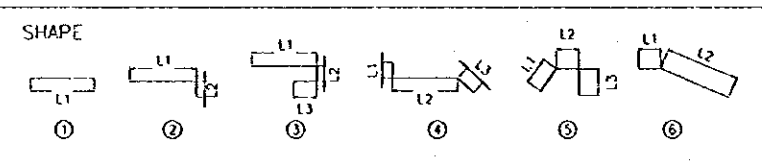
CONTRACT NO.:



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 JAVA
IRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT: WEST FLOODWAY / GARANG RIVER IMPROVEMENT MAINTENANCE BRIDGE APPROACH ROAD REINFORCING BAR ARRANGEMENT FOR WALL (LEFT BANK)			PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
EAST ASIAN INTERNATIONAL COOPERATION AGENCY CEI ENGINEERING CO. LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL, INC. EAST ASIAN INTERNATIONAL, INC.			DRAWING NO. WS-P2-MB-Rd-32 SHEET NO. 166
DATE _____ CHECKED _____ CHIEF OF PLANNING AND DESIGN			DATE _____ CONTRACT NO. _____
APPROVED _____ PROJECT MANAGER			

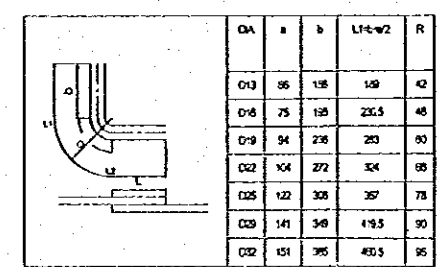
BAR BENDING SCHEDULE



BAR WEIGHT

RIGHT SIDE															LEFT SIDE														
TYPE	SHAPE	ØA	NUMBER	LENGTH (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	R (mm)	TYPE	ØA	LENGTH (mm)	NUMBER	WEIGHT PER *M*(kg)	WEIGHT PER *BAR*(kg)	WEIGHT (kg)	SHAPE											
W1	2	13	43	2,470	avg 2,240	228					W1	13	2,470	43	104	257	110.96												
W2	2	16	22	2,390	avg 2,115	278					W2	16	2,390	22	156	373	82.02												
W2a	4	16	21	2,750	278	2,355	avg 112				W2a	16	2,750	21	156	429	90.09												
W2a	2	16	40	1,640	278	1,300					W2a	16	1,640	40	156	256	102.34												
W3	1	13	8	10,220	10,220						W3	13	10,220	8	104	1063	65.03												
W3a	1	13	3	5,110	avg 5,110						W3a	13	5,110	3	104	531	15.94												
W3b	1	13	1	10,250	10,253						W3b	13	10,250	1	104	1066	10.66												
W4	1	13	6	10,220	10,220						W4	13	10,220	6	104	1063	63.77												
W4a	1	13	3	5,110	avg 5,110						W4a	13	5,110	3	104	531	15.94												
W4b	1	13	1	10,250	10,253						W4b	13	10,250	1	104	1066	10.66												
W5	5	13	43	510	228	52	228				W5	13	510	43	104	053	22.81												
W6	2	13	43	2,220	avg 1,990	228					W6	13	2,220	43	104	231	99.28												
W7	2	16	22	2,260	avg 1,980	278					W7	16	2,260	22	156	353	77.56												
W7a	4	16	21	2,500	278	2,105	avg 112				W7a	16	2,500	21	156	390	81.90												
W7a	2	16	40	1,510	278	1,235					W7a	16	1,510	40	156	236	94.22												
W8	1	13	7	10,220	10,220						W8	13	10,220	7	104	1063	74.40												
W8a	1	13	3	5,110	avg 5,110						W8a	13	5,110	3	104	531	15.94												
W8b	1	13	1	10,250	10,253						W8b	13	10,250	1	104	1066	10.66												
W9	1	13	5	10,220	10,220						W9	13	10,220	5	104	1063	53.14												
W9a	1	13	3	5,110	avg 5,110						W9a	13	5,110	3	104	531	15.94												
W9b	1	13	1	10,250	10,253						W9b	13	10,250	1	104	1066	10.66												
W10	5	13	43	510	228	52	228				W10	13	510	43	104	053	22.81												
S1	2	16	83	2,090	278	1,810					S1	16	2,090	83	158	326	270.61												
S2	3	13	43	2,320	228	277	1,811				S2	13	2,320	43	104	241	103.75												
S3	1	13	8	10,220	10,220						S3	13	10,220	8	104	1063	65.03												
S4	1	13	8	10,220	10,220						S4	13	10,220	8	104	1063	65.03												
S5	2	16	83	1,940	278	1,660					S5	16	1,940	83	156	303	251.19												
S6	3	13	43	2,170	228	277	1,661				S6	13	2,170	43	104	226	97.04												
S7	1	13	7	10,220	10,220						S7	13	10,220	7	104	1063	74.40												
S8	1	13	7	10,220	10,220						S8	13	10,220	7	104	1063	74.40												
TOTAL																2,207.71													
W1	2	13	35	2,750	avg 2,526	228					W1	13	2,750	35	104	286	100.10												
W2	4	16	35	2,810	278	avg 2,343	avg 134				W2	16	2,810	35	156	438	153.43												
W2a	2	16	32	1,640	278	1,300					W2a	16	1,640	32	156	256	81.87												
W3	1	13	10	8,320	8,320						W3	13	8,320	10	104	866	66.53												
W3a	1	13	1	5,140	5,138						W3a	13	5,140	1	104	535	5.35												
W3b	6	13	1	8,330	2,045	6,284					W3b	13	8,330	1	104	866	8.66												
W4	1	13	8	8,320	8,320						W4	13	8,320	8	104	866	69.22												
W4a	1	13	1	5,140	5,138						W4a	13	5,140	1	104	535	5.35												
W4b	6	13	1	8,330	2,045	6,284					W4b	13	8,330	1	104	866	8.66												
W5	5	13	35	510	228	52	228				W5	13	510	35	104	053	18.56												
W6	2	13	35	2,750	avg 2,526	228					W6	13	2,750	35	104	286	100.10												
W7	4	16	35	2,810	278	avg 2,343	avg 134				W7	16	2,810	35	156	438	153.43												
W7a	2	16	32	1,510	278	1,235					W7a	16	1,510	32	156	236	75.38												
W8	1	13	9	8,320	8,320						W8	13	8,320	9	104	866	77.88												
W8a	1	13	1	5,140	5,138						W8a	13	5,140	1	104	535	5.35												
W8b	6	13	1	8,330	2,045	6,284					W8b	13	8,330	1	104	866	8.66												
W9	1	13	7	8,320	8,320						W9	13	8,320	7	104	866	69.57												
W9a	1	13	1	5,140	5,138						W9a	13	5,140	1	104	535	5.35												
W9b	6	13	1	8,330	2,045	6,284					W9b	13	8,330	1	104	866	8.66												
W10	5	13	35	510	228	52	228				W10	13	510	35	104	053	18.56												
S1	2	16	5	2,090	278	1,810					S1	16	2,090	5	158	326	18.30												
S2	3	13	5	2,320	228	277	1,811				S2	13	2,320	5	104	241	12.06												
S3	1	13	41	8,320	8,320						S3	13	8,320	41	104	866	354.76												
S4	1	13	4	8,320	8,320						S4	13	8,320	4	104	866	34.61												
S5	2	16	242	2,090	278	1,810					S5	16	2,090	242	156	326	789.02												
S6	3	13	14	2,170	228	277	1,661				S6	13	2,170	14	104	226	31.60												
S7	1	13	14	8,320	8,320						S7	13	8,320	14	104	866	121.14												
S8	1	13	10	8,320	8,320						S8	13	8,320	10	104	866	66.53												
TOTAL																2,497.68													

BAR BENDING DETAIL



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

JRATUNSELUNA FLOOD CONTROL PROJECT
 COMPONENT: WEST FLOODWAY / GARANG RIVER IMPROVEMENT
 MAINTENANCE BRIDGE APPROACH
 LIST OF BAR ARRANGEMENT

DESIGNED BY: [Signature]
 CHECKED BY: [Signature]

DATE: [Date] CONTRACT NO. [Number]

NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

GENERAL ABBREVIATION & SYMBOL

GENERAL	ABBREVIATIONS	SYMBOLS											
<p>1. THESE CONTRACT DRAWINGS INDICATES THE ARCHITECTURAL REQUIREMENT FOR BUILDING STRUCTURE FOR THE CONSTRUCTION OF CENTRE FOR INFORMATION AND RECORD.</p> <p>2. DIMENSIONS IN THESE DRAWINGS ARE BASED UPON THE METRIC SYSTEM.</p> <p>3. REFERENCE LINE IS BASED UPON BENCH MARK ELEVATION AS SHOWN ON DWG A-001 SITE PLAN.</p> <p>4. FLOOR LEVELS INDICATED ARE TO TOP OF FLOOR FINISH OF RESPECTIVE FLOOR.</p> <p>5. THE CEILING HEIGHT GIVEN IS FROM TOP OF RESPECTIVE FLOOR FINISH TO CEILING.</p> <p>6. STRUCTURE, MECHANICAL AND ELECTRICAL WORK DETAILS AND DIMENSIONS MAY BE ADJUSTED FROM TIME TO TIME AS WORK PROGRESSES AND AS NECESSARY TO SUIT ARCHITECTURAL CONDITIONS ENCOUNTERED THE ADJUSTMENTS SUBJECT TO APPROVAL BY THE CONSULTANT.</p> <p>7. DRAWINGS ARE GROUPED AND IDENTIFIED IN DIVISION AND GENERALLY COMPRISED AS FOLLOWS:</p> <p style="margin-left: 20px;">1. OPERATION/MANAGEMENT BUILDING</p> <p>A4 - 000 DRAWING LIST GENERAL ABBREVIATION & SYMBOL AREA SCHEDULE</p> <p>A4 - 100 EXTERIOR FINISH SCHEDULE INTERIOR FINISH SCHEDULE FLOOR AREA TABLE Site Plan (Part Plan) Floor Plan Reflected Ceiling Plan Roof Plan Section Interior Elevation Detail Plan & Detail Section Miscellaneous Detail Key Plan, Door Window Schedule Drainage Plan & Detail</p> <p>C4 - 100 Construction Drawing</p> <p>E4 - 100 Electrical Drawing</p> <p>P4 - 100 Plumbing Drawing</p> <p style="margin-left: 20px;">2. STORAGE HOUSE I</p> <p>A4 - 200 Floor Plan, Roof Plan, Ceiling Plan & Elevation Section, Detail Key Plan, Door Window Schedule</p> <p>C4 - 200 Construction Drawing</p> <p style="margin-left: 20px;">3. ELECTRICAL BUILDING</p> <p>A4 - 300 Floor Plan, Roof Plan, Ceiling Plan & Elevation Section Key Plan, Door Window Schedule</p> <p>C4 - 300 Construction Drawing</p> <p style="margin-left: 20px;">4. STORAGE HOUSE II</p> <p>A4 - 400 Floor Plan, Roof Plan, Elevation & Section Detail Plan & Detail Key Plan, Door Window Schedule</p> <p>C4 - 400 Construction Drawing</p> <p style="margin-left: 20px;">5. QUAYD HOUSE</p> <p>A4 - 500 Floor Plan, Roof Plan, Ceiling Plan, Elevation & Section Key Plan, Door Window Schedule</p> <p>C4 - 500 Construction Drawing</p> <p style="margin-left: 20px;">6. GATE CONTROL HOUSE I</p> <p>A4 - 600 Floor Plan, Roof Plan, Elevation & Section Stairs Detail Key Plan, Door Window Schedule</p> <p>C4 - 600 Construction Drawing</p> <p style="margin-left: 20px;">7. GATE CONTROL HOUSE II</p> <p>A4 - 700 Floor Plan, Roof Plan, Elevation & Section Stairs Detail Miscellaneous Detail</p> <p>C4 - 700 Key Plan, Door Window Schedule Construction Drawing</p> <p style="margin-left: 20px;">8. INTAKE GATE SHED ON RIGHT BANK</p> <p>A4 - 800 Site Plan, Plan, Roof Plan, Elevation Roof Plan, Detail, Miscellaneous</p> <p style="margin-left: 20px;">9. INTAKE GATE SHED ON LEFT BANK</p> <p>A4 - 900 Site Plan, Plan, Roof Plan, Elevation Roof Plan, Detail, Miscellaneous</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> <p>ABV. ABOVE</p> <p>A/C AIR CONDITIONING</p> <p>ADJUST. ADJUSTABLE</p> <p>ADJ. ADJUSTABLE</p> <p>ALT. ALTERNATIVE</p> <p>ALF. ALUMINUM FOL.</p> <p>ALUM. ALUMINUM</p> <p>ANCH. ANCHOR</p> <p>APRX. APPROXIMATELY</p> <p>A.F.P. ACCESS/FLOOR PANEL</p> <p>ARCH. ARCHITECTURAL</p> <p>ASPH. ASPHALT</p> <p>AXL. AXIS LINE</p> <p>∠ ANGLE</p> <p>Ø DIA.</p> <p>B. BASE</p> <p>B.B. BASEBOARD</p> <p>B.D. BOARD</p> <p>BLOG. BUILDING</p> <p>B.M. BENCH MARK</p> <p>B.W. BETWEEN</p> <p>CAB. CABINET</p> <p>CPT. CARPET</p> <p>CEMT. CEMENT MORTAR TROWEL</p> <p>CLG. CEILING</p> <p>C.H. CEILING HEIGHT</p> <p>C.C. CENTRE COUNTER</p> <p>C.T. CERAMIC TILE</p> <p>C.A. COLOR ANODIZED</p> <p>COL. COLUMN</p> <p>COR. CORNER</p> <p>CONT. CONTINUOUS</p> <p>CONT.N.C.H. 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<p>ABV. ABOVE</p> <p>A/C AIR CONDITIONING</p> <p>ADJUST. ADJUSTABLE</p> <p>ADJ. ADJUSTABLE</p> <p>ALT. ALTERNATIVE</p> <p>ALF. ALUMINUM FOL.</p> <p>ALUM. ALUMINUM</p> <p>ANCH. ANCHOR</p> <p>APRX. APPROXIMATELY</p> <p>A.F.P. ACCESS/FLOOR PANEL</p> <p>ARCH. ARCHITECTURAL</p> <p>ASPH. ASPHALT</p> <p>AXL. AXIS LINE</p> <p>∠ ANGLE</p> <p>Ø DIA.</p> <p>B. BASE</p> <p>B.B. BASEBOARD</p> <p>B.D. BOARD</p> <p>BLOG. BUILDING</p> <p>B.M. BENCH MARK</p> <p>B.W. BETWEEN</p> <p>CAB. CABINET</p> <p>CPT. CARPET</p> <p>CEMT. CEMENT MORTAR TROWEL</p> <p>CLG. CEILING</p> <p>C.H. CEILING HEIGHT</p> <p>C.C. CENTRE COUNTER</p> <p>C.T. CERAMIC TILE</p> <p>C.A. COLOR ANODIZED</p> <p>COL. COLUMN</p> <p>COR. CORNER</p> <p>CONT. CONTINUOUS</p> <p>CONT.N.C.H. CEMENT MORTAR TROWEL W / COLOUR HARDENER</p> <p>DIA. DIAMETER</p> <p>D.M. DIMENSION</p> <p>DN. DOWN</p> <p>DR. DOOR</p> <p>D.S. DUCT SPACE</p> <p>DWG. DRAWING</p> <p>E. EAST</p> <p>E.A. EACH</p> <p>ELEC. ELECTRICITY</p> <p>E.V. ELEVATOR</p> <p>E.P.S. ELECTRICAL PIPE SHAFT</p> <p>E.Q. EQUAL</p> <p>EXH. EXHAUST</p> <p>EXPL. EXPOSED</p> <p>EXJ. EXPANSION JOINT</p> <p>EXT. EXTERIOR</p> <p>EQPM. EQUIPMENT</p> <p>E.W.C. ELECTRIC WATER CLOSET</p> <p>E.R.C. EPOXY RESIN COATING</p>	<p>FL. FLOOR</p> <p>FB. FIBRE</p> <p>(F) FEMALE</p> <p>FIN. FINISH</p> <p>F.D.M.P. FIRE DAMPER</p> <p>F.H. FIRE HYDRANT</p> <p>F.P.T.C. FIRE PROTECTION</p> <p>F.D. FLOOR DRAIN</p> <p>FL. FLOOR LEVEL</p> <p>FIG. FOOTING</p> <p>FD. FOUNDATION</p> <p>F. FIBRE</p> <p>FCB. FIBRE CEMENT BOARD</p> <p>G.S. GLASS</p> <p>GALV. GALVANIZED</p> <p>G.I. GALVANIZED IRON</p> <p>G.F.L. GROUND FLOOR LEVEL</p> <p>G.L. GROUND LEVEL</p> <p>G.C.TILE GLAZED CERAMIC TILE</p> <p>G.F. GROUND FLOOR</p> <p>G.P. GYPSUM</p> <p>G.L. GYPSUM LATH</p> <p>G.P.B. GYPSUM PLASTER BOARD</p> <p>G.P.T. GYPSUM PLASTER TROWEL</p> <p>GB. GLASS BLOCK</p> <p>H. HEIGHT</p> <p>H.W.D. HARDWOOD</p> <p>HOZL. HORIZONTAL</p> <p>H.B. HOOK BATTEN W/S/P</p> <p>I.D. INSIDE DIAMETER</p> <p>INSUL. INSULATION</p> <p>INT. INTERIOR</p> <p>J. JOINT</p> <p>L. LENGTH</p> <p>L.M. LAMINATED</p> <p>LAD. LADDER</p> <p>(M) MALE</p> <p>MACH. MACHINE</p> <p>MAT. MATERIAL</p> <p>MED. MECHANICAL</p> <p>M.M. MARBLE</p> <p>M.S. MARBLE</p> <p>MET. METAL</p> <p>MEN. MENSUR</p> <p>M.R. MEMBER</p> <p>M.A.TILE. MINERAL AGGREGATE TILE</p> <p>M.D.G. MOLDING</p> <p>M.D.F. MAIN DISTRIBUTOR FRAME</p> <p>N. NORTH</p> <p>NO. NUMBER</p> <p>N.C. NOT IN CONTRACT</p> <p>N.T.S. NOT TO SCALE</p> <p>O.C. ON CENTRE</p> <p>O.D. OUTSIDE DIAMETER</p> <p>OH. OVERHEAD</p>	<p>P. PAINT</p> <p>P.C. PRECAST CONCRETE</p> <p>PL. PLATE</p> <p>PLAS. PLASTER</p> <p>P.L.V.D. PLYWOOD</p> <p>POL. POLISHED</p> <p>P.P.T.C. FIRE PROTECTION</p> <p>PORC.T. PORCELAIN TILE</p> <p>P.S. PIPE SHAFT</p> <p>PIN. PARTITION</p> <p>P.V.C. POLY VINYL CHLORIDE</p> <p>P.H.L. PENTHOUSE FLOOR LEVEL</p> <p>P.H.R. PENTHOUSE ROOF</p> <p>R.C. REINFORCED CONCRETE</p> <p>R.D. ROOF DRAIN</p> <p>R.F. ROOF FLOOR</p> <p>R.W. ROOM</p> <p>R.S. RESILIENT</p> <p>R.L. RAIN LEADER</p> <p>S. SCALE</p> <p>S.D. STEEL DOOR</p> <p>SEC. SECTION</p> <p>SHT. SHEET</p> <p>SPECS. SPECIFICATIONS</p> <p>SQ. SQUARE</p> <p>SS. STAINLESS STEEL</p> <p>SSD. STAINLESS STEEL DOOR</p> <p>SSW. STAINLESS STEEL WINDOW</p> <p>ST. STAIRCASE</p> <p>STL. STEEL</p> <p>STOR. STORAGE</p> <p>STRUCT. STRUCTURAL</p> <p>SUSP. SUSPENSER</p> <p>SW. STEEL WINDOW</p> <p>SP.W.C. SPRAYED WHITE CEMENT</p> <p>STN. STONE</p> <p>T. TRUCK</p> <p>TEL. TELEPHONE</p> <p>T.V. TELEVISION</p> <p>TEPR. TERRAZO</p> <p>T.F. TROWEL FINISH</p> <p>TYP. TYPICAL</p> <p>T.B. TERRAZO BLOCK</p> <p>U.O.C.T. UNGLAZED CERAMIC TILE</p> <p>U.N.D. UNLESS NOTED</p> <p>OTHER WISE</p> <p>VERT. VERTICAL</p> <p>V.A.T. VINYL ASBESTOS TILE</p> <p>V.E.P. VINYL EMULSION PAINT</p> <p>V.B. VENT BLOCK</p> <p>W. WATH</p> <p>W.D. WOODEN DOOR</p> <p>W.G. WIRE GLASS</p> <p>W.C. WATER CLOSET</p> <p>W.P. WATERPROOFING</p> <p>W.D. WINDOW</p> <p>W.W. WOOD</p> <p>W.L. WALL</p>											
MATERIALS	FIXTURES												
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<p>THE REPUBLIC OF INDONESIA</p> <p>MINISTRY OF PUBLIC WORKS</p> <p>DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT</p>		<p>PROVINCE</p> <p>CENTRAL JAVA</p>
<p>JRATUNSELUNA FLOOD CONTROL PROJECT</p> <p>COMPONENT : WEST FLOODWAY / GARANG RIVER IMPROVEMENT</p> <p>SIMONGAN WEIR MANAGEMENT COMPLEX</p> <p>OPERATION/MANAGEMENT BUILDING</p> <p>GENERAL ABBREVIATION AND SYMBOL</p>		<p>DISTRICT</p> <p>SEMARANG CITY</p>
<p>DESIGNED</p> <p>CHECKED</p> <p>APPROVED</p>		<p>DRAWING NO. A4-001/W3-P2-SM-B-1</p> <p>SHEET NO. 158</p> <p>DATE</p> <p>CONTRACT NO.</p>

NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

EXTERIOR FINISH SCHEDULE

EXTERIOR FINISH SCHEDULE FOR OPERATION/MANAGEMENT BUILDING

ITEMS	
ROOF :	
MAIN ROOF	CERAMIC TILE ROOF
VALLEY	COLORBOND METAL SHEET SIMILAR COLOR WITH ROOF (CERAMIC TILE ROOF)
FASCA	EXTERIOR WOOD PAINT FINISH ON BENGORAN WOOD
EXTERIOR WALL :	
WALL	TERACOTA TILE 100x200 DOFF EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH
COLUMN	TERACOTA TILE 100x200 DOFF EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH
BEAM	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH
CORRIDOR SKIRTING :	
EXTERNAL CORRIDOR	NON-SLIP, TEXTURED, CERAMIC TILE 300x300 GRAVEL ABOVE THE GROUND
WINDOW AND DOOR :	
FRAME	ANODIZED ALUMINUM FRAME
CEILING	EXTERIOR PAINT FINISH ON FIBRE CEMENT
LOUVER	ANODIZED ALUMINUM LOUVER
DOOR	ANODIZED ALUMINUM DOOR FRAME W/ GLASS OR PAINTED PLYWOOD LEAVES
WINDOW	WOODEN FRAME W/ PAINTED PLYWOOD LEAVES ANODIZED ALUMINUM WINDOW FRAME W/ GLASS LEAVES

EXTERIOR FINISH SCHEDULE FOR STORAGE HOUSE I

ITEMS	
ROOF :	
MAIN ROOF	REINFORCEMENT CONCRETE SLAB WITH WATER PROOFING
FASCA	EXTERIOR PAINT FINISH ON REINFORCEMENT CONCRETE FINISH
EXTERIOR WALL :	
WALL	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
COLUMN	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
BEAM	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
CORRIDOR SKIRTING :	
EXTERNAL CORRIDOR	CONCRETE WITH MORTAR FINISH GRAVEL ABOVE THE GROUND
WINDOW AND DOOR :	
FRAME	ANODIZED ALUMINUM FRAME
WINDOW	ANODIZED ALUMINUM
DOOR	ANODIZED ALUMINUM ROLLING DOOR

EXTERIOR FINISH SCHEDULE FOR STORAGE HOUSE II

ITEMS	
ROOF :	
MAIN ROOF	REINFORCEMENT CONCRETE SLAB W/ WATER PROOFING
FASCA	EXTERIOR PAINT FINISH ON REINFORCEMENT CONCRETE SLAB
EXTERIOR WALL :	
WALL	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
COLUMN	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
BEAM	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
CORRIDOR SKIRTING :	
EXTERNAL CORRIDOR	CONCRETE WITH MORTAR FINISH GRAVEL ABOVE THE GROUND
WINDOW AND DOOR :	
FRAME	ANODIZED ALUMINUM FRAME
LOUVER	ANODIZED ALUMINUM LOUVER
DOOR	ANODIZED ALUMINUM FRAME W/ PAINTED PLYWOOD LEAVES
WINDOW	ANODIZED ALUMINUM ROLLING DOOR ANODIZED ALUMINUM FRAME W/ GLASS LEAVES

EXTERIOR FINISH SCHEDULE FOR ELECTRICAL BUILDING

ITEMS	
ROOF :	
MAIN ROOF	CERAMIC TILE ROOF
VALLEY	COLORBOND METAL SHEET SIMILAR COLOR WITH ROOF (CERAMIC TILE ROOF)
FASCA	EXTERIOR WOOD PAINT FINISH ON BENGORAN WOOD
EXTERIOR WALL :	
WALL	TERACOTA TILE 100x200 DOFF EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH
COLUMN	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL FINISH
CORRIDOR SKIRTING :	
EXTERNAL CORRIDOR	CONCRETE W/ MORTAR FINISH GRAVEL ABOVE THE GROUND
WINDOW AND DOOR :	
FRAME	ANODIZED ALUMINUM FRAME
LOUVER	ANODIZED ALUMINUM LOUVER
DOOR	EXTERIOR METAL PAINT ON STEEL PLATE W/ STEEL FRAME

EXTERIOR FINISH SCHEDULE FOR GATE CONTROL HOUSE I

ITEMS	
ROOF :	
MAIN ROOF	ROOF STEEL
FASCA	EXTERIOR PAINT FINISH ON METAL SHEET
EXTERIOR WALL :	
WALL	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
COLUMN	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
BEAM	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
WINDOW AND DOOR :	
FRAME	ANODIZED ALUMINUM FRAME
LOUVER	ANODIZED ALUMINUM
WINDOW	ANODIZED ALUMINUM
DOOR	ANODIZED ALUMINUM

EXTERIOR FINISH SCHEDULE FOR GATE CONTROL HOUSE II

ITEMS	
ROOF :	
MAIN ROOF	ROOF STEEL
FASCA	EXTERIOR PAINT FINISH ON METAL SHEET
EXTERIOR WALL :	
WALL	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
COLUMN	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
BEAM	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
WINDOW AND DOOR :	
FRAME	ANODIZED ALUMINUM FRAME
LOUVER	ANODIZED ALUMINUM
WINDOW	ANODIZED ALUMINUM
DOOR	ANODIZED ALUMINUM

EXTERIOR FINISH SCHEDULE FOR GUARD HOUSE

ITEMS	
ROOF :	
MAIN ROOF	CERAMIC TILE ROOF
FASCA	EXTERIOR WOOD PAINT FINISH ON BENGORAN WOOD
EXTERIOR WALL :	
WALL	TERACOTA TILE 100x200 DOFF EXTERIOR PAINT FINISH ON CEMENT MORTAR FINISH
COLUMN	TERACOTA TILE 100x200 DOFF EXTERIOR PAINT FINISH ON CEMENT MORTAR FINISH
BEAM	EXTERIOR PAINT FINISH ON CEMENT MORTAR FINISH
CORRIDOR SKIRTING :	
EXTERNAL CORRIDOR	NON-SLIP, TEXTURED, CERAMIC TILE 300x300 GRAVEL ABOVE THE GROUND
WINDOW AND DOOR :	
FRAME	ANODIZED ALUMINUM FRAME
LOUVER	ANODIZED ALUMINUM LOUVER
DOOR	ANODIZED ALUMINUM DOOR FRAME W/ PLYWOOD PAINTED
WINDOW	ANODIZED ALUMINUM WINDOW FRAME W/ GLASS LEAVES


EXTERIOR FINISH SCHEDULE FOR INTAKE GATE SHED ON RIGHT BANK

ITEMS	
ROOF :	
MAIN ROOF	ROOF STEEL
FASCA	EXTERIOR PAINT FINISH ON METAL SHEET
EXTERIOR WALL :	
COLUMN	EXTERIOR PAINT FINISH ON METAL SHEET
BEAM	EXTERIOR PAINT FINISH ON METAL SHEET

EXTERIOR FINISH SCHEDULE FOR INTAKE GATE SHED ON LEFT BANK

ITEMS	
ROOF :	
MAIN ROOF	ROOF STEEL
FASCA	EXTERIOR PAINT FINISH ON METAL SHEET
EXTERIOR WALL :	
COLUMN	EXTERIOR PAINT FINISH ON METAL SHEET
BEAM	EXTERIOR PAINT FINISH ON METAL SHEET

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
	BRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT: WEST FLOODWAY (OARANG RIVER IMPROVEMENT) SIMONGAN WEIR MANAGEMENT COMPLEX OPERATION/MANAGEMENT BUILDING EXTERIOR FINISH SCHEDULE	PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
	SUKAWATI INTERNATIONAL COOPERATION AGENCY CITY ENGINEERING CONSULTANTS PACIFIC CONSULTANTS INTERNATIONAL AND PAKSI INTERNATIONAL	DISTRICT SEMARANG CITY
	DESIGNED CHECKED CHERY OF PLANNING AND DESIGN PROJECT MANAGER	DRAWING NO. JAW-100/MP-P2-SM-BH-2 SHEET NO. 169 DATE CONTRACT NO.

INTERIOR FINISH SCHEDULE

		FLOOR	BASE	WALL	CEILING	ACCESSORIES	CEILING HEIGHT
SIMONGAN WEIR MANAGEMENT COMPLEX							
ROOM NUMBER	ROOM NAMES	CERAMIC TILE 300 mm x 300 mm					
	OPERATION/MANAGEMENT BUILDING	CERAMIC TILE (NON SUP) 300 mm x 300 mm					
1	OFFICE	CERAMIC TILE (NON SUP) 200 mm x 200 mm					3000
2	STORAGE	CONCRETE W/ MORTAR FIN					2500
3	BED ROOM	MORTAR TROWEL FIN. W/ PAINT					3000
4	TOILET	MORTAR TROWEL FIN. BASE W/ WATER RESISTANT PAINT					2300
5	PANTRY	MORTAR TROWEL FIN. BASE W/ WATER RESISTANT PAINT OVER LAVATORY					3000
6	CONTROL ROOM	RAYBAND GLASS HEIGHT 100 mm					3000
7	STAIRS	MORTAR TROWEL FIN. W/ PAINT					3000
8	TERRACE	CERAMIC TILE 200 mm x 200 mm					2750
9	PRAYING ROOM	TIMBER SKRITING 800 HEIGHT					3000
10	DINNING ROOM	GYPSSUM BOARD W/ PAINT W/ WOODEN FRAME					3000
	ELECTRICAL BUILDING	MINERAL ACOUSTIC TILE 900 mm x 600 mm W/ STRIPE FISURED TYPE					
1	ELECTRICAL ROOM	FIBRE RECHMENT BOARD W/ WOODEN FRAME W/ PAINT					3000
2	POWER GENERATOR ROOM	COUNTER DESK					3000
3	TERRACE	MIRROR ABOVE THE WASTAFEL					3000
	STORAGE HOUSE I	UNDER FLOOR DUCTING					
1	STORAGE	AIR CONDITION					3880
2	TERRACE						3205
	STORAGE HOUSE II						
1	EQUIPMENT MAINTENANCE STORAGE						3880
2	OFFICE MAINTENANCE STORAGE						3880
3	SECURITY ROOM						3880
4	TOILET						3880
5	TERRACE						2780
	GUARD HOUSE						
1	SECURITY ROOM						3000
2	TOILET						3000
3	TERRACE						-
	GATE CONTROL HOUSE I						
1	CONTROL ROOM						-
	GATE CONTROL HOUSE II						
1	CONTROL ROOM						-
	INTAKE GATE SHED ON RIGHT BANK						-
	INTAKE GATE SHED ON LEFT BANK						-

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
BRATUNSELAH FLOOD CONTROL PROJECT COMPONENT: WEST FLOODWAY / GARANG RIVER IMPROVEMENT SIMONGAN WEIR MANAGEMENT BUILDING OPERATION/MANAGEMENT BUILDING INTERIOR FINISH SCHEDULE		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) ENGINEERING CONSULTANTS FOR PACIFIC COASTAL AND INFRASTRUCTURE AND FLOOD PREVENTION WORKS		DISTRICT SEMARANG CITY
DESIGNED: <i>[Signature]</i> CHECKED: <i>[Signature]</i>		DRAWING NO. 44-101/190-P2-SM-B1-3 SHEET NO. 178
APPROVED: <i>[Signature]</i> CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		DATE: <i>[Date]</i> CONTRACT NO.