

KEY PLAN
SCALE A AS1205

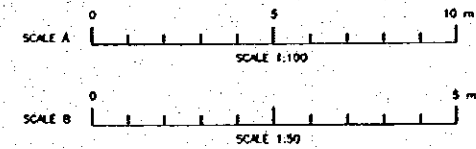
MARK	QTY	AM 1	9	AD 1	2	AD 2	1	AD 3	1	AM 2	1
SHAPE											
TYPE		DOUBLE SLIDING		DOUBLE SWING		DOUBLE SWING		SINGLE SWING & DOUBLE SLIDING			
MATERIAL	FINISH	FRAME	ALU	ALU	ALU	ALU	ALU	ALU	ALU	FRAME	ALU
		PANEL	ANO	ANO	ANO	ANO	ANO	ANO	ANO	PANEL	ANO
		GLASS	GLASS	GLASS	GLASS	GLASS	GLASS	GLASS	GLASS	PLYWOOD 6 MM THICK & GLASS	PRG
		HARDWARE	CLEAR GLASS 5 MM THICK		CLEAR GLASS 5 MM THICK		CLEAR GLASS 5 MM THICK		CLEAR GLASS 5 MM THICK		
		POSITION	METAL FITTINGS COMPLETE SET		METAL FITTINGS COMPLETE SET		METAL FITTINGS COMPLETE SET		METAL FITTINGS COMPLETE SET		
			OFFICE ROOM, MEETING ROOM		OFFICE ROOM, MEETING ROOM		OFFICE ROOM		OFFICE ROOM		
MARK	QTY	AM 2	1	AD 3	2	AM 3	1	AM 2	1		
SHAPE											
TYPE		SINGLE SWING & SLIDING		SINGLE SWING & TOP HUNG		SINGLE SWING & TOP HUNG		TOP HUNG			
MATERIAL	FINISH	FRAME	ALU	ALU	ALU	ALU	ALU	ALU	ALU		
		PANEL	ANO	ANO	ANO	ANO	ANO	ANO	ANO		
		GLASS	GLASS	GLASS	GLASS	GLASS	GLASS	GLASS	GLASS		
		HARDWARE	CLEAR GLASS 5 MM THICK		CLEAR GLASS 5 MM THICK		CLEAR GLASS 5 MM THICK		CLEAR GLASS 5 MM THICK		
		POSITION	METAL FITTINGS COMPLETE SET		METAL FITTINGS COMPLETE SET		METAL FITTINGS COMPLETE SET		METAL FITTINGS COMPLETE SET		
			KITCHEN ROOM		STORAGE, TOILET		OFFICE		TOILET		

DOOR & WINDOW SCHEDULE
SCALE B AS1205

LEGEND :
 AD : ALUMINUM DOOR
 AM : ALUMINUM WINDOW
 AN : ALUMINUM LOUVER
 ADW : ALUMINUM DOOR WINDOW
 ——— DOORS & WINDOWS SYMBOL

MATERIAL :
 ALU : ALUMINUM
 ANO : ANODIZED
 PRG : POLYUR , CLEAR SEMOLOSS

○ — REFERENCE NO.



NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

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

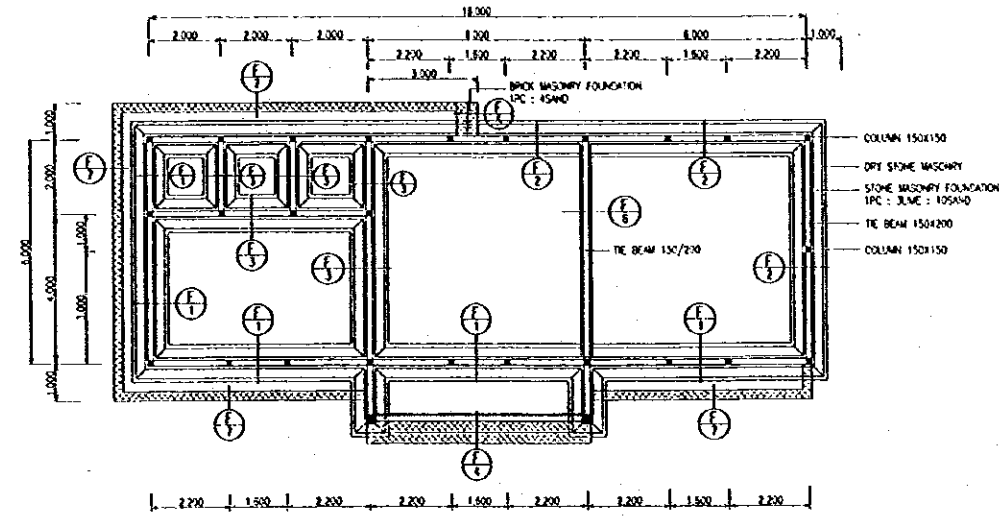
PROVINCE: CENTRAL JAVA
 PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT BY SEMARANG IN THE REPUBLIC OF INDONESIA
 DISTRICT: SEMARANG CITY
 DRAWING NO. AS-205-U-PS-P-04-04
 SHEET NO. 93

INATURSELUNA FLOOD CONTROL PROJECT
 COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT
 BARU PUMPING STATION COMPLEX
 KEY PLAN & DOOR WINDOW SCHEDULE
 MANAGEMENT OFFICE

JAFAR INTERNATIONAL COOPERATION AGENCY
 CIVIL ENGINEERING CO. LTD. IN ASSOCIATION WITH
 PACIFIC CONSULTANTS INTERNATIONAL AND
 PANGLOSS INTERNATIONAL INC.

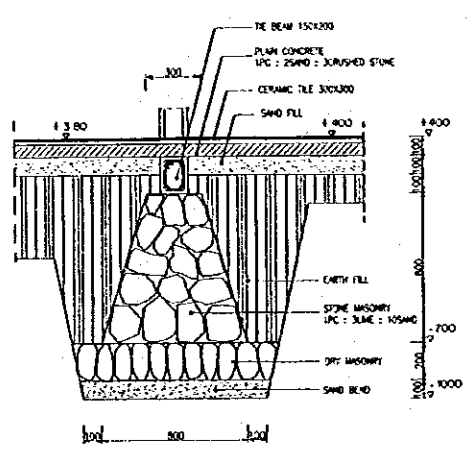
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 CHECKED: [Signature]
 CHIEF OF PLANNING AND DESIGN
 PROJECT MANAGER

DATE: [Blank]
 CONTRACT NO.: [Blank]

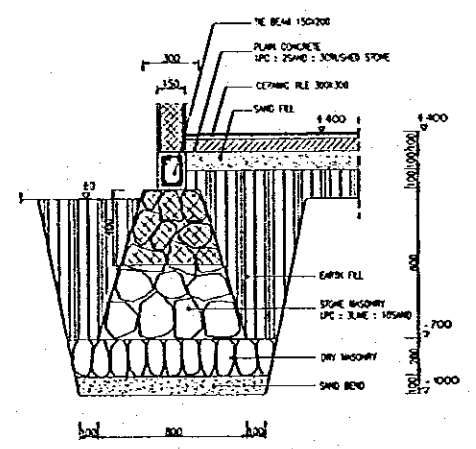


FOUNDATION PLAN
SCALE A

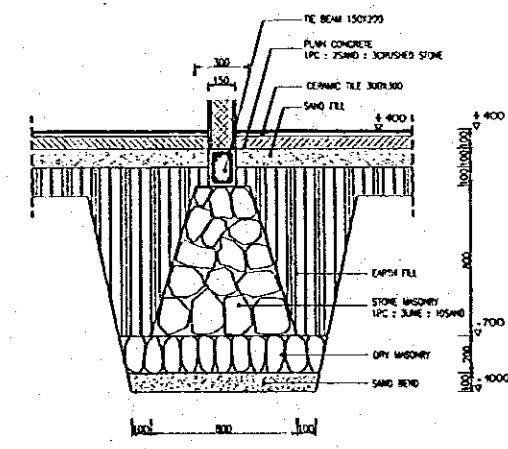
DETAIL F-1



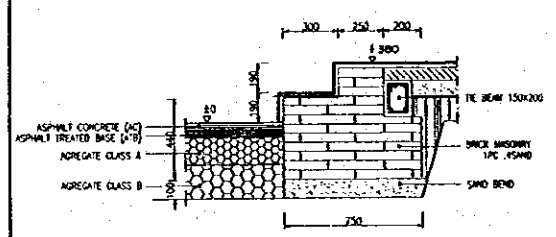
DETAIL F-2



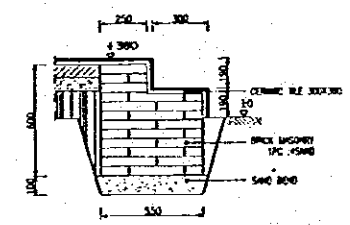
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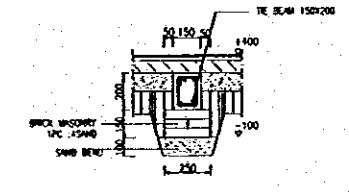
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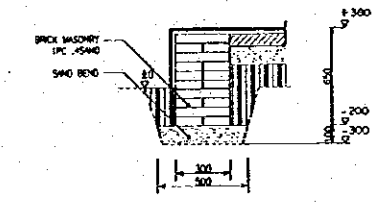
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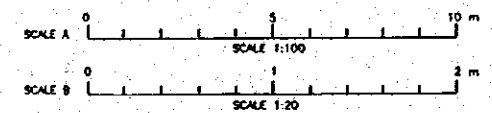
DETAIL F-6



DETAIL F-7

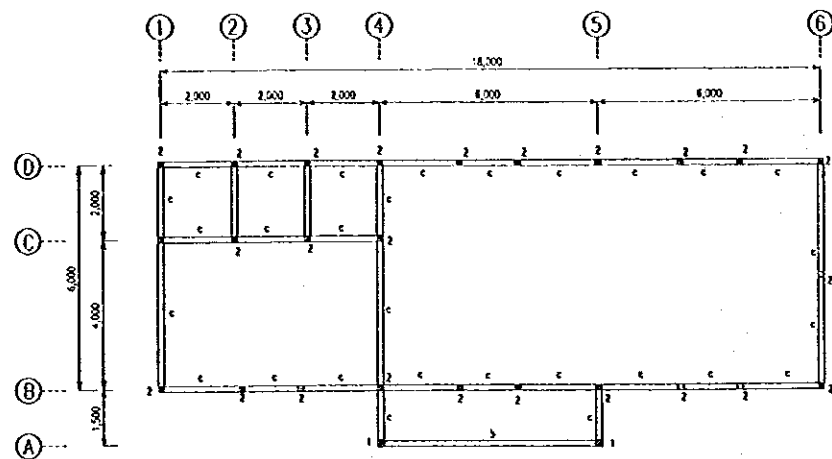


FOUNDATION SCHEDULE
SCALE B

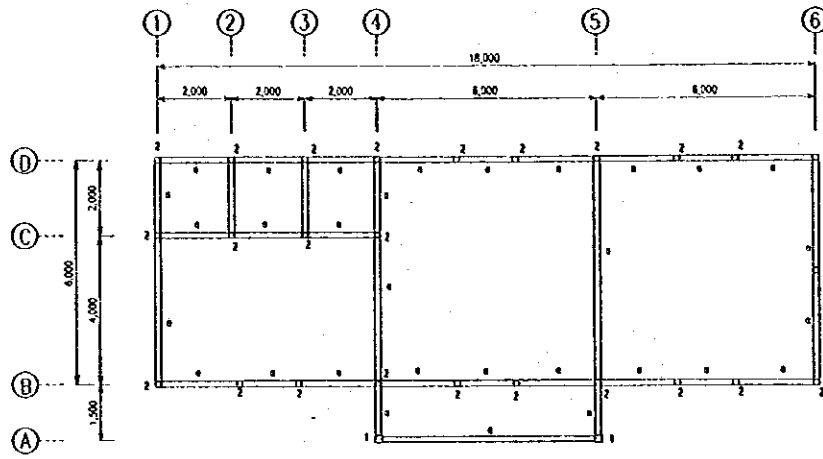


NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

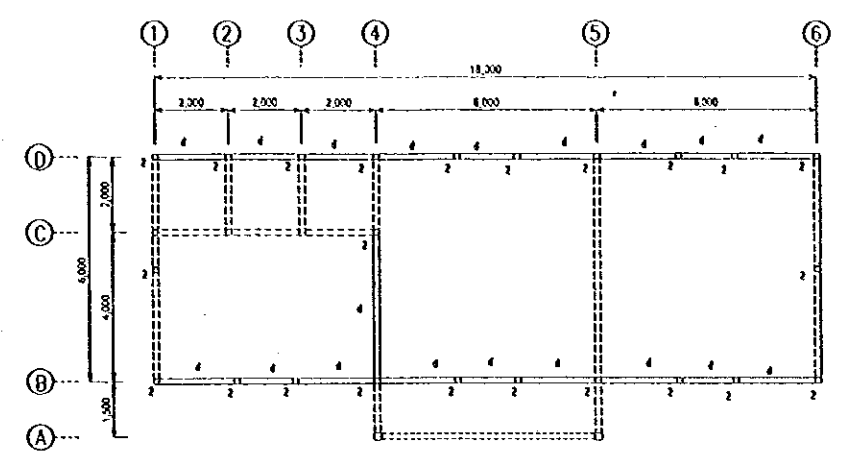
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAWA
JATUNGSILUMA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT BARU PUMPING STATION COMPLEX FOUNDATION PLAN & DETAIL MANAGEMENT OFFICE		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT OF SEMARANG OF THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY CITY ENGINEERING DESIGN & MANAGEMENT CENTER PACIFIC CONSULTANTS INTERNATIONAL, AND PAKED INTERNATIONAL, ETC.		DISTRICT SEMARANG CITY
DESIGNED CHECKED DATE	APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER	DRAWING NO. C3-200 U.P.S.-F.04-32 SHEET NO. 94 CONTRACT NO.



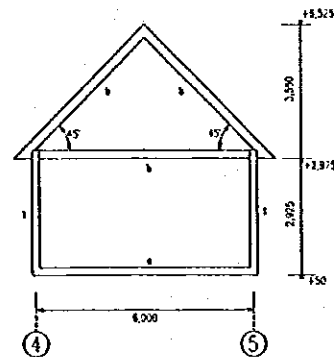
COLUMN AND RING BEAM PLAN GL+4,100
SCALE A



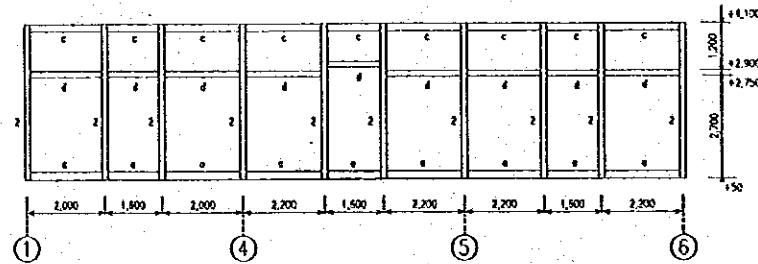
COLUMN AND TIE BEAM PLAN +50
SCALE A



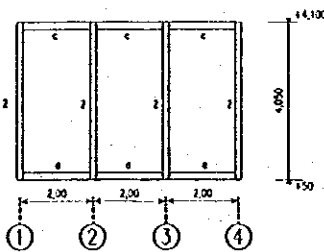
COLUMN AND TIE BEAM PLAN +2750
SCALE A



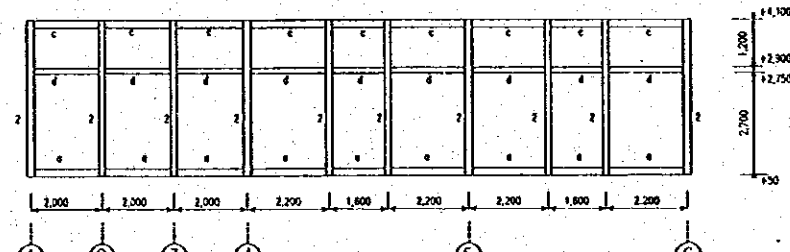
FRAMING LINE A
SCALE A



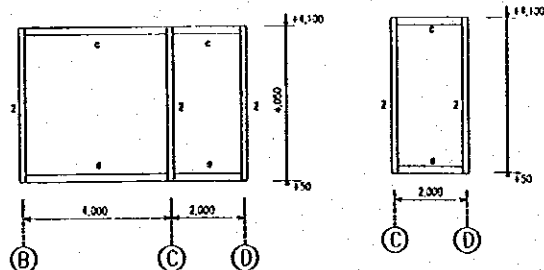
FRAMING LINE B
SCALE A



FRAMING LINE C
SCALE A

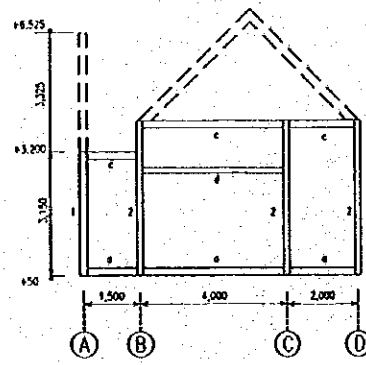


FRAMING LINE D
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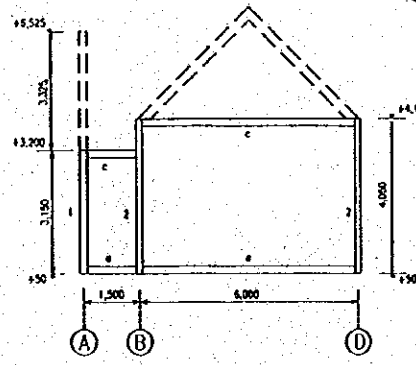


FRAMING LINE 1
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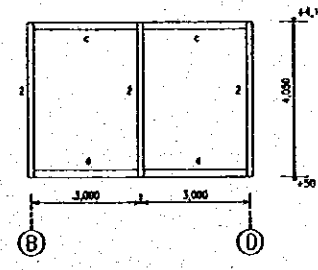
FRAMING LINE 2&3
SCALE A



FRAMING LINE 4
SCALE A



FRAMING LINE 5
SCALE A



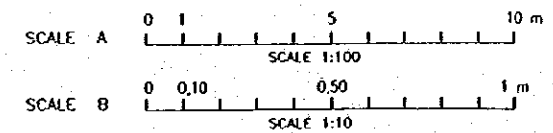
FRAMING LINE 6
SCALE A

TYPICAL BEAM REINFORCEMENT				
ARRANGEMENT	BEAM TYPE ①	BEAM TYPE ②	BEAM TYPE ③	BEAM TYPE ④
TOP	2 #12	2 #12	2 #12	2 #12
MIDDLE	—	—	—	—
BOTTOM	2 #12	2 #12	2 #12	2 #12
STIRLIP	#8-150	#8-150	#8-150	#8-150

TYPICAL BEAM REINFORCEMENT
SCALE B

TYPICAL COLUMN REINFORCEMENT		
ARRANGEMENT	COLUMN TYPE ①	COLUMN TYPE ②
TOP	8 #12	8 #12
BOTTOM	8 #12	8 #12
STIRLIP	#8-150	#8-150

TYPICAL COLUMN REINFORCEMENT
SCALE B



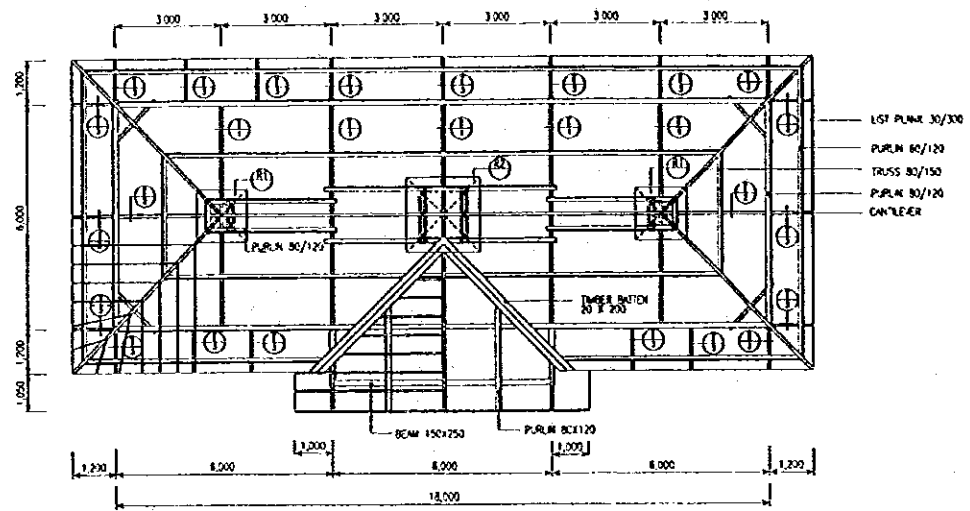
THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT

PROVINCE: CENTRAL JAWA
PROJECT NAME: JATUNSELUMA FLOOD CONTROL PROJECT
COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT
BARU PUMPING STATION COMPLEX
COLUMN, TIE BEAM AND FRAMING ELEVATION
MANAGEMENT OFFICE

DISTRICT: SEMARANG CITY
DRAWING NO: NGCS-2010-PS-P-04-00
SHEET NO: 98

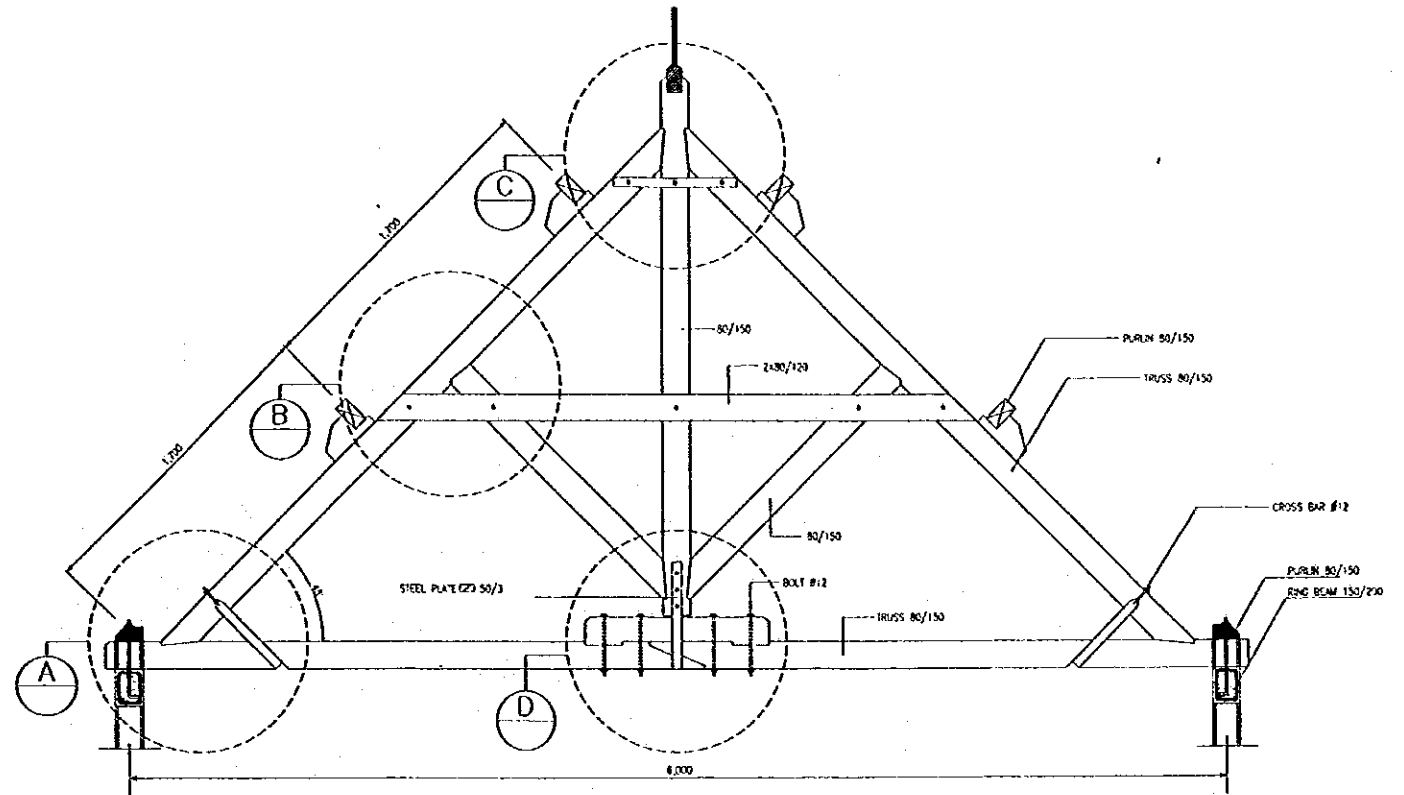
DESIGNER: [Signature]
CHECKER: [Signature]
CHIEF OF PLANNING AND DESIGN
PROJECT MANAGER

NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED



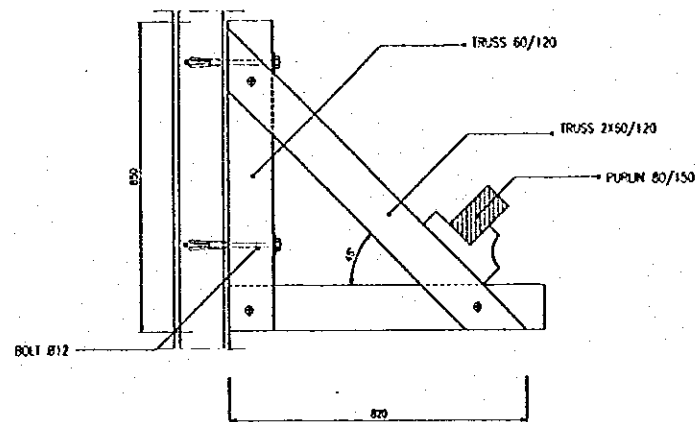
ROOF PLAN
SCALE A

C3/202



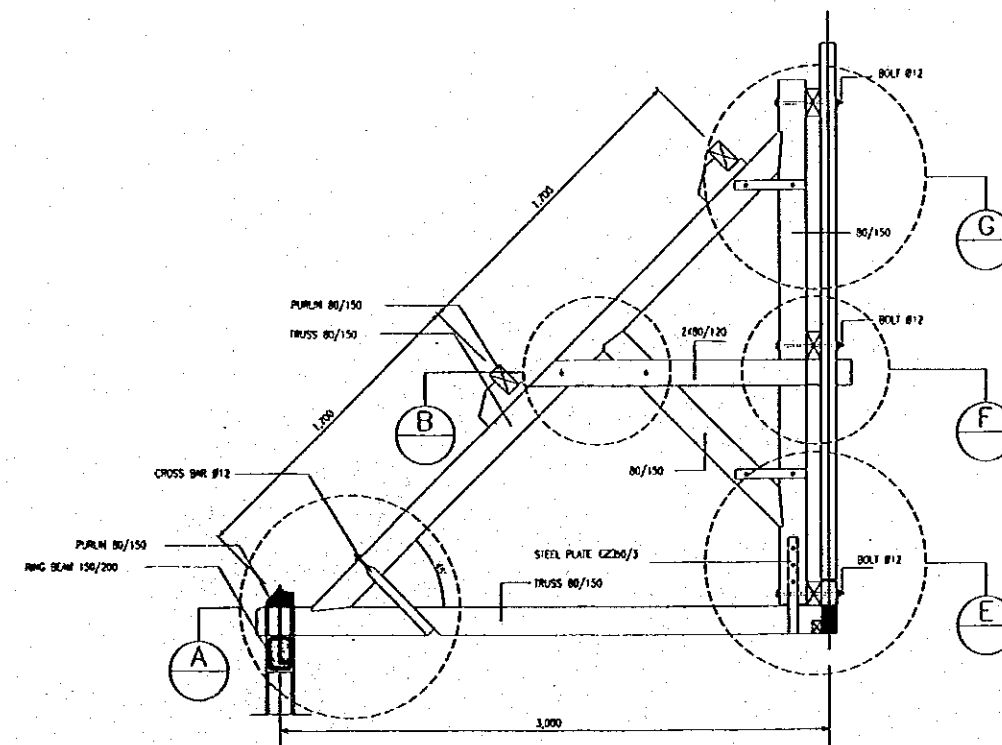
TRUSS TYPE T1
SCALE B

C3/202



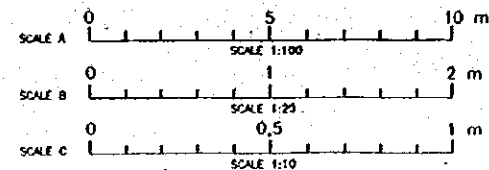
TRUSS TYPE T3
SCALE C

C3/202



TRUSS TYPE T2
SCALE B

C3/202



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

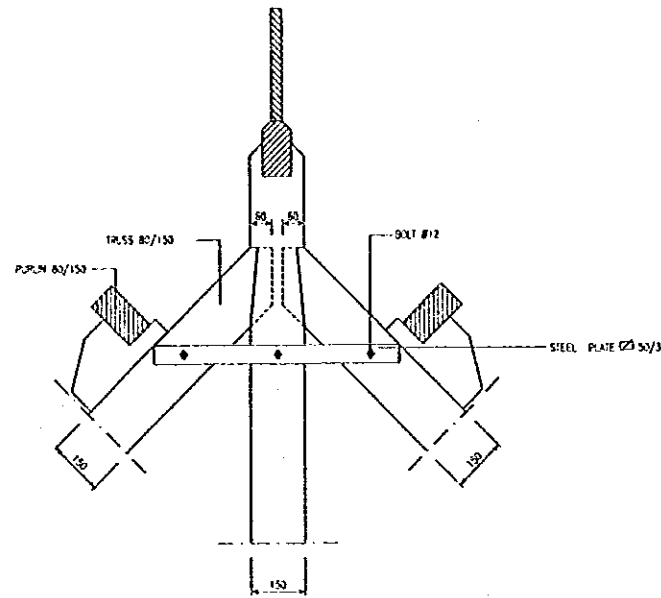
PROVINCE: CENTRAL JAWA
PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCE DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
DISTRICT: SEMARANG CITY
DRAWING NO.: C3-202/1-PS-F-04-04
SHEET NO.: 96
CONTRACT NO.:

JRATUNSELUMA FLOOD CONTROL PROJECT
COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT
BARU PUMPING STATION COMPLEX
ROOF STRUCTURE PLAN & TYPICAL
MANAGEMENT OFFICE

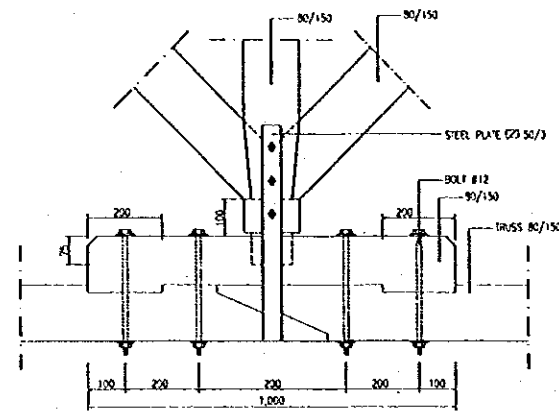
JAPAN INTERNATIONAL COOPERATION AGENCY
CIVIL ENGINEERING CENTER IN ASSOCIATION WITH
PACIFIC CONSULTANTS INTERNATIONAL, INC.
PACIFIC CONSULTANTS INTERNATIONAL, INC.

DESIGNED: [Signature]
CHECKED: [Signature]
DATE:

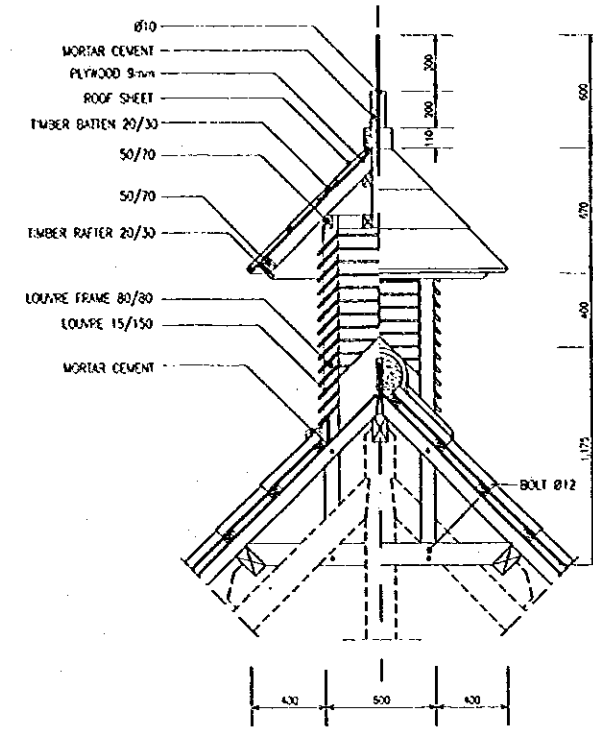
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PROJECT MANAGER



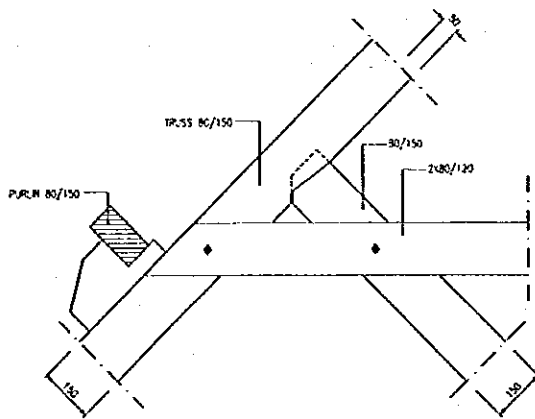
DETAIL C
SCALE C



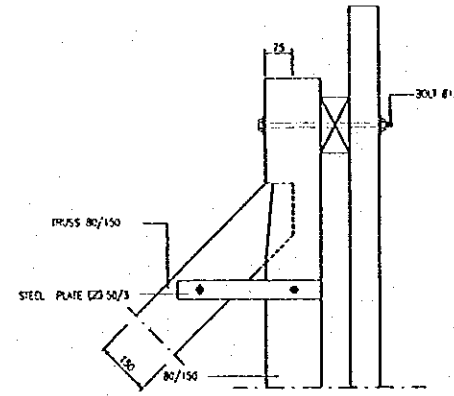
DETAIL D
SCALE C



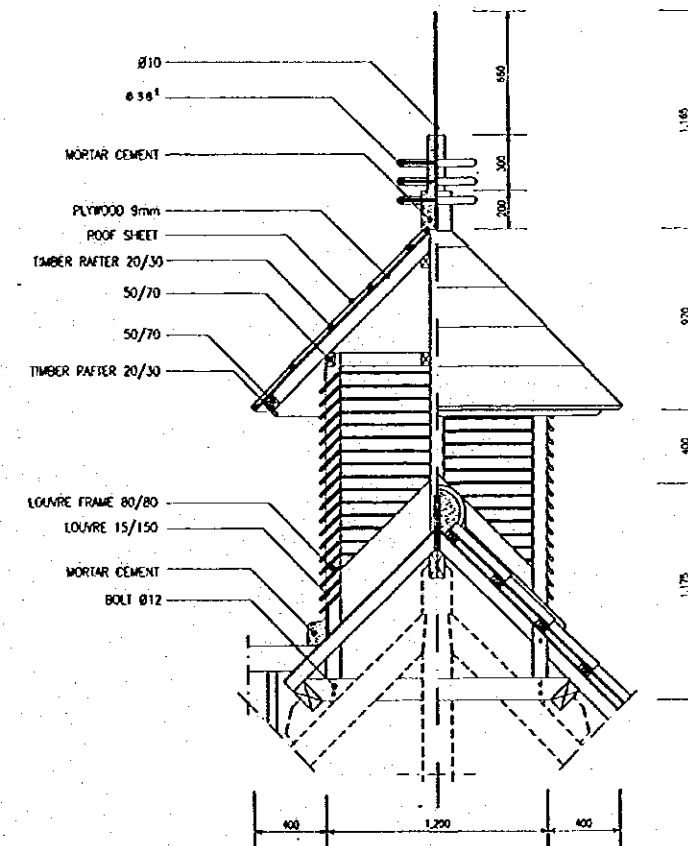
DETAIL R1
SCALE B



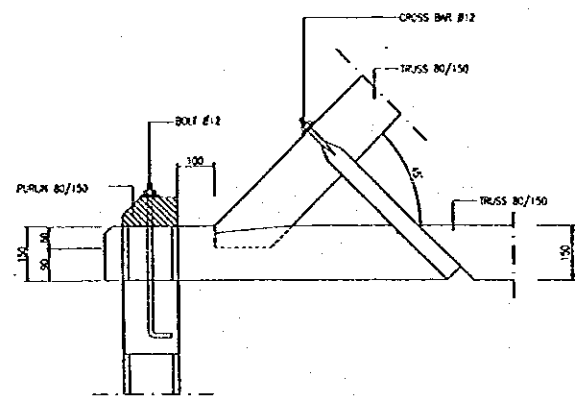
DETAIL B
SCALE C



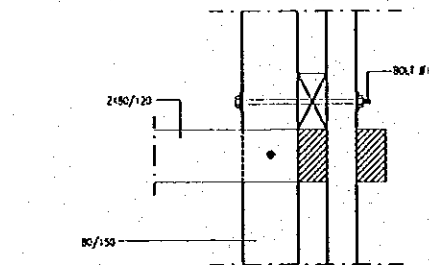
DETAIL G
SCALE C



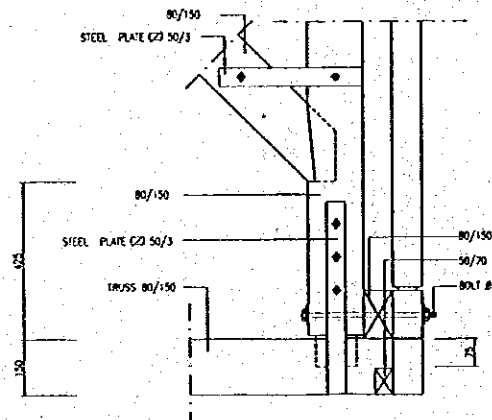
DETAIL R2
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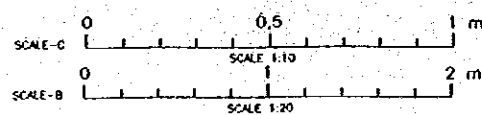
DETAIL A
SCALE C



DETAIL F
SCALE C

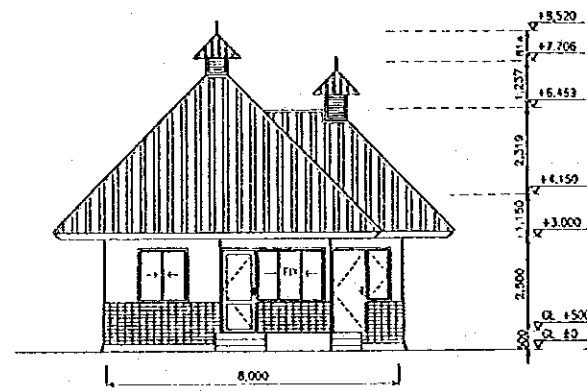


DETAIL E
SCALE C

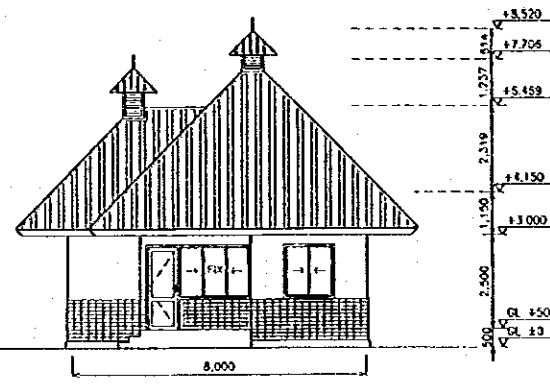


NO	DATE	REVISIONS	ORIGINATOR	DESIGNED	APPROVED

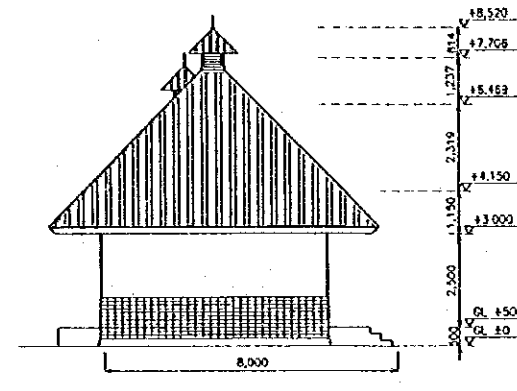
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DISCRETORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAYA
IRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT BARU PUMPING STATION COMPLEX DETAIL TRUSS STRUCTURE MANAGEMENT OFFICE		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT BY BRANGKAI IN THE REPUBLIC OF INDONESIA
JAWA INTERNATIONAL CONSULTING ENGINEERS PT. ENGINEERING CONSULTING AND ARCHITECTURE INTERNATIONAL AND PARTNER INTERNATIONAL INC.		DISTRICT SEMARANG CITY
DESIGNED <i>[Signature]</i>	CHECKED <i>[Signature]</i>	DRAWING NO. CS-203-V-P2-A-B4-09 SHEET NO. 97
APPROVED CHIEF OF PLANNING AND DESIGN <i>[Signature]</i>	PROJECT MANAGER <i>[Signature]</i>	DATE CONTRACT NO.



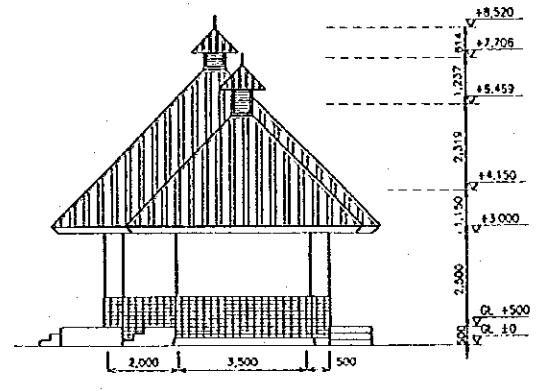
EAST ELEVATION
SCALE A



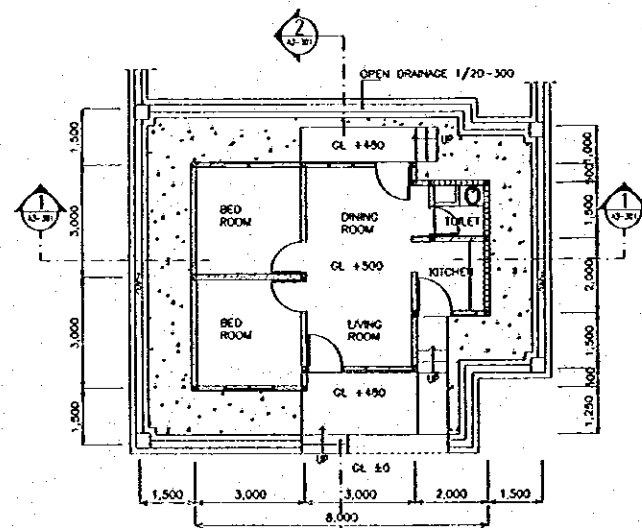
WEST ELEVATION
SCALE A



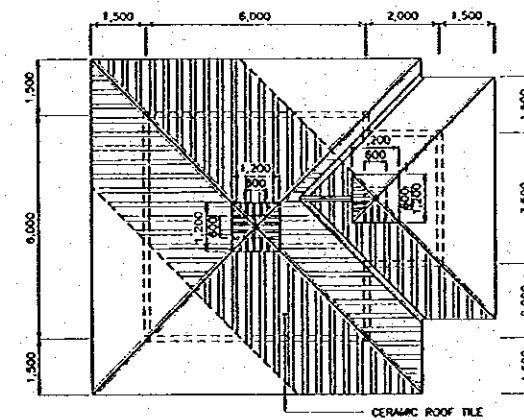
SOUTH ELEVATION
SCALE A



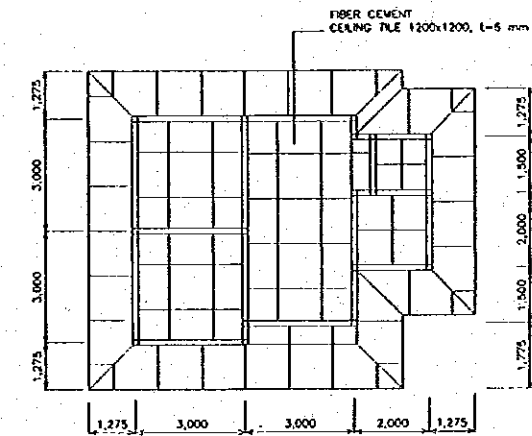
NORTH ELEVATION
SCALE A



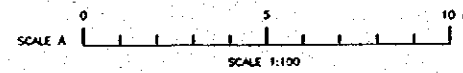
FLOOR PLAN
SCALE A



ROOF PLAN
SCALE A

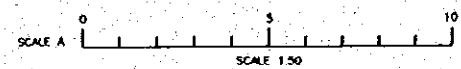
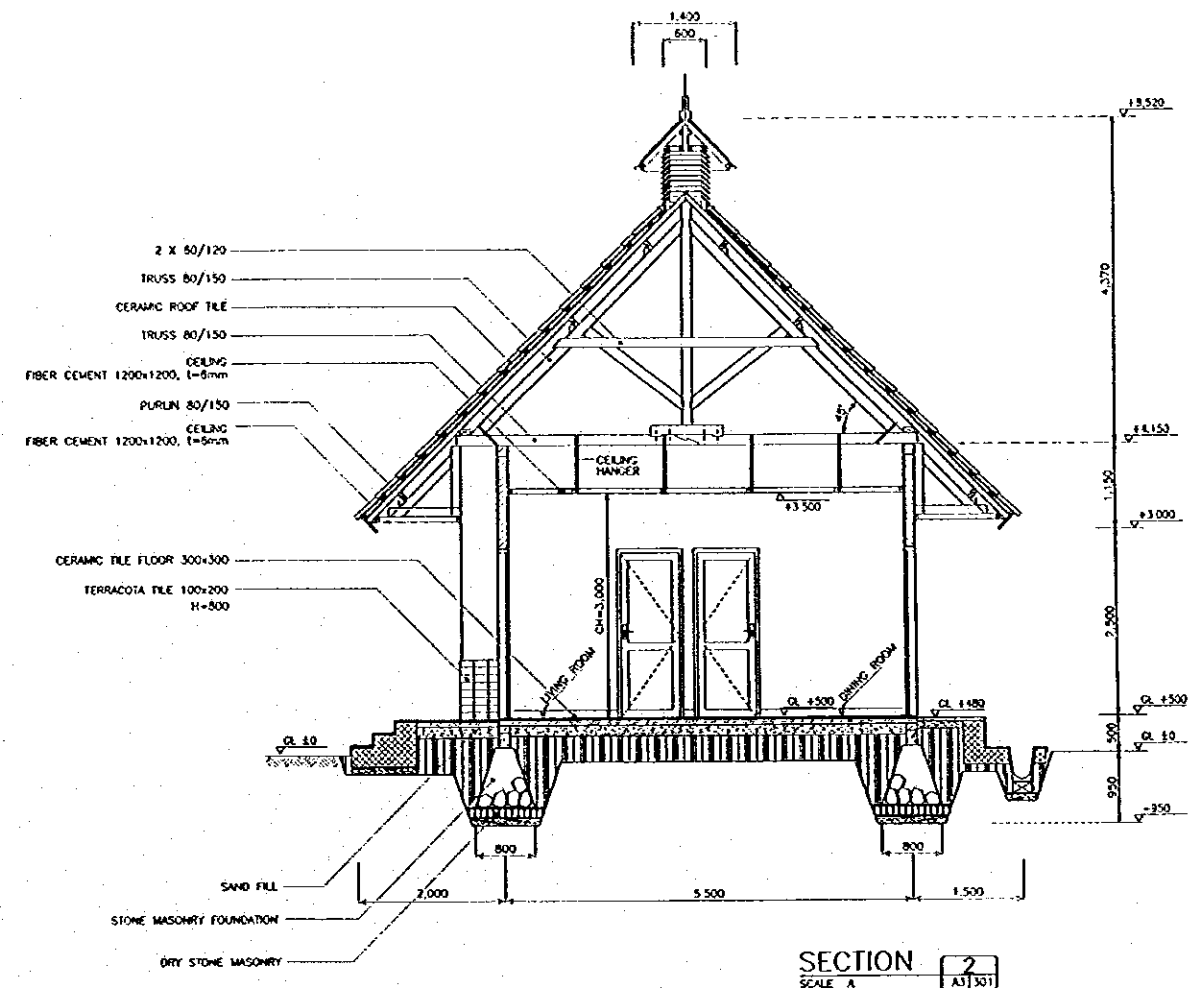
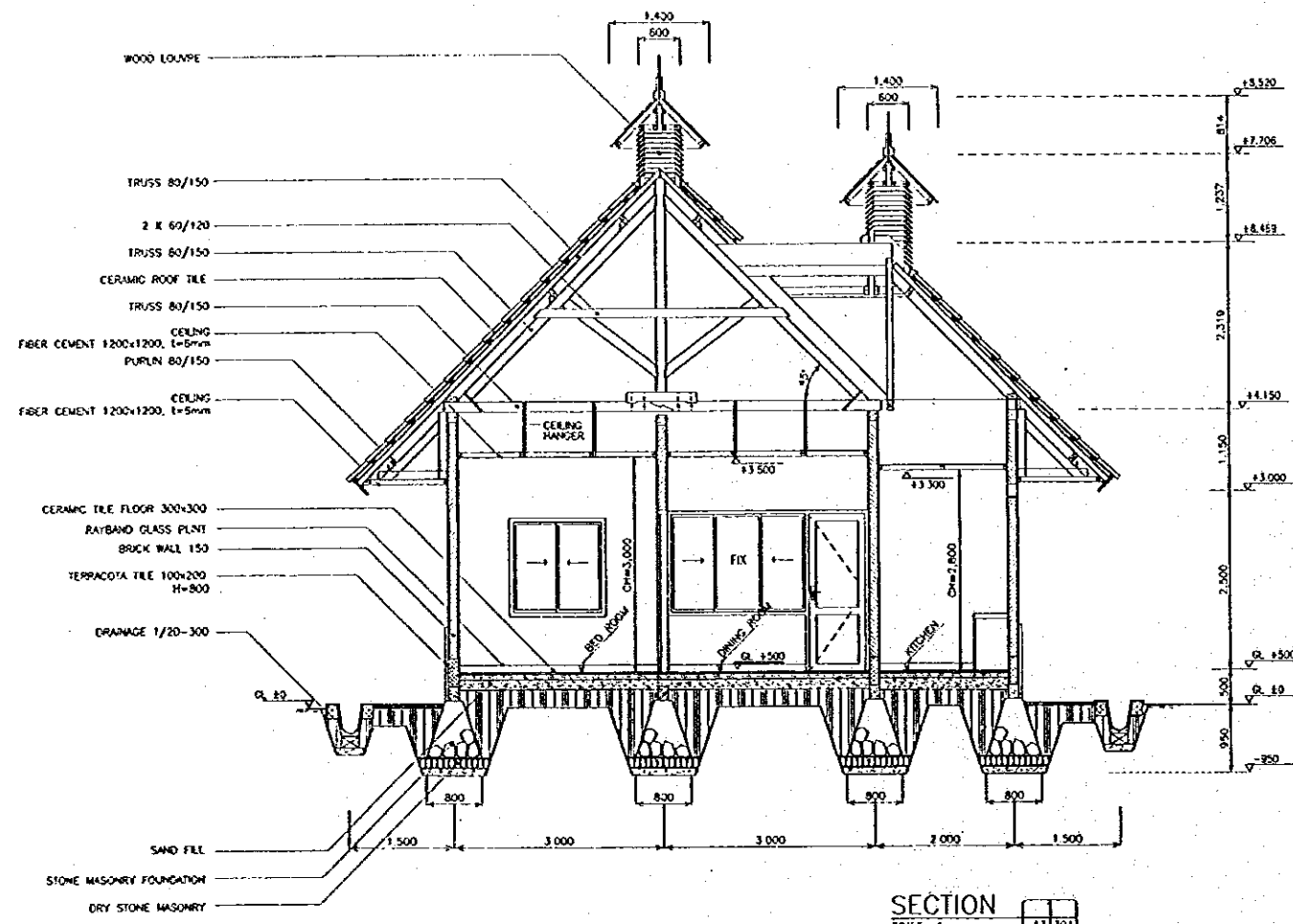


REFLECTED CEILING PLAN
SCALE A



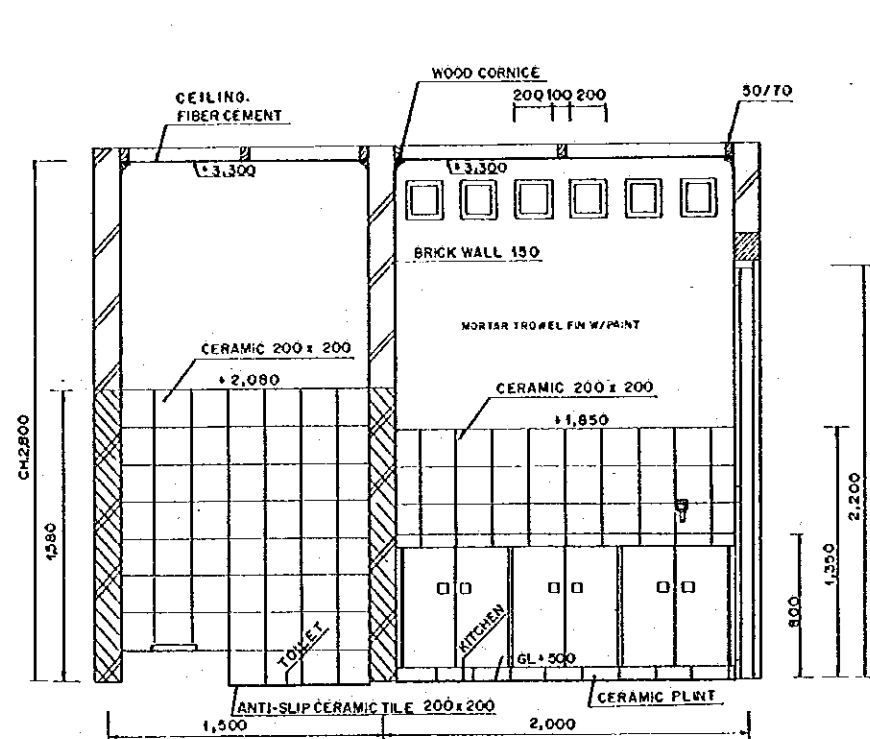
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND AND DIRECTORATE GENERAL OF HUMAN SETTLEMENTS		PROVINCE CENTRAL JAWA
IRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT BARU PUMPING STATION COMPLEX FLOOR PLAN, ROOF PLAN, CEILING PLAN & ELEVATION STAFF HOUSE		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT OF SEMARANG IN THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY CITY ENGINEERING CONSULTANTS IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL, INC. PACICO INTERNATIONAL INC.		DISTRICT SEMARANG CITY DKA WING NO. A3-300/J. P.3-P.04-08 SHEET NO. 98
DESIGNED CHECKED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		DATE CONTRACT NO.

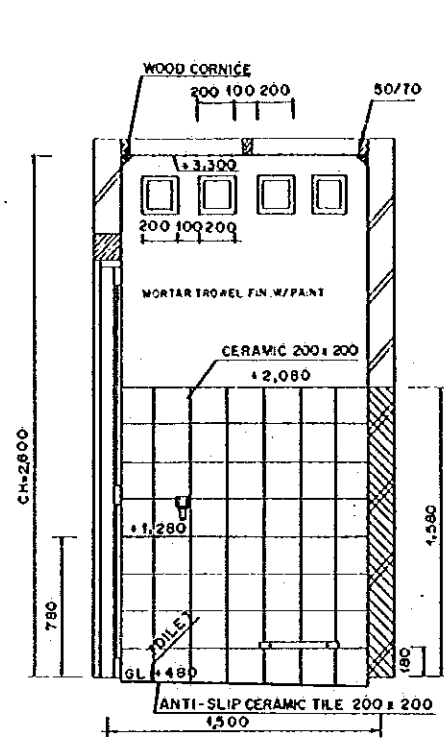


NO.	DATE	REVISIONS	PREPARED	DESIGNED	APPROVED

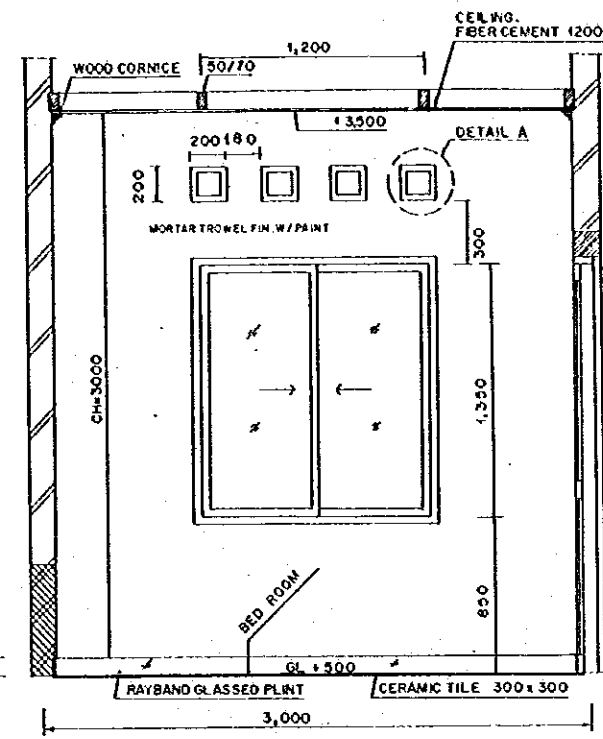
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
BATUNGSELUNA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT BARU PUMPING STATION COMPLEX SECTION STAFF HOUSE		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY DRAWING NO. AJ-30151-PS-P-06-87 SHEET NO. 09
LAPAN INTERNATIONAL COOPERATION AGENCY CTE ENGINEERING CO., LTD. PACIFIC CONSULTANTS INTERNATIONAL AND PARCO INTERNATIONAL INC.	DESIGNED CHECKED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER	DATE CONTRACT NO.



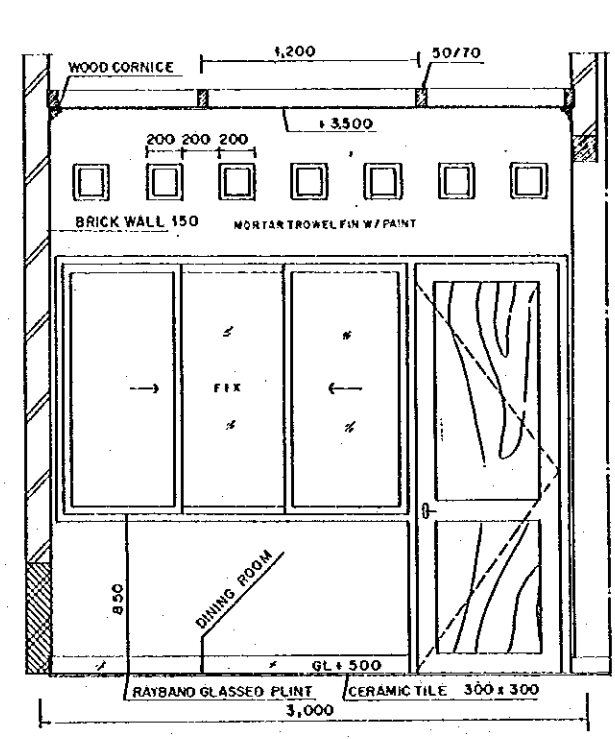
SECTION 1
SCALE .8
A3 302



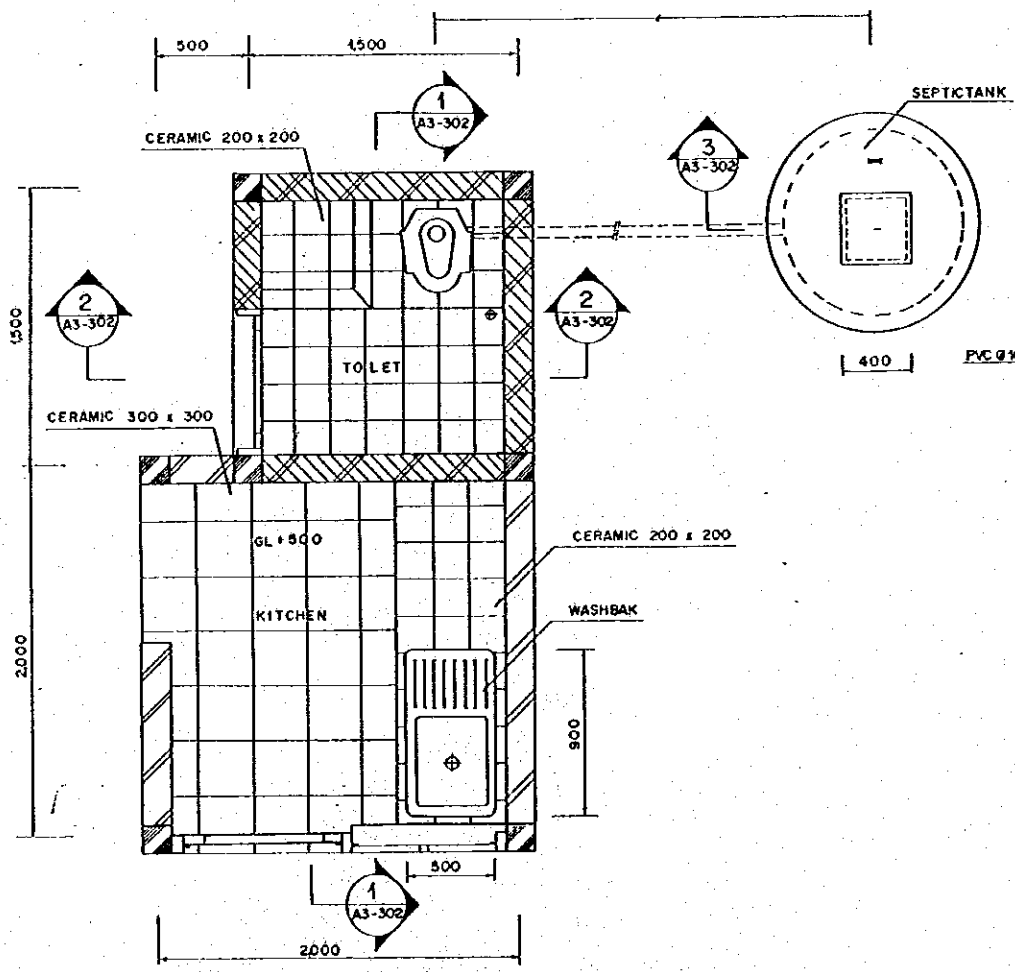
SECTION 2
SCALE .8
A3 302



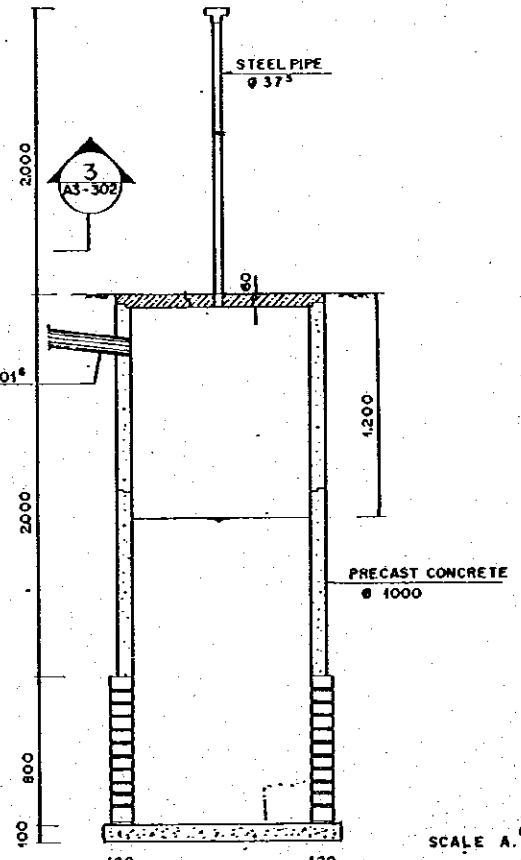
INTERIOR ELEVATION 1
SCALE .8
A3 302



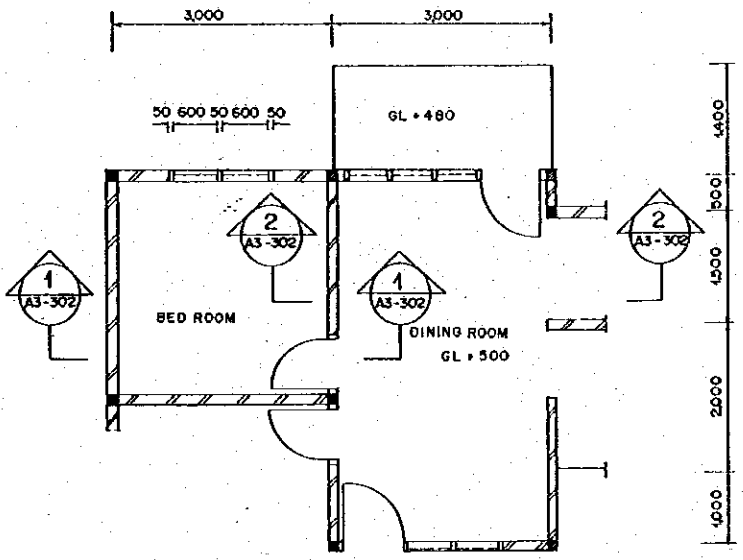
INTERIOR ELEVATION 2
SCALE .8
A3 302



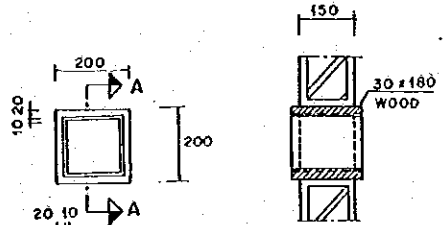
DETAIL PLAN KITCHEN & TOILET
SCALE .8
A3 302



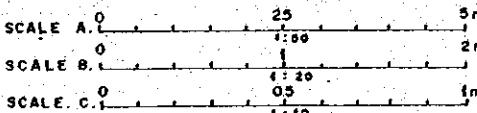
SECTION 3
SCALE .8
A3 302



INTERIOR ELEVATION KEY PLAN
SCALE .A
A3 302



DETAIL A
SCALE .C
A3 302



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

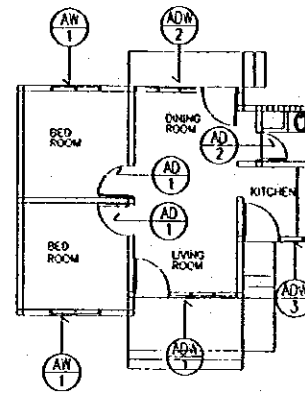
JATUNSELUNA FLOOD CONTROL PROJECT
COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT
BARU PUMPING STATION & DETAIL PLAN
STAFF HOUSE

LABAN INTERNATIONAL COOPERATION AGENCY
CTI ENGINEERING CO., LTD. | SHANGHAI CHINA
PACIFIC CONSULTANTS INTERNATIONAL AND
PARCO INTERNATIONAL

DESIGNED: [Signature]
CHECKED: [Signature]
DATE: [Date]
CONTRACT NO. [Number]

PROVINCE: CENTRAL JAWA
PROJECT NAME: FLOOD CONTROL URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT I IN SEMARANG IN THE REPUBLIC OF INDONESIA
DISTRICT: SEMARANG - CITY
DRAWING NO. A3-302 U-P3-P-84-34
SHEET NO. 100

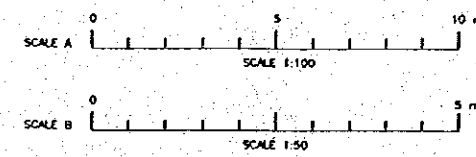
CHIEF OF PLANNING AND DESIGN
PROJECT MANAGER



KEY PLAN
SCALE A

MARK	QTY	AD 1	1	AD 2	1	AD 3	1
SHAPE							
TYPE		SINGLE SWING & SLIDING		SINGLE SWING, SLIDING & FIX		SINGLE SWING	
MATERIAL	FRAME	ALU	ANO	ALU	ANO	ALU	ANO
FINISH	PANEL	PLYWOOD 6 MM THICK/FN WALL PAPER & GLASS	PRG	PLYWOOD 6 MM THICK/FN WALL PAPER & GLASS	PRG	PLYWOOD 6 MM THICK/FN WALL PAPER & GLASS	PRG
GLASS		CLEAR GLASS 5 MM THICK		CLEAR GLASS 5 MM THICK		CLEAR GLASS 5 MM THICK	
HARDWARE		METAL FITTINGS COMPLETE SET		METAL FITTINGS COMPLETE SET		METAL FITTINGS COMPLETE SET	
POSITION		GUEST ROOM		LIVING ROOM		KITCHEN ROOM	
MARK	QTY	AD 1	2	AD 2	1	AW 1	2
SHAPE							
TYPE		SINGLE SWING		SINGLE SWING		SLIDING	
MATERIAL	FRAME	ALU	ANO	ALU	ANO	ALU	ANO
FINISH	PANEL	PLYWOOD 6 MM THICK	PRG	PLYWOOD 6 MM THICK	PRG	GLASS	
GLASS						CLEAR GLASS 5 MM THICK	
HARDWARE		METAL FITTINGS COMPLETE SET		METAL FITTINGS COMPLETE SET		METAL FITTINGS COMPLETE SET	
POSITION		BED ROOM		TOILET		BED ROOM	

DOOR & WINDOW SCHEDULE
SCALE B



LEGEND :

- AD : ALUMINUM DOOR
- AW : ALUMINUM WINDOW
- AL : ALUMINUM LOUVRE

MATERIAL :

- ALU : ALUMINUM
- ANO : ANODIZED
- PRG : POLYUR . CLEAR SEMI-GLASS

DOORS & WINDOWS SYMBOL

REFERENCE NO.

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

JRATUNSELUNA FLOOD CONTROL PROJECT
COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT
BARU PUMPING STATION COMPLEX
KEY PLAN & DOOR / WINDOW SCHEDULE
STAFF HOUSE

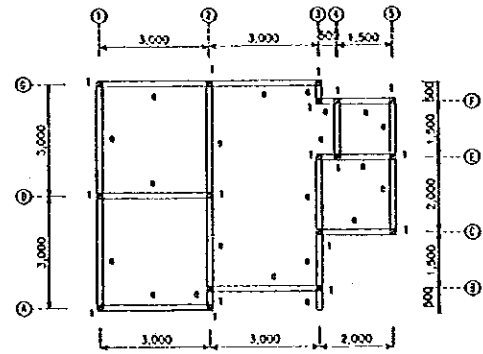
PROVINCE: CENTRAL JAWA
PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN BIRAHANG BY THE REPUBLIC OF INDONESIA
DISTRICT: SEMARANG CITY
DRAWING NO: AS-303-U-PS-P-04-99
SHEET NO: 101

DATE: _____ CONTRACT NO: _____

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

DATE OF PLANNING AND DESIGN: _____
PROJECT MANAGER: _____

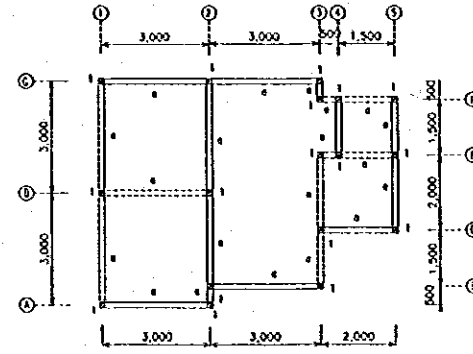
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED



COLUMN AND RING BEAM PLAN +4,150

SCALE A

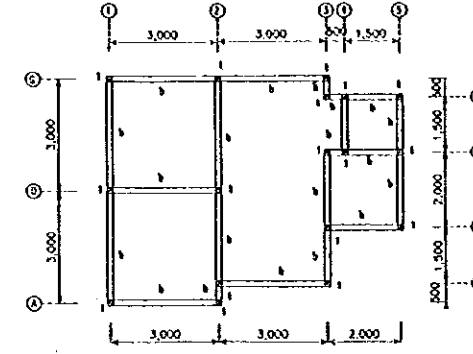
C3 301



COLUMN AND TIE BEAM PLAN +2,450

SCALE A

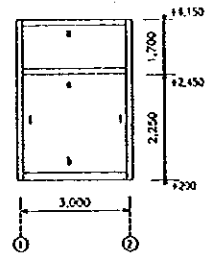
C3 301



COLUMN AND TIE BEAM PLAN +200

SCALE A

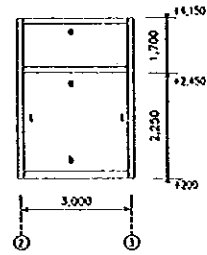
C3 301



FRAMING LINE A

SCALE A

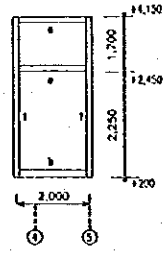
C3 301



FRAMING LINE B

SCALE A

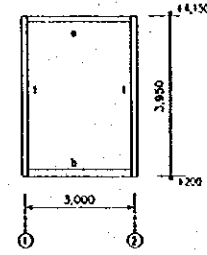
C3 301



FRAMING LINE C

SCALE A

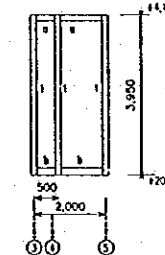
C3 301



FRAMING LINE D

SCALE A

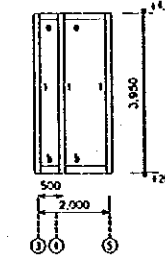
C3 301



FRAMING LINE E

SCALE A

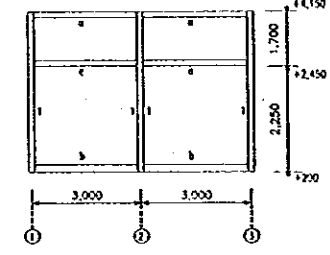
C3 301



FRAMING LINE F

SCALE A

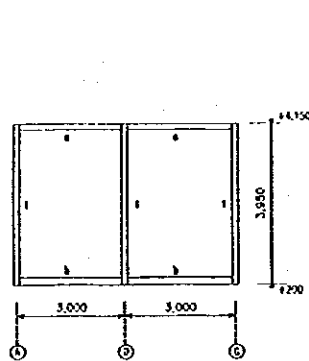
C3 301



FRAMING LINE G

SCALE A

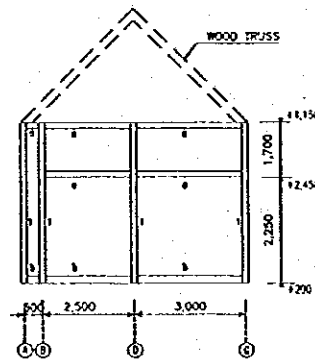
C3 301



FRAMING LINE 1

SCALE A

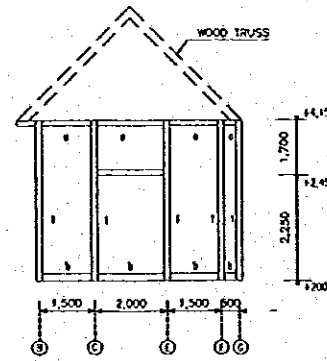
C3 301



FRAMING LINE 2

SCALE A

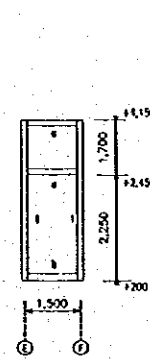
C3 301



FRAMING LINE 3

SCALE A

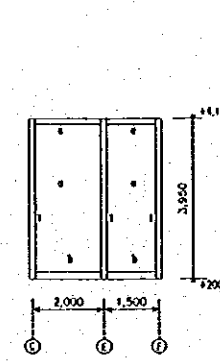
C3 301



FRAMING LINE 4

SCALE A

C3 301



FRAMING LINE 5

SCALE A

C3 301

TYPICAL SECTION OF COLUMN REINFORCEMENT	
	COLUMN TYPE ①
ARRANGEMENT	4 #12
STIRRUP	#8-150
BOTTOM	-
STIRRUP	-

TYPICAL SECTION OF COLUMN REINFORCEMENT

SCALE B

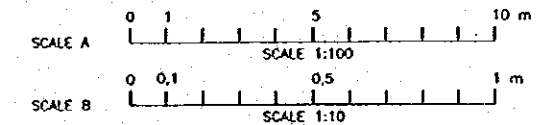
C3 301

TYPICAL SECTION OF BEAM REINFORCEMENT		
	BEAM TYPE ②	BEAM TYPE ③
ARRANGEMENT	2 #12	2 #12
TOP	-	-
MIDDLE	-	-
BOTTOM	2 #12	2 #12
STIRRUP	#8-150	#8-150

TYPICAL SECTION OF BEAM REINFORCEMENT

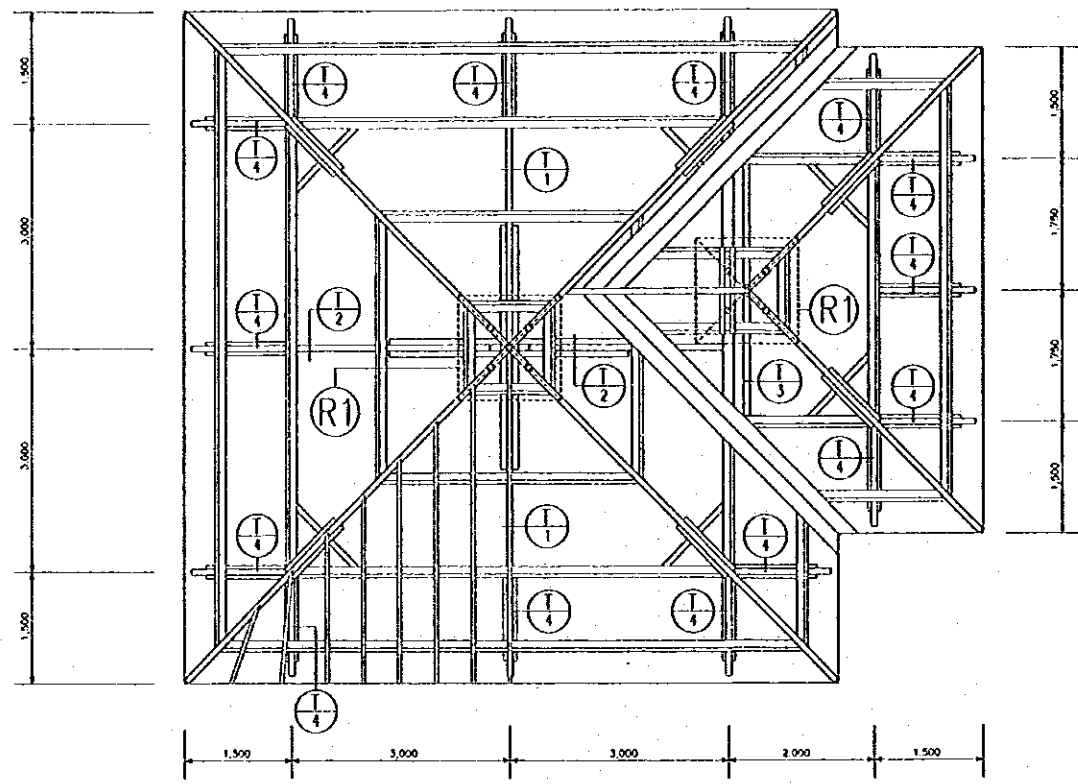
SCALE B

C3 301

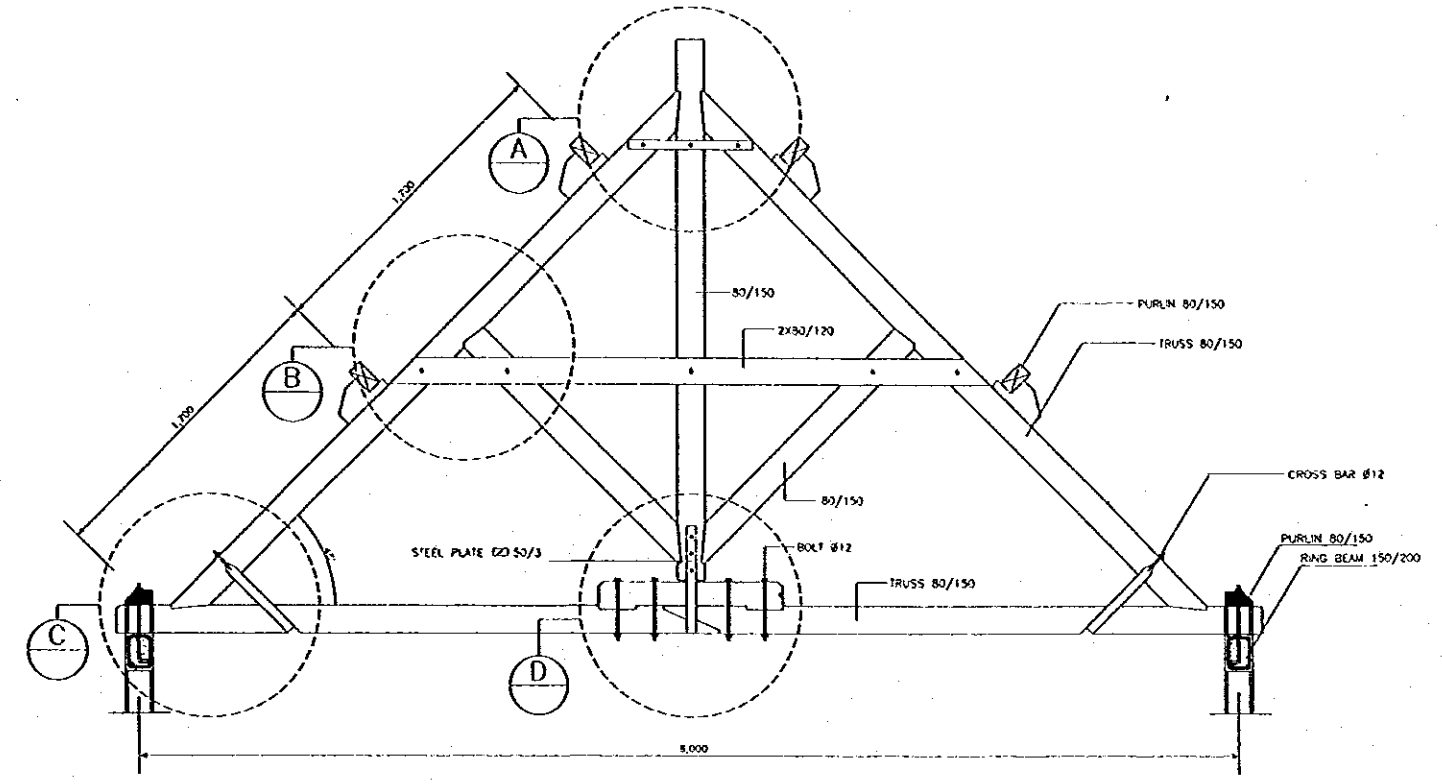


THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAYA
JRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT BARU PUMPING STATION COMPLEX COLUMN, TIE BEAM, AND FRAMING ELEVATION STAFF HOUSE		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT OF SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY DRAWING NO. C3-301/1-PB-P-BM-41 SHEET NO. 103
JAWA INTERNATIONAL CONSULTING AGENCY PT. ENGINEERING CO. LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL INC PACIFIC INTERNATIONAL, INC.	DESIGNED CHECKED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER	DATE CONTRACT NO.

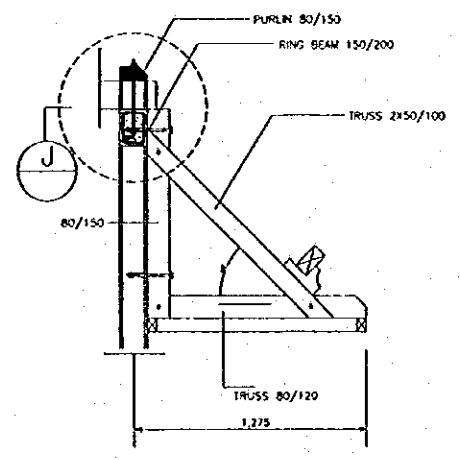
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED



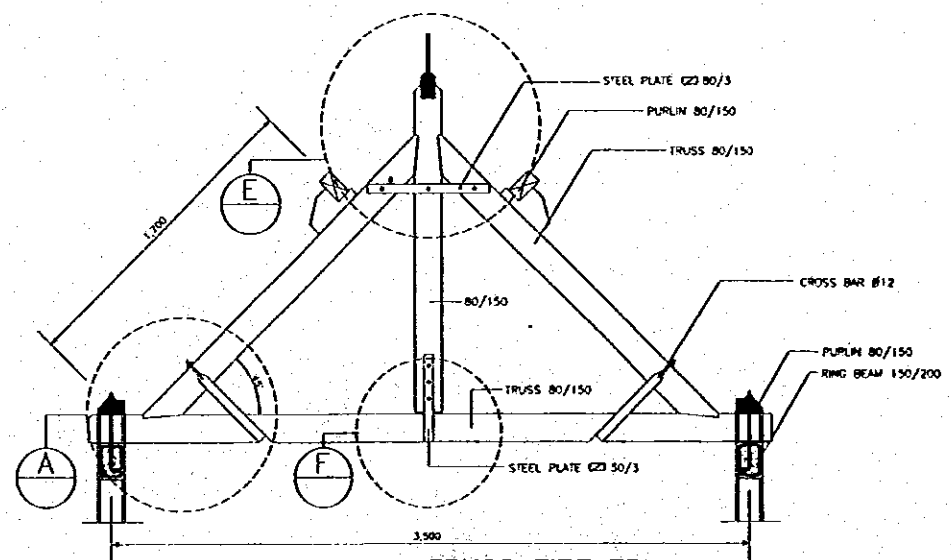
ROOF PLAN
SCALE A



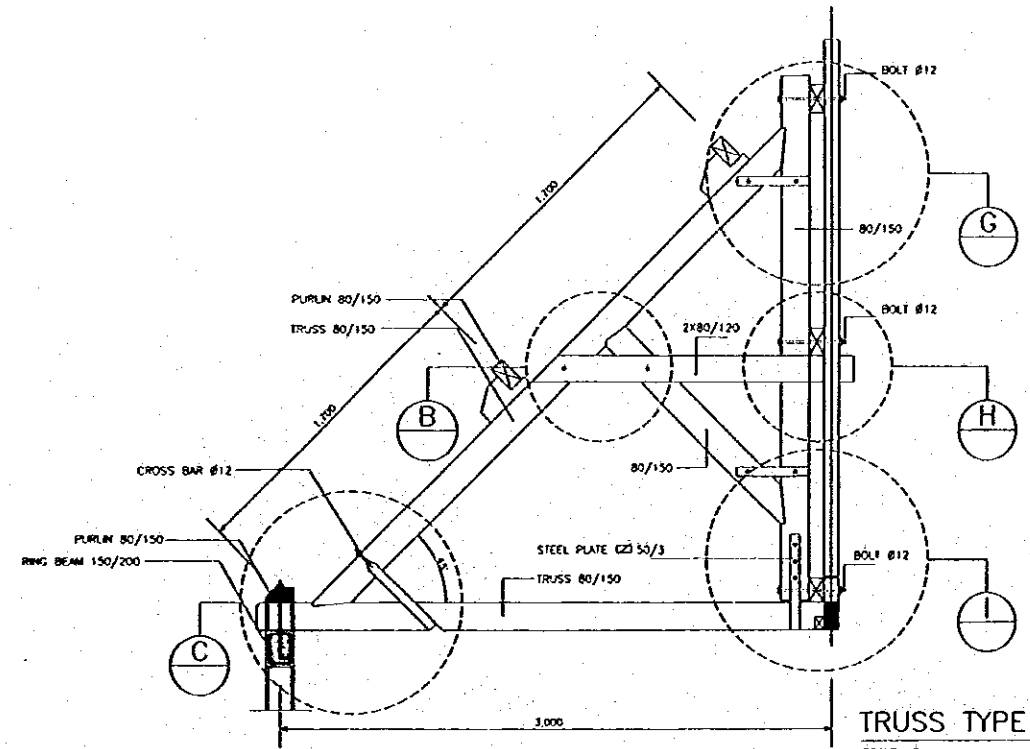
TRUSS TYPE T1
SCALE B



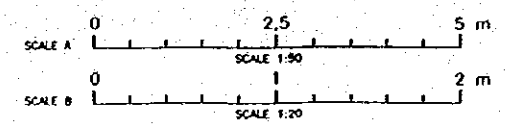
TRUSS TYPE T4
SCALE B



TRUSS TYPE T3
SCALE B



TRUSS TYPE T2
SCALE B



NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

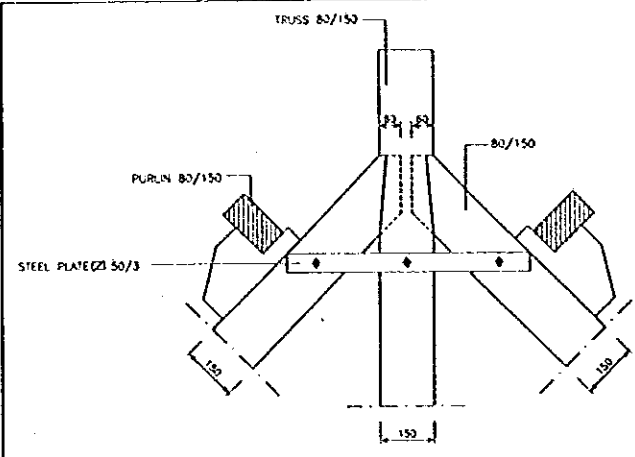
THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT

PROVINCE CENTRAL JAYA
PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG BY THE REPUBLIC OF INDONESIA
DISTRICT SEMARANG CITY
DRAWING NO. C3-302 U-PS-P-04-148
SUBSET NO. 104
DATE CONTRACT NO.

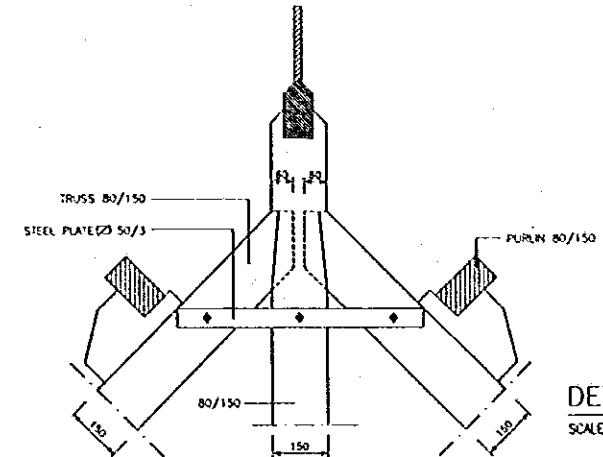
JRATUNSELUMA FLOOD CONTROL PROJECT
COMPONENT 1: URBAN DRAINAGE SYSTEM IMPROVEMENT
BARU PUMPING STATION COMPLEX
ROOF STRUCTURE PLAN & TYPICAL
STAFF HOUSE

JICA INTERNATIONAL COOPERATION AGENCY
CI ENGINEERING CO. LTD. IN ASSOCIATION WITH
PACIFIC CONSULTANTS INTERNATIONAL, INC.
PACIFIC INTERNATIONAL, INC.

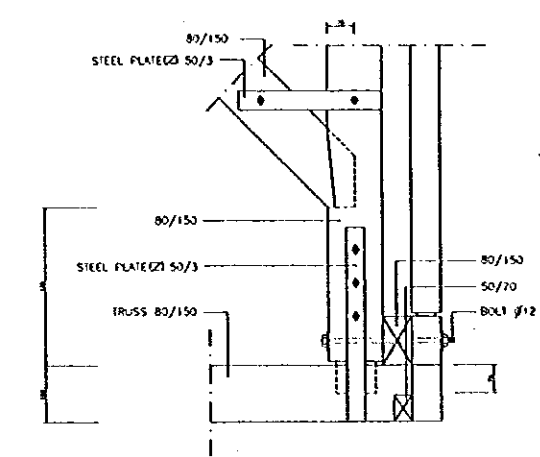
DESIGNER
CHECKED
DATE
PROJECT MANAGER



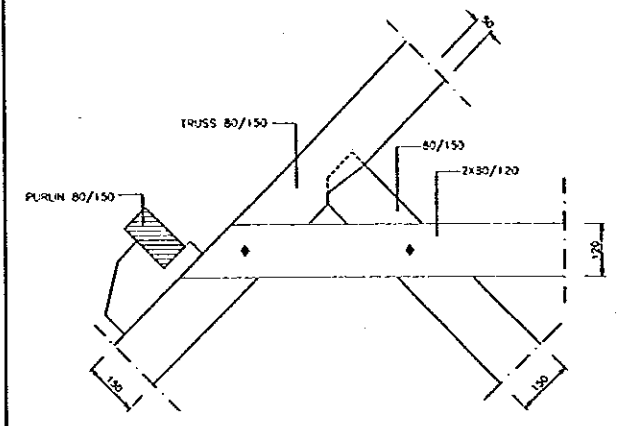
DETAIL A
SCALE C



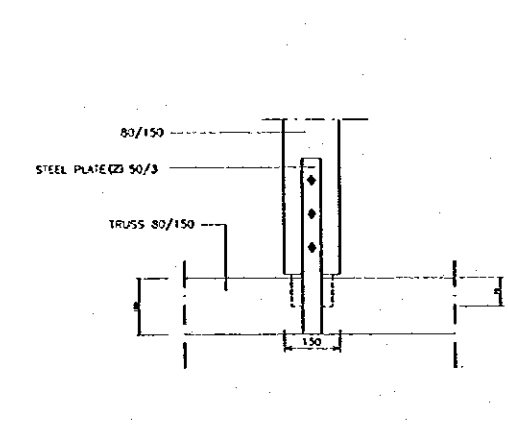
DETAIL E
SCALE C



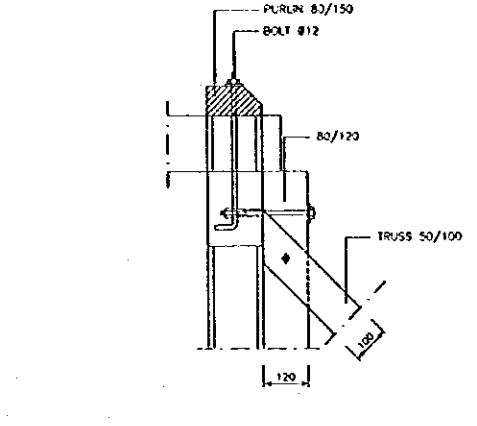
DETAIL I
SCALE C



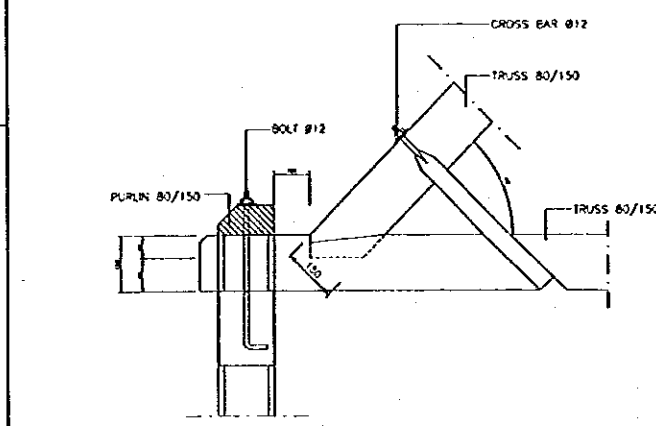
DETAIL B
SCALE C



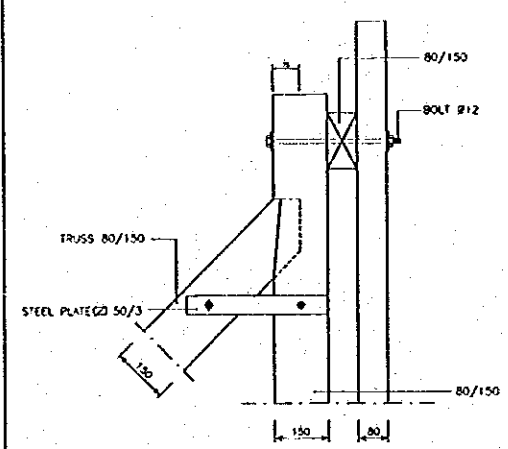
DETAIL F
SCALE C



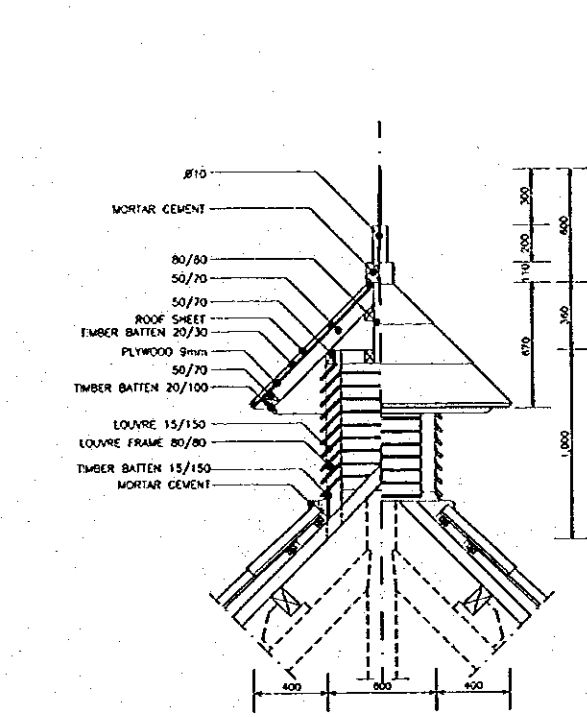
DETAIL J
SCALE C



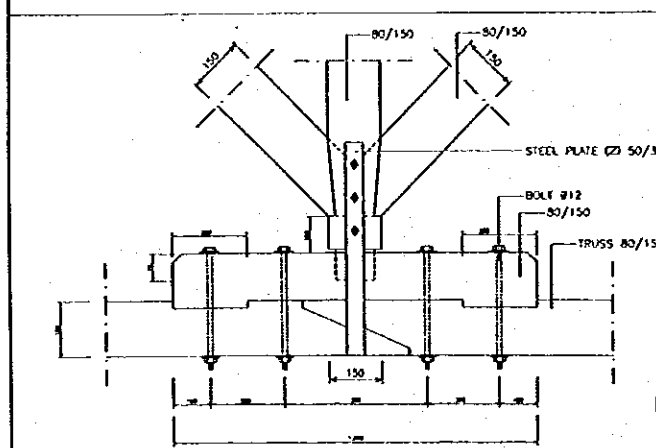
DETAIL C
SCALE C



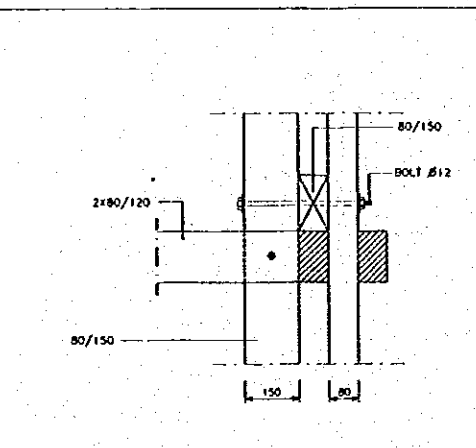
DETAIL G
SCALE C



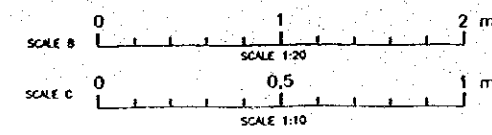
DETAIL R1
SCALE B



DETAIL D
SCALE C



DETAIL H
SCALE C



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

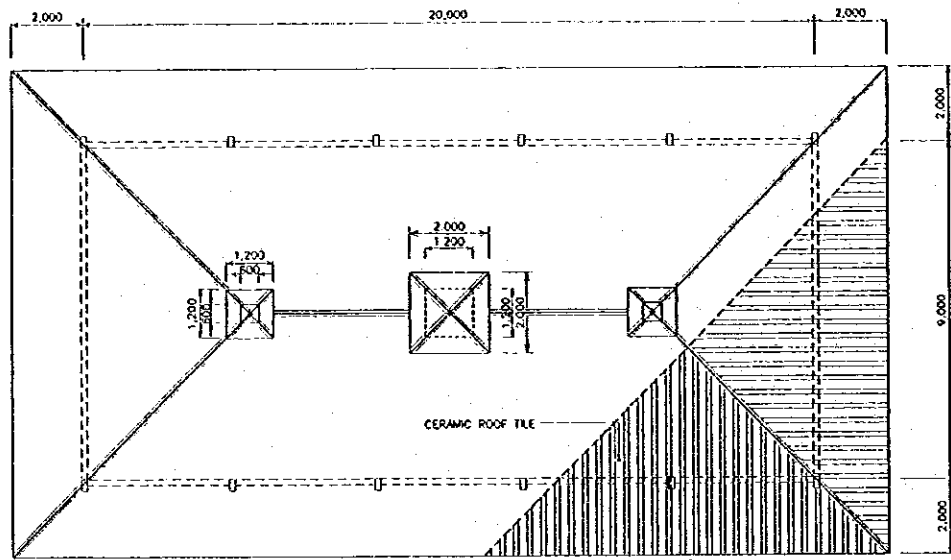
PROVINCE: CENTRAL JAYA
 PROJECT NAME: FLOOD CONTROL, Drainage Development and WATER RESOURCES DEVELOPMENT IN SENARANG IN THE REPUBLIC OF INDONESIA
 DISTRICT: SENARANG CITY
 DRAWING NO: C3-303 U-P8-P-04-45
 SHEET NO: 40B

JRATUNSELUNA FLOOD CONTROL PROJECT
 COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT
 BARU PUMPING STATION COMPLEX
 DETAIL TRUSS STRUCTURE
 STAFF HOUSE

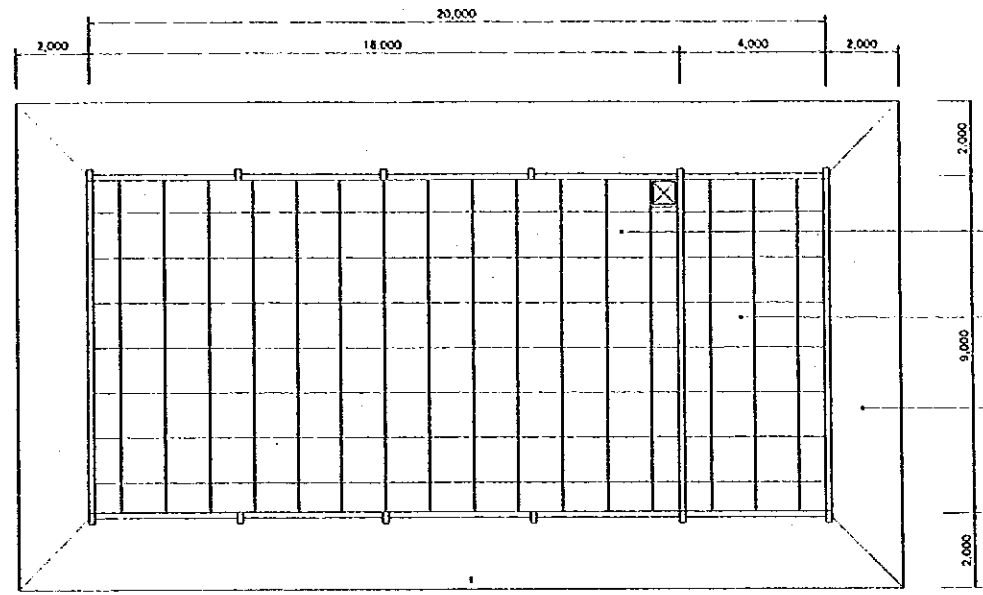
JAPAN INTERNATIONAL COOPERATION AGENCY
 CITY ENGINEERING CO. LTD IN SENARANG CITY
 PACIFIC CONSULTANTS INTERNATIONAL INC
 PACIFIC INTERNATIONAL INC

DESIGNED: [Signature]
 CHECKED: [Signature]
 DATE: [Blank]
 CONTRACT NO.: [Blank]

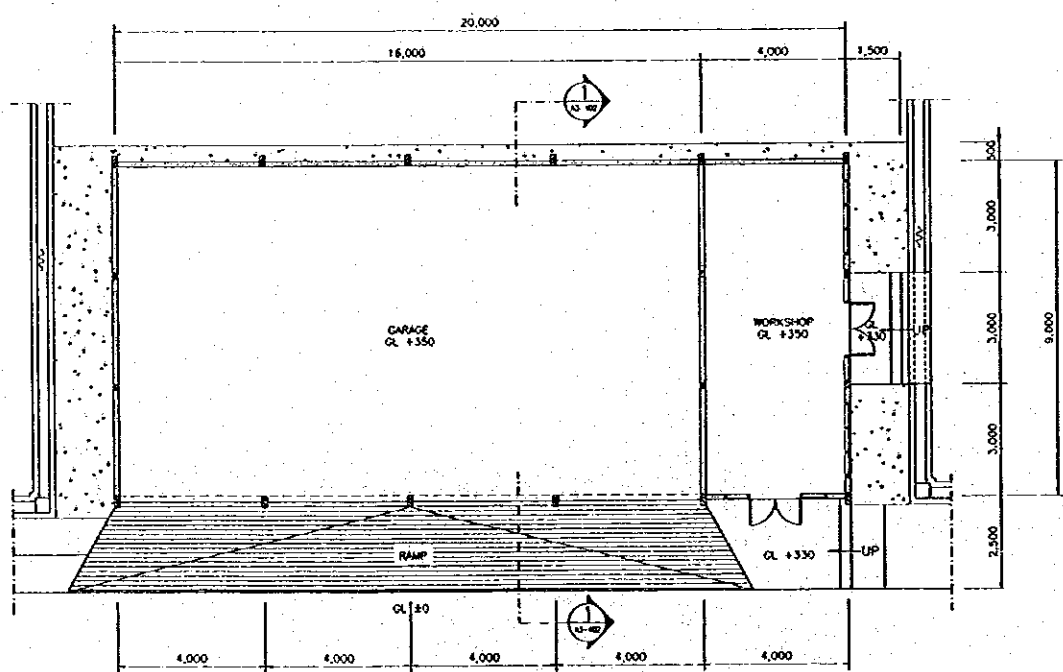
CHIEF OF PLANNING AND DESIGN
 PROJECT MANAGER



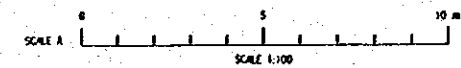
ROOF PLAN
SCALE A A3/400



REFLECTED CEILING PLAN
SCALE A A3/400

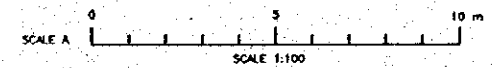
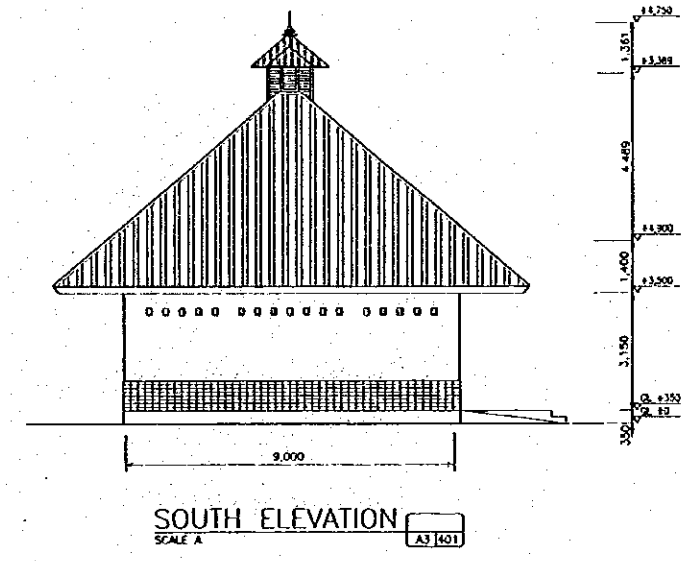
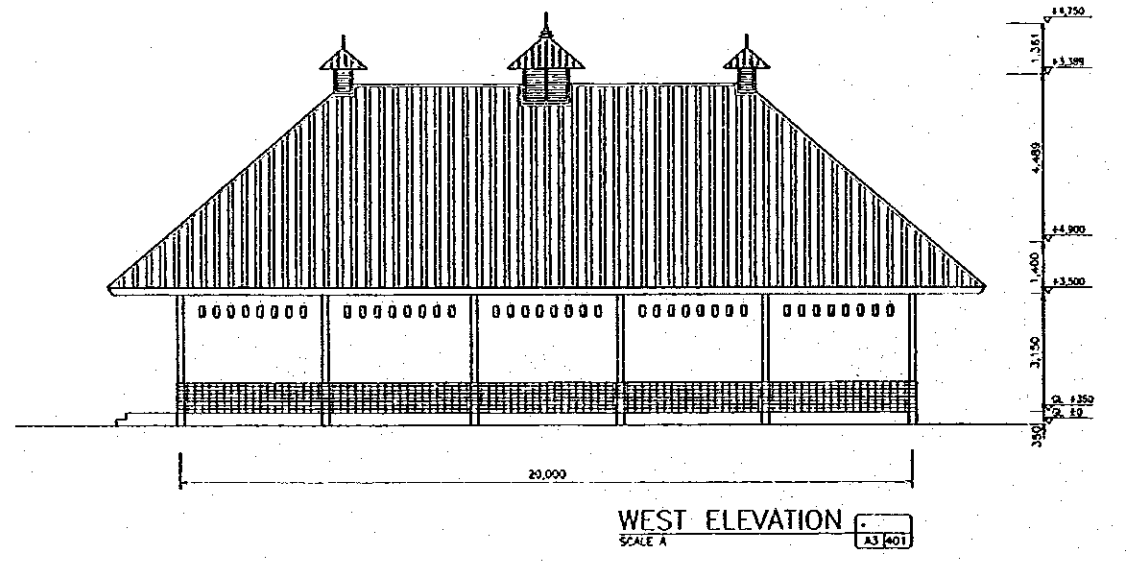
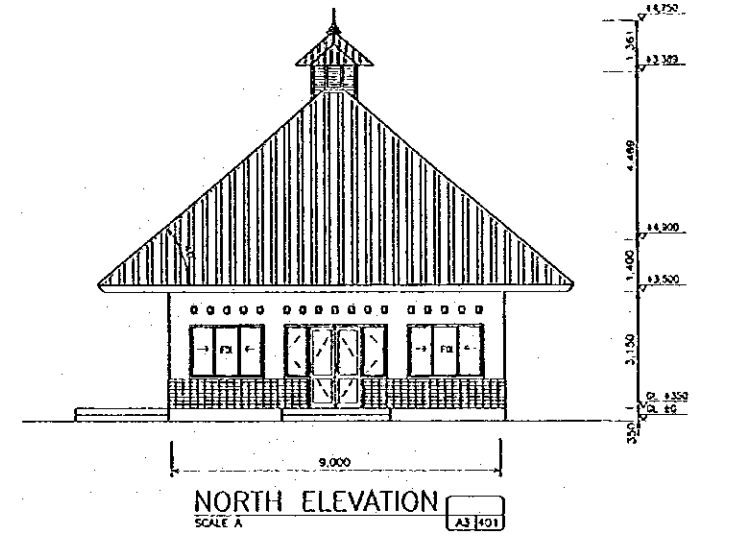
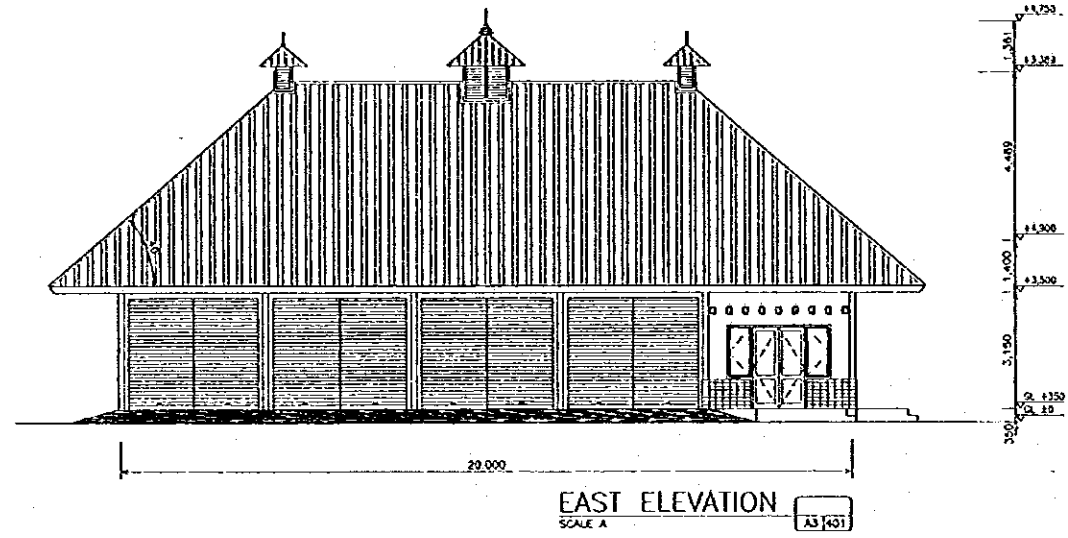


FLOOR PLAN
SCALE A A3/400



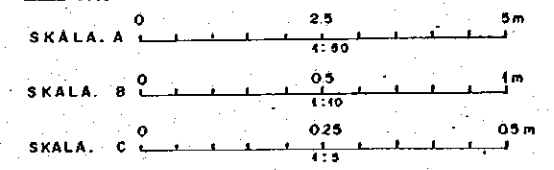
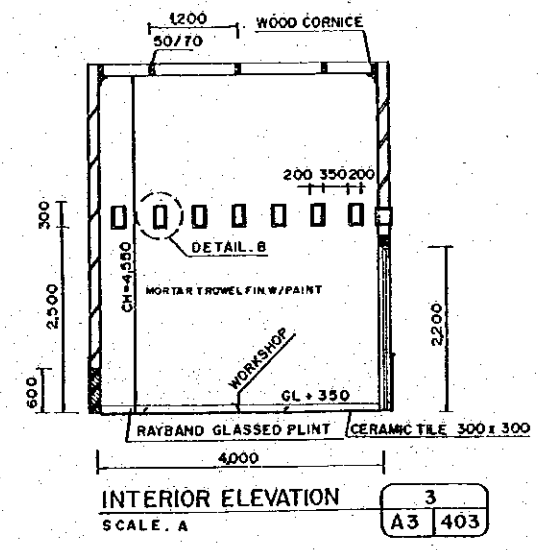
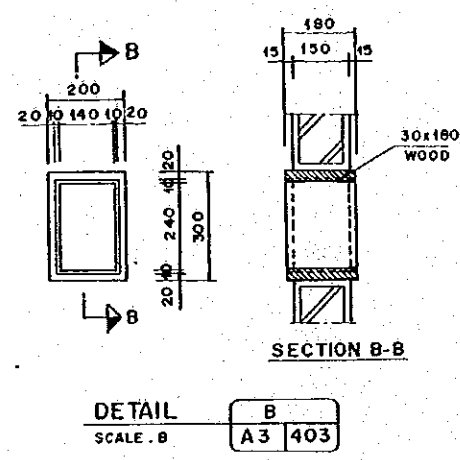
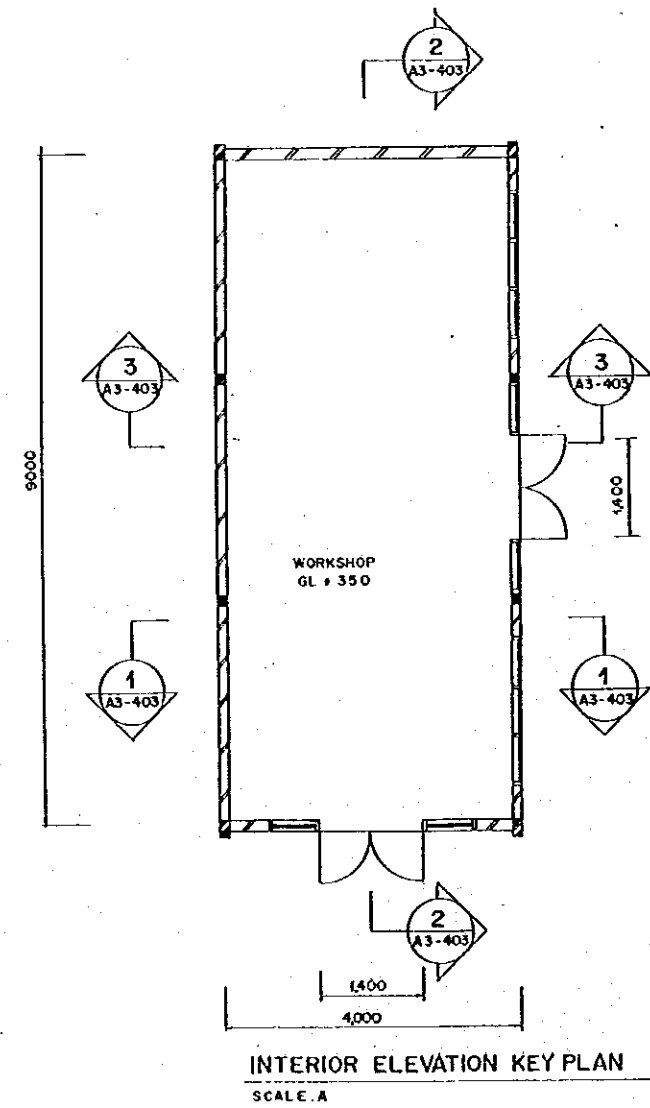
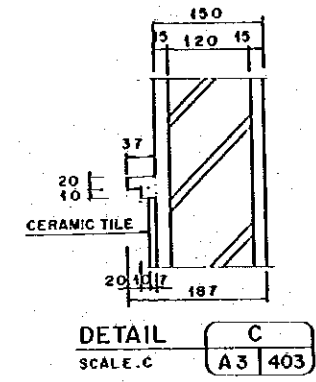
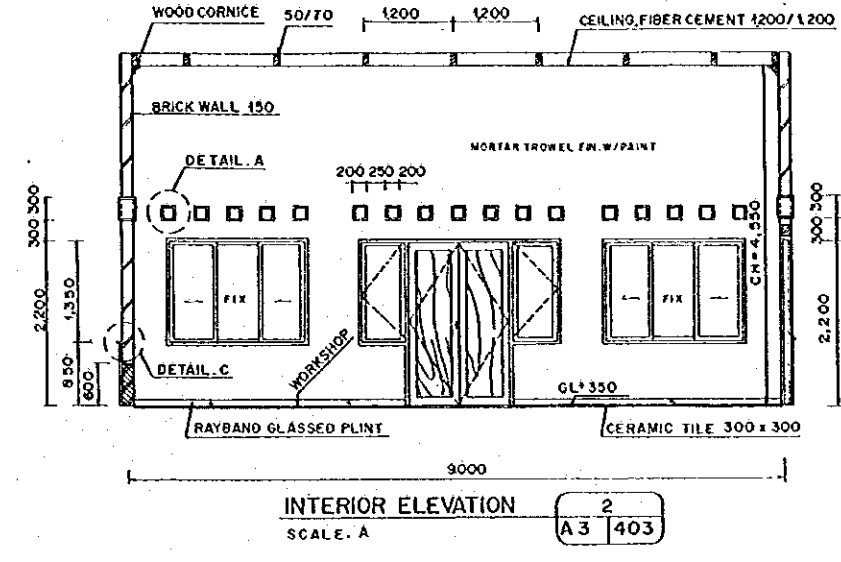
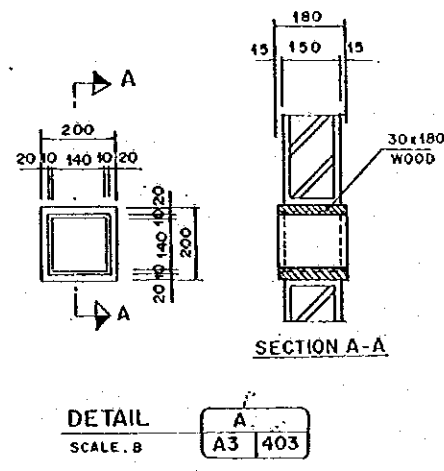
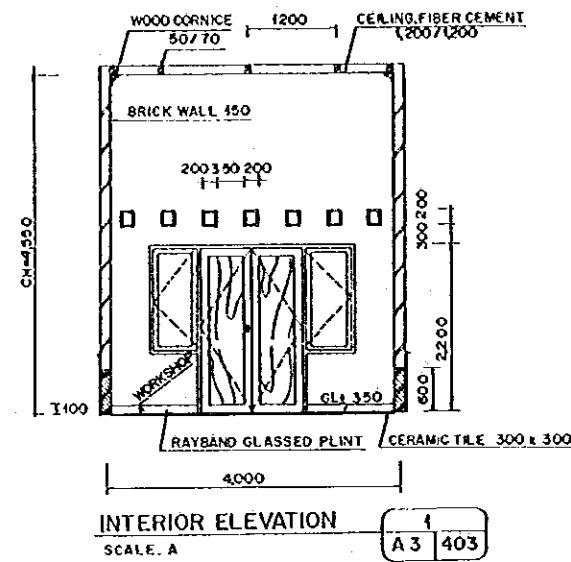
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAWA
#RATUNSELUMA FLOOD CONTROL PROJECT COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT BARU PUMPING STATION COMPLEX FLOOR PLAN, ROOF PLAN & CEILING PLAN GARAGE		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT BY SEMARANG BY THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY DRAWING NO. A3-100 U-PS-P-BV-44 SHEET NO. 106
JAPAN INTERNATIONAL COOPERATION AGENCY CTS ENGINEERING CO. LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PACIFIC INTERNATIONAL INC.	DESIGNED CHECKED	DATE CONTRACT NO.
APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER	[Signature]	[Signature]



NO.	DATE	REVISIONS	DESIGNATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAWA
BATUNUSUNDA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT BARU PUMPING STATION COMPLEX ELEVATION GARAGE		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY JICA ENGINEERING CO. LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PAKCI INTERNATIONAL INC.		DISTRICT SEMARANG CITY DRAWING NO A3-401 U-PB-P-04-40 SHEET NO. 107
DESIGNED <i>[Signature]</i>	CHECKED <i>[Signature]</i>	DATE _____
APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		CONTRACT NO. _____



NO.	DATE	REVISIONS	ORIGINATOR	DESIGNER	APPROVED

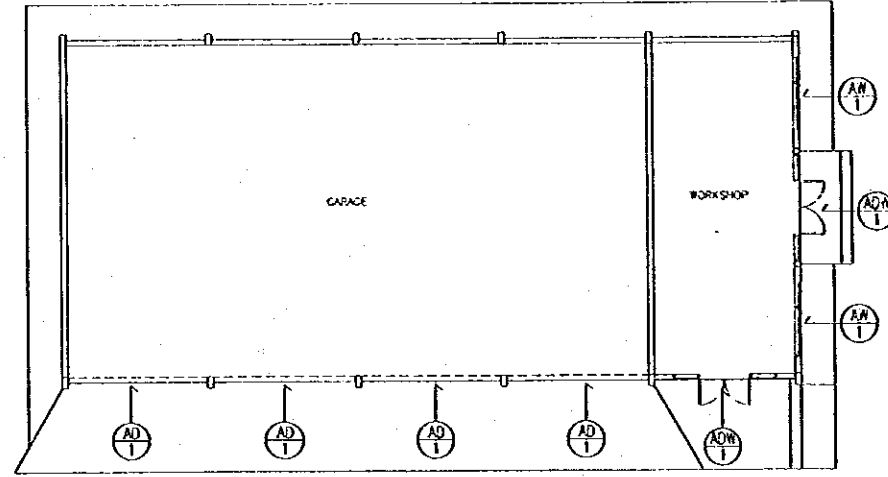
THE REPUBLIC OF INDONESIA
 MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT

IRATUNSELUNA FLOOD CONTROL PROJECT
 COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT
 BARU PUMPING STATION COMPLEX
 INTERIOR ELEVATION & DETAIL
 GARAGE

DESIGNED: [Signature]
 CHECKED: [Signature]
 APPROVED: [Signature]
 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. A3-403 U.P.S.-B
 SHEET NO. 109

DATE: [] CONTRACT NO. []



KEY PLAN
SCALE A

MARK	QTY	AD 1	2	AD 1	4	AM 1	2	
SHAPE								
TYPE		DOUBLE SWING		ROLLING SHUTTER		DOUBLE SLIDING		
MATERIAL	FINISH	FRAME	ALU	ANO	ALU	ANO	ALU	ANO
		PANEL	PLYWOOD 6 MM THICK & GLASS	PRC	ALU	PAINTE	GLASS	-
			CLEAR GLASS 5 MM THICK		-		CLEAR GLASS 5 MM THICK	
			METAL FITTINGS COMPLETE SET		METAL FITTINGS COMPLETE SET		METAL FITTINGS COMPLETE SET	
			WORKSHOP		GARAGE		WORKSHOP	
			WORKSHOP		GARAGE		WORKSHOP	

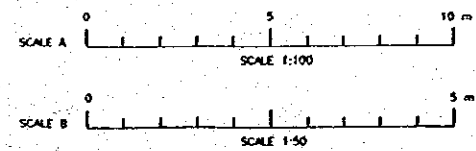
DOOR & WINDOW SCHEDULE
SCALE B

LEGEND :

- AD : ALUMINUM DOOR
- AW : ALUMINUM WINDOW
- ADW : ALUMINUM DOOR WINDOW
- DOORS & WINDOWS SYMBOL
- REFERENCE NO.

MATERIAL :

- ALU : ALUMINUM
- ANO : ANODIZED
- PRC : POLYUREA CLEAR SEMIGLOSS



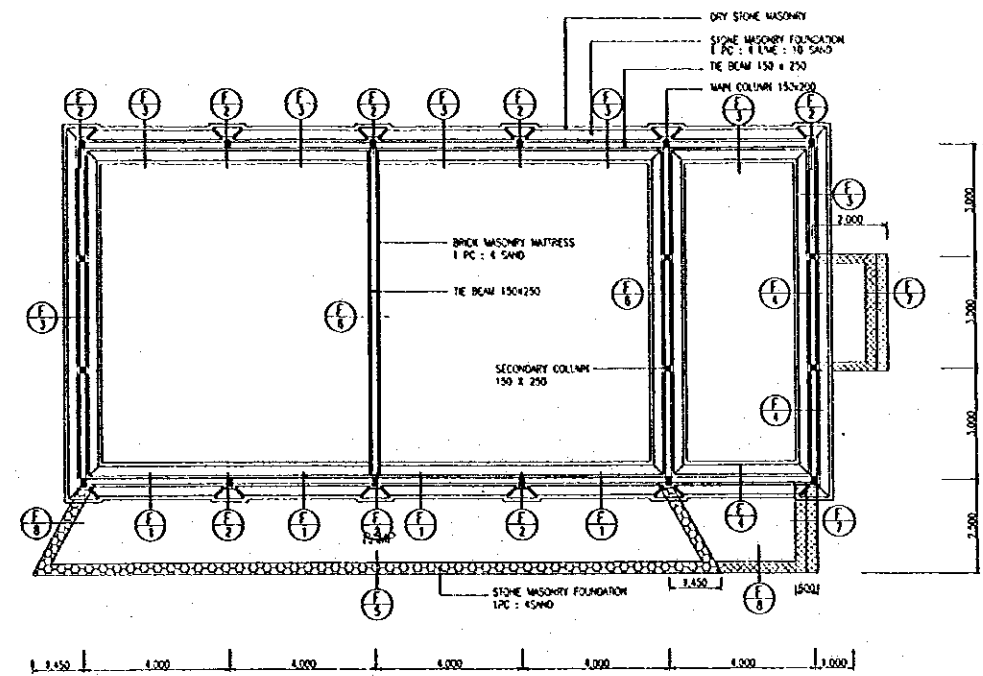
NO.	DATE	REVISIONS	ELABORATED	DESIGNED	APPROVED

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

PROVINCE: CENTRAL JAWA
PROJECT NAME: FLOOD CONTROL URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG BY THE REPUBLIC OF INDONESIA
DISTRICT: SEMARANG CITY
DRAWING NO: A3-404 U-PS-P-04-08
SHEET NO: 110

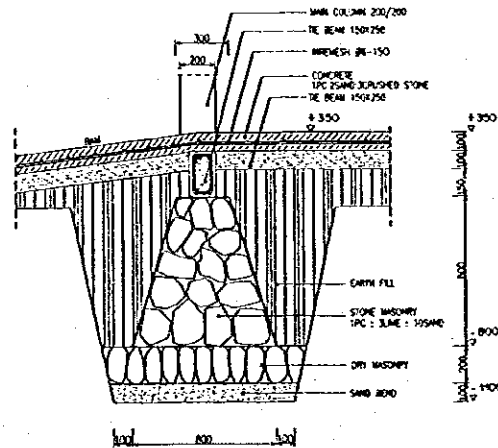
IRATUNSELUMA FLOOD CONTROL PROJECT
COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT
BARU PUMPING STATION COMPLEX
KEY PLAN & DOOR, WINDOW SCHEDULE
GARAGE

DATE:
CONTRACT NO:
APPROVED:
PROJECT MANAGER:
DESIGNED:
CHECKED:
CHIEF OF PLANNING AND DESIGN:
PROJECT MANAGER:

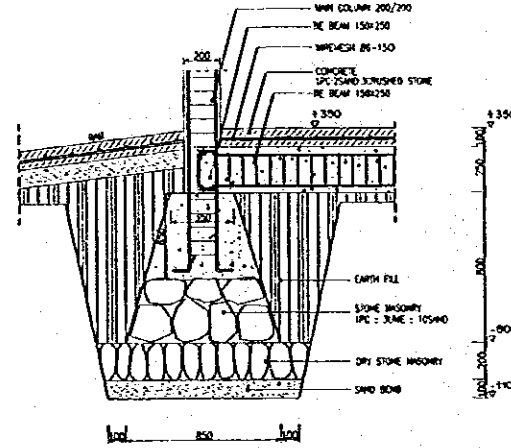


FOUNDATION PLAN
SCALE A

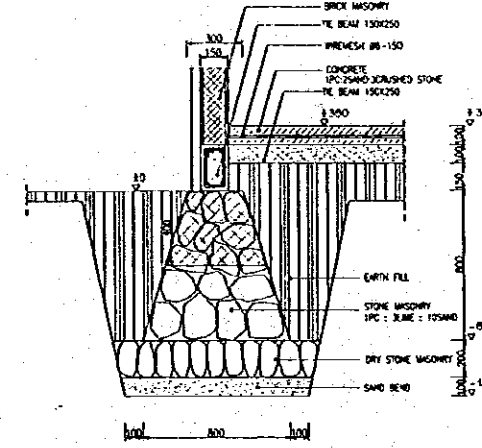
DETAIL F-1



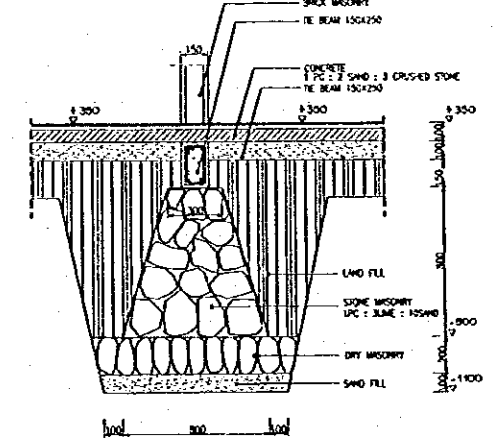
DETAIL F-2



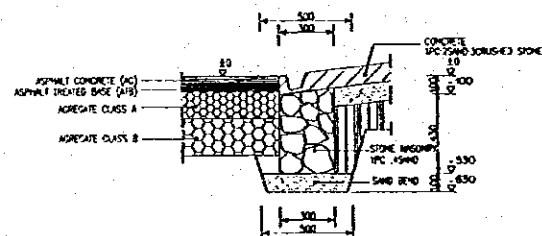
DETAIL F-3



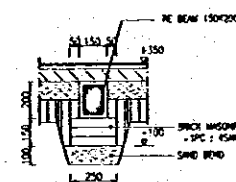
DETAIL F-4



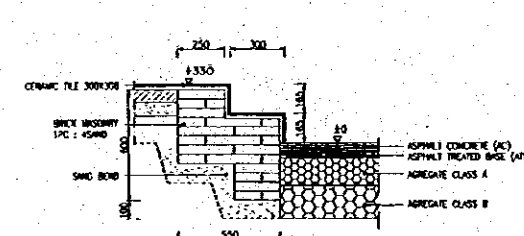
DETAIL F-5



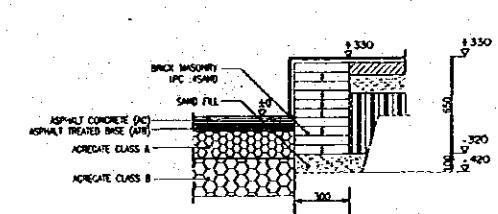
DETAIL F-6



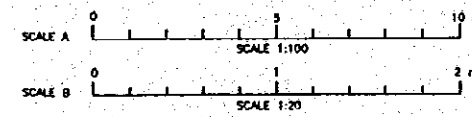
DETAIL F-7



DETAIL F-8



FOUNDATION SCHEDULE
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

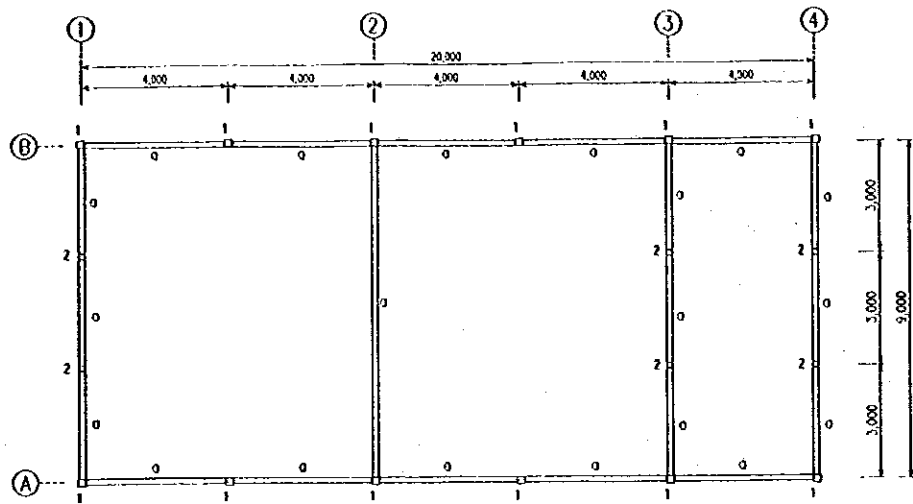
PROVINCE: CENTRAL JAVA
PROJECT NAME: JATUNSELUMA FLOOD CONTROL PROJECT
COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT
BARU PUMPING STATION COMPLEX
FOUNDATION PLAN AND DETAIL
GARAGE

DISTRICT: SEMARANG CITY
DRAWING NO. CS-400 U-PS-P-00-00
SHEET NO. 41
DATE: CONTRACT NO.

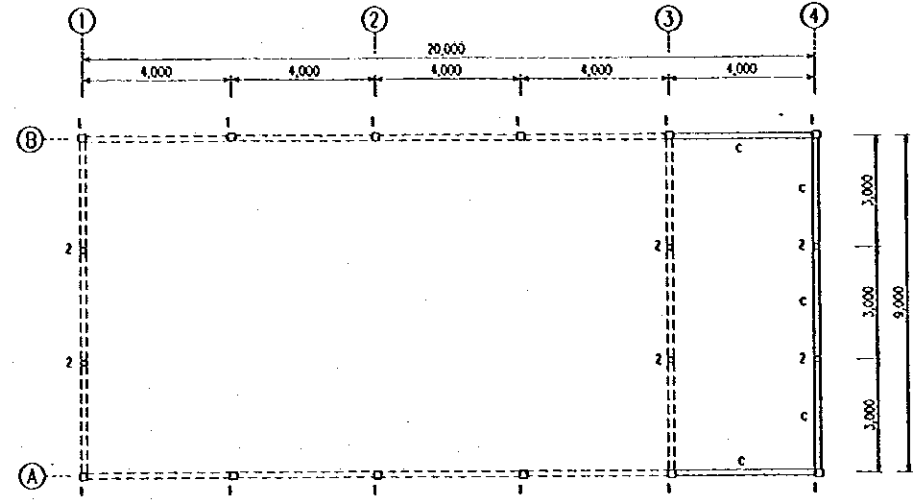
JAPAN INTERNATIONAL COOPERATION AGENCY
CIJ ENGINEERING CONSULTANTS ASSOCIATION LTD.
PACIFIC COMPLIANCE INTERNATIONAL AND
PUBLIC INTERNATIONAL INC.

DESIGNED: CHECKED: DATE: PROJECT MANAGER:

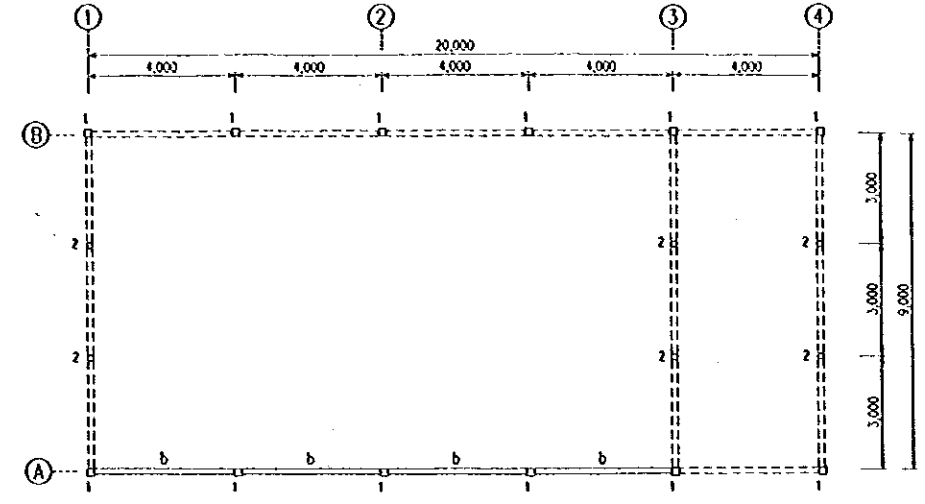
APPROVED: CHIEF OF PLANNING AND DESIGN



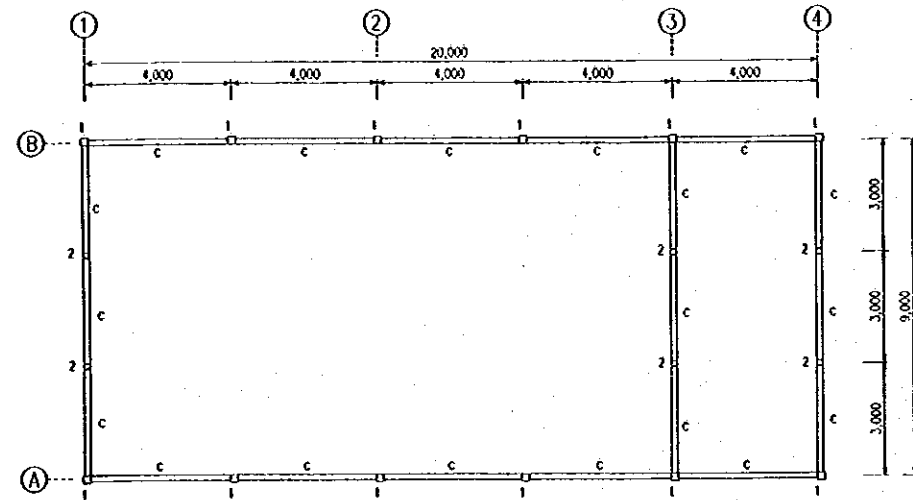
COLUMN AND TIE BEAM PLAN ±0
SCALE A



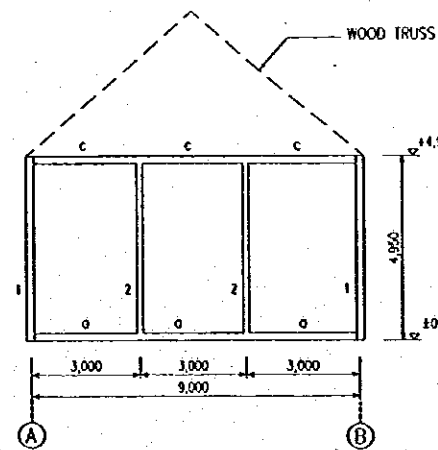
COLUMN AND TIE BEAM PLAN +2,250
SCALE A



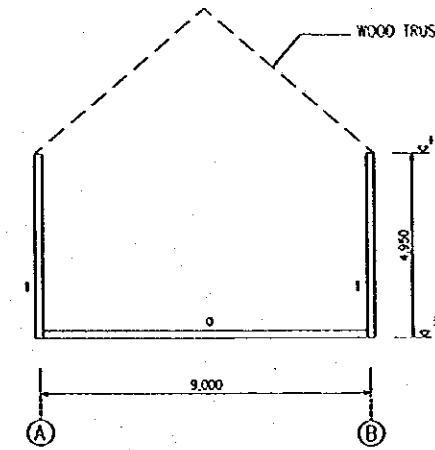
COLUMN AND TIE BEAM PLAN +3,050
SCALE A



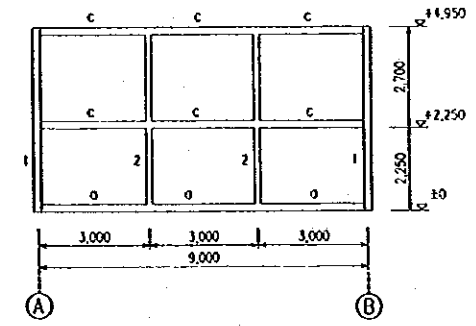
COLUMN AND RING BEAM PLAN +4,950
SCALE A



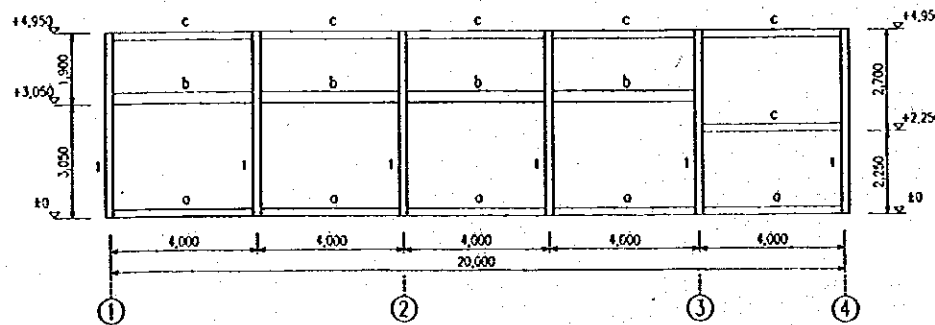
FRAMING LINE 1&3
SCALE A



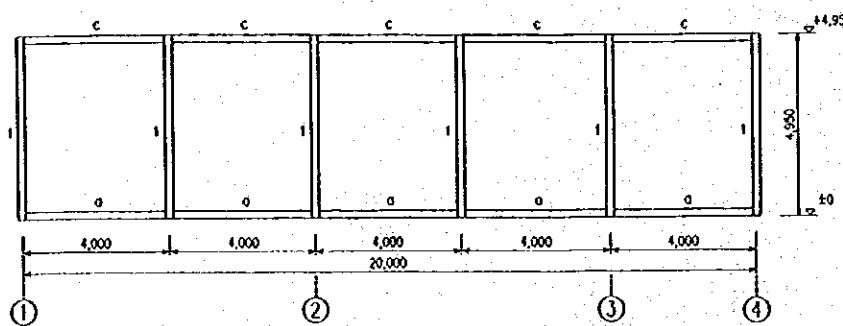
FRAMING LINE 2
SCALE A



FRAMING LINE 4
SCALE A



FRAMING LINE A
SCALE A



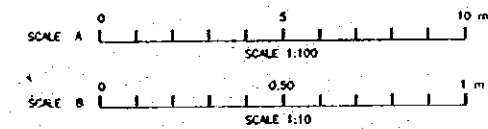
FRAMING LINE B
SCALE A

TYPICAL SECTION OF BEAM REINFORCEMENT			
ARRANGEMENT	BEAM TYPE (A)	BEAM TYPE (B)	BEAM TYPE (C)
TOP	2 Ø 16	2 Ø 16	2 Ø 12
MIDDLE	—	—	—
BOTTOM	2 Ø 16	2 Ø 16	2 Ø 12
STIRRUP	#8-150	#8-150	#8-150

TYPICAL SECTION OF BEAM REINFORCEMENT
SCALE B

TYPICAL SECTION OF COLUMN REINFORCEMENT		
ARRANGEMENT	COLUMN TYPE (A)	COLUMN TYPE (B)
TOP	4 Ø 18	4 Ø 18
STIRRUP	#8-150	#8-150

TYPICAL SECTION OF COLUMN REINFORCEMENT
SCALE B



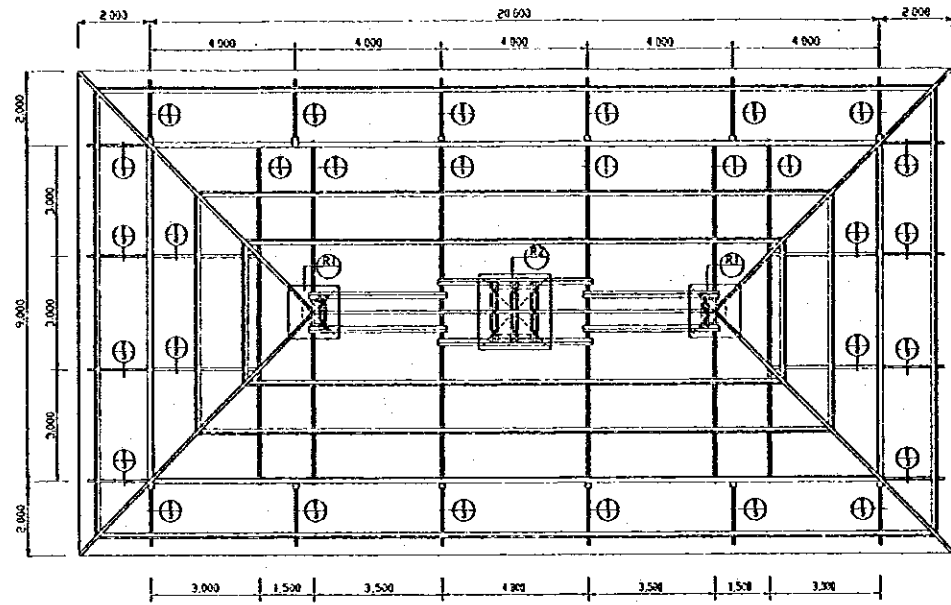
NO.	DATE	REVISIONS	ORIGINATOR	DESIGNER	APPROVED

THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF RUMAH SETLEMENT

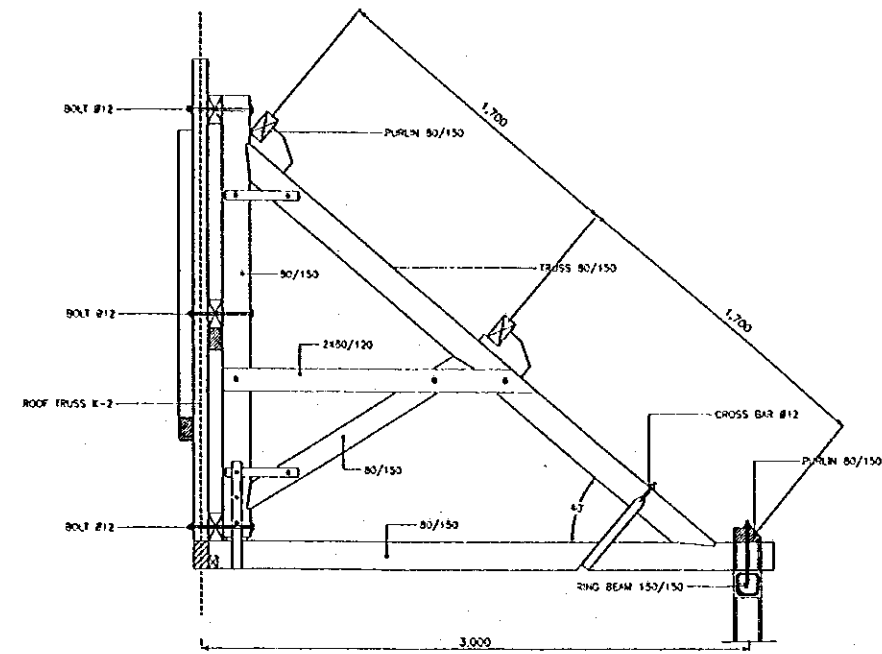
IRATUNSELUNA FLOOD CONTROL PROJECT
COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT
BARU PUMPING STATION COMPLEX
COLUMN, TIE BEAM AND FRAMING ELEVATION GARAGE

PROVINCE : CENTRAL JAYA
PROJECT NAME : FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG BY THE REPUBLIC OF INDONESIA
DISTRICT : SEMARANG CITY
DRAWING NO : C3-801 (U-PS-P-84-90)
SHEET NO. : 142
DATE :
CONTRACT NO. :

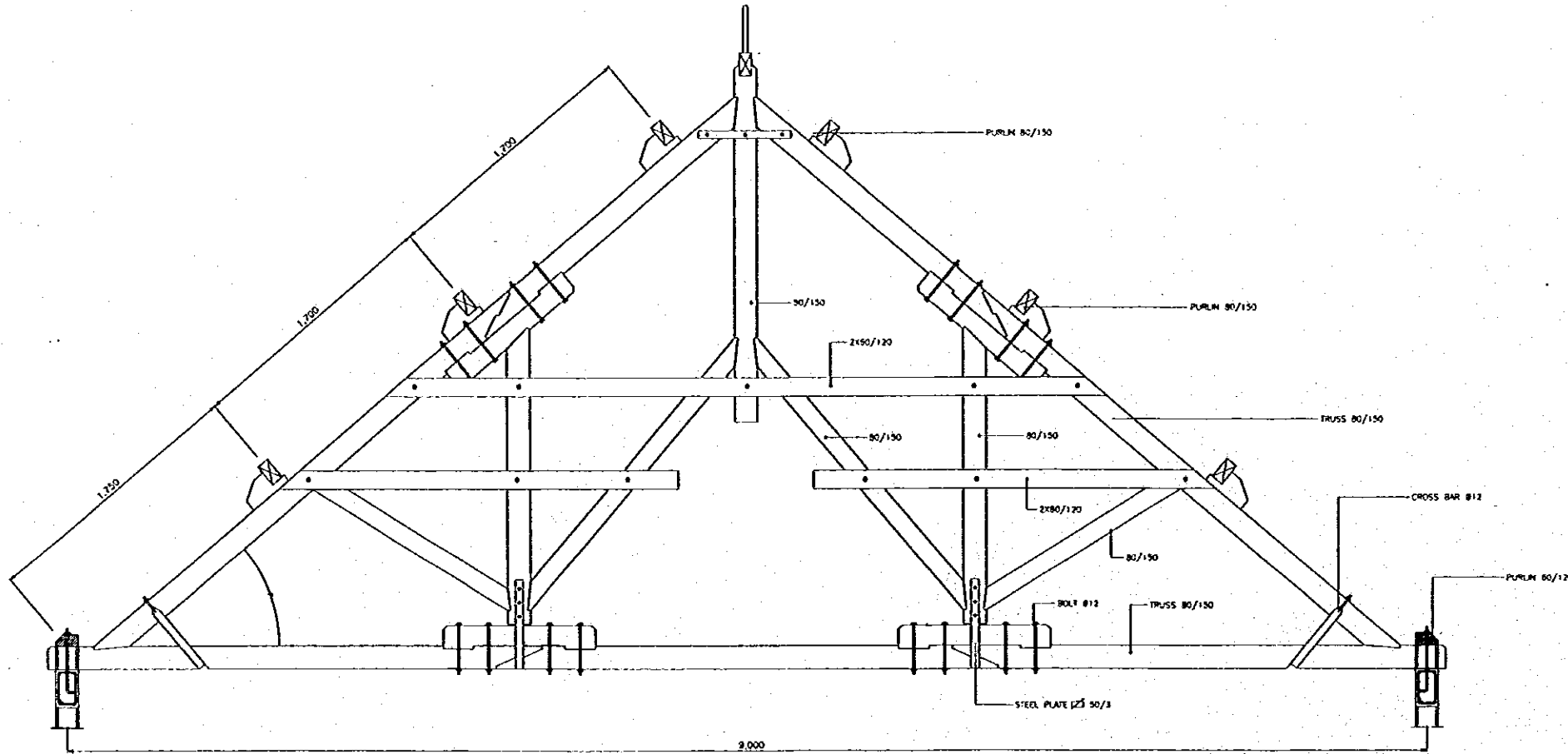
DESIGNED :
CHECKED :
APPROVED :
PROJECT MANAGER



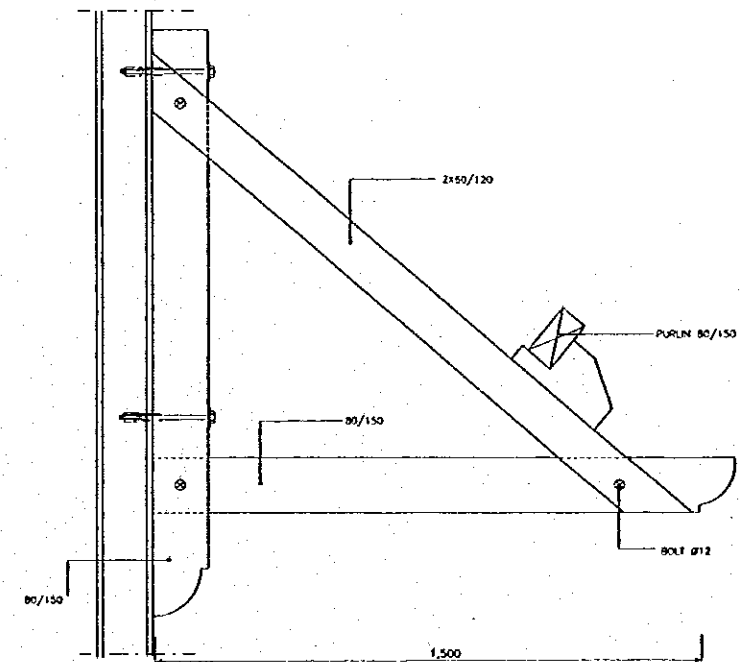
ROOF PLAN
SCALE A



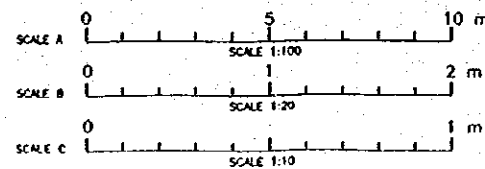
TRUSS TYPE T2
SCALE B



TRUSS TYPE T1
SCALE B



TRUSS TYPE T3
SCALE C



NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED	APPROVED

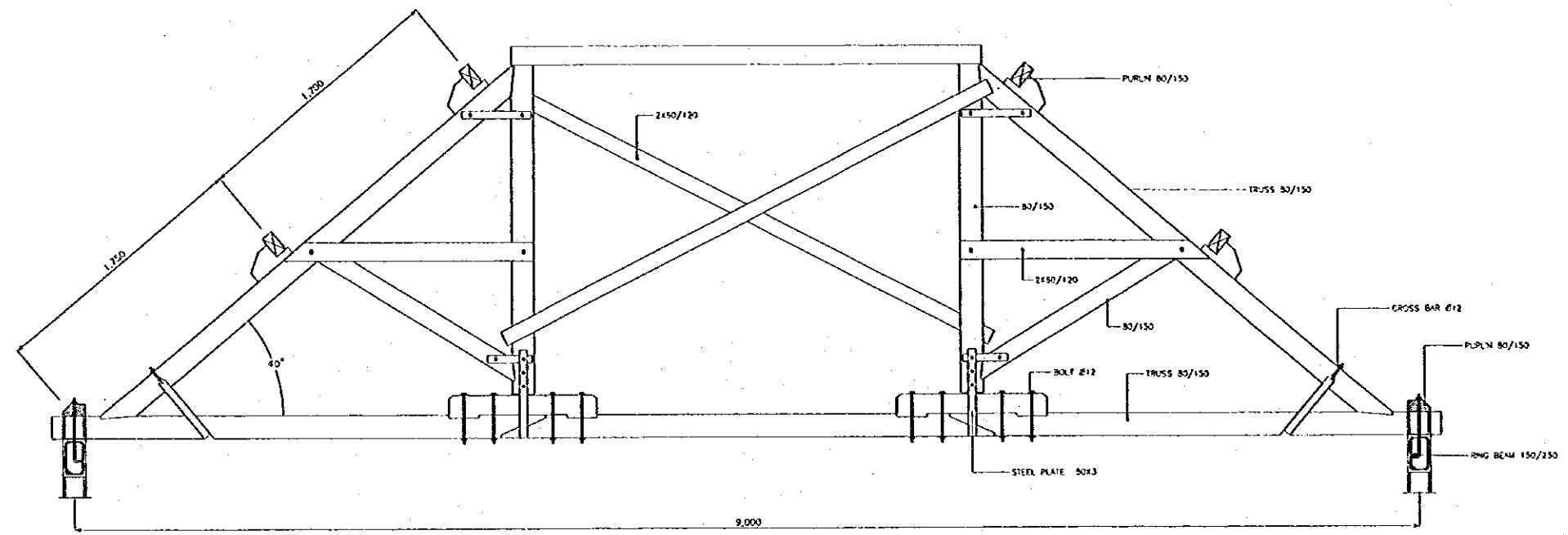
THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT

PROVINCE: CENTRAL JAYA
PROJECT NAME: FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG OF THE REPUBLIC OF INDONESIA
DISTRICT: SEMARANG CITY
DRAWING NO: C3-402 U.PS-P.04-91
SHEET NO.: 113

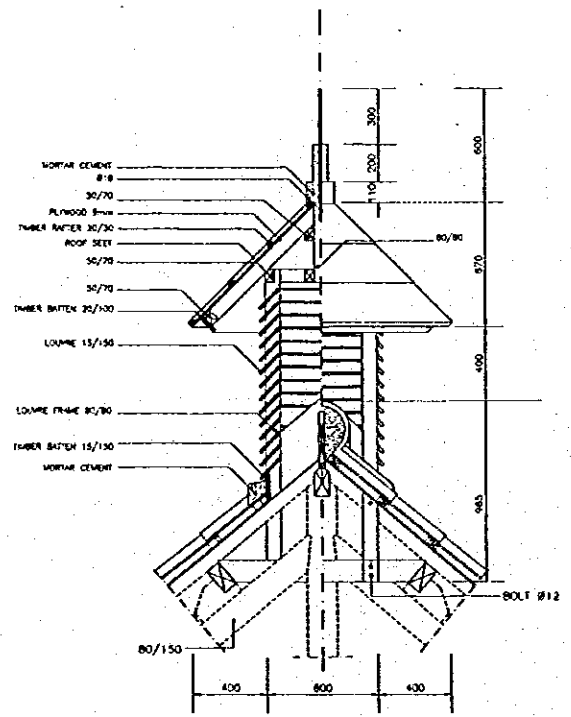
JRATUNSELUNA FLOOD CONTROL PROJECT
COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT
BARU PUMPING STATION COMPLEX
ROOF STRUCTURE PLAN & TYPICAL GARAGE

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

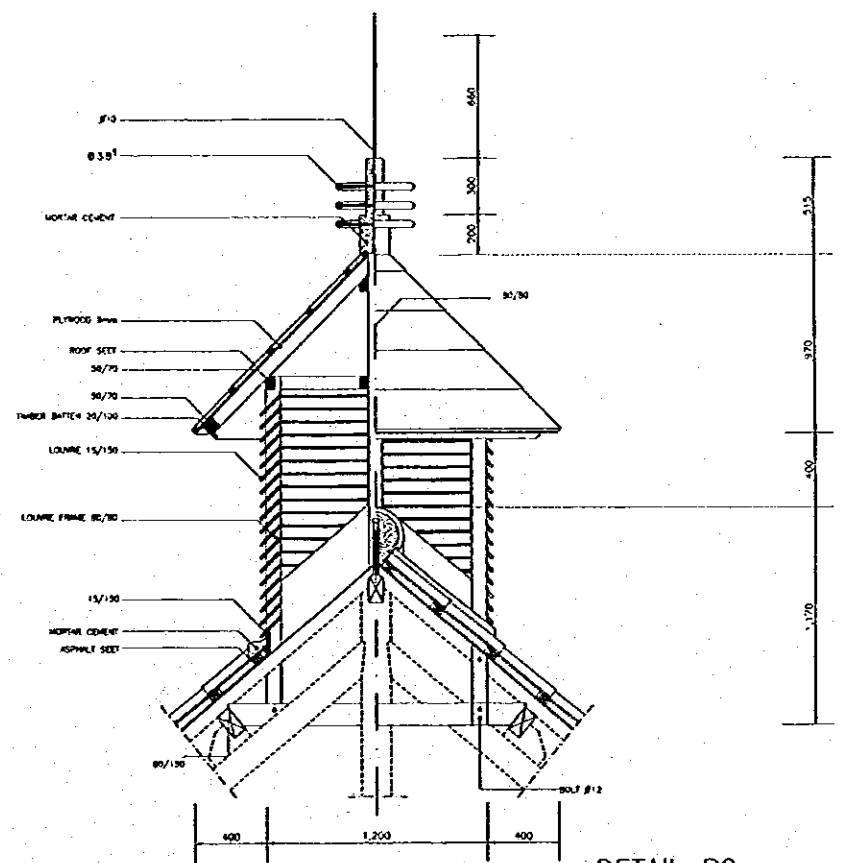
DESIGNED: [Signature]
CHECKED: [Signature]
CHIEF OF PLANNING AND DESIGN
PROJECT MANAGER



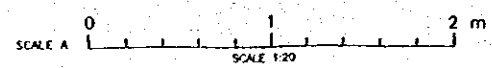
TRUSS TYPE T2
SCALE A



DETAIL R1
SCALE A



DETAIL R2
SCALE A



NO	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

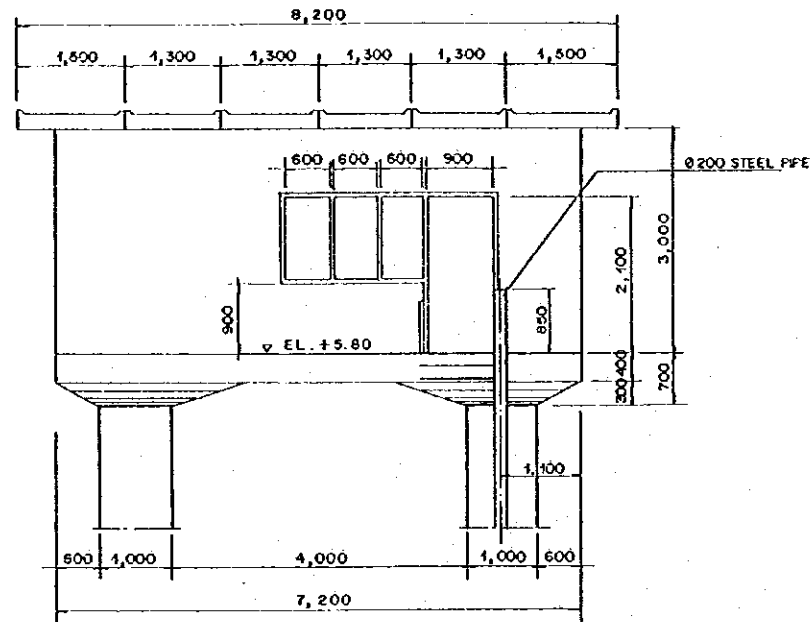
THE REPUBLIC OF INDONESIA
 MINISTRY OF PUBLIC WORKS
 DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT
 AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT

ISATUNSELUMA FLOOD CONTROL PROJECT
 COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT
 BARU PUMPING STATION COMPLEX
 ROOF STRUCTURE TYPICAL AND DETAIL
 GARAGE

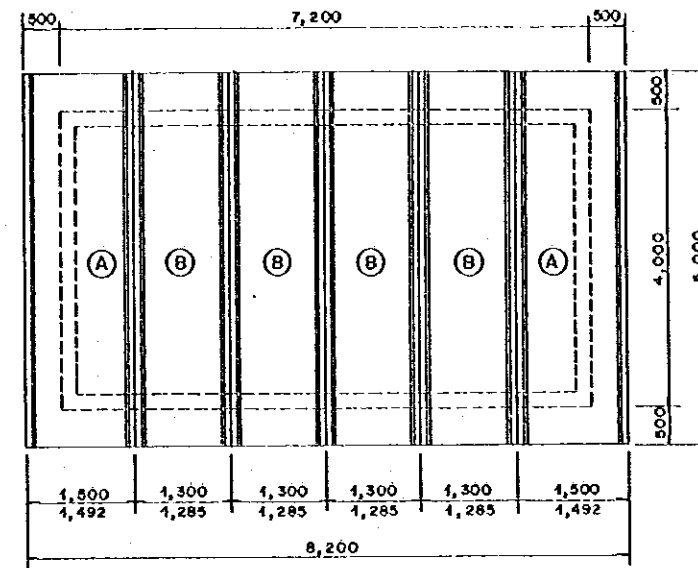
JAPAN INTERNATIONAL COOPERATION AGENCY
 CITY ENGINEERING CONSULTANTS IN ARCHITECTURE TYPE
 PACIFIC CONSULTANTS INTERNATIONAL, AND
 PACIFIC INTERNATIONAL, INC.

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

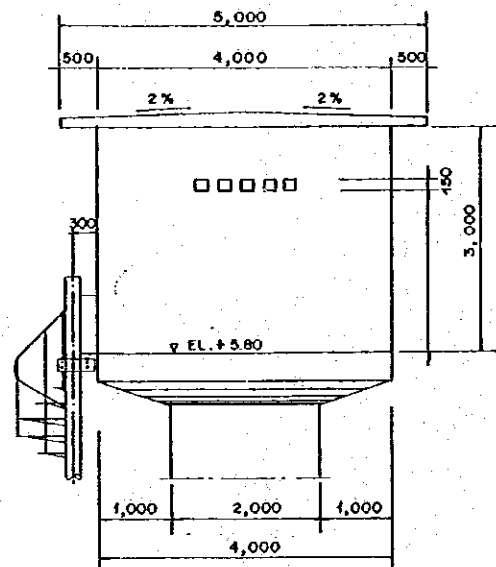
PROVINCE: CENTRAL JAYA
 PROJECT NAME: FLOOD CONTROL, URBAN INFRASTRUCTURE AND
 WATER RESOURCES DEVELOPMENT IN
 SEMARANG IN THE REPUBLIC OF INDONESIA
 DISTRICT: SEMARANG CITY
 DRAWING NO: CI-03-031-PS-P-04-02
 SHEET NO.: 44
 DATE: [Blank]
 CONTRACT NO.: [Blank]



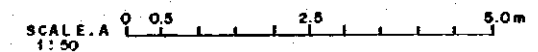
FRONT VIEW
SCALE. A



PLAN OF ROOF
SCALE. A



SIDE VIEW
SCALE. A

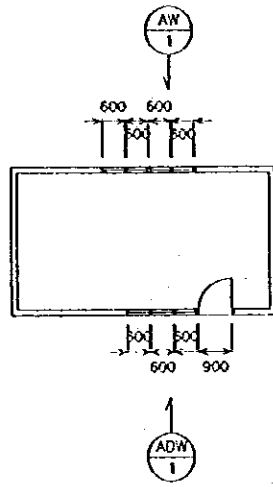


NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

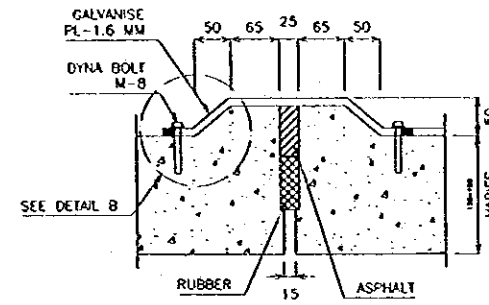
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAWA
KRAJURSELUMA FLOOD CONTROL PROJECT COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT BARU PUMPING STATION GATE PLAN AND ELEVATION OF CONTROL HOUSE		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT BY SEMARANG IN THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PARCO ENGINEERING, INC.		DISTRICT SEMARANG CITY
DESIGNED CHECKED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		DRAWING NO. U-P-S-G-C1-2 SHEET NO. 116 DATE CONTRACT NO.

LEGEND :

	DOORS & WINDOWS SYMBOL	AW : ALUMINIUM WINDOW
	ADW : ALUMINIUM DOOR WINDOW	
REFERENCE NO.		



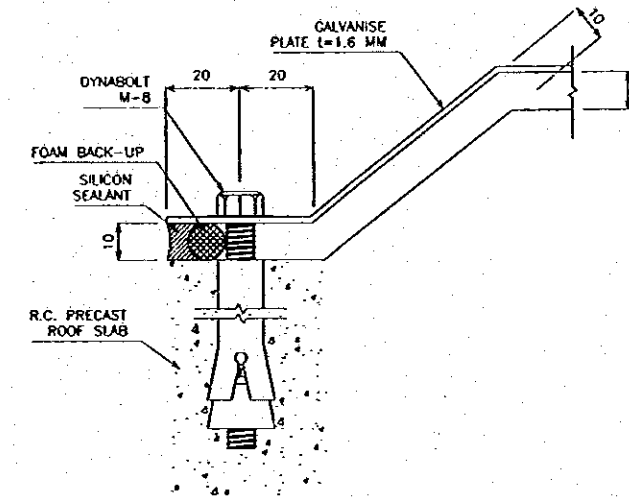
KEY PLAN
SCALE A



DOOR WINDOW SCHEDULE
SCALE C

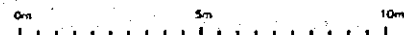
MARK	QTY	ADW 1	1	AW 1	3	
SHAPE						
TYPE		SINGLE SWING, FIX & SLIDING		DOUBLE FIX & SLIDING		
MATERIAL	FINISH	FRAME	ALUMINIUM	ANODIZED	ALUMINIUM	ANODIZED
		PANEL	DOUBLE STEEL PLATE t=1.6 MM	PAINTED	GLASS	-
		GLASS	CLEAR GLASS t=5 MM			CLEAR GLASS t=5 MM
		HARDWARE	METAL FITTINGS COMPLETE SET			METAL FITTINGS COMPLETE SET
		POSITION	CONTROL ROOM			CONTROL ROOM

DOOR WINDOW SCHEDULE
SCALE B

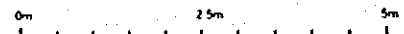


DETAIL B
SCALE D

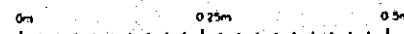
SCALE A
1 : 100



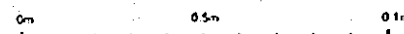
SCALE B
1 : 50



SCALE C
1 : 5

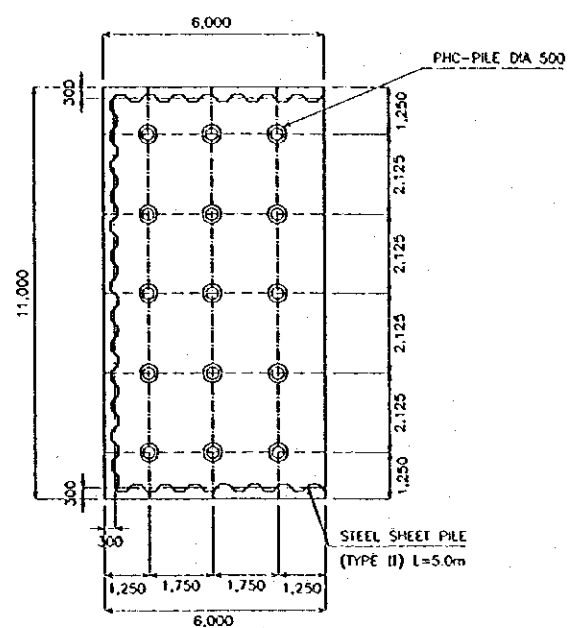


SCALE D
1 : 1

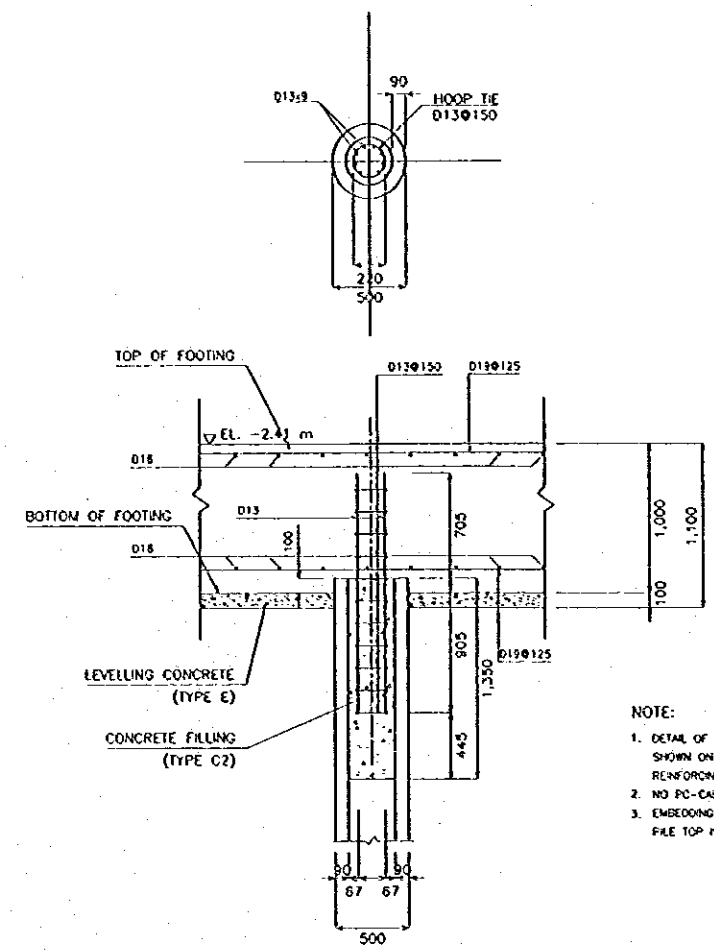


NO.	DATE	REVISIONS	COORDINATED	DESIGNED	APPROVED

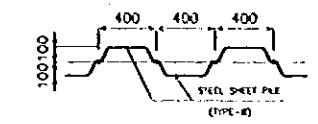
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAWA
JATUNGLUMA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT BAKU PUMPING STATION GATE DETAIL OF WINDOW AND ROOF SEALING		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT BY Semarang IN THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY CTE ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL JABCO INTERNATIONAL, INC.		DISTRICT SEMARANG CITY
CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		DRAWING NO. U-P3-G-CI-3 SHEET NO. 117
DATE		CONTRACT NO.



PLAN SCALE A

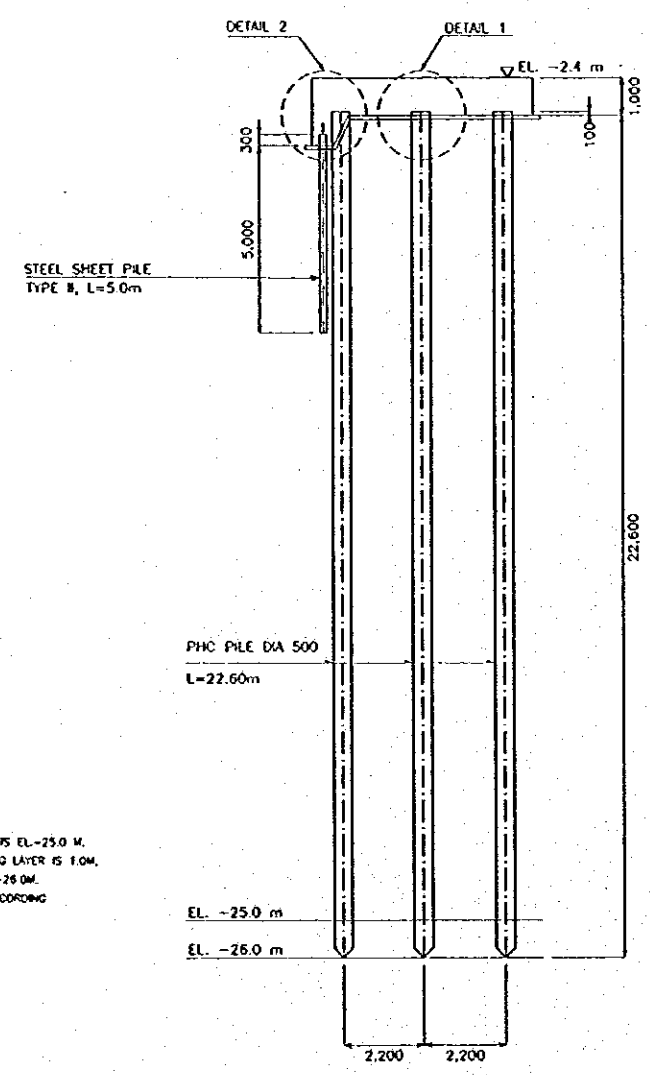


DETAIL 1 (PHC PILE TOP TREATMENT) SCALE B

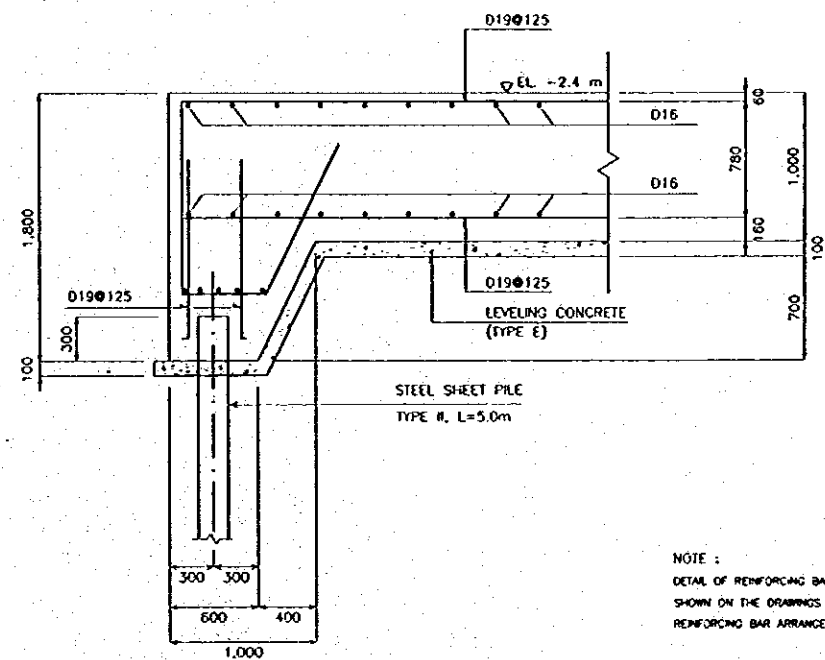


DETAIL OF STEEL SHEET PILE SCALE B

NOTE:
 1. DETAIL OF REINFORCING BAR ARRANGEMENTS OF FOOTING ARE SHOWN ON THE DRAWINGS "ASIN PUMPING STATION GATE, REINFORCING BAR ARRANGEMENT".
 2. NO PC-CABLES OF PHC-PILE ARE SHOWN ON THIS DRAWING.
 3. EMBEDDING OF REINFORCING BAR BASKET FOR TREATMENT OF PILE TOP IS DONE AT SITE.



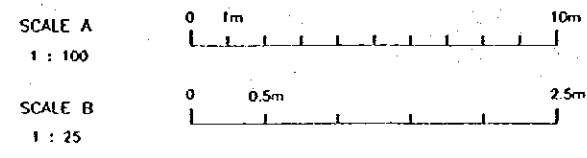
SECTION SCALE A



DETAIL 2 (JOINT BETWEEN STEEL SHEET PILE AND FOOTING) SCALE B

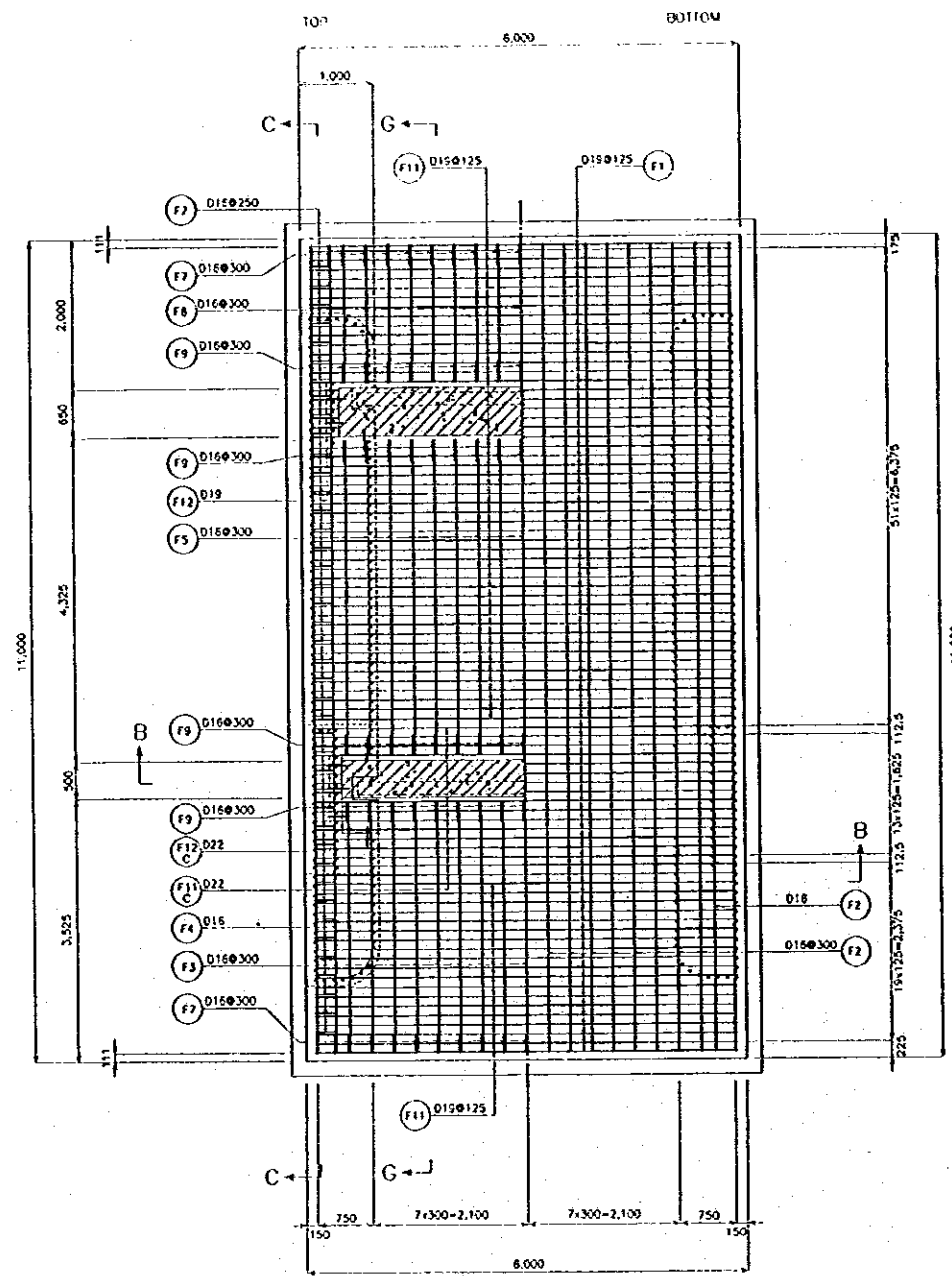
NOTE:
 DETAIL OF REINFORCING BAR ARRANGEMENTS OF FOOTING ARE SHOWN ON THE DRAWINGS "BARU PUMPING STATION GATE, REINFORCING BAR ARRANGEMENT".

NOTE:
 1. ASSUMED ELEVATION OF BEARING LAYER IS EL. -25.0 M. REQUIRED DRIVEN DEPTH TO THE BEARING LAYER IS 1.0M. THEREFORE, PILE TIP ELEVATION IS EL. -26.0M.
 2. PILE LENGTH IS SUBJECT TO CHANGE ACCORDING TO THE GEOLOGICAL CONDITION.

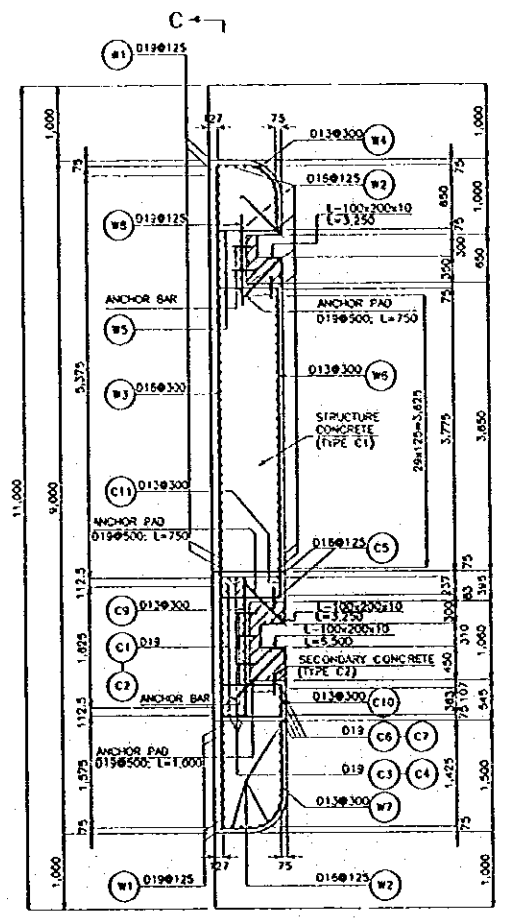


NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

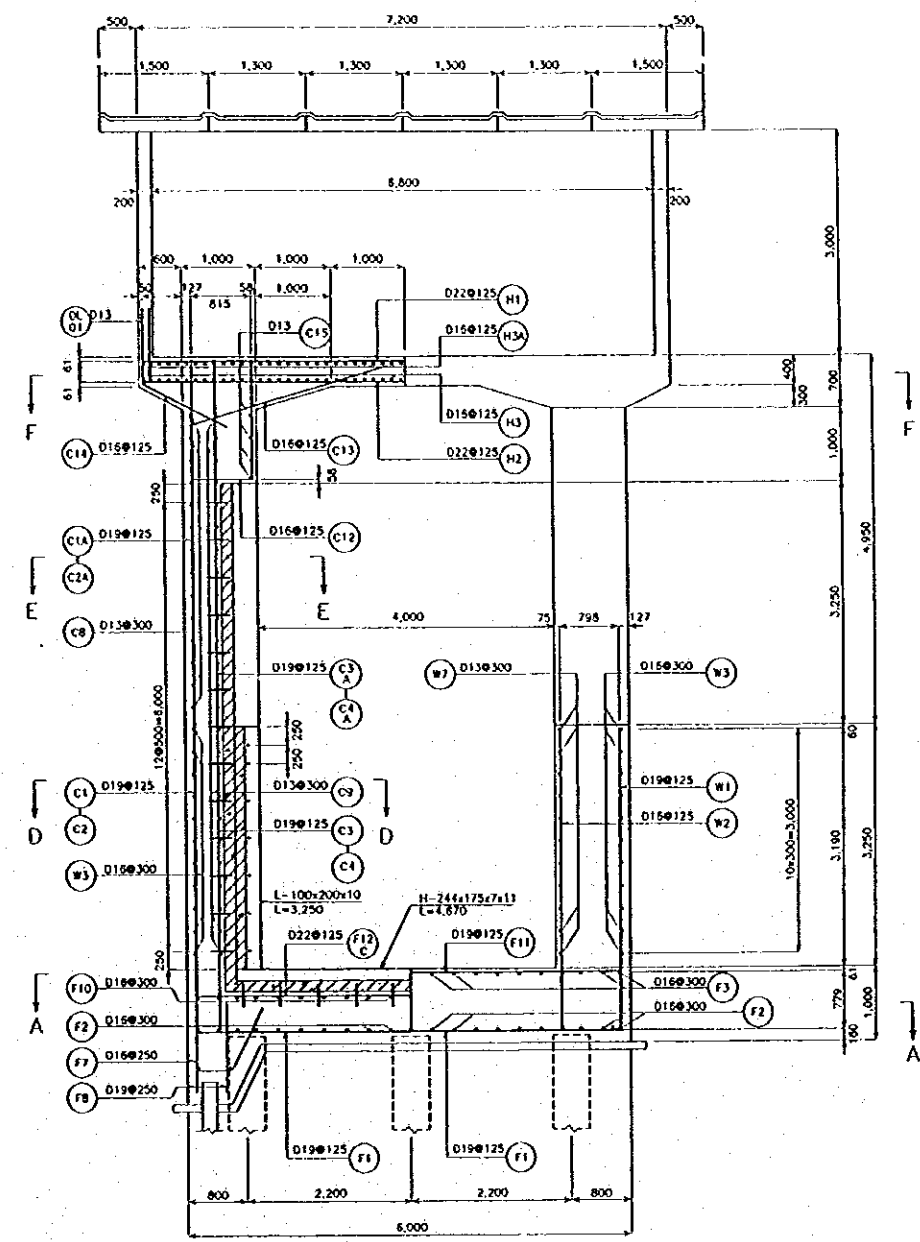
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF RURAL SETTLEMENT		PROVINCE CENTRAL JAWA
JATUNGGUH FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT BARU PUMPING STATION GATE PHC PILE AND STEEL SHEET PILE LAYOUT, AND DETAILS		DISTRICT SEMARANG CITY
DRAWING NO. U-P3-G-CI-4 SHEET NO. 118		DATE CONTRACT NO.
APPROVED PROJECT MANAGER	CHECKED DESIGNED DRAWN	DATE CONTRACT NO.



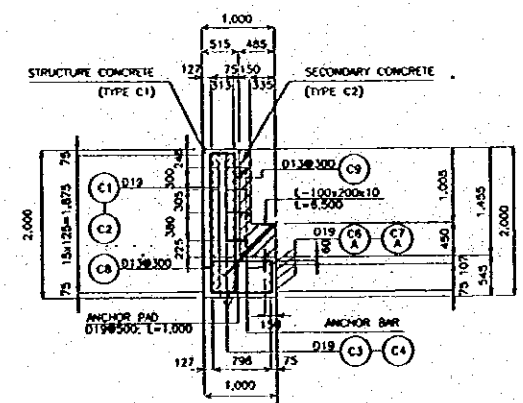
SECTION A-A
SCALE A



SECTION D-D
Scale A

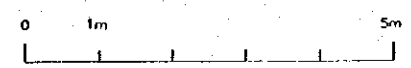


SECTION B-B
SCALE A



SECTION E-E
Scale A

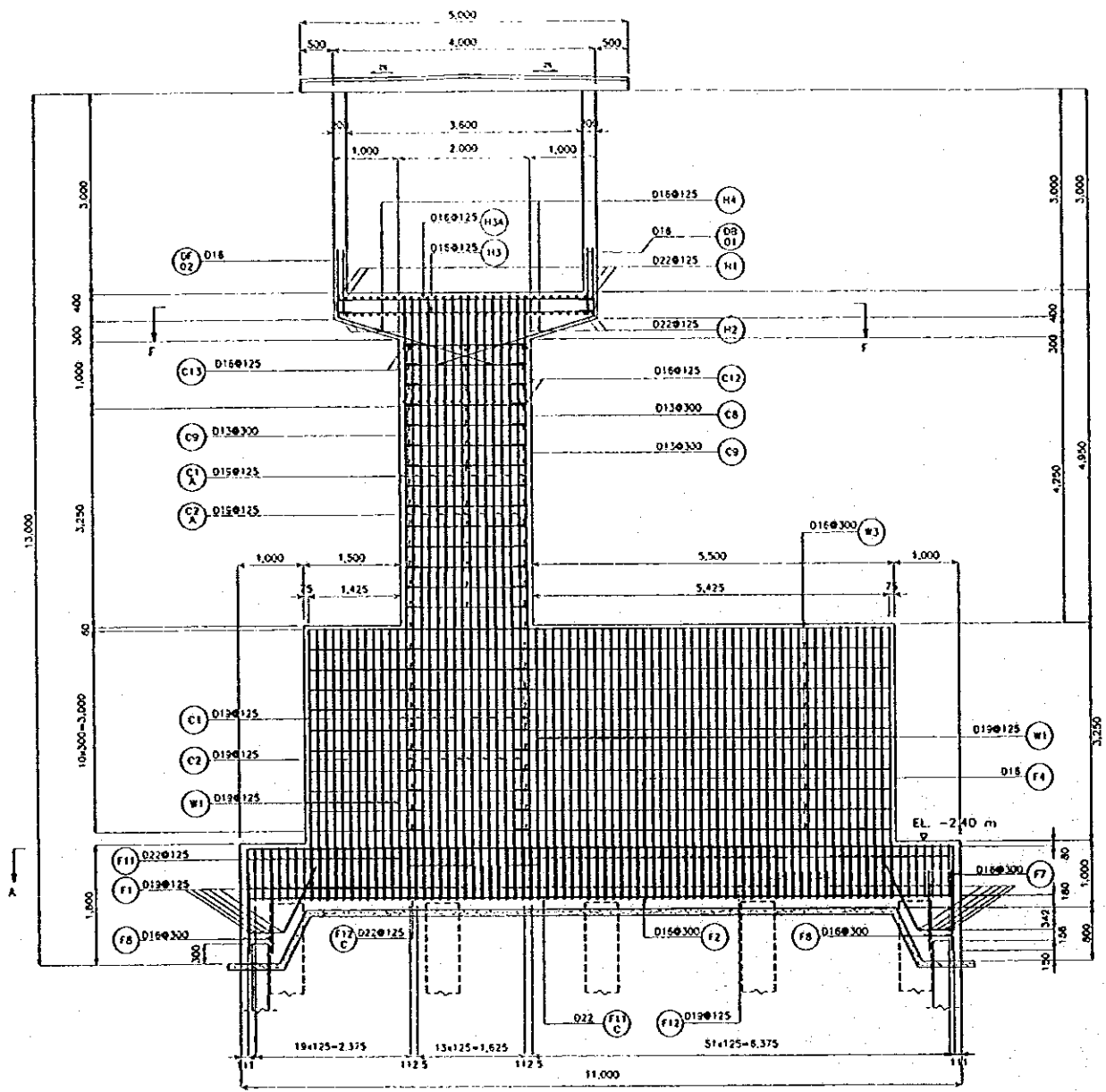
SCALE A
1 : 50



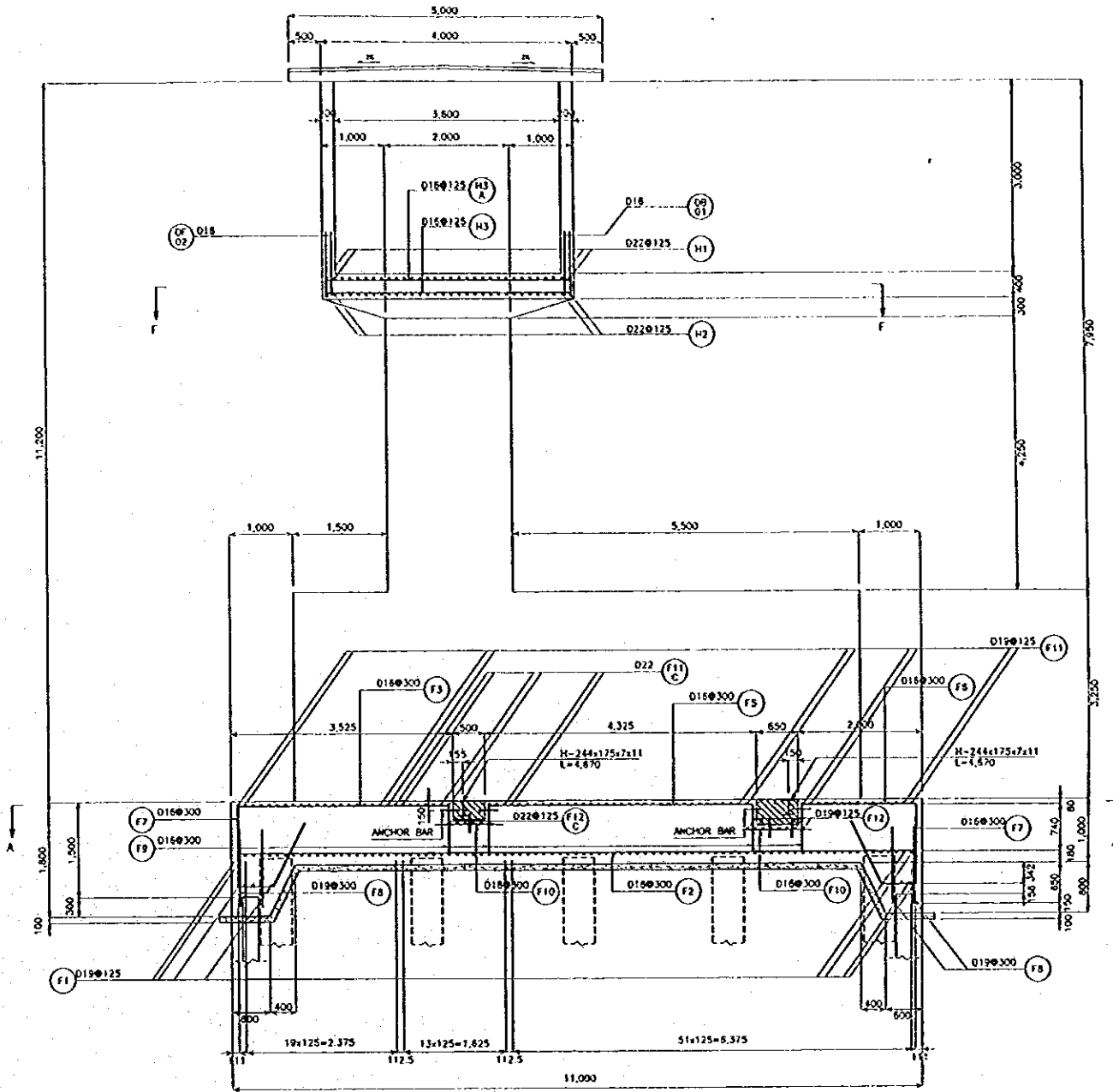
NOTE 1
THIS DRAWING ONLY SHOWS THE REINFORCING BAR ARRANGEMENTS FOR LEFT SIDE PIER/COLUMN. HOWEVER, SAME REINFORCING BAR ARRANGEMENTS ARE APPLIED FOR RIGHT SIDE PIER/COLUMN.

NO.	DATE	REVISIONS	OPERATED	DESIGNED	APPROVED

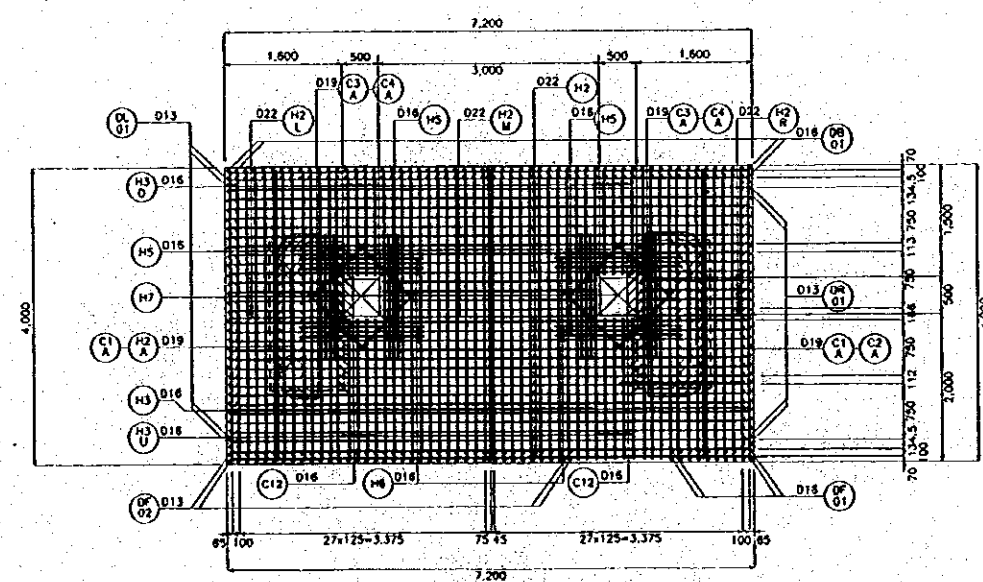
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
BATUNELUNA FLOOD CONTROL PROJECT COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT BARU PUMPING STATION GATE REINFORCING BAR ARRANGEMENT FOUNDATION AND PIER (1/3)		PROJECT NAME BATUNELUNA 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 PARCO INTERNATIONAL INC.		DISTRICT SEMARANG CITY
CHECKED DATE		DRAWING NO. U-P3-G-CI-5 SHEET NO. 119
APPROVED CEER OF PLANNING AND DESIGN PROJECT MANAGER		CONTRACT NO.



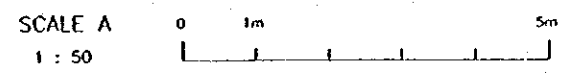
SECTION C-C
SCALE A



SECTION G-G
SCALE A



SECTION F-F
SCALE A



NO.	DATE	REVISION	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 JAWA
IRATUNDELUKA FLOOD CONTROL PROJECT COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT BARU PUMPING STATION GATE REINFORCING BAR ARRANGEMENT FOUNDATION AND FIBER (2/7)		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT OF IRATUNDELUKA IN THE REPUBLIC OF INDONESIA
JAWA INTERNATIONAL COOPERATION AGENCY PT. INDOREKON CO., LTD. in cooperation with PACIFIC CONSULTANTS INTERNATIONAL AND PARCO INTERNATIONAL INC.		DISTRICT SEMARANG CITY
CHECKED DESIGNED PROJECT MANAGER		DRAWING NO. U-P3-G-C1-6 SHEET NO. 120
DATE CONTRACT NO.		DATE CONTRACT NO.

BAR BENDING SCHEDULE

SHAPE

TYPE	SHAPE	DIA	NUMBER	LENGTH (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	R (mm)
F1	2	19	87	6486	370	5746	370				
F2	1	16	21	10800	10800						
F3	1	16	17	3375	3375						
F4	1	16	4	10800	10800						
F5	1	16	17	4225	4225						
F6	1	16	17	1900	1900						
F7	3	16	80	2913	250	1263	500	900			
F8	1	19	160	1200	1200						
F9	2	16	88	1240	250	740	250				
F10	1	16	42	1100	1100						
F11	2	22	78	6486	370	5746	370				
F12	2	22	14	6246	250	5746	250				
W1	4	19	112	4420	4040	380					
W2	4	16	132	4420	4040	380					
W3	1	16	22	8900	8900						
W4	5	13	22	1965	222	390	691	440	222		440
W5	2	13	44	1274	222	830	222				
W6	1	13	22	4125	4125						
W7	5	13	22	3010	222	390	691	1485	222		440
W8	1	13	22	1260	1200						
DF01	2	16	20	1170	70	100	1000				
DF02	2	16	80	1170	70	100	1000				
DR01	2	16	118	1170	70	100	1000				
DR01	2	13	58	1170	70	100	1000				
DL01	2	13	58	1170	70	100	1000				
H5	1	16	8	2700	2700						
H5	1	16	8	2700	2700						

BAR WEIGHT

TYPE	DIA (mm)	LENGTH (mm)	NUMBER	WEIGHT PER "M" (kg)	WEIGHT PER "BAR" (kg)	WEIGHT (kg)	SHAPE
F1	19	6486	87	2.23	14.464	1258	[Diagram]
F2	16	10800	21	1.58	17.064	358	[Diagram]
F3	16	3375	17	1.58	5.333	91	[Diagram]
F4	16	10800	4	1.58	17.064	68	[Diagram]
F5	16	4225	17	1.58	6.676	113	[Diagram]
F6	16	1900	17	1.58	3.002	51	[Diagram]
F7	16	2913	80	1.58	4.603	368	[Diagram]
F8	19	1200	160	2.23	2.676	428	[Diagram]
F9	16	1240	68	1.58	1.959	133	[Diagram]
F10	16	1100	42	1.58	1.738	73	[Diagram]
F11	22	6486	78	2.23	14.464	1128	[Diagram]
F12	22	6246	14	2.23	13.929	195	[Diagram]
W1	19	4420	112	2.23	9.857	1104	[Diagram]
W2	16	4420	132	1.58	6.984	922	[Diagram]
W3	16	8900	22	1.58	14.062	309	[Diagram]
W4	13	1965	22	1.04	2.044	45	[Diagram]
W5	13	1274	44	1.04	1.325	58	[Diagram]
W6	13	4125	22	1.04	4.29	94	[Diagram]
W7	13	3010	22	1.04	3.13	69	[Diagram]
W8	13	1200	22	1.04	1.248	27	[Diagram]
DF01	16	1170	20	1.58	1.849	37	[Diagram]
DF02	16	1170	80	1.58	1.849	148	[Diagram]
DR01	16	1170	118	1.58	1.849	218	[Diagram]
DR01	13	1170	58	1.04	1.217	71	[Diagram]
DL01	13	1170	58	1.04	1.217	71	[Diagram]
H5	16	2700	8	1.58	4.266	34	[Diagram]
H6	16	2700	8	1.58	4.266	34	[Diagram]

BAR BENDING SCHEDULE

SHAPE

TYPE	SHAPE	DIA	NUMBER	LENGTH (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	L5 (mm)	L6 (mm)	R (mm)
C1	4	19	12	5112	4890	222					
C2	4	19	20	5912	5690	222					
C1A	1	19	12	4900	4900						
C2A	1	19	20	4100	4100						
C3	4	19	20	5158	4990	268					
C4	4	19	20	5958	5690	268					
C3A	1	19	20	4900	4900						
C4A	1	19	20	4100	4100						
C5	4	16	4	4420	4040	380					
C6	4	19	4	5220	4890	330					
C7	4	19	4	6020	5690	330					
C6A	1	16	4	4900	4900						
C7A	1	16	4	4100	4100						
C8	1	13	28	1900	1900						
C9	6	13	50	3015	222	345	1881	345	222		
C10	6	13	50	2529	222	830	425	830	222		
C11	6	13	22	2379	222	830	275	830	222		
C12	2	16	32	2613	222	801	1590				
C13	1	16	32	3000	3000						
C14	7	16	32	1610	310	1300					
C15	2	13	8	3540	830	1880	830				
H1	6	22	28	7560	120	115	7090	115	120		
H1L	6	22	5	1960	120	115	1490	115	120		
H1M	6	22	5	3360	120	115	2890	115	120		
H1R	6	22	5	1960	120	115	1490	115	120		
H3A	6	16	51	4248	80	99	3890	99	80		
H3AU	6	16	9	2248	80	99	1890	99	80		
H3AD	6	16	9	1748	80	99	1390	99	80		
H2	6	22	28	7560	120	115	7090	115	120		
H2L	6	22	5	1960	120	115	1490	115	120		
H2M	6	22	5	3360	120	115	2890	115	120		
H2R	6	22	5	1960	120	115	1490	115	120		
H3	6	16	51	4248	80	99	3890	99	80		
H3U	6	16	9	2248	80	99	1890	99	80		
H3D	6	16	9	1748	80	99	1390	99	80		
H4	7	16	32	2700	200	2500					

BAR WEIGHT

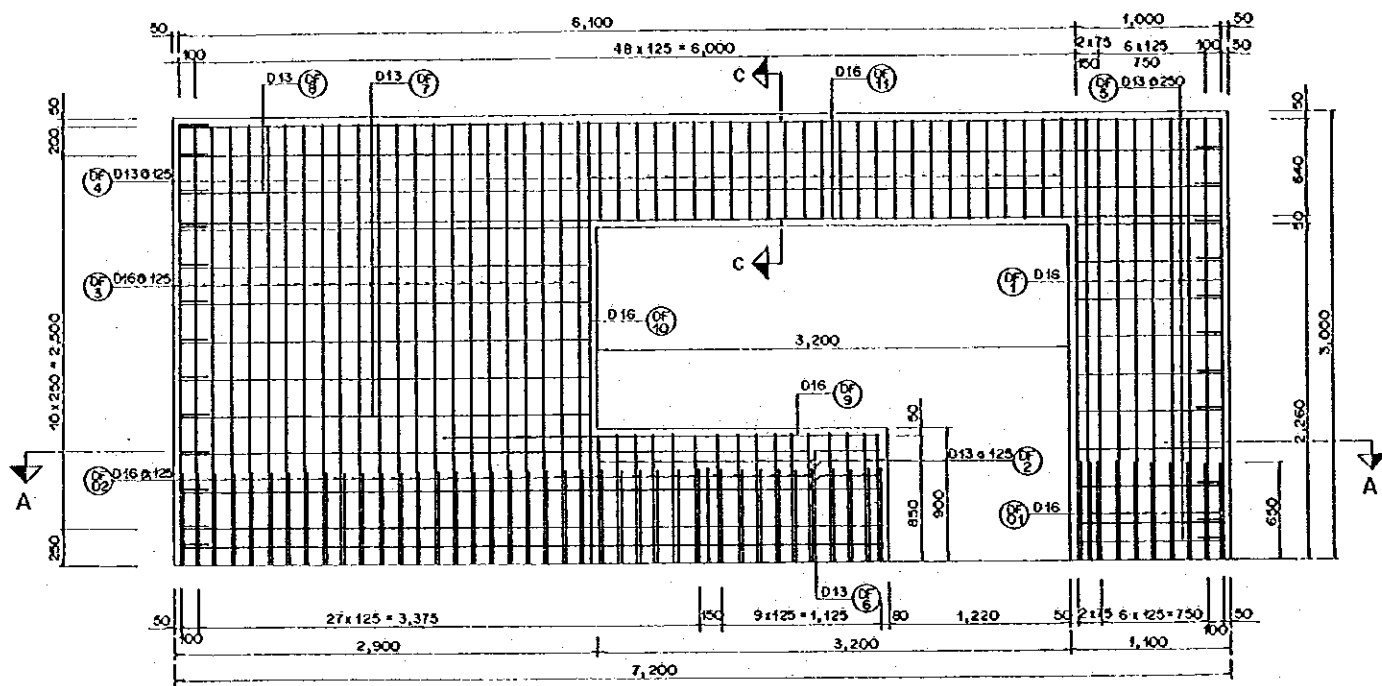
TYPE	DIA (mm)	LENGTH (mm)	NUMBER	WEIGHT PER "M" (kg)	WEIGHT PER "BAR" (kg)	WEIGHT (kg)	SHAPE
C1	13	5112	12	1.04	5.316	64	[Diagram]
C2	13	5912	20	1.04	6.148	123	[Diagram]
C1A	13	4900	12	1.04	5.096	61	[Diagram]
C2A	13	4100	20	1.04	4.264	85	[Diagram]
C3	16	5158	20	1.58	8.15	163	[Diagram]
C4	16	5958	20	1.58	9.414	188	[Diagram]
C3A	16	4900	20	1.58	7.742	155	[Diagram]
C4A	16	4100	20	1.58	6.478	130	[Diagram]
C5	16	4420	4	1.58	6.984	28	[Diagram]
C6	16	5220	4	1.58	8.248	33	[Diagram]
C7	16	6020	4	1.58	9.512	38	[Diagram]
C6A	16	4900	4	1.58	7.742	31	[Diagram]
C7A	16	4100	4	1.58	6.478	26	[Diagram]
C8	13	1900	28	1.04	1.976	55	[Diagram]
C9	13	3015	50	1.04	3.136	157	[Diagram]
C10	13	2529	50	1.04	2.63	132	[Diagram]
C11	13	2379	22	1.04	2.474	54	[Diagram]
C12	16	2613	32	1.58	4.129	132	[Diagram]
C13	16	3000	32	1.58	4.74	152	[Diagram]
C14	16	1610	32	1.58	2.544	81	[Diagram]
C15	13	3540	8	1.58	5.593	45	[Diagram]
H1	22	7560	28	2.98	22.529	631	[Diagram]
H1L	22	1960	5	2.98	5.841	29	[Diagram]
H1M	22	3360	5	2.98	10.013	50	[Diagram]
H1R	22	1960	5	2.98	5.841	29	[Diagram]
H3A	16	4248	51	1.04	4.418	225	[Diagram]
H3AU	16	2248	9	1.04	2.338	21	[Diagram]
H3AD	16	1748	9	1.04	1.818	16	[Diagram]
H2	22	7560	28	2.98	22.529	631	[Diagram]
H2L	22	1960	5	2.98	5.841	29	[Diagram]
H2M	22	3360	5	2.98	10.013	50	[Diagram]
H2R	22	1960	5	2.98	5.841	29	[Diagram]
H3	16	4248	51	1.04	4.418	225	[Diagram]
H3U	16	2248	9	1.04	2.338	21	[Diagram]
H3D	16	1748	9	1.04	1.818	16	[Diagram]
H4	16	2700	32	1.04	2.808	90	[Diagram]
TOTAL						11534	

BAR BENDING DETAIL

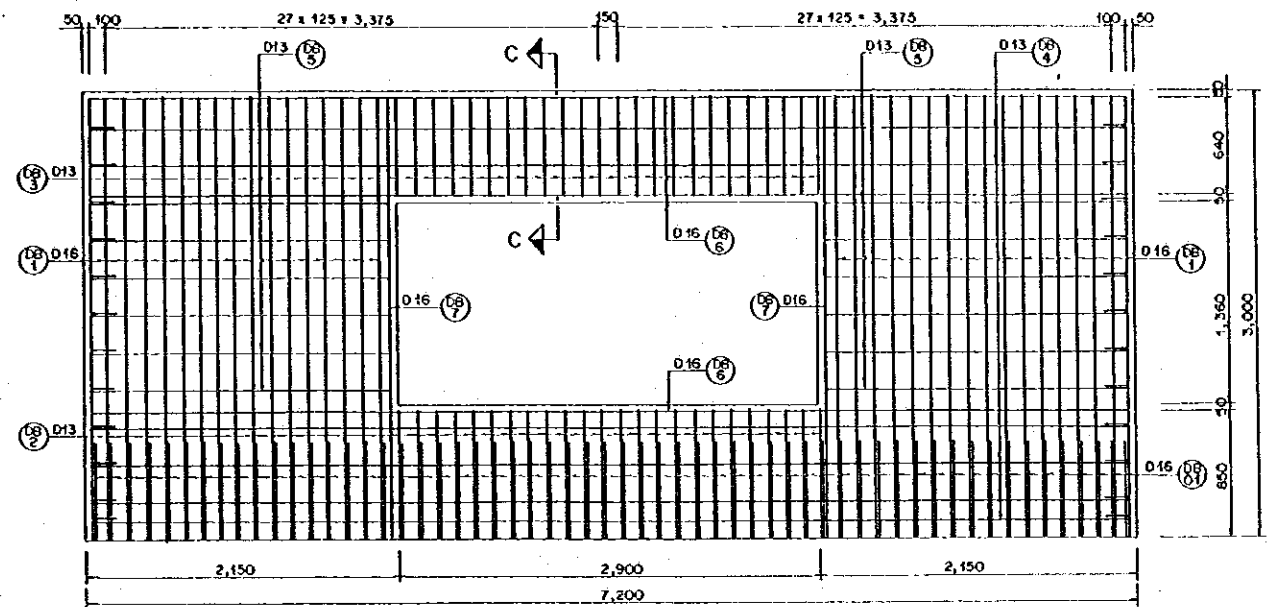
DIA	a	b	l	R	OVERLAP	
					L	WEIGHT (Kg l)
013	66	156	222	42	455	0.453
016	75	193	268	48	560	0.874
019	94	236	330	60	665	1.496
022	104	272	376	66	770	2.341
025	122	306	428	78	875	3.483
029	141	349	490	90	1015	5.116
032	151	385	536	96	1120	6.978

NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

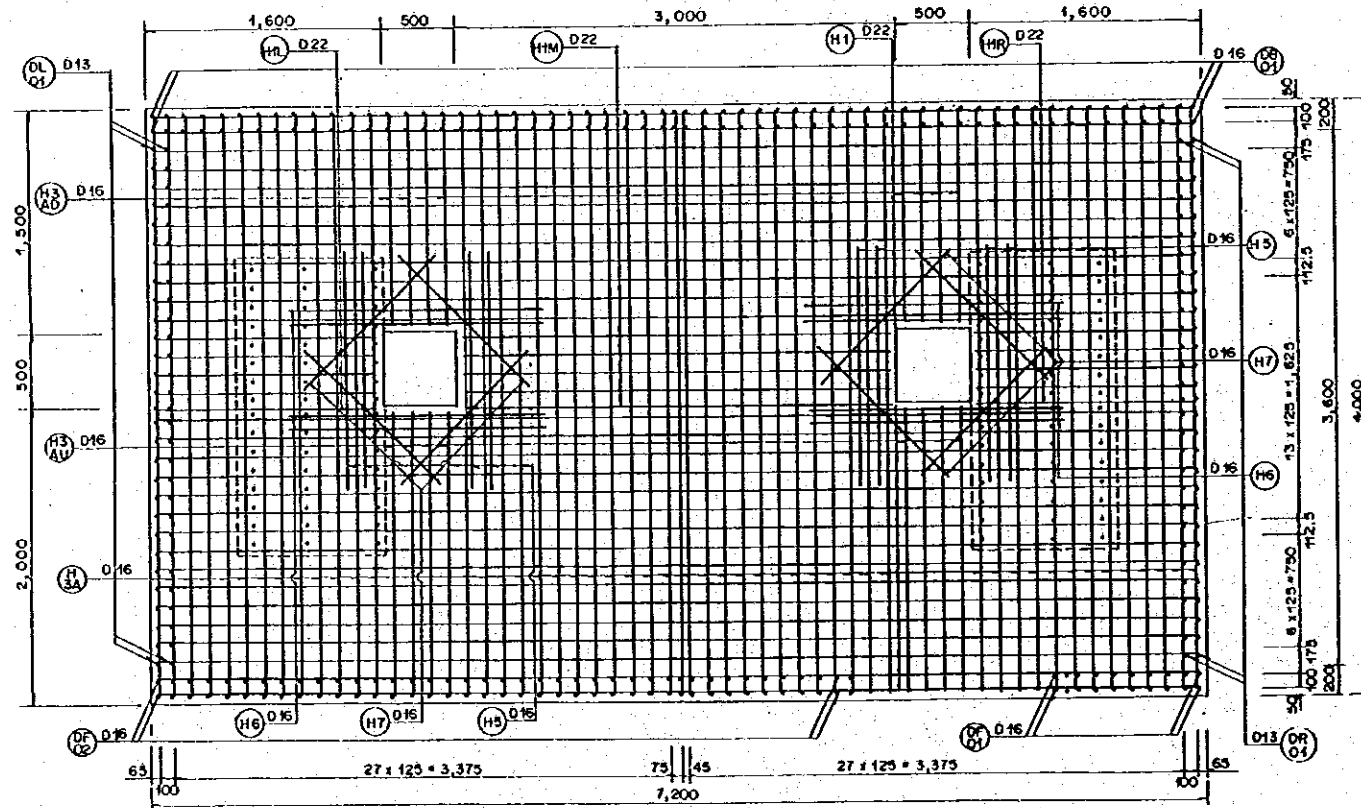
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAWA
BRATUNDELA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT BARU PUMPING STATION GATE REINFORCING BAR ARRANGEMENT FOUNDATION AND PIER (P3)-REINFORCING BAR BENDING SCHEDULE		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 YANCO INTERNATIONAL INC.		DISTRICT SEMARANG CITY
CHECKED DATE		DRAWING NO. U-P3-G-CI-7 SHEET NO. 121
CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		DATE 12/11/11 CONTRACT NO.



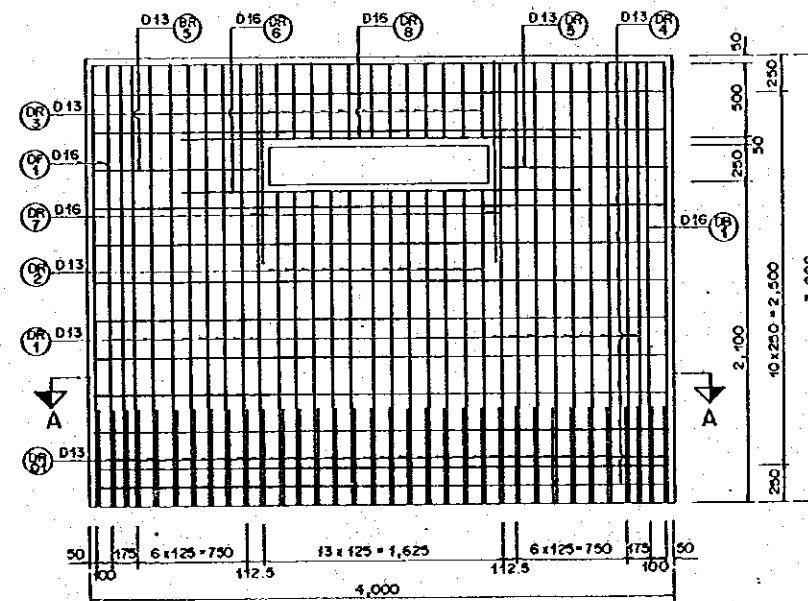
FRONT WALL
SCALE A



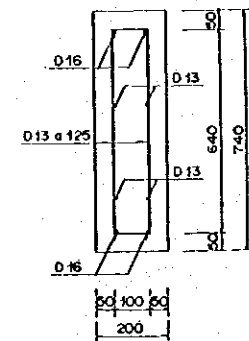
BACK WALL
SCALE A



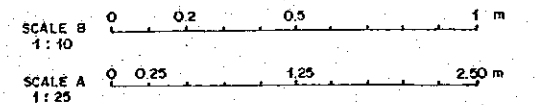
TOP OF FLOOR
SCALE A



RIGHT AND LEFT WALL
SCALE A



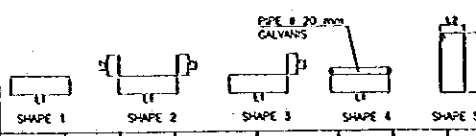
SECTION C-C
SCALE B



NO.	DATE	REVISIONS	PREPARED	DRAWN	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAWA
JATUNIBELAKA FLOOD CONTROL PROJECT COMPONENT: URBAN DRAINAGE SYSTEM IMPROVEMENT BARU PUMPING STATION GATE REINFORCING BAR ARRANGEMENT GATE CONTROL HOUSE (2/3)		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
LAPAN INTERNATIONAL COOPERATION AGENCY CIL INTERNATIONAL CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND LAPAN INTERNATIONAL INC. CHIEF OF PLANNING AND DESIGN		DISTRICT SEMARANG CITY
DESIGNED CHECKED PROJECT MANAGER		DRAWING NO. U-P3-6-C1-9 SHEET NO. 123 DATE CONTRACT NO.

BAR BENDING SCHEDULE

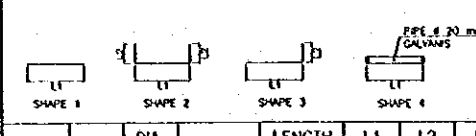


TYPE	SHAPE	DIA (mm)	NUMBER	LENGTH (mm)	L1 (mm)	L2 (mm)	L3 (mm)
RIGHT WALL							
DR1	1	13	32	2950	2950		
DR2	1	13	26	2160	2160		
DR3	5	13	13	1230	450	100	
DR4	2	13	22	4100	3900	100	
DR5	3	13	4	1250	1150	100	
DR6	1	16	2	2800	2800		
DR7	1	16	4	1266	1266		
DR8	2	16	4	4100	3900	100	
LEFT WALL							
DL1	1	13	32	2950	2950		
DL2	1	13	26	2160	2160		
DL3	5	13	13	1230	450	100	
DL4	2	13	22	4100	3900	100	
DL5	3	13	4	1250	1150	100	
DL6	1	16	2	2800	2800		
DL7	1	16	4	1266	1266		
DL8	2	16	4	4100	3900	100	
FRONT WALL							
DF1	1	16	20	2950	2950		
DF2	1	13	32	760	760		
DF3	1	16	46	2950	2950		
DF4	5	13	26	1610	640	100	
DF5	3	13	20	1100	1000	100	
DF6	3	13	8	4880	4720	100	
DF7	3	13	12	2900	2800	100	
DF8	2	13	4	7300	7100	100	
DF9	1	16	2	2950	2950		
DF10	1	16	2	2950	2950		
DF11	1	16	4	7100	7100		
BACK WALL							
DB1	1	16	68	2950	2950		
DB2	1	13	48	760	760		
DB3	5	13	24	1610	640	100	
DB4	2	13	12	7300	7100	100	
DB5	3	13	24	2150	2050	100	
DB6	1	16	6	7113	7113		
DB7	1	16	4	2950	2950		

BAR WEIGHT

TYPE	DIA (mm)	LENGTH (mm)	NUMBER	WEIGHT/m (kg l/m)	WEIGHT/BAR (kg l)	WEIGHT (kg l)	SHAPE
RIGHT WALL							
DR1	13	2950	32	1.04	3.078	99	---
DR2	13	2160	26	1.04	2.246	58	---
DR3	13	1276	13	1.04	1.327	17	---
DR4	13	4100	22	1.04	4.264	94	---
DR5	13	1250	4	1.04	1.3	5	---
DR6	16	2800	2	1.58	4.424	9	---
DR7	16	1266	4	1.58	2	8	---
DR8	16	4100	4	1.58	6.478	26	---
LEFT WALL							
DL1	13	2950	32	1.04	3.078	99	---
DL2	13	2160	26	1.04	2.246	58	---
DL3	13	1276	13	1.04	1.327	17	---
DL4	13	4100	22	1.04	4.264	94	---
DL5	13	1250	4	1.04	1.3	5	---
DL6	16	2800	2	1.58	4.424	9	---
DL7	16	1266	4	1.58	2	8	---
DL8	16	4100	4	1.58	6.478	26	---
FRONT WALL							
DF1	16	2950	20	1.58	4.677	94	---
DF2	13	760	32	1.04	0.790	26	---
DF3	16	2950	46	1.58	4.677	215	---
DF4	13	1636	26	1.04	1.701	44	---
DF5	13	1100	20	1.04	1.144	23	---
DF6	13	4880	8	1.04	5.075	41	---
DF7	13	2900	12	1.04	3.015	36	---
DF8	13	7300	4	1.04	7.592	30	---
DF9	16	2950	2	1.58	4.661	9	---
DF10	16	2950	2	1.58	4.677	9	---
DF11	16	7100	4	1.58	11.218	45	---
BACK WALL							
DB1	16	2950	68	1.58	4.677	318	---
DB2	13	760	48	1.04	0.790	38	---
DB3	13	1610	24	1.04	1.674	40	---
DB4	13	7400	12	1.04	7.696	92	---
DB5	13	2200	24	1.04	2.288	55	---
DB6	16	7113	6	1.58	11.239	67	---
DB7	16	2950	4	1.58	4.677	19	---

BAR BENDING SCHEDULE



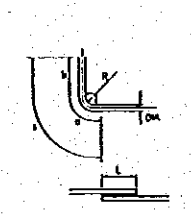
TYPE	SHAPE	DIA (mm)	NUMBER	LENGTH (mm)	L1 (mm)	L2 (mm)	L3 (mm)
ROOF A							
R1	1	13	13	4900	4900		
R1A	1	13	13	4900	4900		
R2	1	13	21	1392	1392		
R2A	1	13	21	1392	1392		
R3	1	16	4	1392	1392		
R3A	1	16	4	1392	1392		
R4	1	16	4	3600	3600		
R4A	1	16	4	3600	3600		
PIPE	4	21.7	8	150	150		
ROOF B							
R1	1	13	11	4900	4900		
R1A	1	13	11	4900	4900		
R2	1	13	21	1185	1185		
R2A	1	13	21	1185	1185		
R3	1	16	4	1185	1185		
R3A	1	16	4	1185	1185		
R4	1	16	4	3600	3600		
R4A	1	16	4	3600	3600		
PIPE	4	21.7	8	150	150		

BAR WEIGHT

TYPE	DIA (mm)	LENGTH (mm)	NUMBER	WEIGHT/m (kg l/m)	WEIGHT/BAR (kg l)	WEIGHT (kg l)	SHAPE
ROOF A							
R1	13	4900	13	1.04	5.096	66	---
R1A	13	4900	13	1.04	5.096	66	---
R2	13	1392	21	1.04	1.448	30	---
R2A	13	1392	21	1.04	1.448	30	---
R3	16	1392	4	1.58	2.199	9	---
R3A	16	1392	4	1.58	2.199	9	---
R4	16	3600	4	1.58	5.688	23	---
R4A	16	3600	4	1.58	5.688	23	---
PIPE	21.7	150	8	1.10	0.165	1	---
ROOF B							
R1	13	4900	11	1.04	5.096	56	---
R1A	13	4900	11	1.04	5.096	56	---
R2	13	1185	21	1.04	1.232	26	---
R2A	13	1185	21	1.04	1.232	26	---
R3	16	1185	4	1.58	1.872	7	---
R3A	16	1185	4	1.58	1.872	7	---
R4	16	3600	4	1.58	5.688	23	---
R4A	16	3600	4	1.58	5.688	23	---
PIPE	21.7	150	8	1.10	0.165	1	---

Note : NUMBER OF ROOF A=2
NUMBER OF ROOF B=4

BAR BENDING DETAIL



DIA	o	b	l	R	OVERLAP	
					L	WEIGHT (Kg l)
013	66	156	222	42	455	0.453
016	75	193	268	48	560	0.874
019	94	236	330	60	665	1.496
022	104	272	376	68	770	2.341
025	122	306	428	78	875	3.483
029	141	349	490	90	1015	5.116
032	151	385	536	96	1120	6.978

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT BRATUNGLUNA FLOOD CONTROL PROJECT COMPONENT : URBAN DRAINAGE SYSTEM IMPROVEMENT BARU PUMPING STATION GATE REINFORCING BAR ARRANGEMENT GATE CONTROL HOUSE (3/3)-REINFORCING BAR BENDING SCHEDULE				PROVINCE CENTRAL JAVA DISTRICT SEMARANG CITY DRAWING NO. U-P3-G-CI-10 SHEET NO. 124	
JAPAN INTERNATIONAL COOPERATION AGENCY CITY ENGINEERING CO., LTD. in association with PACIFIC CONSULTANTS INTERNATIONAL AND PACO INTERNATIONAL INC. CHIEF OF PLANNING AND DESIGN PROJECT MANAGER				DATE CONTRACT NO.	
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED