

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

MINISTRY OF SETTLEMENT AND REGIONAL DEVELOPMENT
THE REPUBLIC OF INDONESIA

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

FINAL REPORT

COMPLETION DATE: 1999

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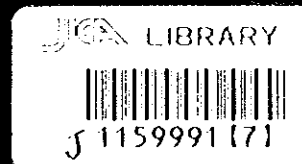
COMPLETION DATE: 1999

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AUGUST 2000

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



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MINISTRY OF SETTLEMENT AND REGIONAL DEVELOPMENT
THE REPUBLIC OF INDONESIA

FLOOD CONTROL, URBAN DRAINAGE AND
WATER RESOURCES DEVELOPMENT IN SEMARANG

COMPONENT B: CONSTRUCTION OF THE JATIBARANG MULTIPURPOSE DAM

BIDDING DOCUMENTS

PACKAGE 2:

**OPERATION AND MAINTENANCE BUILDINGS
AND
GOA KREO BRIDGE**

VOLUME 3

DRAWINGS

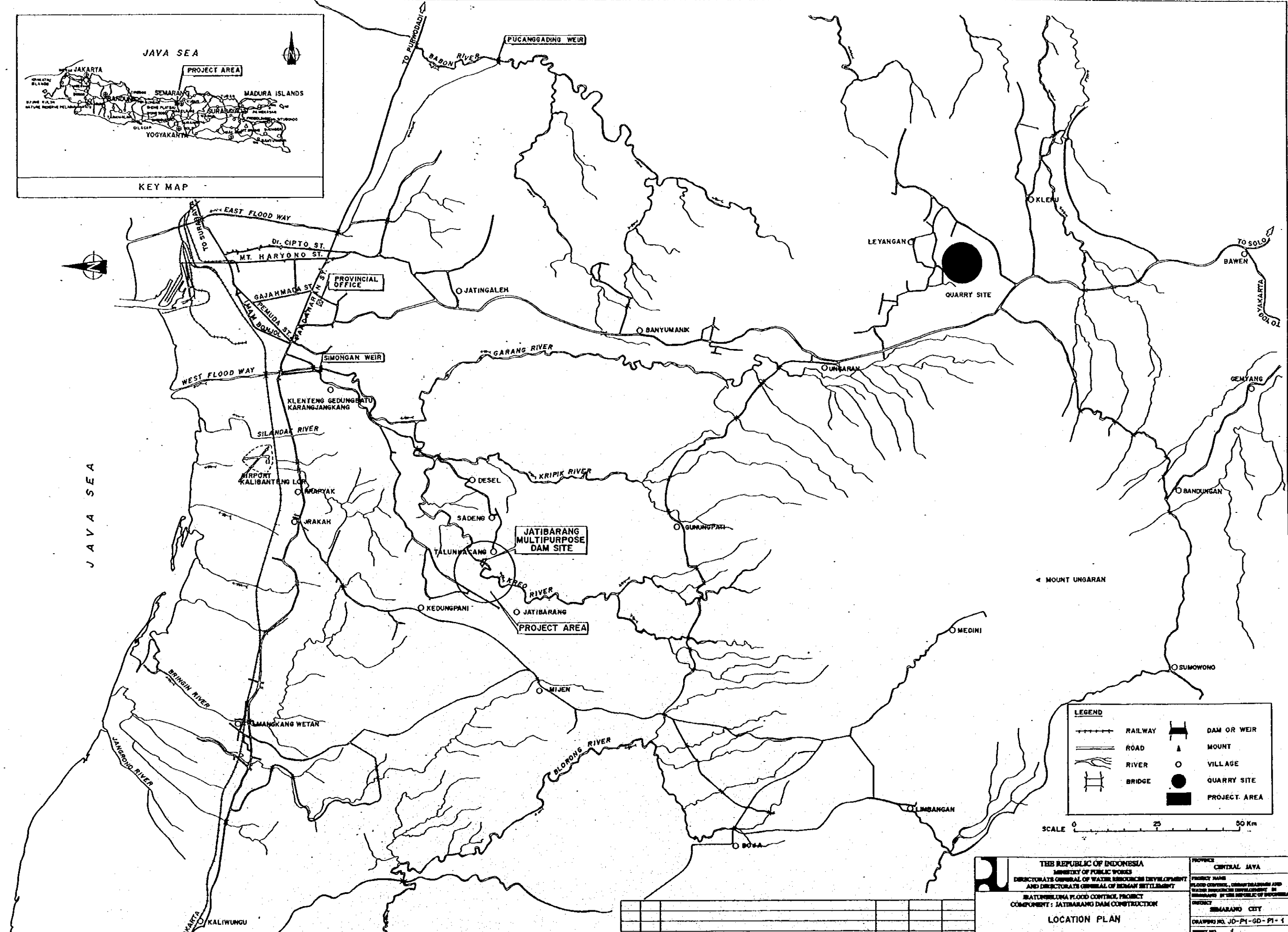
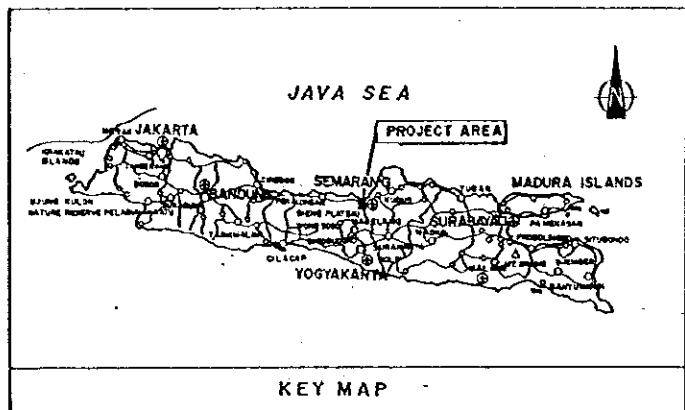
AUGUST 2000



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PACKAGE - 2 : OPERATION AND MAINTENANCE BUILDINGS AND GOA KREO BRIDGE
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36	JD-P2-MC-Gh-3	STAFF HOUSE 1 (GUEST HOUSE) - DETAIL OF BEDROOM AND TOILET			



LEGEND

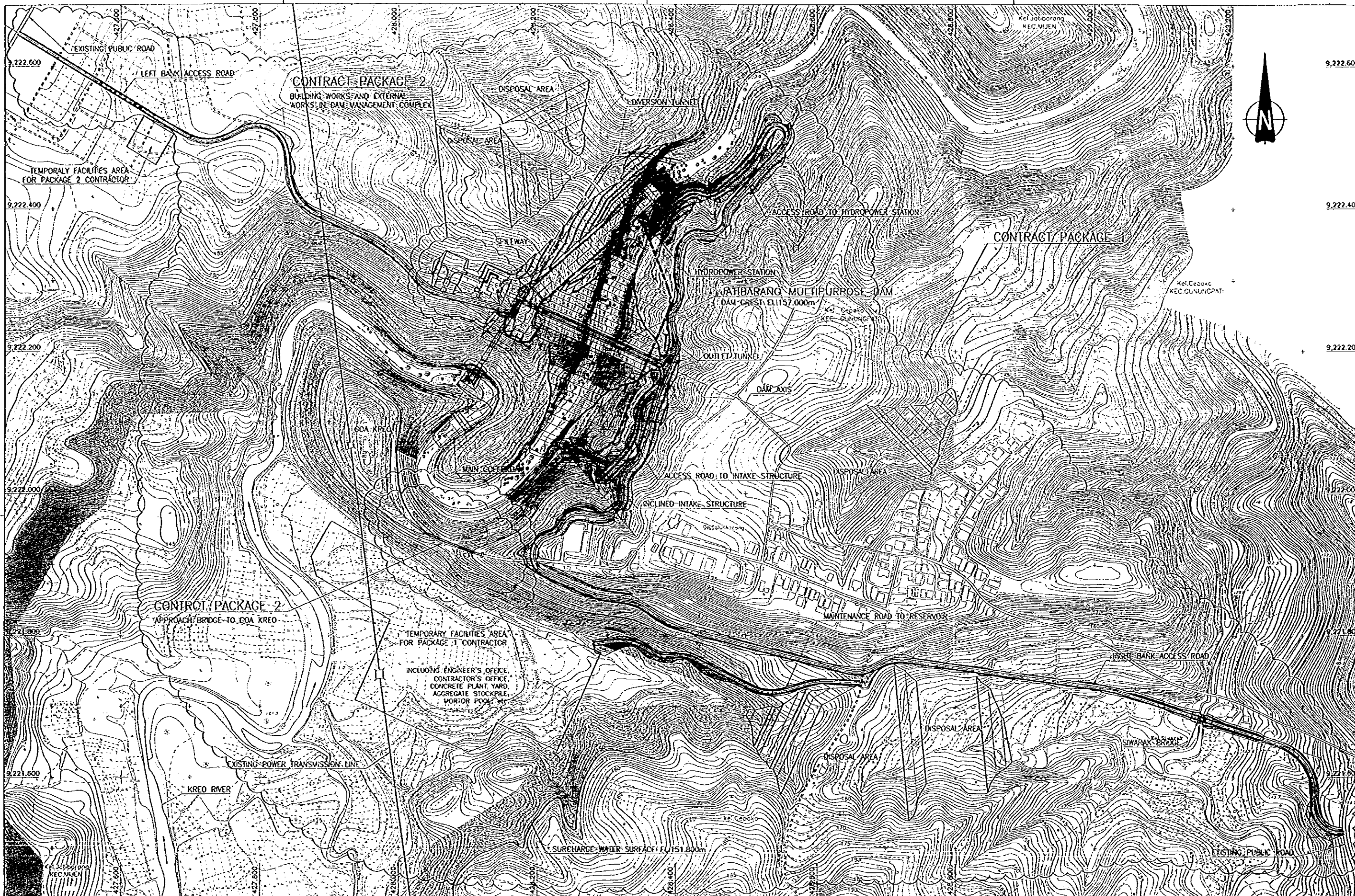
	RAILWAY		DAM OR WEIR
	ROAD		MOUNT
	RIVER		VILLAGE
	BRIDGE		QUARRY SITE
			PROJECT AREA

SCALE 0 25 50 Km

NOTE: QUARRY SITE DESIGNATED ON THE DRAWING WILL BE USED BY PACKAGE 1(ONE) CONTRACTOR.

NO.	DATE	REVISIONS	ORDERED	DRAWN	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENTS		PROVINCE CENTRAL JAWA
BATUNGKULU FLOOD CONTROL PROJECT COMPONENT: JATIBARANG DAM CONSTRUCTION		PROJECT NAME FLOOD CONTROL, BATUNGKULU AND WATER RESOURCES DEVELOPMENT IN BATUNGKULU BY THE REPUBLIC OF INDONESIA
LOCATION PLAN		DISTRICT SEMARANG CITY
DRAWING NO. JD-P1-GD-P1-1		SHEET NO. 1
DATE		CONTRACT NO.
APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		DATED



NOTES

1. THE MAJOR WORKS TO BE CARRIED OUT UNDER THE CONTRACT PACKAGE 1 SHALL CONSIST OF, BUT NOT BE LIMITED TO, THE CONSTRUCTION OF JATIBARANG MULTIPURPOSE DAM INCLUDING THE APPURTENANT STRUCTURES SUCH AS SPILLWAY, OUTLET FACILITIES, DIVERSION FACILITIES, HYDROPOWER STATION, ACCESS ROADS AND RELOCATION OF EXISTING POWER TRANSMISSION LINE.
2. THE MAJOR WORKS TO BE CARRIED OUT UNDER THE CONTRACT PACKAGE 2 SHALL CONSIST OF, BUT NOT BE LIMITED TO, THE CONSTRUCTION OF THE BUILDINGS AND EXTERNAL WORKS IN THE DAM MANAGEMENT COMPLEX, AND THE APPROACH BRIDGE TO GOA KREO CAVE.
3. THE EXCAVATION WORKS OF THE DAM MANAGEMENT COMPLEX AREA SHALL BE CARRIED OUT BY THE PACKAGE 1 CONTRACTOR.

SCALE 0 50 100 150 200 250m

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 JATISSELUNA FLOOD CONTROL PROJECT COMPONENT : JATIBARANG DAM CONSTRUCTION GENERAL DRAWINGS GENERAL PROJECT PLAN		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. JD-P2-GD-PI-2 SHEET NO. 2 DATE CONTRACT NO.
JAPAN INTERNATIONAL COOPERATION AGENCY CITI ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL PACICO INTERNATIONAL INC.	DESIGNED CHECKED APPROVED	APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER

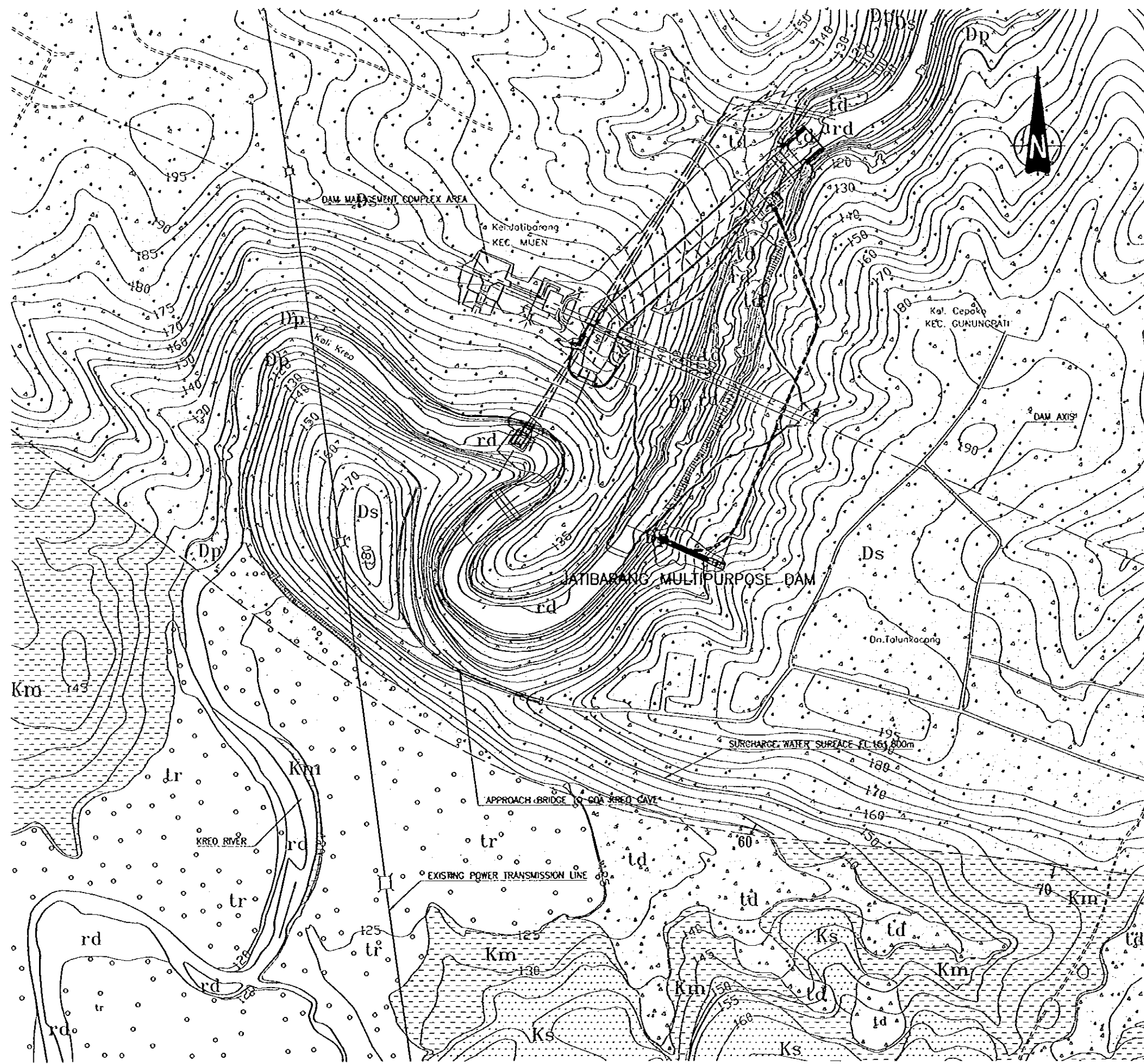


NOTES

1. THE MAJOR WORKS TO BE CARRIED OUT UNDER THE CONTRACT PACKAGE 2 SHALL CONSIST OF, BUT NOT BE LIMITED TO, THE CONSTRUCTION OF THE BUILDINGS AND EXTERNAL WORKS IN THE DAM MANAGEMENT COMPLEX, AND THE APPROACH BRIDGE TO GOA KREO CAVE.
2. THE EXCAVATION WORKS OF THE DAM MANAGEMENT COMPLEX AREA SHALL BE CARRIED OUT BY THE PACKAGE 1 CONTRACTOR.

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 : JATIBARANG DAM CONSTRUCTION GENERAL DRAWINGS GENERAL PLAN OF SITE		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG, IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY
D2AN INTERNATIONAL COOPERATION AGENCY CII ENGINEERING CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL PACIFIC INTERNATIONAL INC.		DRAWING NO. JO-P2-GD-P1-3 SHEET NO. 3
DESIGNED CHECKED CHIEF OF PLANNING AND DESIGN	DATE CONTRACT NO.	PROJECT MANAGER



LEGEND

(Geological Strata)

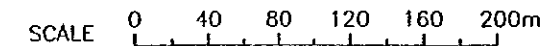
Age	Formation and Strata Name	Symbol	Description
Quaternary Holocene	Riverbed Deposit	rd	The deposit is distributed at the existing riverbed and the flood plain. It mainly consists of gravel, sand and clay, and it contains the huge fallen rocks in the gorge area, which was formed by Kreo River.
	Talus Deposit	td	The deposit is distributed at the skirt of the mountainside slope. It consists of failure soil and sand, detritus and fallen rocks.
	Terrace Deposit	tr	The deposit forms the terrace plain along the riverbed, and the relative height of the plain is less than 3 m from the riverbed. Terrace deposit can be divided into two layers, the upper layer mainly consists of silt, and the lower layer mainly consists of sand and gravel.
Tertiary-Quaternary Pliocene-Pleistocene	Kaligetas Sedimentary Rock Unit	Km	Kaligetas formation is distributed at the south side of a fault, which located 400 m southwest of the damsite. This fault has direction from east to northwest and forms a boundary of Damar formation and Kerek and Kaligetas formations. Sedimentary rock unit is formed by complicated alternation which mainly consists of conglomerate, conglomeratic sandstone, tuffaceous sandstone and sandstone. Cracks hardly develop in the bedrock, and the degree of cementation and the hardness of rock are comparatively low.
		Damar Sedimentary Rock Unit	Ds
	Pyroclastic Rock Unit	Dp	Pyroclastic rock unit mainly consists of volcanic breccia, and partly contains mafic tuff and andesite lava. The volcanic breccia contains fragments of andesite and pumice, and matrix consists of mafic tuff. Cracks hardly develop in the bedrock, but the hardness of rock is comparatively high.
Tertiary Miocene-Pliocene	Kerek Sedimentary Rock Unit	Ks	Kerek formation is distributed at the south side of the above mentioned fault. Sedimentary rock unit mainly consists of siltstone whose color is greenish dark gray, and partly contains coral limestone. The hardness of siltstone is comparatively low, and slickenside develops around the fault.

— BOUNDARY OF GEOLOGICAL UNIT AND STRATUM

— FAULT AND DIP/STRIKE

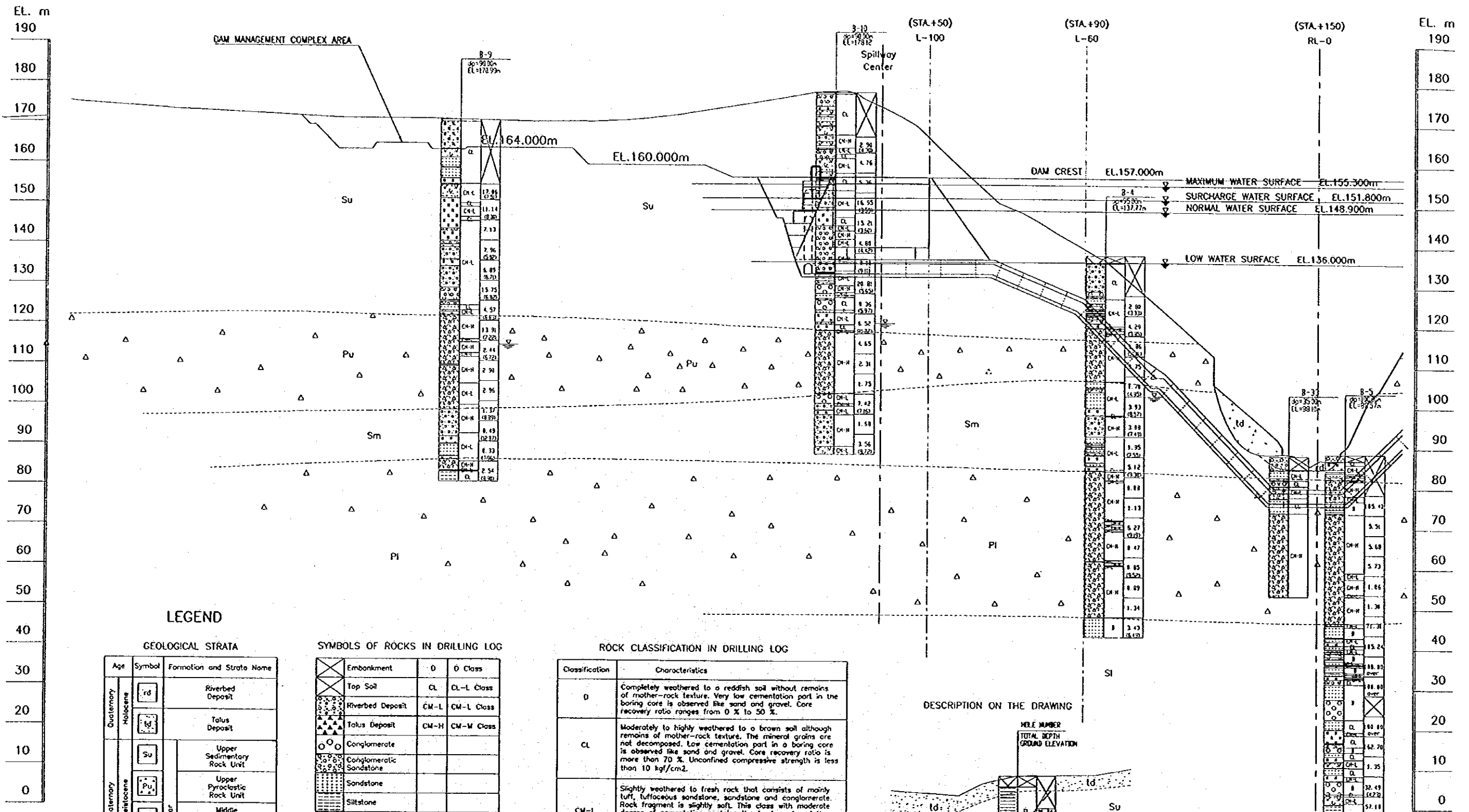
NOTE

1. THIS GEOLOGICAL PLAN IS ONLY FOR REFERENCE.



NO.	DATE	REVISERS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIREKTORAT JENDERAL PENGEMBANGAN DAN PELAYANAN DASAR DAN DIREKTORAT JENDERAL PERENCANAAN DAN KEBANGSAHANSISWAAN		PROVINSI CENTRAL JAVA
JATUNSELUMA FLOOD CONTROL PROJECT COMPONENT : JATIBARANG DAM CONSTRUCTION GEOLOGY GEOLOGICAL PLAN OF SITE		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA DISTRICT SEMARANG CITY DRAWING NO. JD-P2-GE-PI-1 SHEET NO. 4
LAJAN INTERNATIONAL COOPERATION AGENCY CIL (INDONESIA) CO., LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL PASOBI BUSINESS CONSULTING INC.	DESIGNED CHECKED PROJECT MANAGER	DATE CONTRACT NO.



LEGEND

GEOLOGICAL STRATA

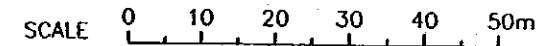
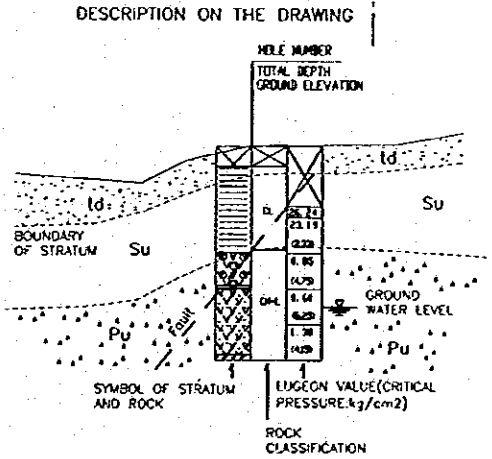
Age	Symbol	Formation and Strata Name
Quaternary	rd	Riverbed Deposit
	td	Talus Deposit
Tertiary-Quaternary	Su	Upper Sedimentary Rock Unit
	Pu	Upper Pyroclastic Rock Unit
	Sm	Middle Sedimentary Rock Unit
	Pl	Lower Pyroclastic Rock Unit
	Si	Lower Sedimentary Rock Unit

SYMBOLS OF ROCKS IN DRILLING LOG

Symbol	Rock Name	O Class	O Class
⊗	Embankment	O	O Class
⊙	Top Soil	CL	CL-L Class
⊠	Riverbed Deposit	CM-L	CM-L Class
⊡	Talus Deposit	CM-H	CM-M Class
⊙	Conglomerate		
⊙	Conglomeratic Sandstone		
⊙	Sandstone		
⊙	Siltstone		
⊙	Tuffaceous Sandstone		
⊙	Sandy Tuff		
⊙	Tuff		
⊙	Volcanic Conglomerate		
⊙	Volcanic Breccia		
⊙	Andesite Lava		

ROCK CLASSIFICATION IN DRILLING LOG

Classification	Characteristics
O	Completely weathered to a reddish soil without remains of mother-rock texture. Very low cementation part in the boring core is observed like sand and gravel. Core recovery ratio ranges from 0 % to 50 %.
CL	Moderately to highly weathered to a brown soil although remains of mother-rock texture. The mineral grains are not decomposed. Low cementation part in a boring core is observed like sand and gravel. Core recovery ratio is more than 70 %. Unconfined compressive strength is less than 10 kgf/cm ² .
CM-L	Slightly weathered to fresh rock that consists of mainly tuff, tuffaceous sandstone, sandstone and conglomerate. Rock fragment is slightly soft. This class with moderate degree of cementation contains the fresh part and the relatively weathered part, but they have the almost same hardness. Unconfined compressive strength ranges between 10 and 85 kgf/cm ² .
CM-H	Slightly weathered to fresh rock that consists of mainly volcanic breccia, conglomeratic sandstone and volcanic conglomerate. Rock fragment is relatively hard. This class with high degree of cementation contains the fresh part and the relatively weathered part, but they have the almost same hardness. Unconfined compressive strength ranges between 22 and 92 kgf/cm ² .



NOTE
1. THIS GEOLOGICAL PROFILE IS ONLY FOR REFERENCE.

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
PROJECT NAME: PEKUNING FLOOD CONTROL PROJECT
COMPONENT: JATIBARANG DAM CONSTRUCTION
GEOLOGY
GEOLOGICAL PROFILE ALONG DAM AXIS

DRAWING NO. JO-P2-GE-Pr-1
SHEET NO. 5

DATE: 1981
CONTRACT NO.:

APPROVED: [Signature]
PROJECT MANAGER

GENERAL ABBREVIATION & SYMBOL

JATIBARANG DAM MANAGEMENT COMPLEX

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 FOLLO.</p>	<table border="0" style="width: 100%;"> <tr> <td style="width: 33%;"> <p>ABV. ABOVE</p> <p>A/C AIR CONDITIONING</p> <p>ACO.TILE ACOUSTICAL TILE</p> <p>ADJ. ADJUSTABLE</p> <p>ALT. ALTERNATIVE</p> <p>ALF. ALUMINUM FOIL</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>ANG. ANGLE</p> <p>O. AT</p> <p>B. BASE</p> <p>B.B. BASEBOARD</p> <p>B.D. BOARD</p> <p>BLDG. BUILDING</p> <p>B.M. BENCH MARK</p> <p>BTWN. 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.M.T. CERAMIC TILE</p> <p>C.A. COLOR ANOXYZED</p> <p>COL. COLUMN</p> <p>COR. CORRIDOR</p> <p>CONT. CONTINUOUS</p> <p>CEMNT.C.H. CEMENT MORTAR TROWEL W / COLOUR HARDENER</p> <p>DA. DIAMETER</p> <p>DM. 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>EA. EACH</p> <p>ELEC. ELECTRICITY</p> <p>ELV. ELEVATOR</p> <p>E.P.S. ELECTRIC PIPE SHAFT</p> <p>E.Q. EQUAL</p> <p>EXH. EXHAUST</p> <p>EXPU. EXPOSED</p> <p>E.J. EXPANSION JOINT</p> <p>EXT. EXTERIOR</p> <p>EQUIP. EQUIPMENT</p> <p>E.W.C. ELECTIVE WATER CLOSET</p> <p>E.R.C. EPOXY RESIN COATING</p> </td> <td style="width: 33%;"> <p>FL. FLOOR</p> <p>FIB. FIBRE</p> <p>(F) FEMALE</p> <p>FIN. FINISH</p> <p>F.DMP. FIRE DAMPER</p> <p>F.H. FIRE HYDRANT</p> <p>F.PRTC. FIRE PROTECTION</p> <p>F.D. FLOOR DRAIN</p> <p>FL. FLOOR LEVEL</p> <p>FTG. FOOTING</p> <p>FD. FOUNDATION</p> <p>F. FIBRE</p> <p>FCB. FIBRE CEMENT BOARD</p> <p>OLS. GLASS</p> <p>GALV. GALVANIZED</p> <p>G.I. GALVANIZED IRON</p> <p>GFL. 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>GYP. GYPSUM</p> <p>GR. GRILL</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>HOWD. HARDWOOD</p> <p>HOZL. HORIZONTAL</p> <p>H.B. HOOK BATTEN W/S/P</p> <p>LD. INSIDE DIAMETER</p> <p>INSUL. INSULATION</p> <p>INT. INTERIOR</p> <p>JT. JOINT</p> <p>L. 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NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED	APPROVED

<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>IRATUNSELUNA FLOOD CONTROL PROJECT</p> <p>COMPONENT : JATIBARANG DAM CONSTRUCTION</p> <p>JATIBARANG DAM MANAGEMENT COMPLEX</p> <p>GENERAL ABBREVIATION & SYMBOL</p> <p>GENERAL</p>		<p>PROJECT NAME</p> <p>IRATUNSELUNA FLOOD CONTROL PROJECT</p> <p>DISTRICT</p> <p>SEMARANG CITY</p> <p>DRAWING NO. J0-P2-MC-Ge-1</p> <p>SHEET NO. 6</p>
<p>DATE</p> <p> </p>	<p>CONTRACT NO.</p> <p> </p>	<p>DESIGNED</p> <p> </p>
<p>CHECKED</p> <p> </p>	<p>APPROVED</p> <p> </p>	<p>PROJECT MANAGER</p> <p> </p>

EXTERIOR FINISH SCHEDULE

EXTERIOR FINISH SCHEDULE FOR OFFICE ADMINISTRATION BUILDING

ITEMS	
ROOF :	
MAIN ROOF	CERAMIC TILE ROOF
VALLEY	COLORBOND METAL SHEET SIMILAR COLOR WITH ROOF
FASCIA	EXTERIOR WOOD PAINT FINISH ON BENGKIRAN WOOD
EXTERIOR WALL :	
WALL	TERACOTA TILE 100x200 DOFF EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
COLUMN	TERACOTA TILE 100x200 DOFF EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
BEAM	MORTAR PLASTERING EXPOSE EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
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 FIBER CEMENT
LOUVER	ANODIZED ALUMINUM LOUVER
DOOR	ANODIZED ALUMINUM DOOR FRAME W/ GLASS OR PAINTED PLYWOOD LEAVES
WINDOW	ANODIZED ALUMINUM WINDOW FRAME W/ GLASS

EXTERIOR FINISH SCHEDULE FOR STAFF HOUSE 2

ITEMS	
ROOF :	
MAIN ROOF	CERAMIC TILE ROOF
VALLEY	COLORBOND METAL SHEET SIMILAR COLOR WITH ROOF
FASCIA	EXTERIOR WOOD PAINT FINISH ON BENGKIRAN WOOD
EXTERIOR WALL :	
WALL	TERACOTA TILE 100x200 DOFF EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
COLUMN	TERACOTA TILE 100x200 DOFF EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
BEAM	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
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 FIBER CEMENT
LOUVER	ANODIZED ALUMINUM LOUVER
DOOR	ANODIZED ALUMINUM DOOR FRAME W/ PAINTED PLYWOOD LEAVES
WINDOW	ANODIZED ALUMINUM WINDOW FRAME W/ GLASS

EXTERIOR FINISH SCHEDULE FOR STAFF HOUSE A (GUEST HOUSE)

ITEMS	
ROOF :	
MAIN ROOF	CERAMIC TILE ROOF
VALLEY	COLORBOND METAL SHEET SIMILAR COLOR WITH ROOF
FASCIA	EXTERIOR WOOD PAINT FINISH ON BENGKIRAN WOOD
EXTERIOR WALL :	
WALL	TERACOTA TILE 100x200 DOFF EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
COLUMN	TERACOTA TILE 100x200 DOFF EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
BEAM	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
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 FIBER 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

EXTERIOR FINISH SCHEDULE FOR MUSHOLA

ITEMS	
ROOF :	
MAIN ROOF	CERAMIC TILE ROOF
VALLEY	COLORBOND METAL SHEET SIMILAR COLOR WITH ROOF
FASCIA	EXTERIOR WOOD PAINT FINISH ON BENGKIRAN WOOD
EXTERIOR WALL :	
WALL	TERACOTA TILE 100x200 DOFF EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
COLUMN	TERACOTA TILE 100x200 DOFF EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
BEAM	EXTERIOR PAINT FINISH ON CEMENT MORTAR TROWEL
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 FIBER 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

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 : JATIBARANG DAM CONSTRUCTION JATIBARANG DAM MANAGEMENT COMPLEX EXTERIOR FINISH SCHEDULE GENERAL					PROJECT NAME FLOOD CONTROL URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG BY THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY JICA PACIFIC CONSULTANTS INTERNATIONAL, INC. PROJECT MANAGER					DISTRICT SEMARANG CITY
DISEIGNED <i>[Signature]</i> CHECKED <i>[Signature]</i> DATE _____ CONTRACT NO. _____					DRAWING NO. JD-P2-MC-G4-2 SHEET NO. 7
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED


INTERIOR FINISH SCHEDULE

JATIBARANG DAM MANAGEMENT COMPLEX		FLOOR	BASE	WALL	CEILING	ACCESSORIES	CEILING HEIGHT
ROOM NUMBER	ROOM NAMES	CERAMIC TILE 300 mm x 300 mm CERAMIC TILE (NON SLIP) 300 mm x 300 mm CERAMIC TILE (NON SLIP) 200 mm x 200 mm CERAMIC TILE 400 mm x 400 mm CONCRETE W/ MORTAR FIN	MORTAR TROWEL FIN. W/ PAINT MORTAR TROWEL FIN. BASE W/ WATER RESISTANT PAINT MORTAR TROWEL FIN. BASE W/ WATER RESISTANT PAINT OVER LAVATORY RAYBAND GLASS HEIGHT 100 mm RAMIN WOOD FIN. EPOXY H=100 MORTAR TROWEL FIN. W/ PAINT CERAMIC TILE 200 mm x 200 mm SKIRTING WOOD LUMBER SERING l=1200 x t=12, h=900 mm	GYPSUM BOARD W/ PAINT W/ WOODEN FRAME WATERPROOF GYPSUM BOARD 120 x 24, t=9 mm FIBRE CEMENT BOARD W/ WOODEN FRAME W/ PAINT WOODEN LUMBER SERING l=100 x t=12	COUNTER DESK MIRROR ABOVE THE WASTAFEL UNDER FLOOR DUCTING AIR CONDITION		
	ADMINISTRATON OFFICE						
1	LOBBY						
2	HALL						3000
3	STAIRS						
4	OFFICE 1						3500
5	OFFICE 2						3500
6	OFFICE 3						3500
7	OFFICE 4						3500
8	OFFICE 5						3500
9	CHIEF ROOM						3500
10	DINING ROOM						3500
11	PANTRY						3500
12	TOILET (MEN)						3000
13	TOILET (LADIES)						3000
14	MEETING ROOM						3000
15	WATCHING						3000
16	CORRIDOR						3000
17	TERRACE						3700

INTERIOR FINISH SCHEDULE

JATIBARANG DAM MANAGEMENT COMPLEX		FLOOR	BASE	WALL	CEILING	ACCESSORIES	CEILING HEIGHT
ROOM NUMBER	ROOM NAMES	CERAMIC TILE 300 mm x 300 mm CERAMIC TILE (NON SLIP) 300 mm x 300 mm CERAMIC TILE (NON SLIP) 200 mm x 200 mm CERAMIC TILE 400 mm x 400 mm CONCRETE W/ MORTAR FIN	MORTAR TROWEL FIN. W/ PAINT MORTAR TROWEL FIN. BASE W/ WATER RESISTANT PAINT RAYBAND GLASS HEIGHT 100 mm	MORTAR TROWEL FIN. W/ PAINT CERAMIC TILE 200 mm x 200 mm TIMBER SKIRTING BOB HEIGHT	GYPSUM BOARD W/ PAINT W/ WOODEN FRAME WATERPROOF GYPSUM BOARD 120 x 24, t=9 mm FIBRE CEMENT BOARD W/ WOODEN FRAME W/ PAINT WOODEN LUMBER SERING l=100 x t=12	COUNTER DESK MIRROR ABOVE THE WASTAFEL UNDER FLOOR DUCTING AIR CONDITION	
	STAFF HOUSE 1 (GUEST HOUSE)						
1	TERRACE						2800
2	LIVING ROOM						3500
3	DINING ROOM						3500
4	BED ROOM 1						3500
5	BED ROOM 2						3500
6	PANTRY						3500
7	TOILET						2800
	STAFF HOUSE 2						
1	TERRACE						2650
2	LIVING ROOM						3000
3	DINING ROOM						3000
4	PANTRY						2800
5	BED ROOM 1						3000
6	TOILET						2800
7	BED ROOM 2						3000
	MUSHOLA						
1	MAIN ROOM						NO CEILING
2	WUDLU ROOM						3000
3	TOILET						2700
4	STORAGE						3000
5	TERRACE						3400

NO	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

 <p>THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT</p>		<p>PROVINCE CENTRAL JAVA</p>
<p>JATISSELUNA FLOOD CONTROL PROJECT COMPONENT : JATIBARANG DAM CONSTRUCTION JATIBARANG DAM MANAGEMENT COMPLEX INTERIOR FINISH SCHEDULE GENERAL</p>		<p>PROJECT NAME FLOOD CONTROL URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEKELANG IN THE REPUBLIC OF INDONESIA</p>
<p>JAPAN INTERNATIONAL COOPERATION AGENCY CIJ (PACIFIC CONSULTANTS) LTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PACIFIC INTERNATIONAL INC.</p>		<p>DISTRICT SEMARANG CITY</p>
<p>DESIGNED: <i>[Signature]</i> CHECKED: <i>[Signature]</i> CHIEF OF PLANNING AND DESIGN PROJECT MANAGER</p>		<p>DRAWING NO. JO-P2-MC-G4-3 SHEET NO. 8</p>
<p>DATE</p>		<p>DATE CONTRACT NO.</p>

FLOOR AREA TABLE

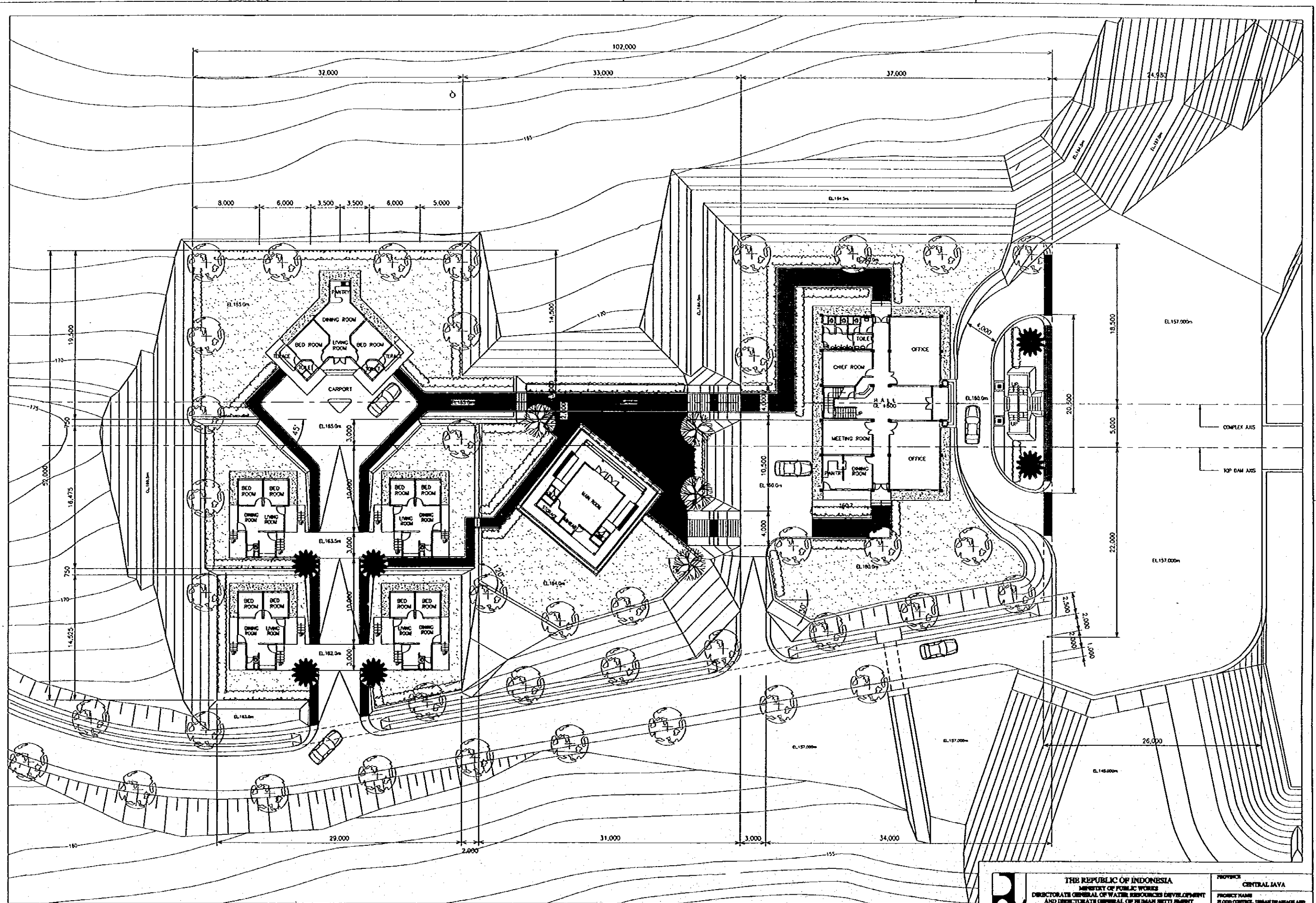
ADMINISTRATION BUILDING, 1st. FLOOR				ADMINISTRATION BUILDING, 2nd. FLOOR				ADMINISTRATION BUILDING, 3rd. FLOOR						
CODE		FLOOR AREA		CODE		FLOOR AREA		CODE		FLOOR AREA				
1	H	HALL	4,000x3,000	36,000 M2	1	O	HALL	4,000x4,000	16,000 M2	1	W	WATCHING ROOM	8,000x4,000	36,000 M2
2	O	OFFICE	2(8,000x8,000)	96,000 M2	2	O1	OFFICE 1	3(5,000x8,000)	144,000 M2	2	St	STAIRS ROOM	4,000x4,000	16,000 M2
3	Ch	CHEF ROOM	8,000x4,000	24,000 M2	3	O2	OFFICE 2	6,000x4,000	24,000 M2					
4	G	GUEST ROOM	8,000x4,000	24,000 M2	4	Co	CORRIDOR	2(7,300x2,000)	29,200 M2					
5	Kd	KITCHEN, DINNING	8,000x4,000	24,000 M2	5	L	LAVATORY	6,000x4,000	24,000 M2					
6	L	LAVATORY	6,000x4,000	24,000 M2	6	St	STAIRS ROOM	4,000x4,000	16,000 M2					
7	St	STAIRS ROOM	4,000x4,000	16,000 M2										
8	Co	CORRIDOR	2(7,300x2,000)	29,200 M2										
9	Ch	CANOPY	(8,000x4,000)/3	10,670 M2										
10	Te	TERRACE	[(3,000x2,200)+(2,000x2,200)+(8,000x1,000)]/3	4,940 M2										
TOTAL		±288,610 M2		TOTAL		±253,200 M2		TOTAL		±52,000 M2				
TOTAL BUILDING AREA ±594,010 M2														

STAFF HOUSE 1 (GUEST HOUSE)				STAFF HOUSE 2 - 4				MUSHOLLA						
CODE		FLOOR AREA		CODE		FLOOR AREA		CODE		FLOOR AREA				
1	B	BED ROOM	(8,800x4,500)+(4,000x4,500)+2(1,200x2,000)	63,750 M2	1	B	BED ROOM	2(3,000x3,000)	18,000 M2	1	M	MAIN ROOM	(6,000x6,000)+(2,000x1,500)	39,000 M2
2	D	DINNING ROOM			2	D	DINNING ROOM	(3,000x3,000)+(1,500x1,500)	11,250 M2	2	T	TOILET	2(2,000x1,500)	6,000 M2
3	L	LIVING ROOM			3	L	LIVING ROOM	3,000x2,500	7,500 M2	3	W	WASH ROOM	2(3,500x2,000)	14,000 M2
4	T	TOILET			4	T	TOILET	1,500x1,500	2,250 M2	4	St	STORAGE	(2,000x1,500)+(1,500x1,000)	4,500 M2
5	P	PANTRY	2,500x2,500	6,250 M2	5	K	KITCHEN	2,000x3,000	6,000 M2	5	Te	TERRACE	[(2,100x9,000)+(1,000x1,500)+(1,000x1,500)+(2,000x1,500)+(1,500x1,000)]/3	8,800 M2
6	Te	TERRACE	[2(2,500x1,200)+(2,500x2,000)+(1,500x1,500)]/3	4,418 M2	6	Te	TERRACE	[(3,000x1,500)+(4,200x900)+(2,700x900)+(1,800x900)]/3	4,119 M2					
TOTAL		±74,416 M2		TOTAL (4 UNIT)		±196,440 M2		TOTAL		±72,300 M2				

GRAND TOTAL ±937.166 M2

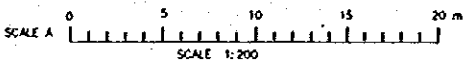
NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
RIATUNSLANA FLOOD CONTROL PROJECT COMPONENT : JATIBARANG DAM CONSTRUCTION JATIBARANG DAM MANAGEMENT COMPLEX FLOOR AREA TABLE GENERAL		PROJECT NAME FLOOD CONTROL, DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG BY THE REPUBLIC OF INDONESIA
JAWA INTERNATIONAL COOPERATION AGENCY CI ENGINEERING COLTD. IN ASSOCIATION WITH PACIFIC CONSULTANTS INTERNATIONAL AND PANCO INTERNATIONAL INC.		DISTRICT SEMARANG CITY
DESIGNED CHECKED CROFT OF PLANNING AND DESIGN PROJECT MANAGER		DRAWING NO. JD-P2-MC-Ge-4 SHEET NO. 9 DATE CONTRACT NO.



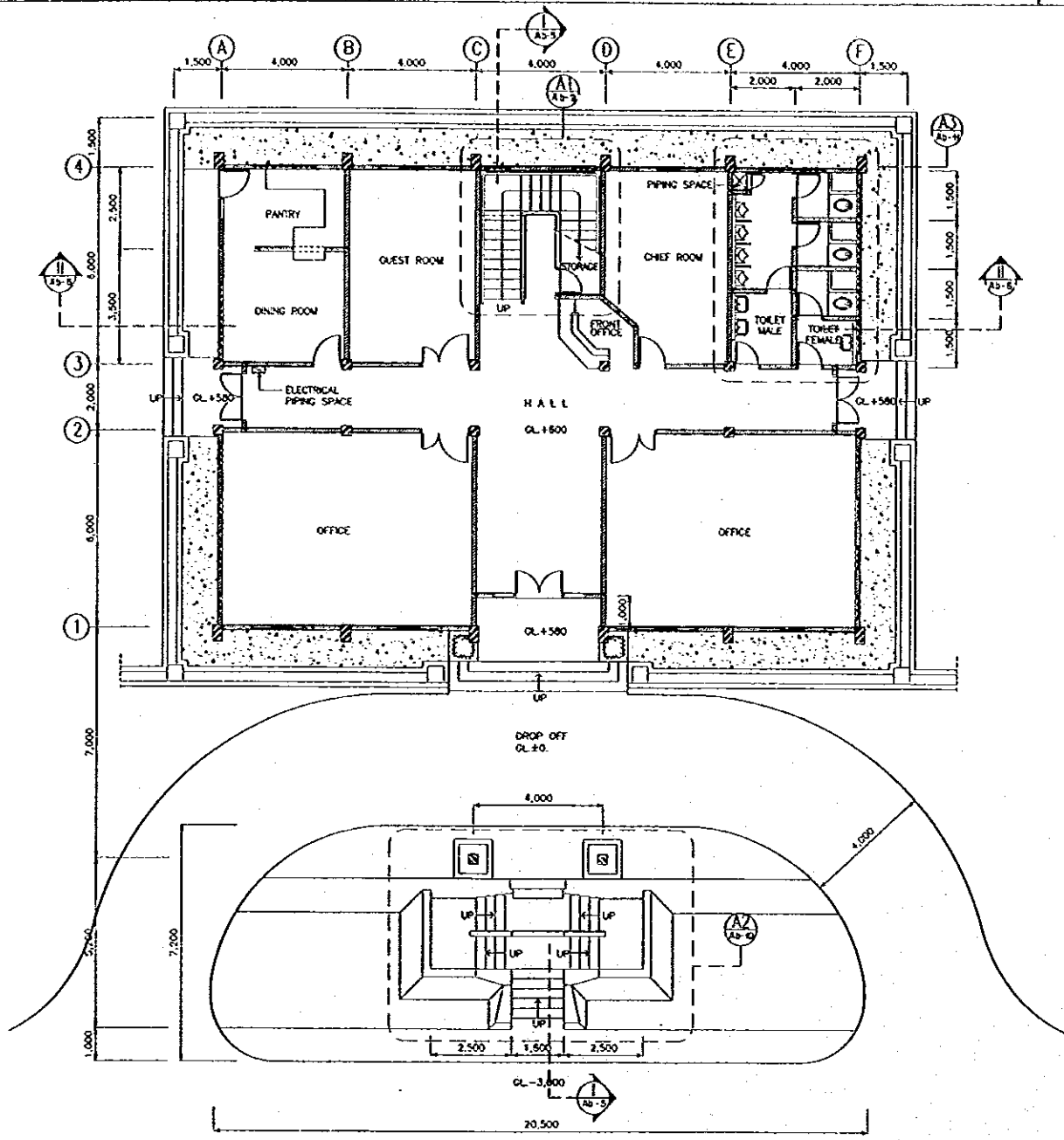
SITE PLAN
SCALE A

G4.5

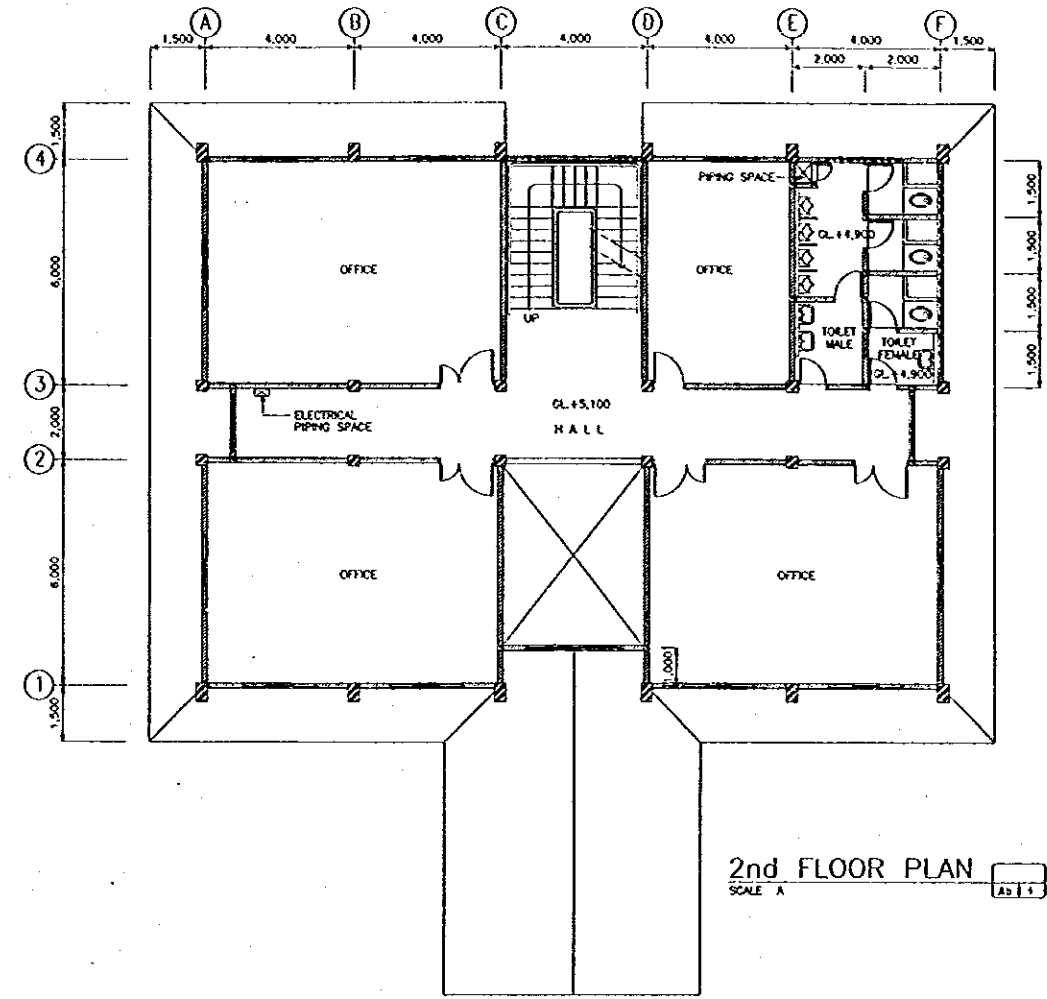


NO.	DATE	REVISIONS	ORIGINATOR	DESIGNER	APPROVED

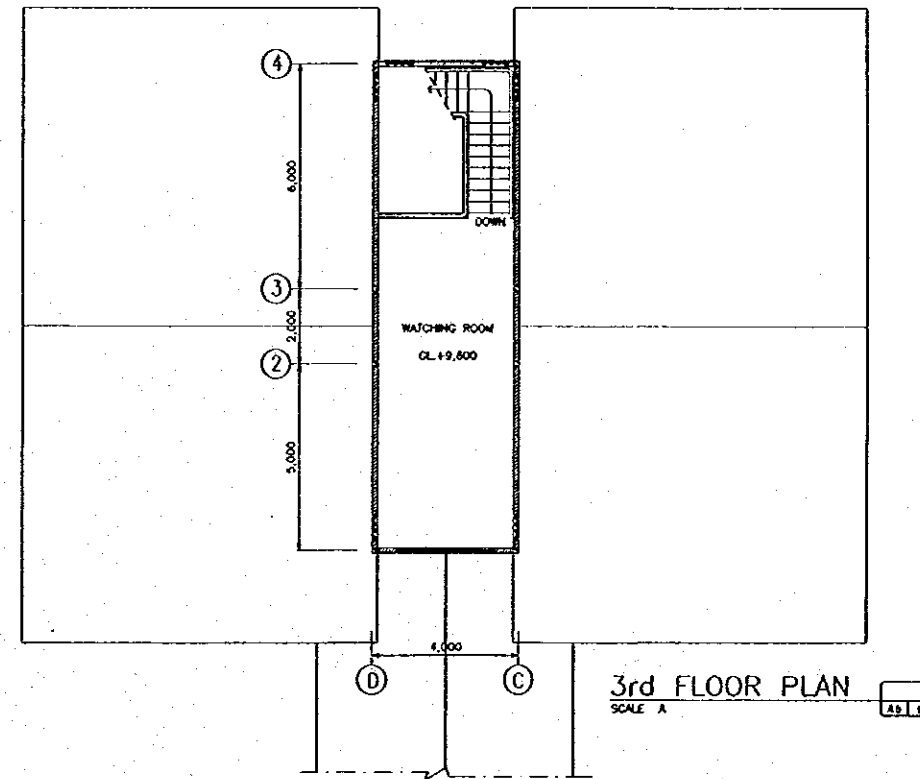
<p>THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT</p>		<p>PROVINCE CENTRAL JAVA</p>
<p>JATUNGLINGGA FLOOD CONTROL PROJECT COMPONENT : JATBARANG DAM CONSTRUCTION</p>		<p>PROJECT NAME FLOOD CONTROL, GREAT DAMAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG BY THE REPUBLIC OF INDONESIA</p>
<p>JATBARANG DAM MANAGEMENT COMPLEX SITE PLAN GENERAL</p>		<p>CITY SEMARANG CITY</p>
<p>UNLAWING NO. JD - P2 - MC - G4 - 5</p>		<p>DATE 10</p>
<p>APPROVED</p>		<p>CONTRACT NO.</p>
<p>CHIEF OF PLANNING AND DESIGN PROJECT MANAGER</p>		<p>DESIGNED <i>[Signature]</i></p> <p>CHECKED <i>[Signature]</i></p>



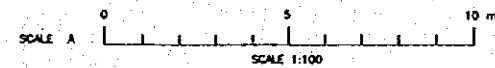
1st FLOOR PLAN
SCALE A



2nd FLOOR PLAN
SCALE A

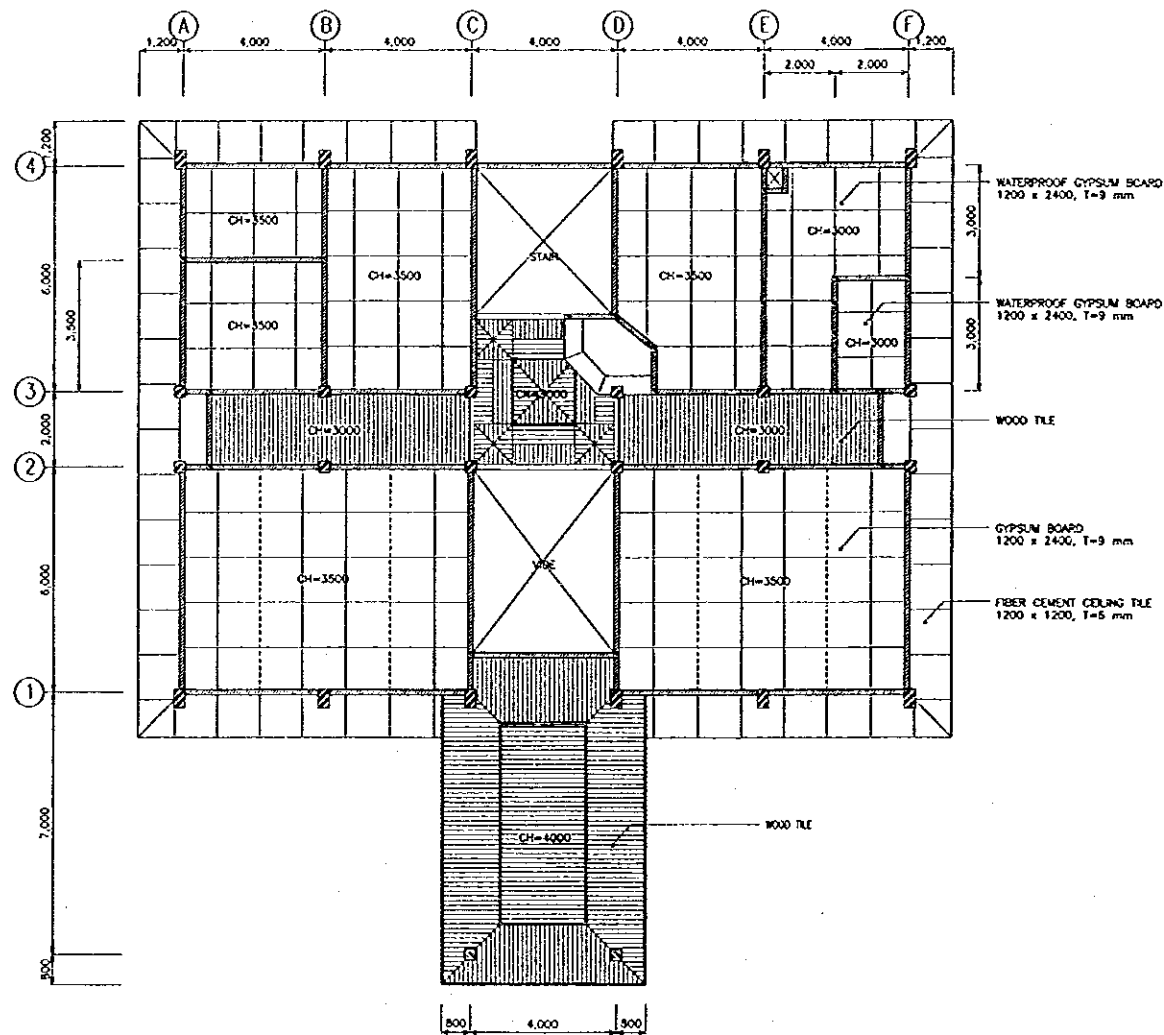


3rd FLOOR PLAN
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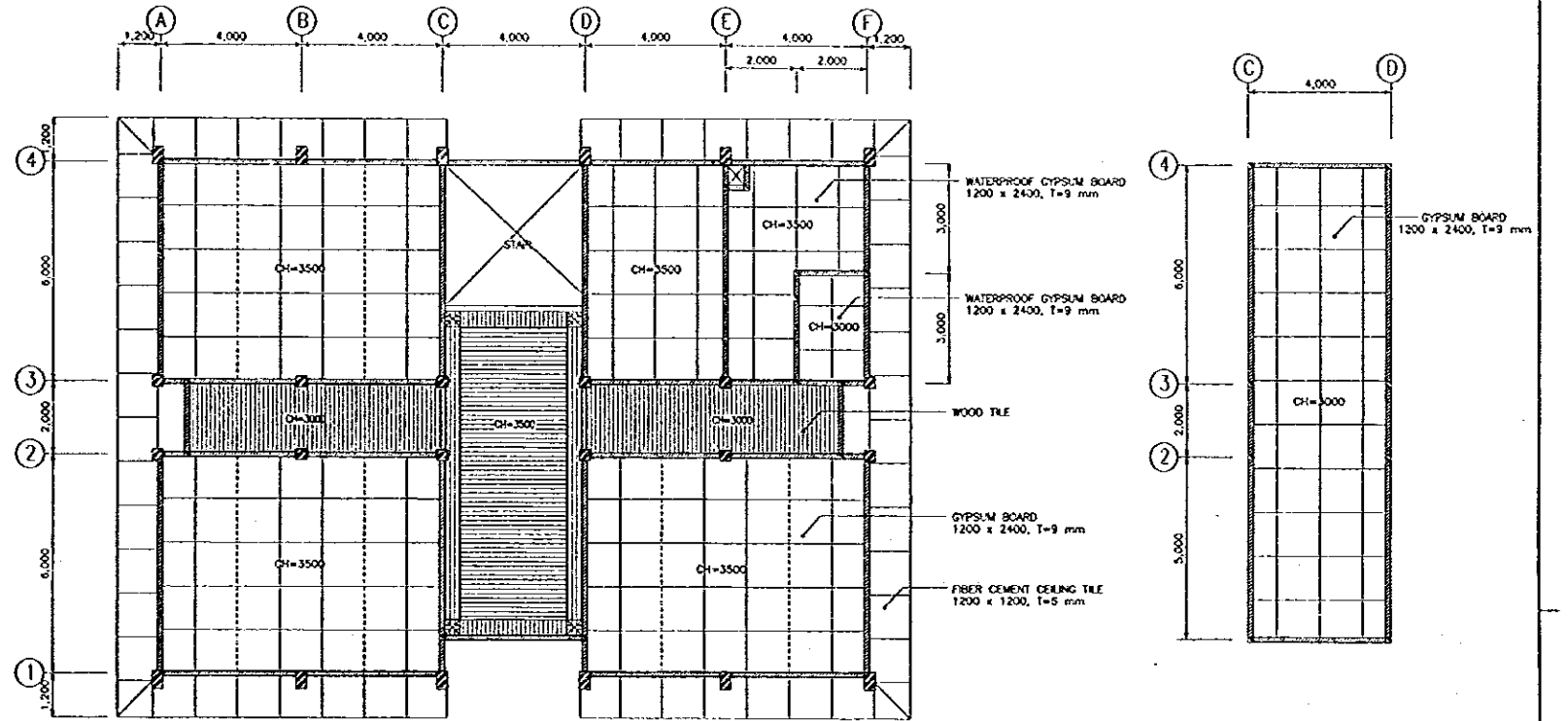


NO	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED	APPROVED

THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
JATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : JATIBARANG DAM CONSTRUCTION FLOOR PLAN ADMINISTRATION BUILDING		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG BY THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY CEO SEMARANG COLLOID & CHEMISTRY PACIFIC CONSULTANTS INTERNATIONAL @P PACO INTERNATIONAL P.C.		DISTRICT SEMARANG CITY
DESIGNED CHECKED PROJECT MANAGER		DRAWING NO. JD-P2-MC-Ab-1 SHEET NO. 11 DATE CONTRACT NO.

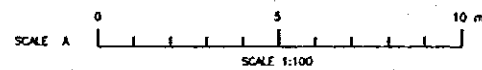


1st FLOOR
REFLECTED CEILING PLAN
SCALE A



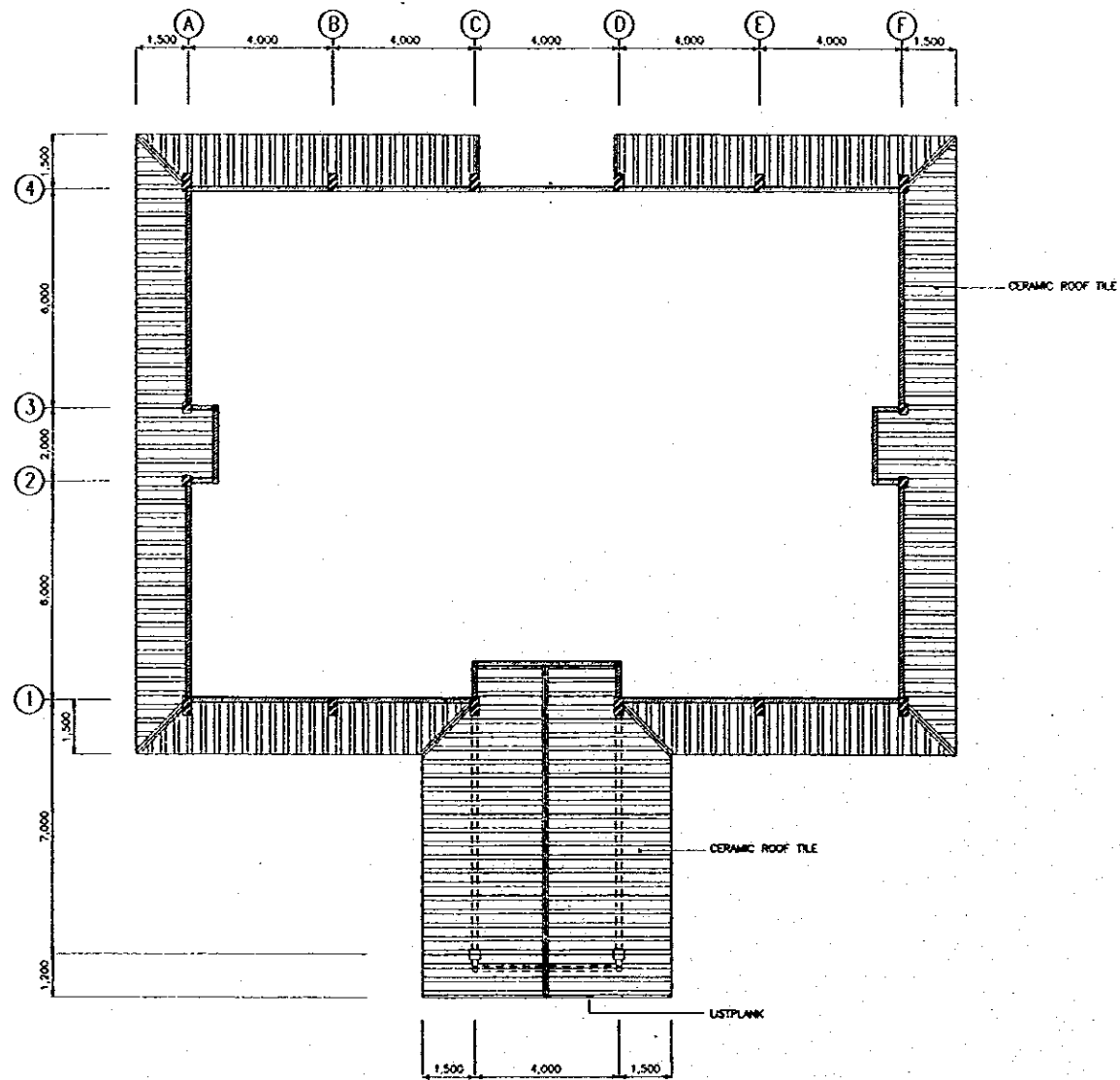
2nd FLOOR
REFLECTED CEILING PLAN
SCALE A

3rd FLOOR
REFLECTED CEILING PLAN
SCALE A

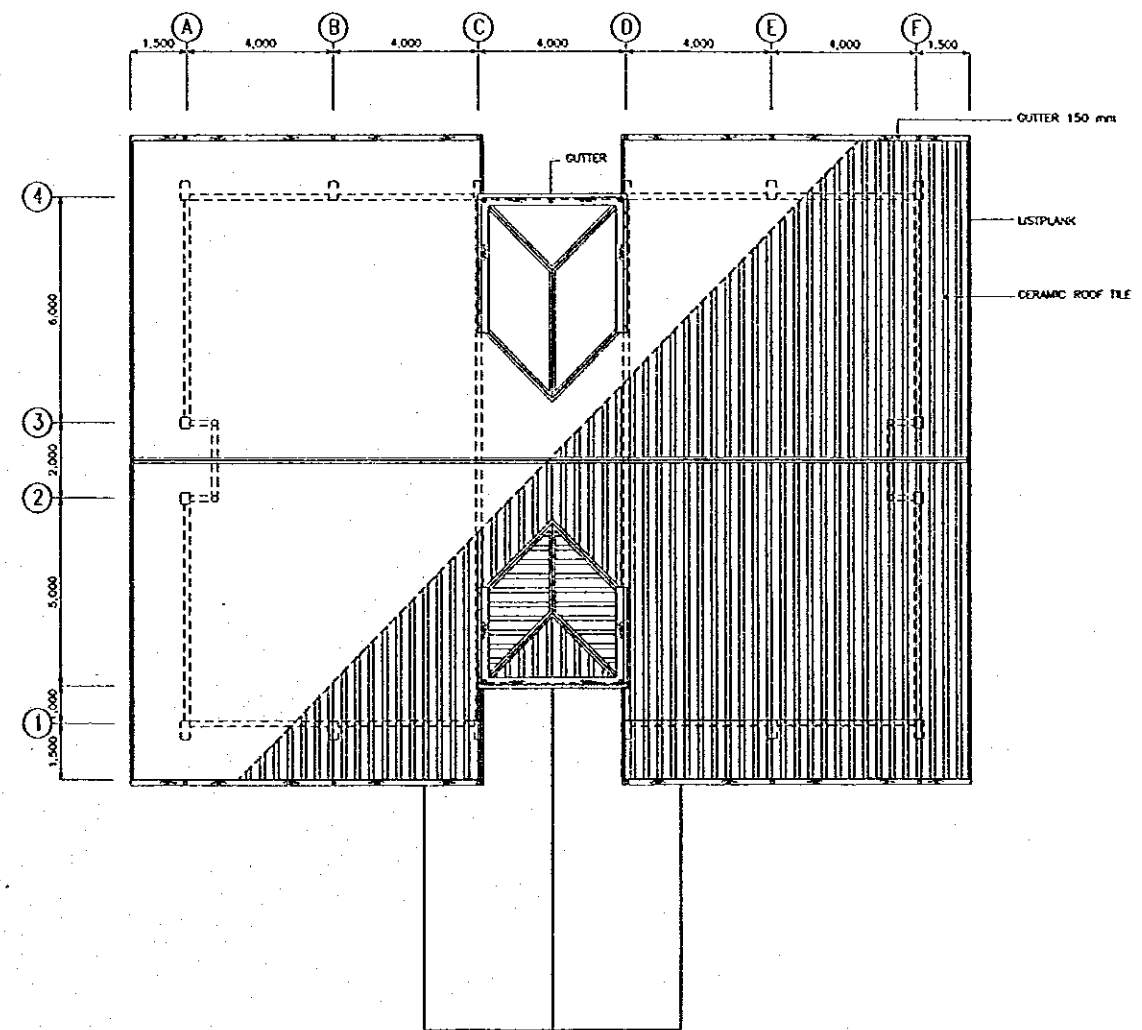


NO.	DATE	REVISIONS	ORIGINATED	DESIGNED	APPROVED

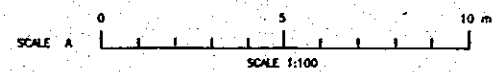
THE REPUBLIC OF INDONESIA MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF WATER RESOURCES DEVELOPMENT AND DIRECTORATE GENERAL OF HUMAN SETTLEMENT		PROVINCE CENTRAL JAVA
IRATUNSELUNA FLOOD CONTROL PROJECT COMPONENT : JATIBARANG DAM CONSTRUCTION JATIBARANG DAM MANAGEMENT COMPLEX REFLECTED CEILING PLAN ADMINISTRATION BUILDING		PROJECT NAME FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY CITY ENGINEERING COLLEGE IN AMBOHONGWONE PACIFIC CONSULTANTS INTERNATIONAL, INC. PASIGI INTERNATIONAL, INC.		DISTRICT SEMARANG CITY
DESIGNED CHECKED DATE		DRAWING NO. JO-P2-MC-Ab-2 SHEET NO. 12
CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		CONTRACT NO.



1st ROOF PLAN
SCALE A



2nd & 3rd ROOF PLAN
SCALE A



NO	DATE	REVISIONS	QUANTIFIED	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: JATIBARANG DAM CONSTRUCTION JATIBARANG DAM MANAGEMENT COMPLEX ROOF PLAN ADMINISTRATION BUILDING		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 PARCO INTERNATIONAL INC.		DISTRICT SEMARANG CITY
DESIGNED CHECKED APPROVED CHIEF OF PLANNING AND DESIGN PROJECT MANAGER		DRAWING NO. JD-P2-MC-AB-3 SHEET NO. 13 DATE CONTRACT NO.