

FIRST FLOOR - MECHANICAL PLAN

SCALE:1/100

NOTE :

1/. COOLING CAPACITY :

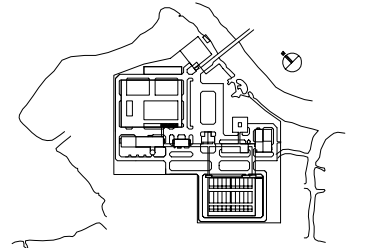
- FCU-5, 6, 7 18000 BTU/HR (WALL MOUNTED SPLIT TYPE)
- FCU-1, 2, 3, 4, 8, 9, 10, 11 23000 BTU/HR (UNDER CEILING SPLIT TYPE)

2/. - SUCTION & LIQUIT PIPE SHALL BE IN TRUNKING 100x75

- INSULATION FOR GAS PIPE SHALL BE NITRIL CLOSED CELL TUBE 13mm THK
- ALL CONDENSATE DRAIN PIPE FOR EACH AC UNIT SHALL BE PVCØ21 PIPE C/W INSULATION 10mmTHK

LEGEND :

- EAG EXHAUST AIR GRILLE
- EAF EXHAUST AIR FAN
- EAL EXHAUST AIR LOUVRE
- FAL FRESH AIR LOUVRE
- W/ WITH
- ☒ AXIAL FAN
- ☐ WALL MOUNTED FAN
- ▭ NON INSULATION
- ▨ INTERNAL INSULATION 25mm THK



NO.	DATE	DESCRIPTIONS	BY	APRO.
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REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

PACKAGE E
WASTE WATER TREATMENT PLANT
**COMPOST CONTROL BUILDING
MECHANICAL PLAN**

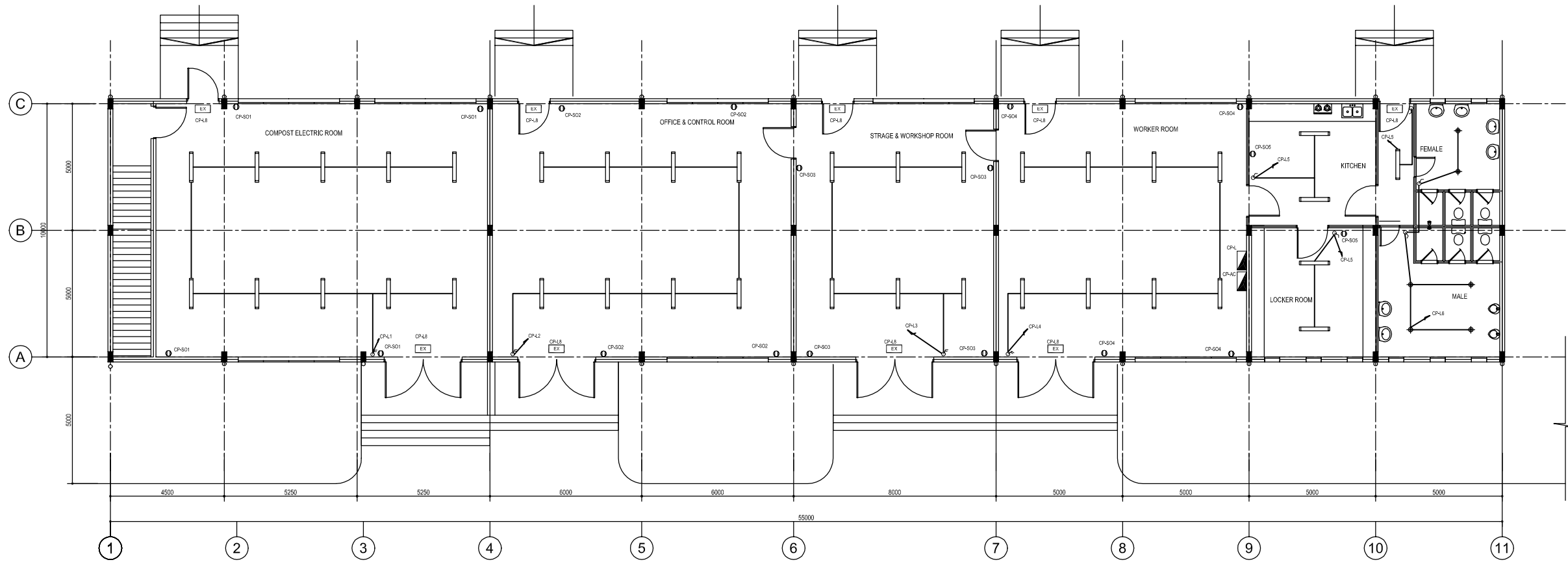
SCALE : 1/100

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED KIKUTA HIROSHI	CHECKED KONDO MASAMI
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DATE : JUNE 2001 DWG. No. PE-WWTP-305-91



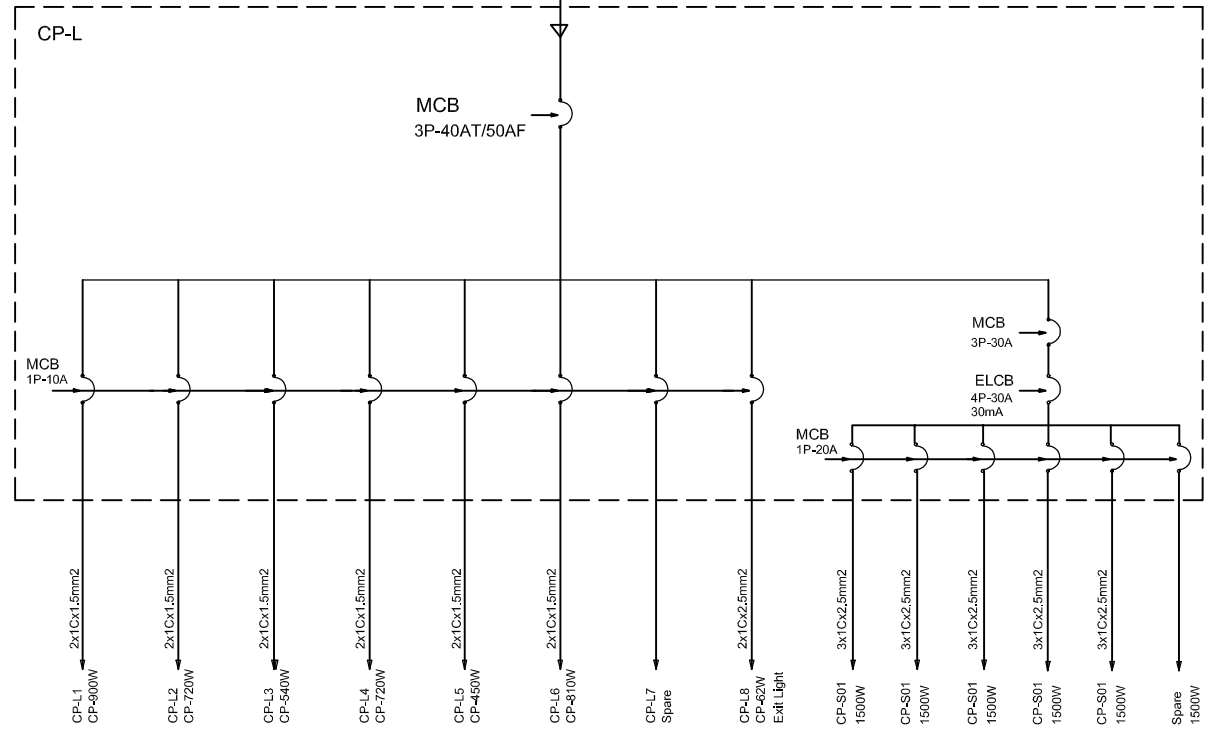
FIRST FLOOR- ELECTRICAL PLAN

SCALE:1/100

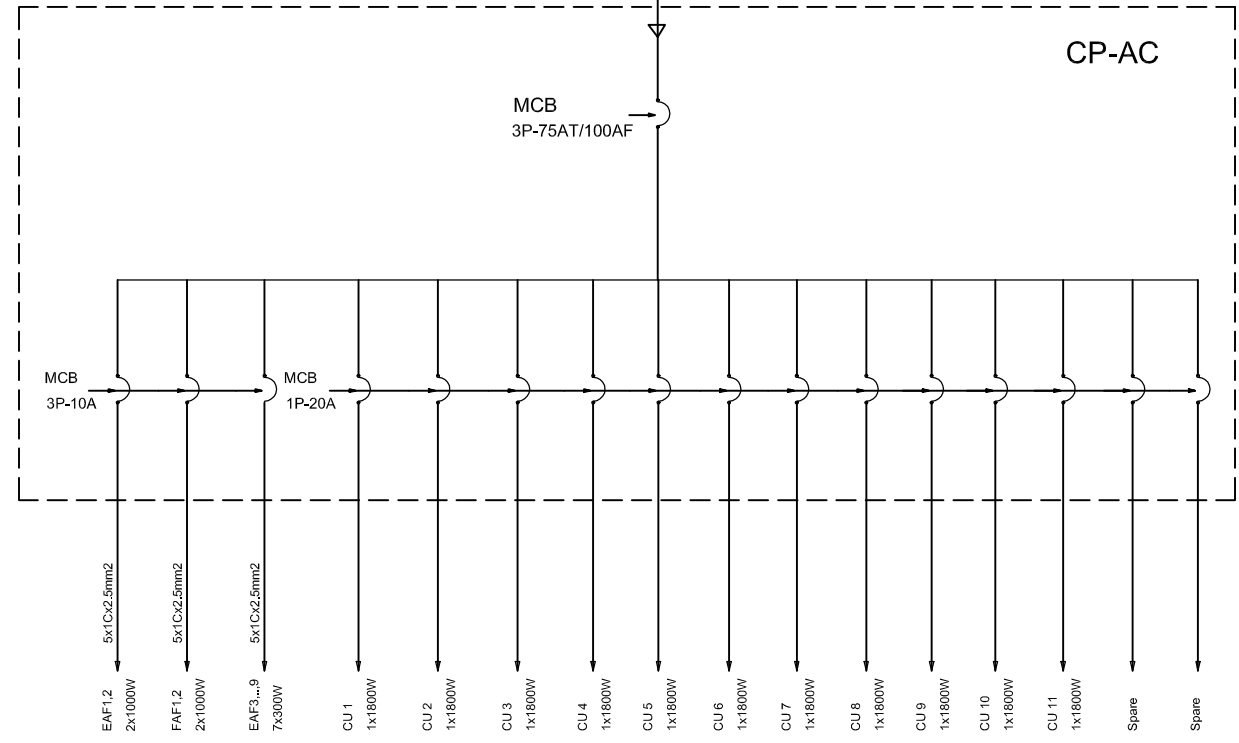
LEGEND

- ◆ 1x40W DOWNLIGHT(in WC)
- ▬ 2x36W FLOURESCENT BATTEN , IP65
- EX 2x10W NON- MAINTAINED EXIT LIGHT
- 16A DUPLEX SOCKET OUTLET
- ⚡ 1 WAY SINGLE SWITCH
- ⚡ 2 WAY SINGLE SWITCH
- DISTRIBUTION BOARD

FROM COMPOST ELECTRIC ROOM LIGHTING DISTRIBUTION TANK



FROM COMPOST ELECTRIC ROOM LIGHTING DISTRIBUTION TANK



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REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

PACKAGE E
WASTE WATER TREATMENT PLANT
COMPOST CONTROL BUILDING
ELECTRICAL PLAN

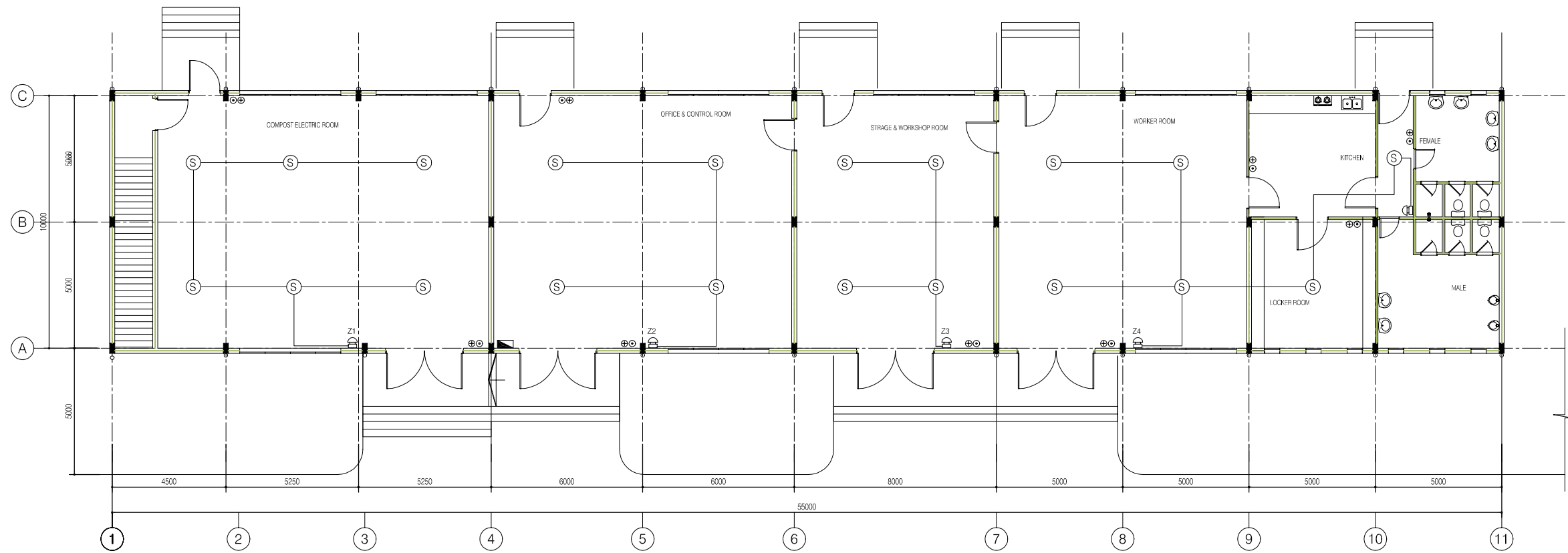
SCALE : 1/100

JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

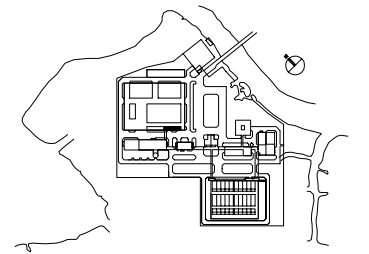
DESIGNED KIKUTA HIROSHI	CHECKED KONDO MASAMI
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DATE : JUNE 2001 DWG. No. PE-WWTP-305-92



FIRST FLOOR - FIRE ALARM PLAN

SCALE: 1/100



NO.	DATE	DESCRIPTIONS	BY	APPRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

PACKAGE E
WASTEWATER TREATMENT PLANT
COMPOST CONTROL BUILDING
FIRST FLOOR PLAN
FIRE ALARM SYSTEM

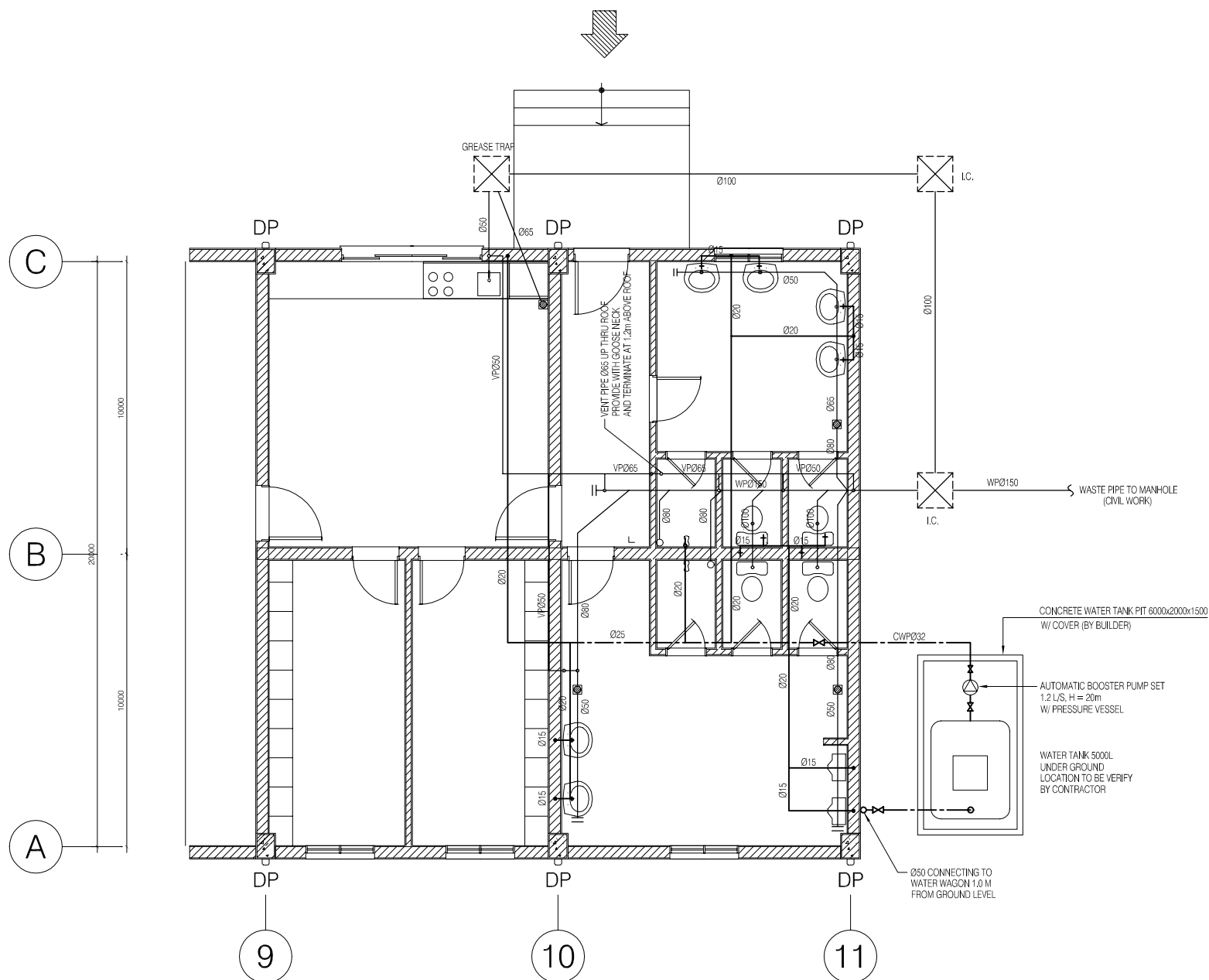
SCALE : 1/100

JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

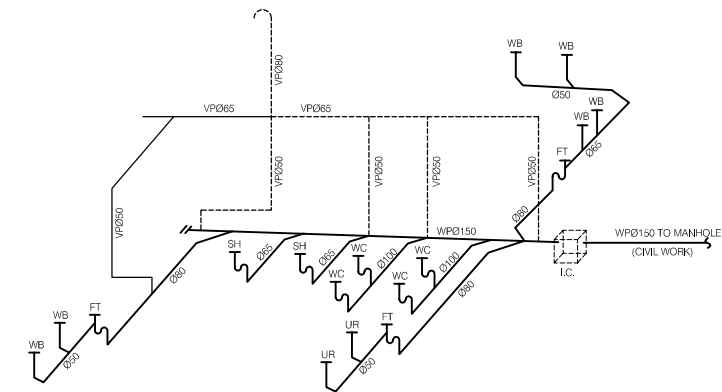
PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED KIKUTA HIROSHI	CHECKED KONDO MASAMI
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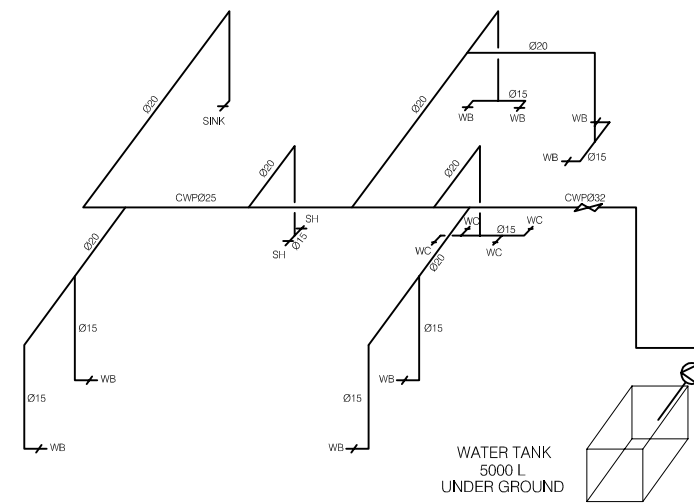
DATE : JUNE 2001 DWG. No. PE-WWTP-305-93



ENLARGED TOILET PLAN
SCALE : 1/50



ISOMETRIC OF WASTEWATER SYSTEM



ISOMETRIC OF WATER SUPPLY SYSTEM

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

PACKAGE E
WASTEWATER TREATMENT PLANT
COMPOST CONTROL BUILDING
PLUMBING AND DRAINAGE SYSTEM

SCALE : AS SHOWN

JICA JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

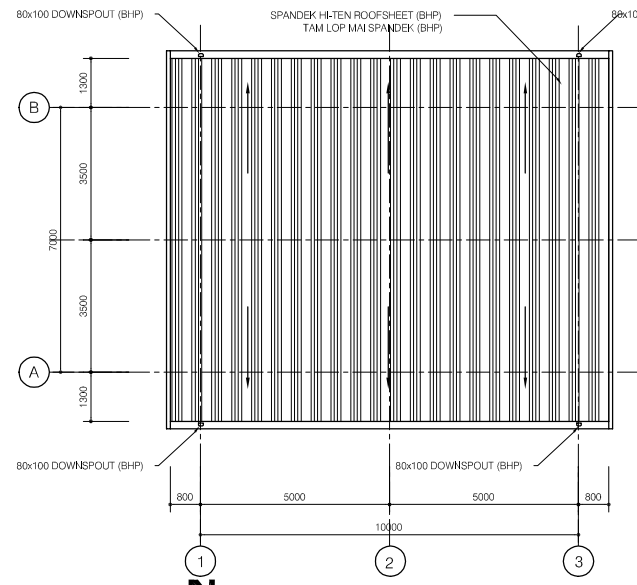
PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED
KIKUTA HIROSHI

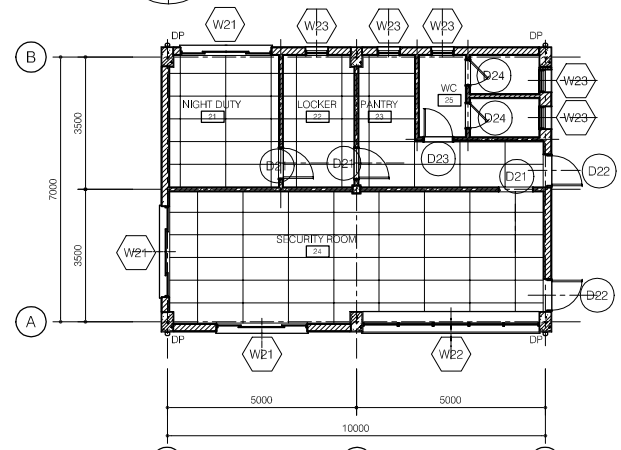
CHECKED
KONDO MASAMI

DATE : JUNE 2001 DWG. No. PE-WWTP-305-94

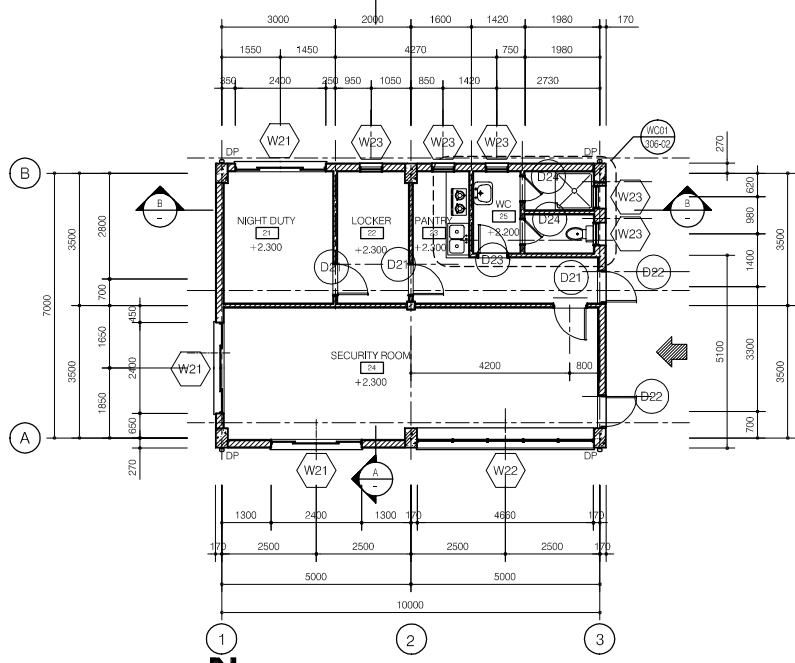
Guard house



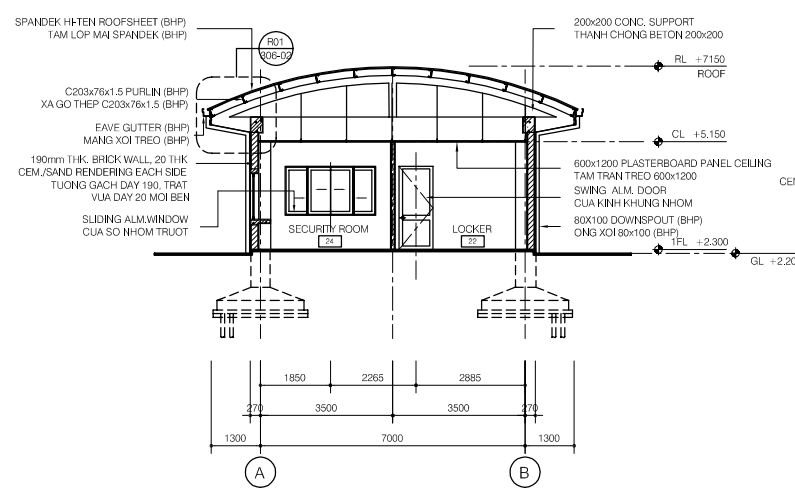
ROOF PLAN



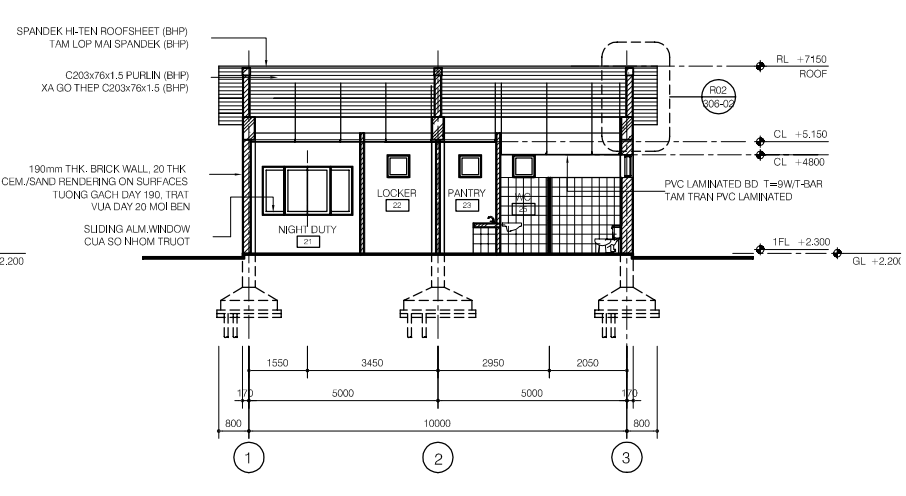
CEILING PLAN



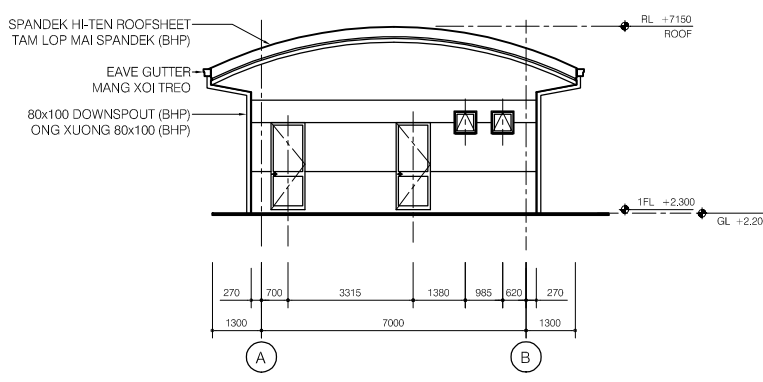
PLAN



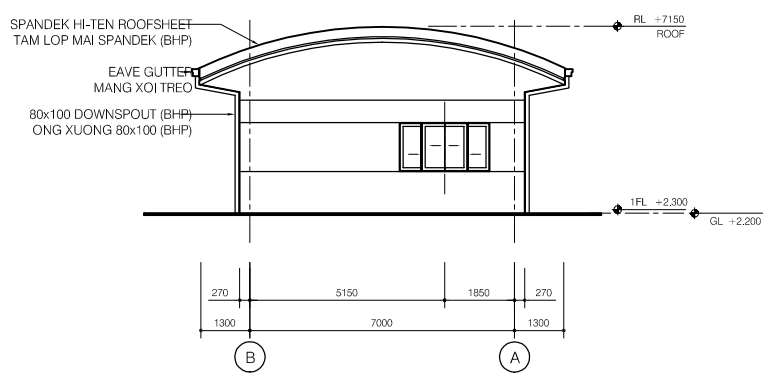
SECTION A-A



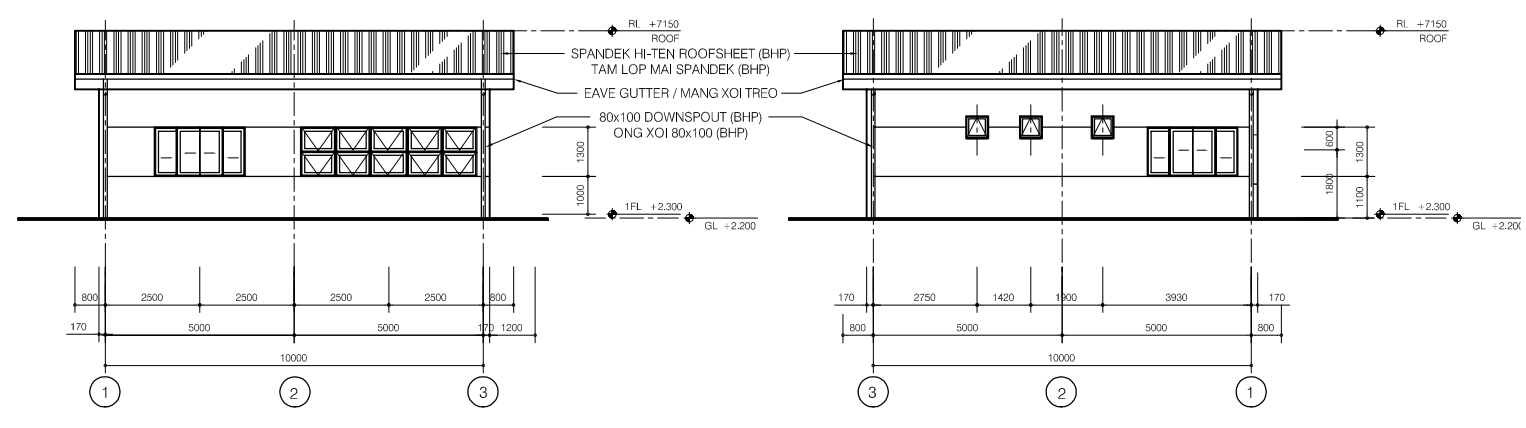
SECTION B-B



ELEVATION LINE 3



ELEVATION LINE 1

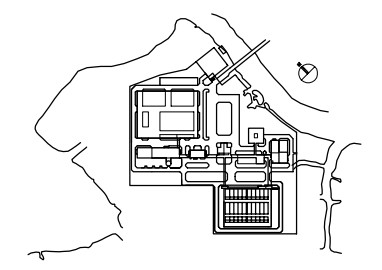


ELEVATION LINE A

ELEVATION LINE C

LEGEND

	190mm THK. BRICK WALL, 20THK CEM./SAND RENDERING ON SURFACE / TUONG GACH DAY 190mm, TRAT VUA DAY 20 MOI MAT
	90mm THK. BRICK WALL, 20THK CEM./SAND RENDERING ON SURFACE / TUONG GACH DAY 90mm, TRAT VUA DAY 20 MOI MAT



NO.	DATE	DESCRIPTIONS	BY	APPRO.

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

PACKAGE E
WASTEWATER TREATMENT PLANT
GUARD HOUSE
PLANS, ELEVATIONS, SECTIONS

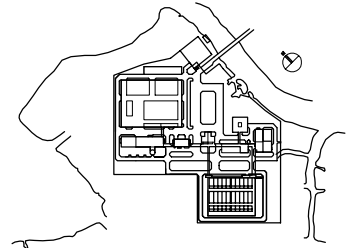
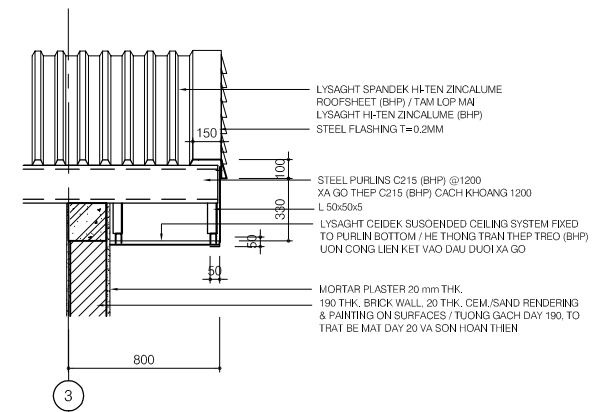
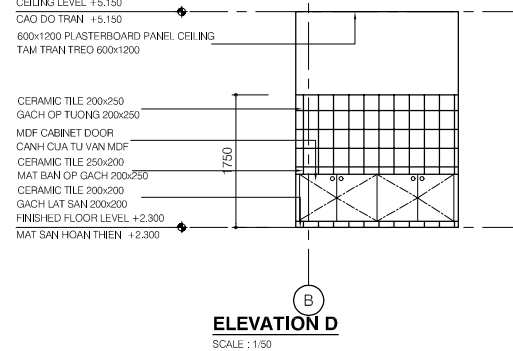
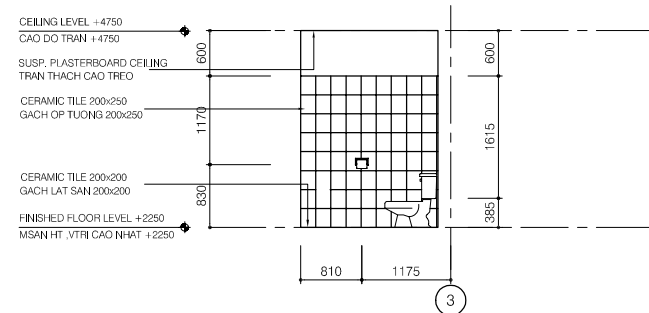
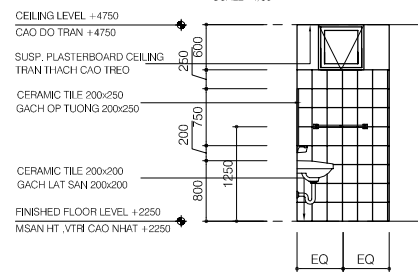
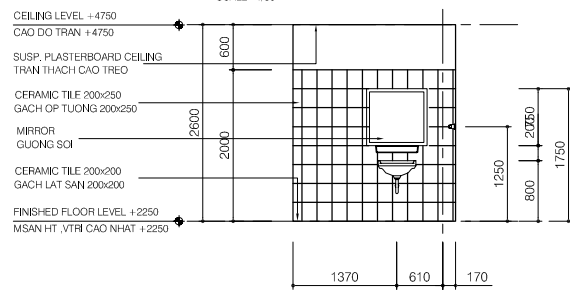
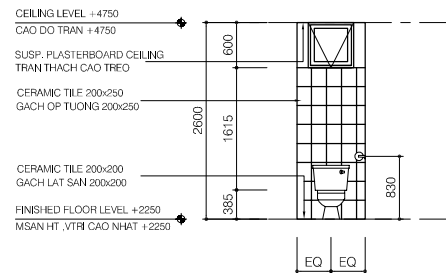
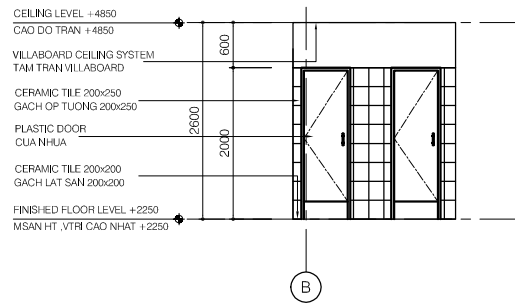
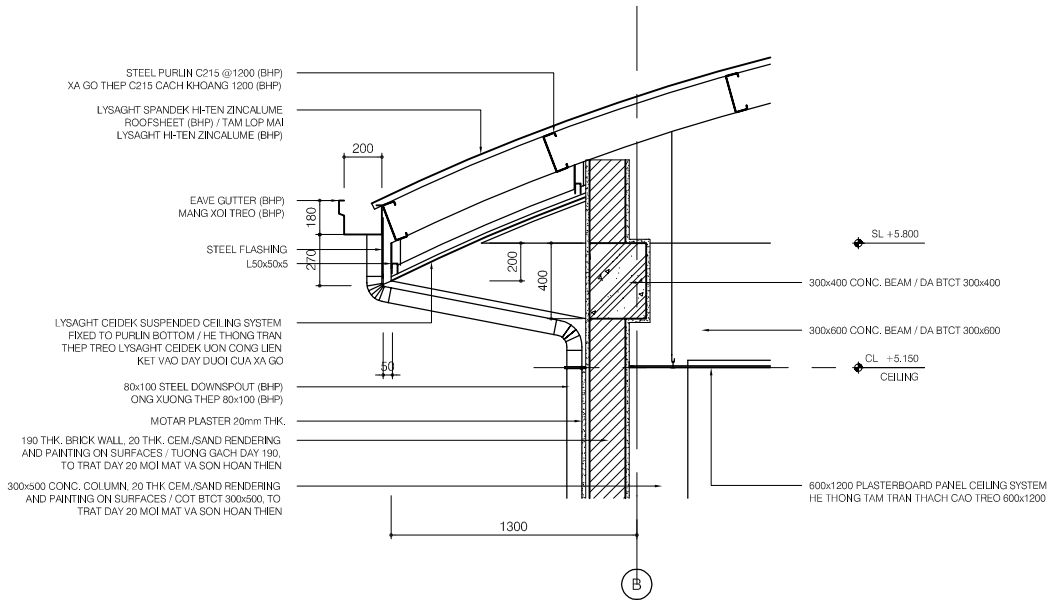
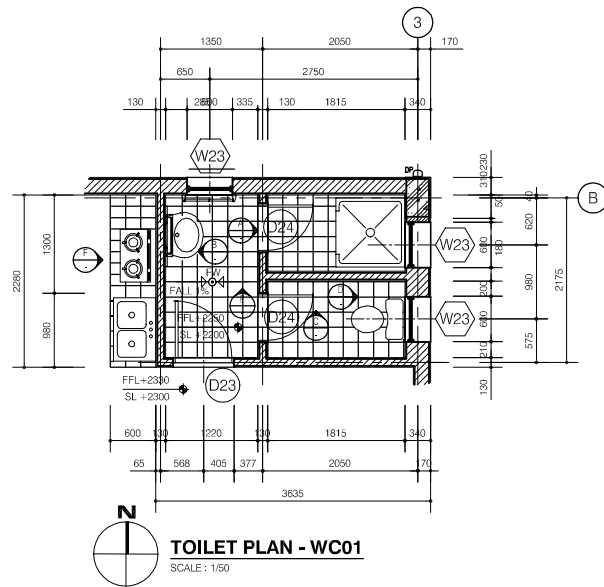
SCALE : 1/100

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED KIKUTA HIROSHI	CHECKED KONDO MASAMI
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DATE : JUNE 2001 DWG. No. PE-WWTP-306-01



NO.	DATE	DESCRIPTIONS	BY	APPRO.
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REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

PACKAGE E
WASTEWATER TREATMENT PLANT
GUARD HOUSE
DETAILS

SCALE : AS SHOWN

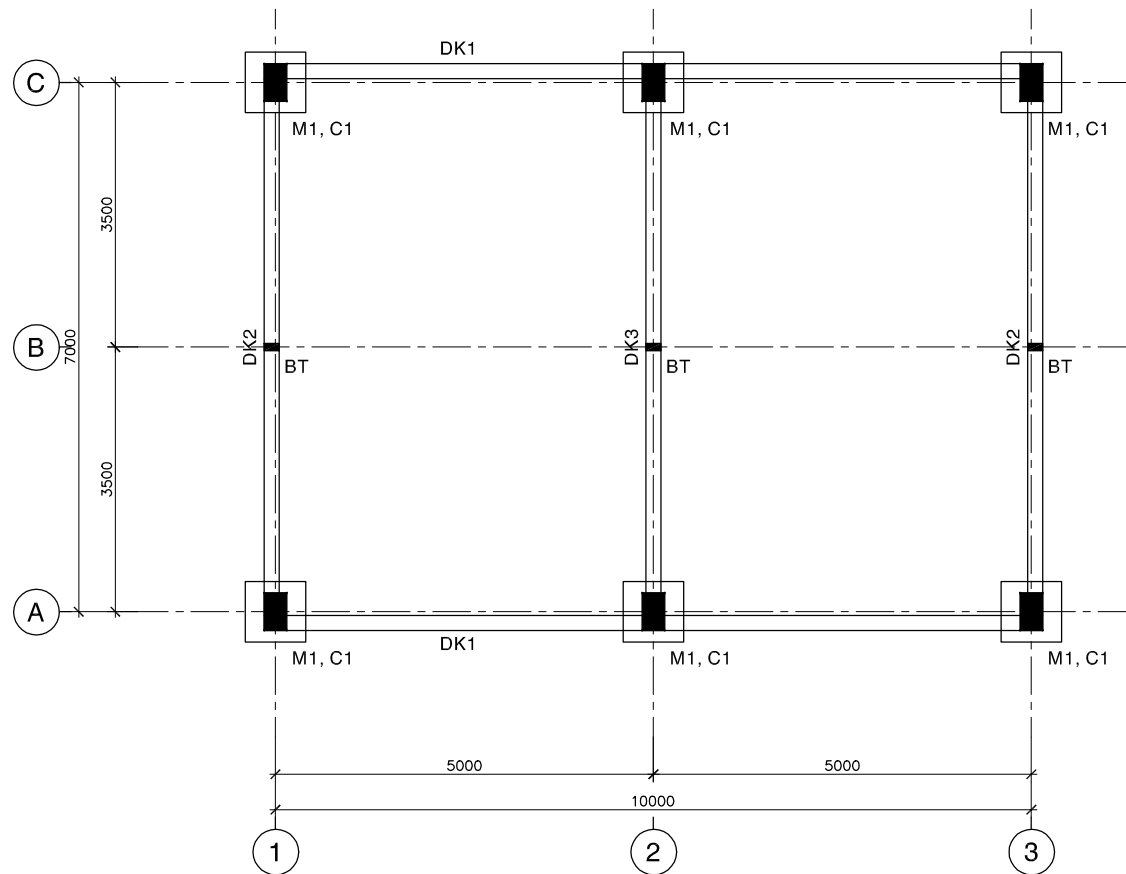
JICA JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

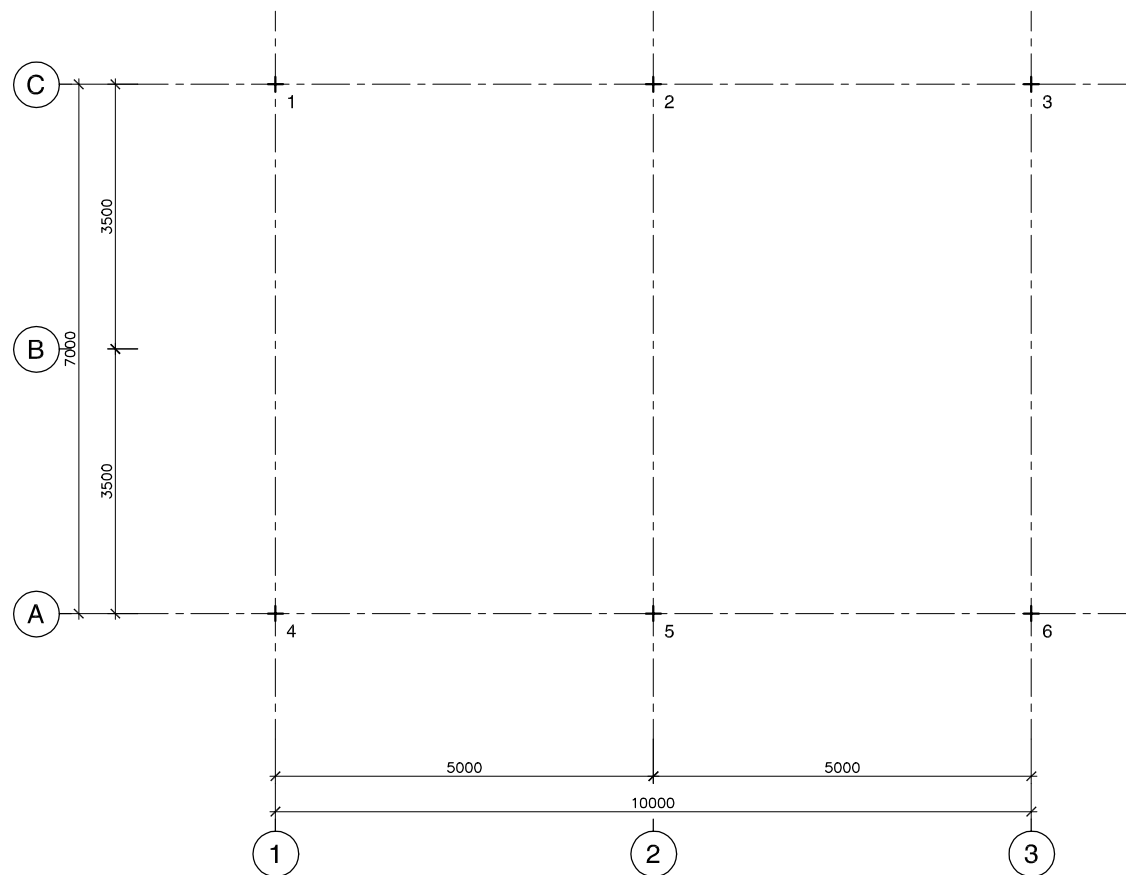
DESIGNED
KIKUTA HIROSHI

CHECKED
KONDO MASAMI

DATE : JUNE 2001 DWG. No. PE-WWTP-306-02



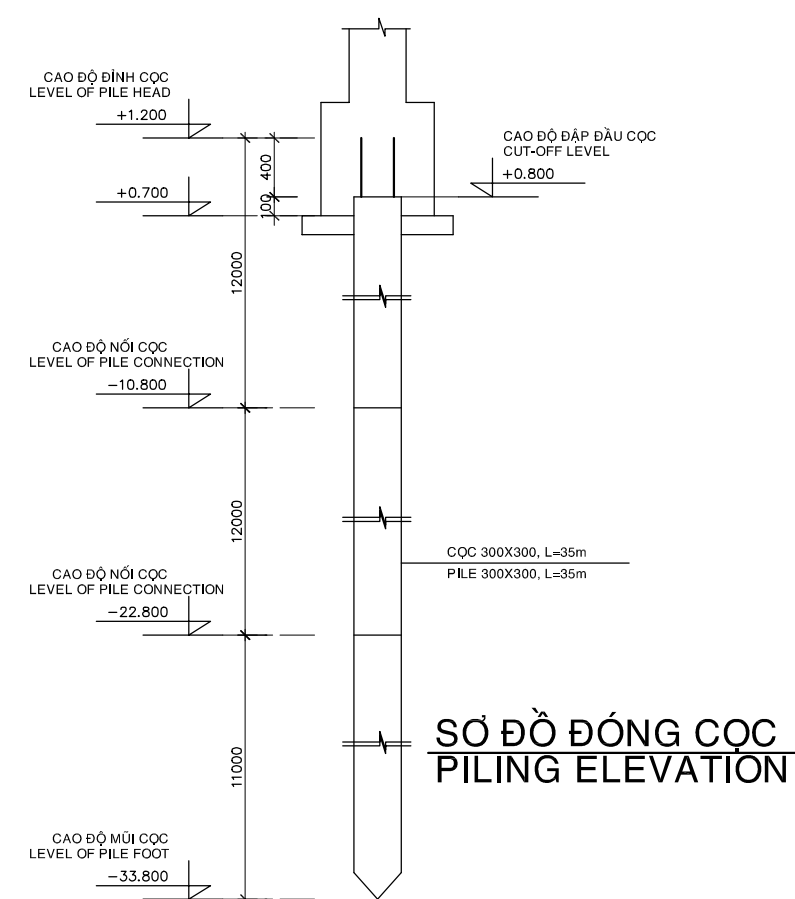
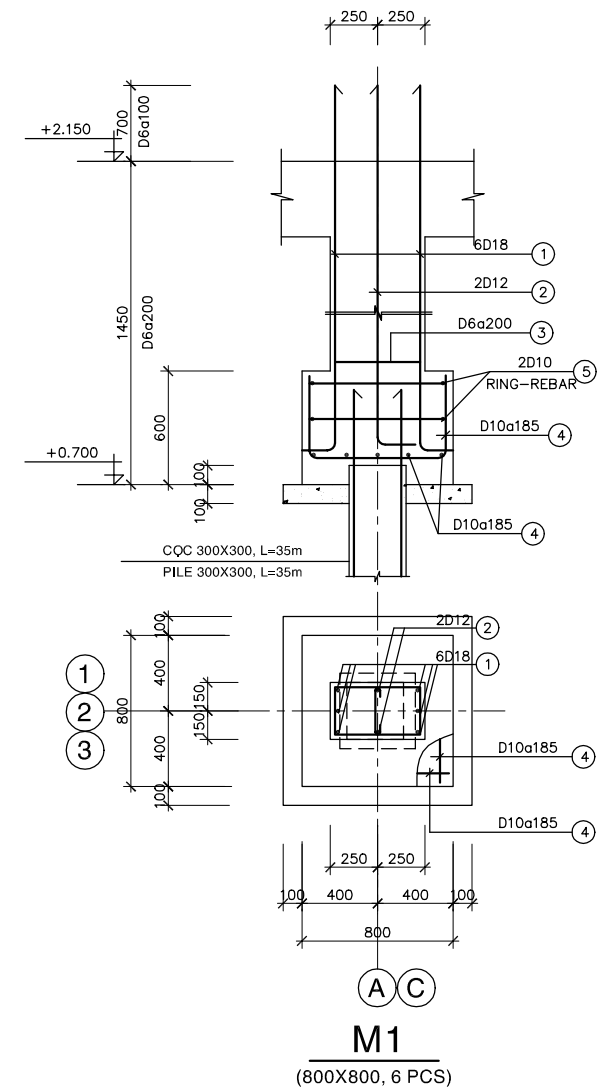
MẶT BẰNG MÓNG, CỘT & DÀ KIỀNG
PLAN OF FOUNDATION, COLUMN & G-BEAM



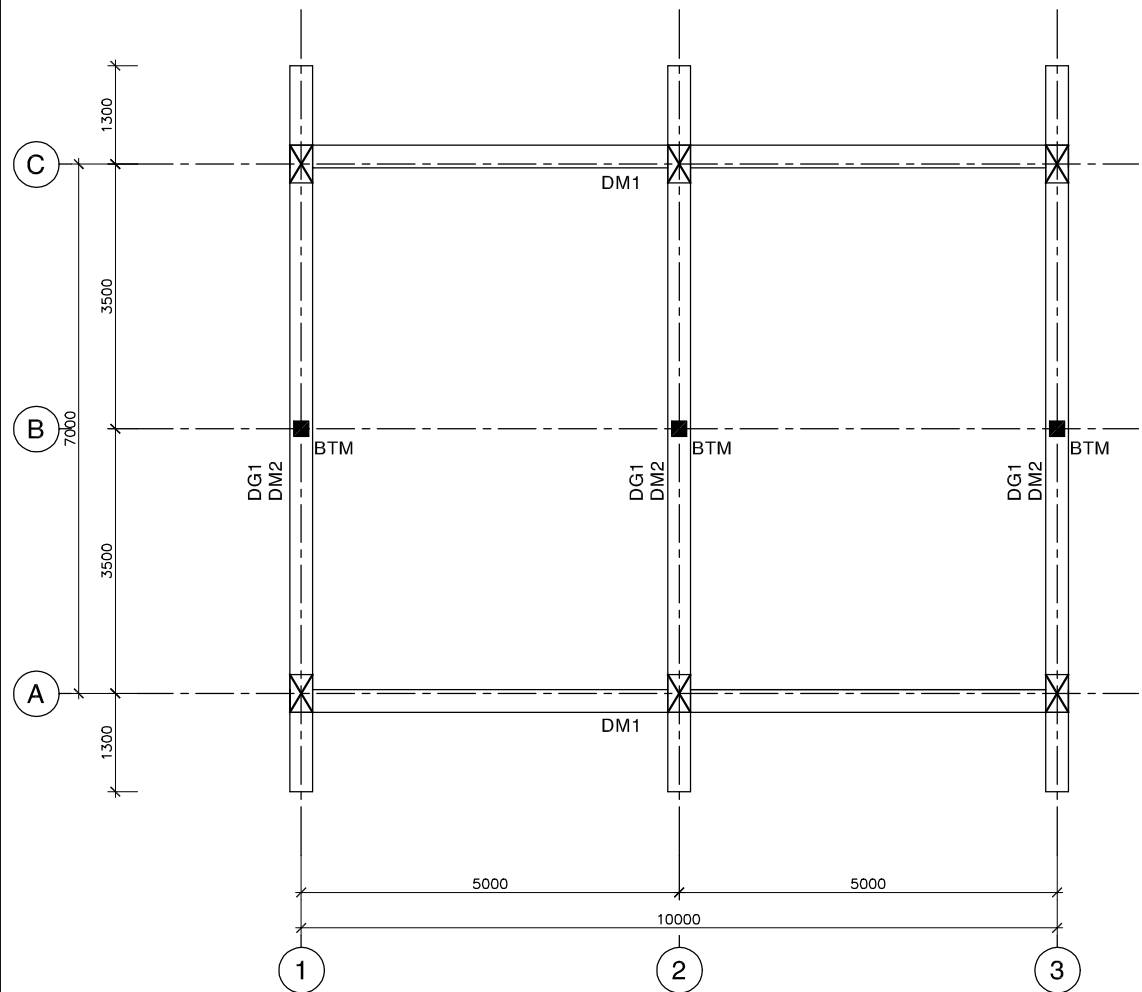
MẶT BẰNG ĐỊNH VỊ CỌC
PLAN OF PILES LOCATION

GHI CHÚ:
 - BÊ TÔNG LÓT ĐÁ 40X60, MÁC 100
 - BÊ TÔNG ĐÁ 10X20, MÁC 300
 - CỐT THÉP Ra=2000 Kg/cm²

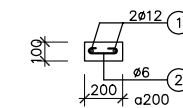
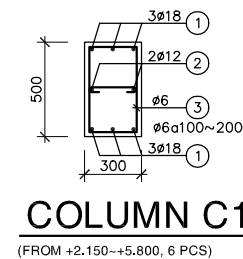
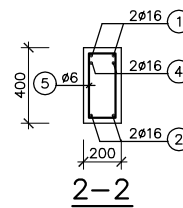
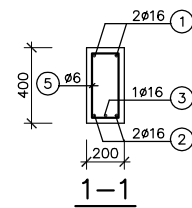
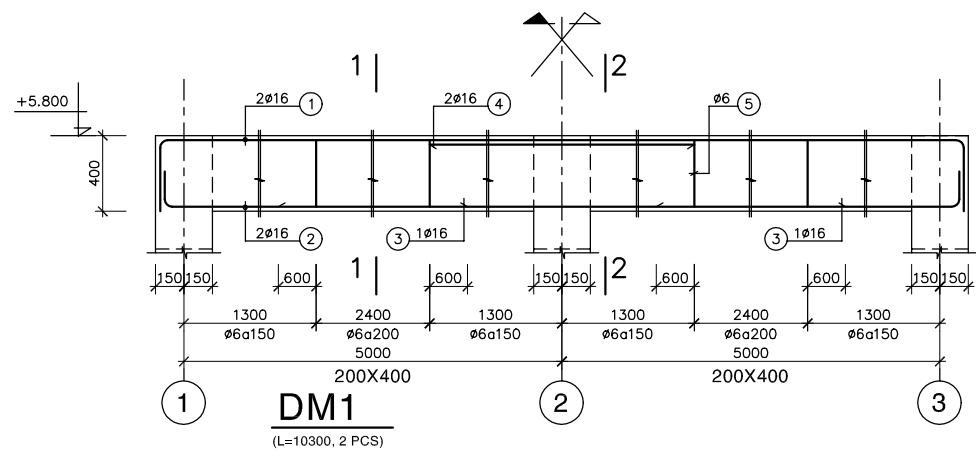
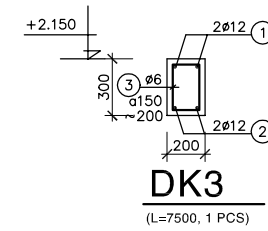
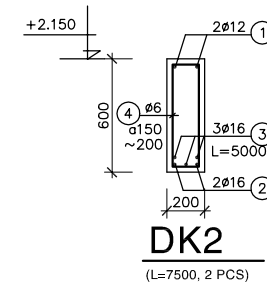
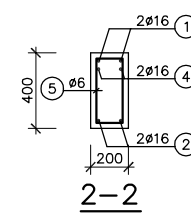
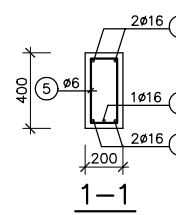
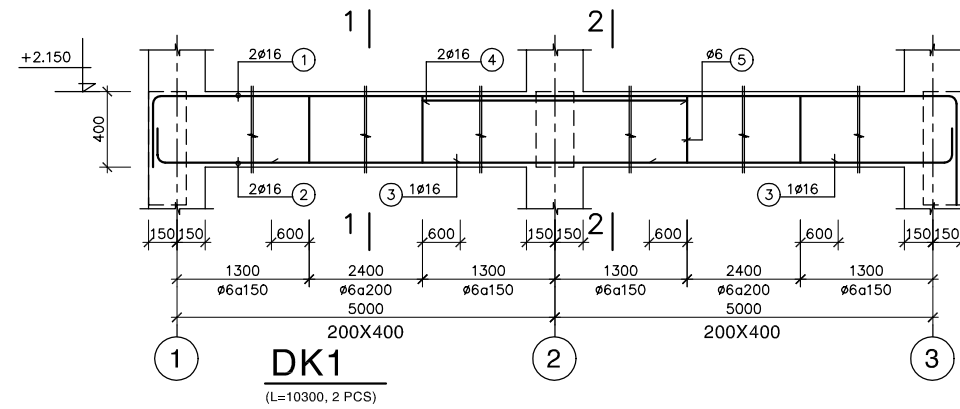
NOTE :
 - LEAN CONCRETE STONE 40x60, GRADE 100
 - CONCRETE STONE 10x20, GRADE 300
 - REINFORCEMENT Ra=2000 Kg/cm²



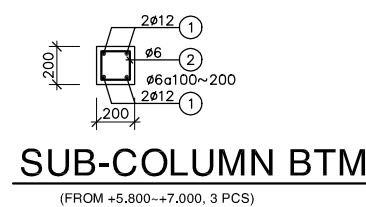
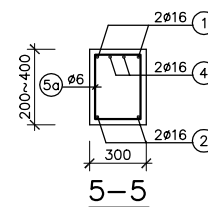
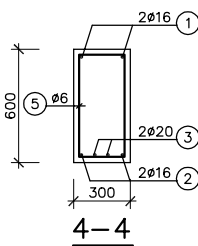
NO.	DATE	DESCRIPTIONS	BY	APRO.
REVISIONS				
PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT				
THE DETAILED DESIGN STUDY ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM				
PACKAGE E WASTEWATER TREATMENT PLANT GUARD HOUSE PLAN & DETAIL OF FOUNDATION				
SCALE : N.T.S				
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		PACIFIC CONSULTANTS INTERNATIONAL		
DESIGNED KIKUTA HIROSHI	CHECKED KONDO MASAMI			
DATE : JUNE 2001	DWG. No. PE-WWTP-306-03			



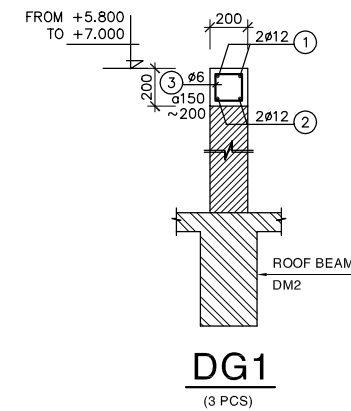
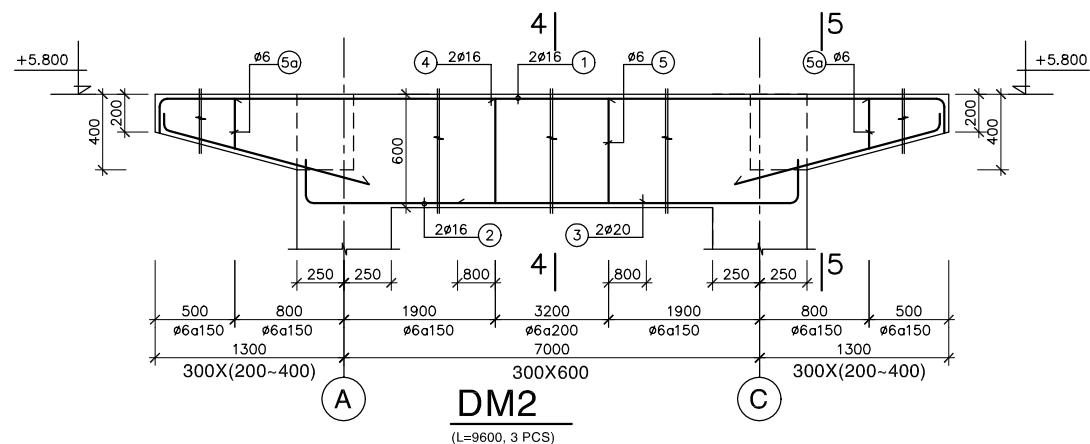
MẶT BẰNG DẦM MÁI
PLAN OF ROOF BEAMS



SUB-COLUMN BT
(FROM +2.150~+5.800, 3 PCS)



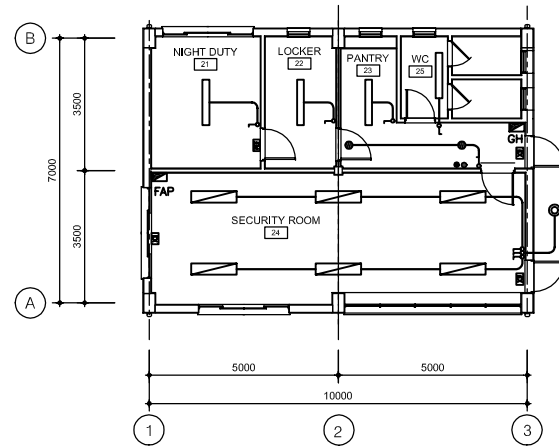
SUB-COLUMN BTM
(FROM +5.800~+7.000, 3 PCS)



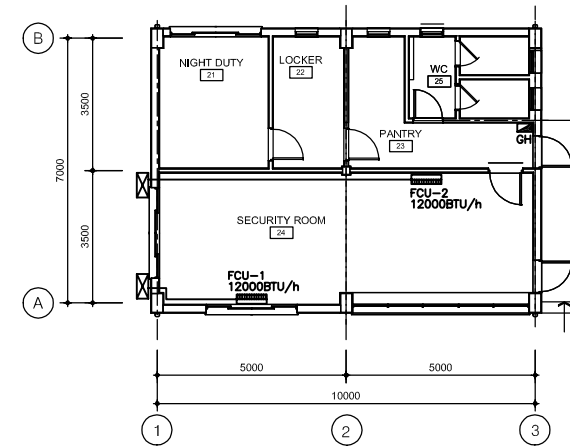
GHI CHÚ:
 - BÊ TÔNG LỚT ĐÁ 40X60, MÁC 100
 - BÊ TÔNG ĐÁ 10X20, MÁC 300
 - CỐT THÉP Ra=2000 Kg/cm²

NOTE:
 - LEAN CONCRETE STONE 40x60, GRADE 100
 - CONCRETE STONE 10x20, GRADE 300
 - REINFORCEMENT Ra=2000 Kg/cm²

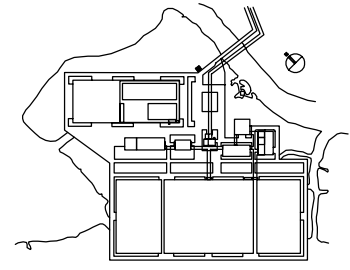
NO.	DATE	DESCRIPTIONS	BY	APRO.
REVISIONS				
PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT				
THE DETAILED DESIGN STUDY ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM				
PACKAGE E WASTEWATER TREATMENT PLANT				
GUARD HOUSE PLAN & DETAIL OF ROOF BEAMS, GROUND-BEAMS, COLUMNS				
SCALE : N.T.S				
JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		PACIFIC CONSULTANTS INTERNATIONAL		
DESIGNED KIKUTA HIROSHI	CHECKED KONDO MASAMI			
DATE : JUNE 2001	DWG. No. PE-WWTP-306-04			



LIGHTING PLAN
SCALE : 1/100

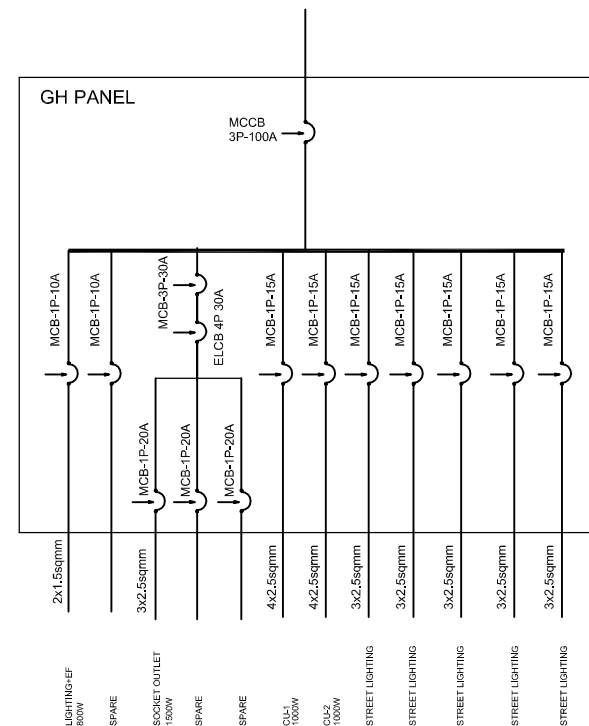


A/C PLAN
SCALE : 1/100

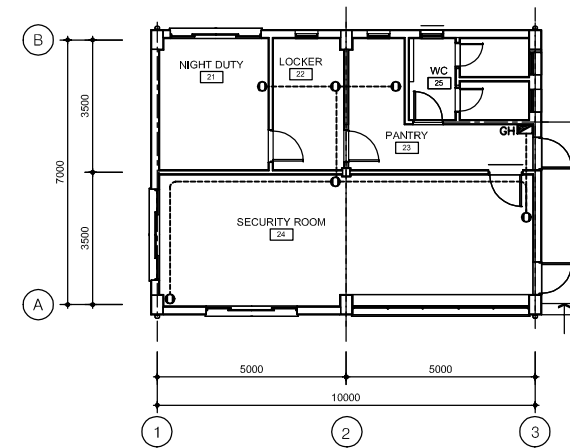


LEGEND

- 2x40W Fluorescent Lamp, Recessed Type
- 1x40W Fluorescent Lamp, Batten
- 1x32W Fluorescent Circular Lamp
- 1x60W Incandescent Lamp, Ceiling Mounted Type
- Single Switch, 220-10A
- Duplex Socket Outlet 10A-220V
- Distribution Panel
- Out Door Unit (Air Conditioner)
- Indoor Unit (Air Conditioner)
- C02 Tank 3Kg
- ABC Powder 4Kg
- Fire Alarm Panel
- Exit Light
- Emergency Light



SINGLE LINE DIAGRAM

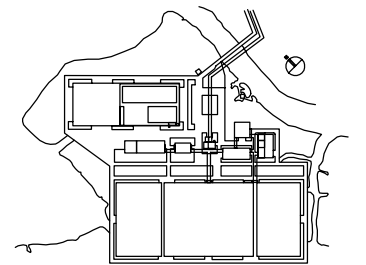
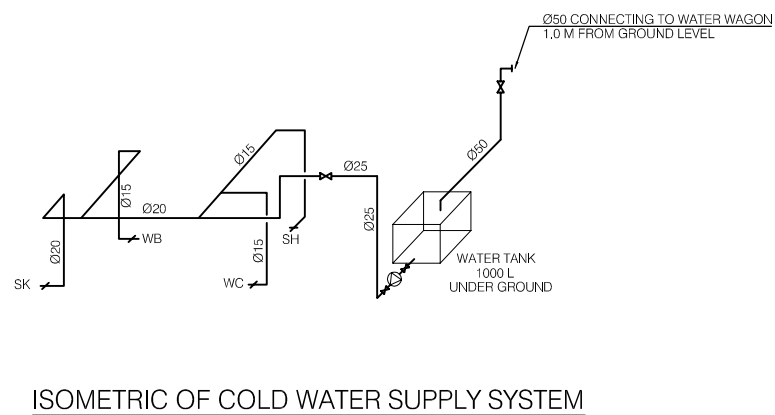
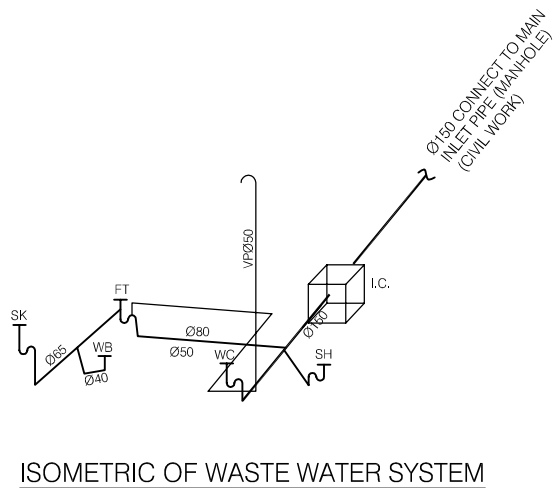
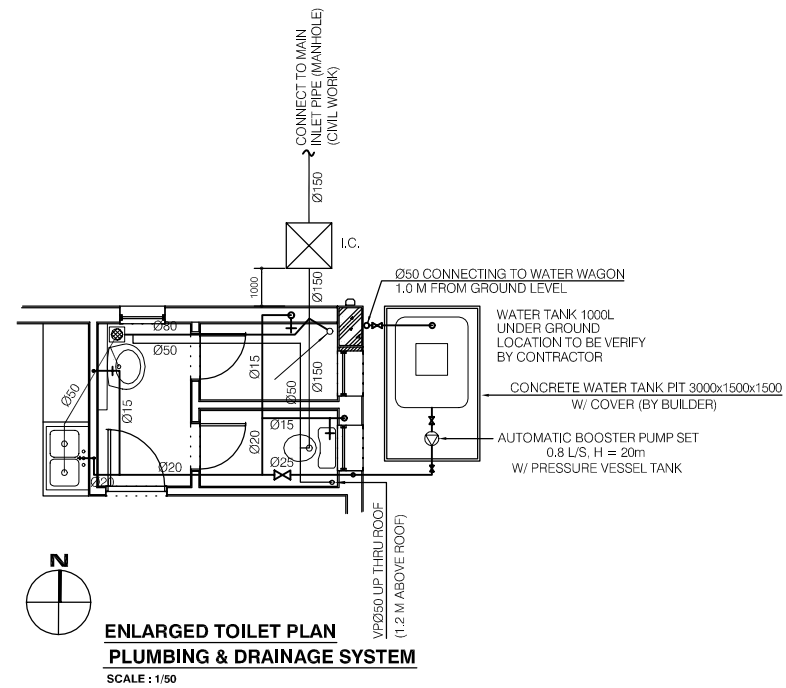
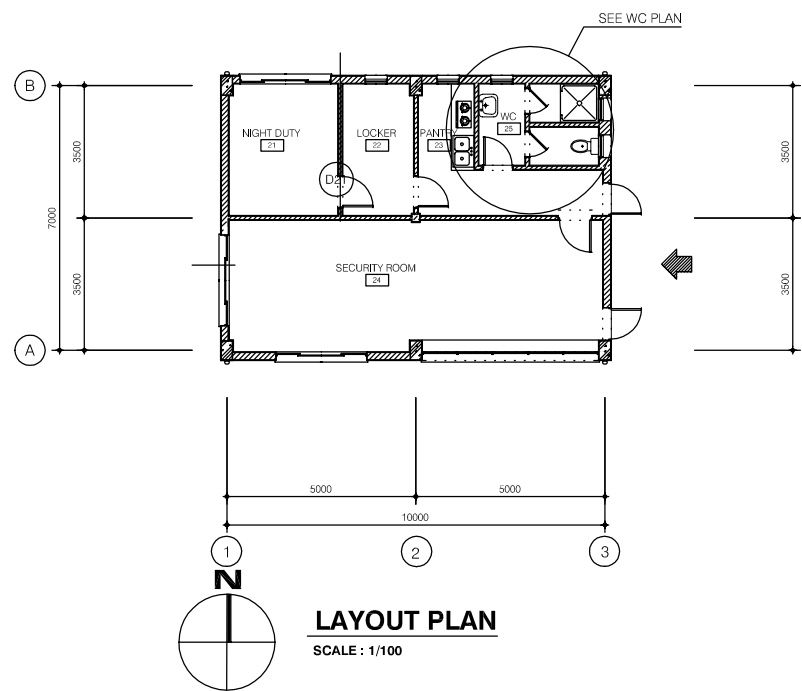


SOCKET PLAN
SCALE : 1/100

LEGEND

- 400W HIGH PRESSURE SODIUM INDUSTRIAL HIGH BAY LUMINAIRE
- 2x36W RECESSED FLOURESCENT
- 2x36W FLOURESCENT BATTEN (CEILING OR WALL MOUNTED)
- 1x40W DOWNLIGHT (h WC)
- 100W OUTDOOR LUMINAIRE, IP 56
- 1x40W DOWNLIGHT (h WC)
- 1x18W FLOURESCENT BATTEN, IP65
- 2x36W FLOURESCENT BATTEN, IP65
- 2x10W NON-MAINTAINED EXIT LIGHT
- 16A DUPLEX SOCKET OUTLET
- 16A DUPLEX SOCKET OUTLET FOR A/C UNIT
- 1 WAY SINGLE SWITCH
- DISTRIBUTION BOARD
- DL : DOOR LOUVER
- EAF : EXHAUST AIR FAN

NO.	DATE	DESCRIPTIONS	BY	APRO.
REVISIONS				
PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT				
THE DETAILED DESIGN STUDY ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM				
PACKAGE E WASTEWATER TREATMENT PLANT GUARD HOUSE ELECTRICAL AND AIR-CONDITIONING LAYOUT PLAN				
SCALE : 1/100				
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED KIKUTA HIROSHI		CHECKED KONDO MASAMI		
DATE : JUN 18 2001		DWG. No. PE-WWTP-306-05		



NO.	DATE	DESCRIPTIONS	BY	APPRO.
REVISIONS				
PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT				
THE DETAILED DESIGN STUDY ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM				
PACKAGE E WASTEWATER TREATMENT PLANT GUARD HOUSE PLUMBING AND DRAINAGE SYSTEM				
SCALE : 1/100				
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED KIKUTA HIROSHI		CHECKED KONDO MASAMI		
DATE : JUNE 2001		DWG. No. PE-WWTP-306-06		