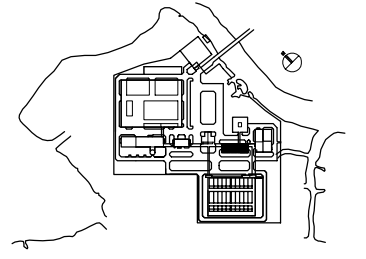


SPANDEK HI-TEN ROOF SHEET (BHP)
TAM LOP MAI SPANDEK (BHP)

EAVE GUTTER
MANG XOI TREO

120x100 DOWNSPOUT (BHP)
ONG XOI 120x100 (BHP)

 **ROOF PLAN**



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
WASTEWATER TREATMENT PLANT
**BLOWER BUILDING
ROOF PLAN**

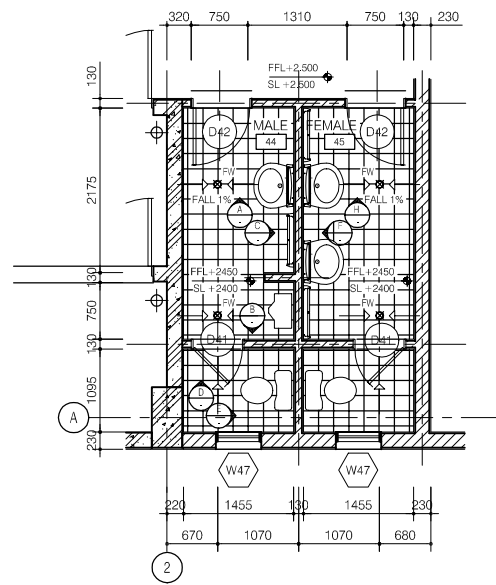
SCALE : 1/100

 JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

 PACIFIC CONSULTANTS INTERNATIONAL

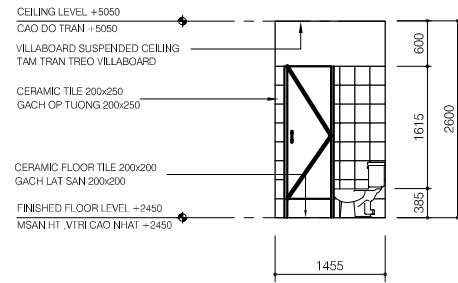
DESIGNED KIKUTA HIROSHI	CHECKED KONDO MASAMI
----------------------------	-------------------------

DATE : JUNE 2001 DWG. No. PE-WWTP-302-09



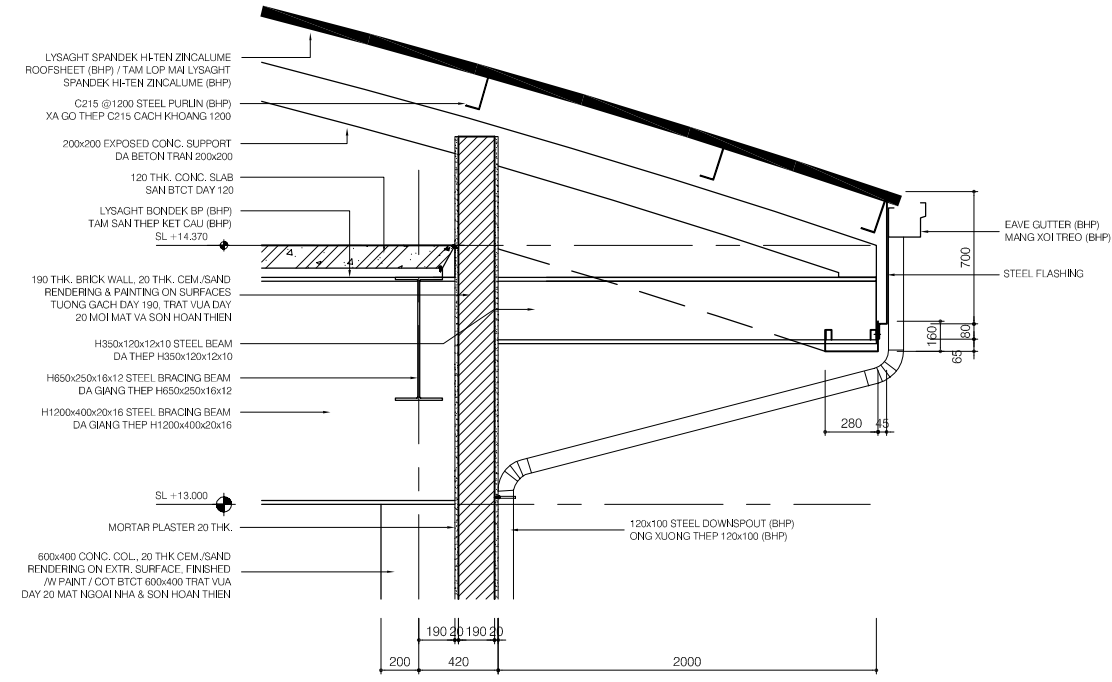
FLOOR PLAN - WC01

SCALE: 1/50



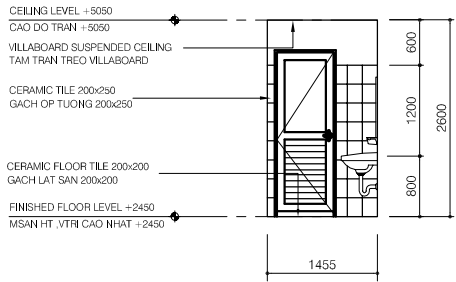
ELEVATION D

SCALE: 1/50



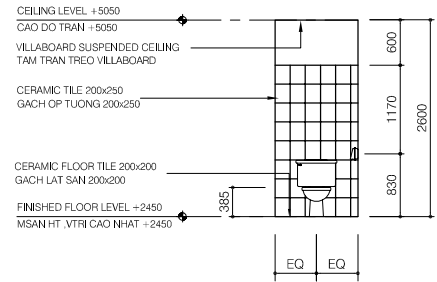
SECTION DETAIL - R01

SCALE: 1/20



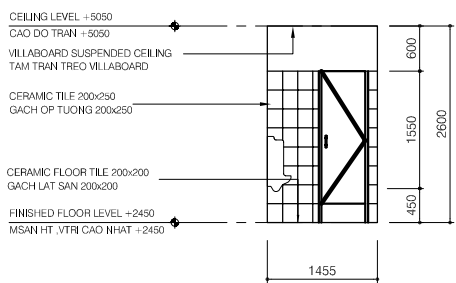
ELEVATION A

SCALE: 1/50



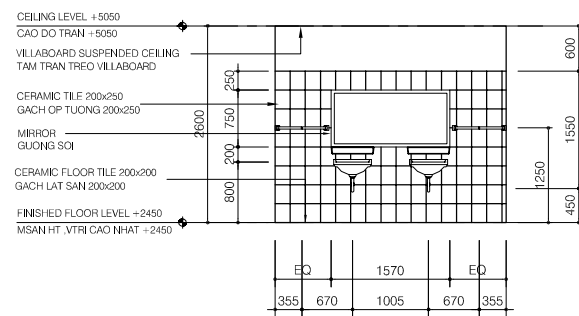
ELEVATION E

SCALE: 1/50



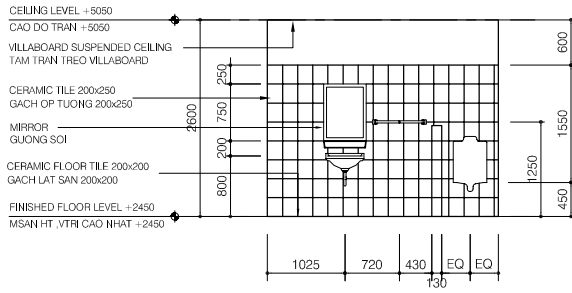
ELEVATION B

SCALE: 1/50



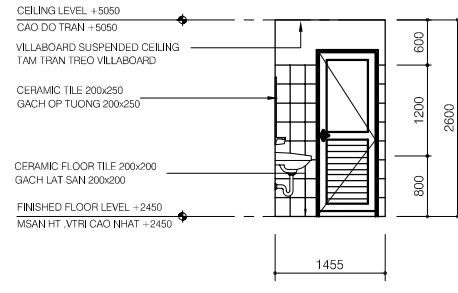
ELEVATION F

SCALE: 1/50



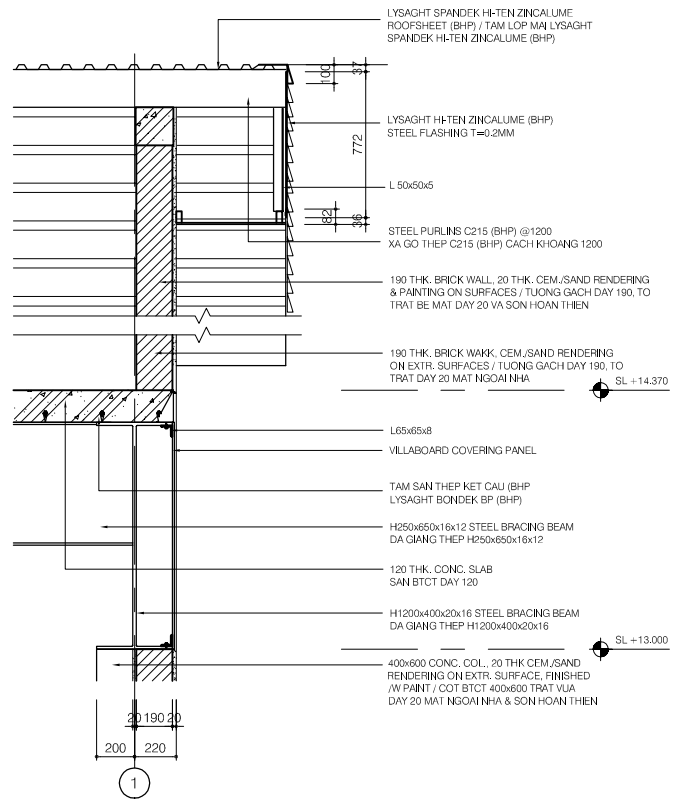
ELEVATION C

SCALE: 1/50



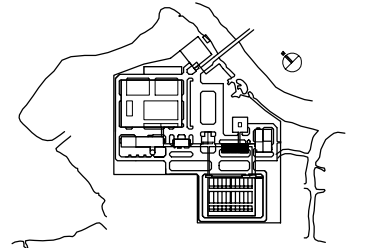
ELEVATION G

SCALE: 1/50



SECTION DETAIL - R02

SCALE: 1/20



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
BLOWER BUILDING
DETAILS

SCALE : AS SHOWN

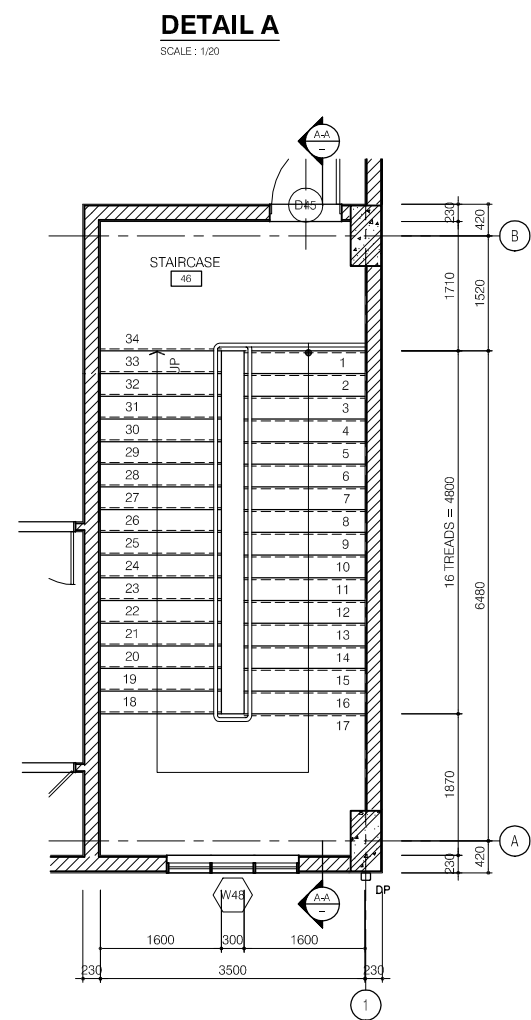
JICA JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

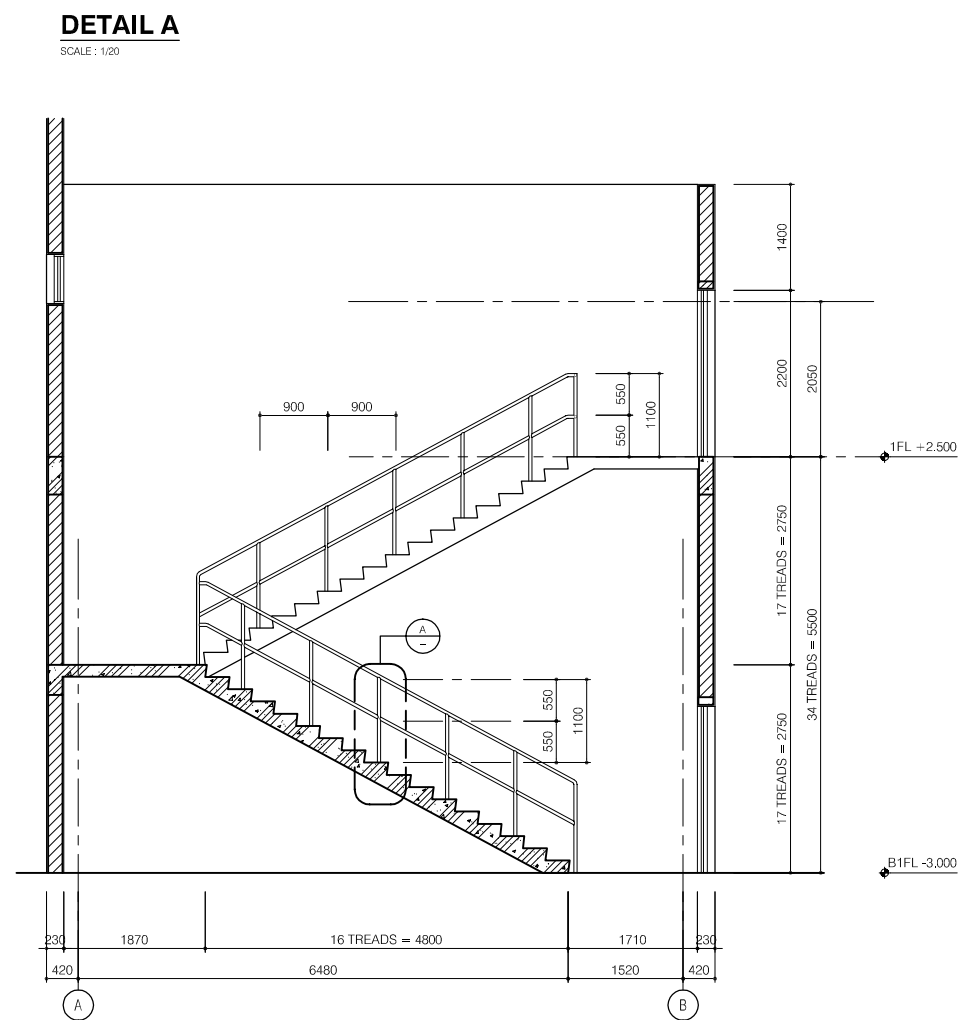
DESIGNED
KIKUTA HIROSHI

CHECKED
KONDO MASAMI

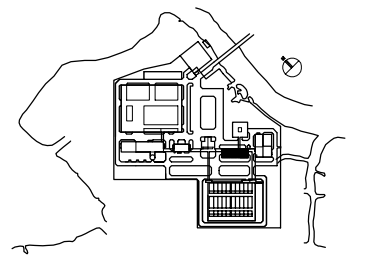
DATE : JUNE 2001 DWG. No. PE-WWTP-302-10



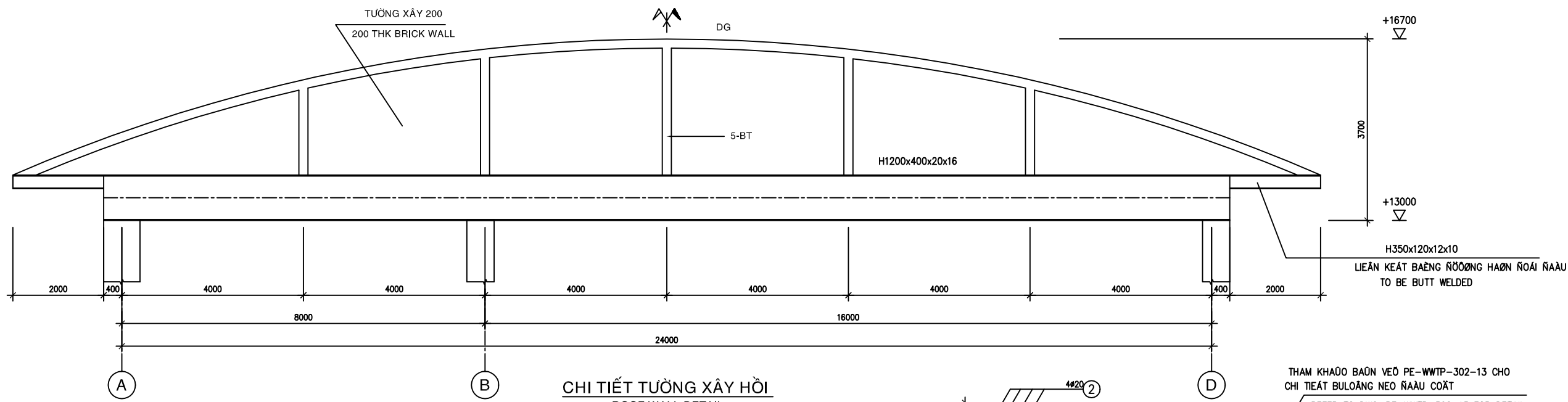
FLOOR PLAN (S01)
SCALE: 1/50



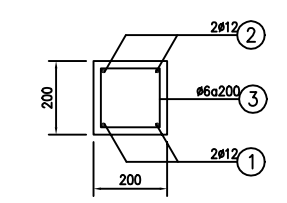
SECTION A-A
SCALE: 1/50



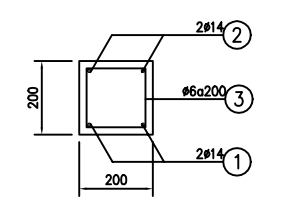
NO.	DATE	DESCRIPTIONS	BY	APPRO.
REVISIONS				
PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT				
THE DETAILED DESIGN STUDY ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM				
PACKAGE E WASTEWATER TREATMENT PLANT BLOWER BUILDING STAIR DETAILS				
SCALE : AS SHOWN				
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED KIKUTA HIROSHI		CHECKED KONDO MASAMI		
DATE : JUNE 2001		DWG. No. PE-WWTP-302-11		



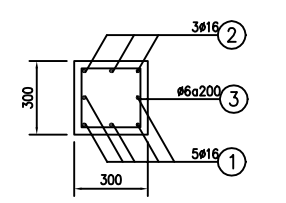
CHI TIẾT TƯỜNG XÂY HỒI
ROOF WALL DETAIL
1/50



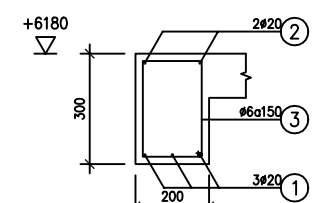
DG
(200x200/1CK)



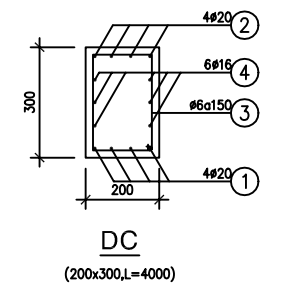
BT
(200x200/5CK)



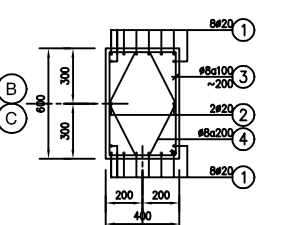
BTT
(300x300, UP TO +10500)



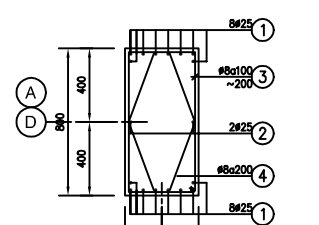
DS-1
(200x300, L=2450)



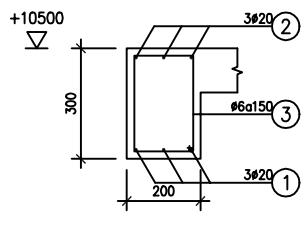
DC
(200x300, L=4000)



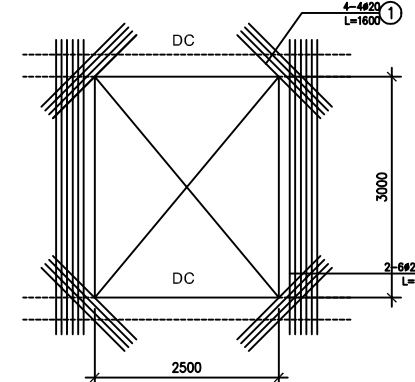
C-1
(400x600, UP TO +13000/4CK)



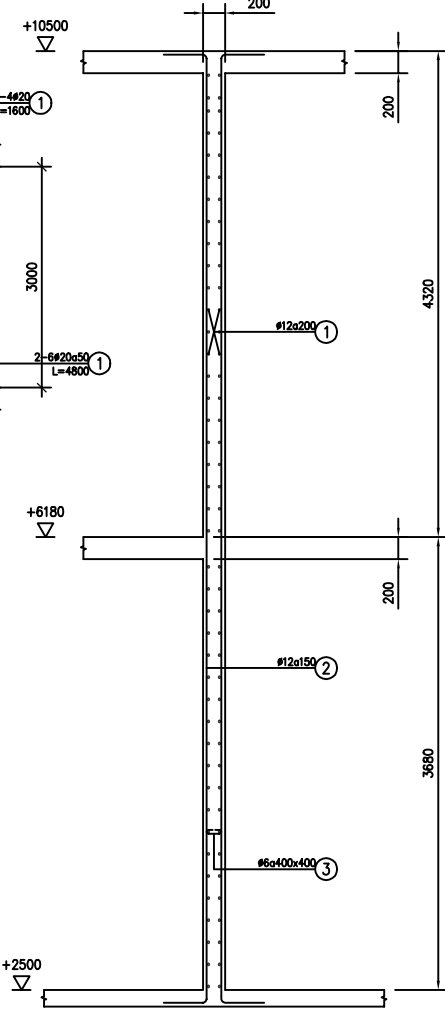
C-2
(400x800, UP TO +13000/13CK)



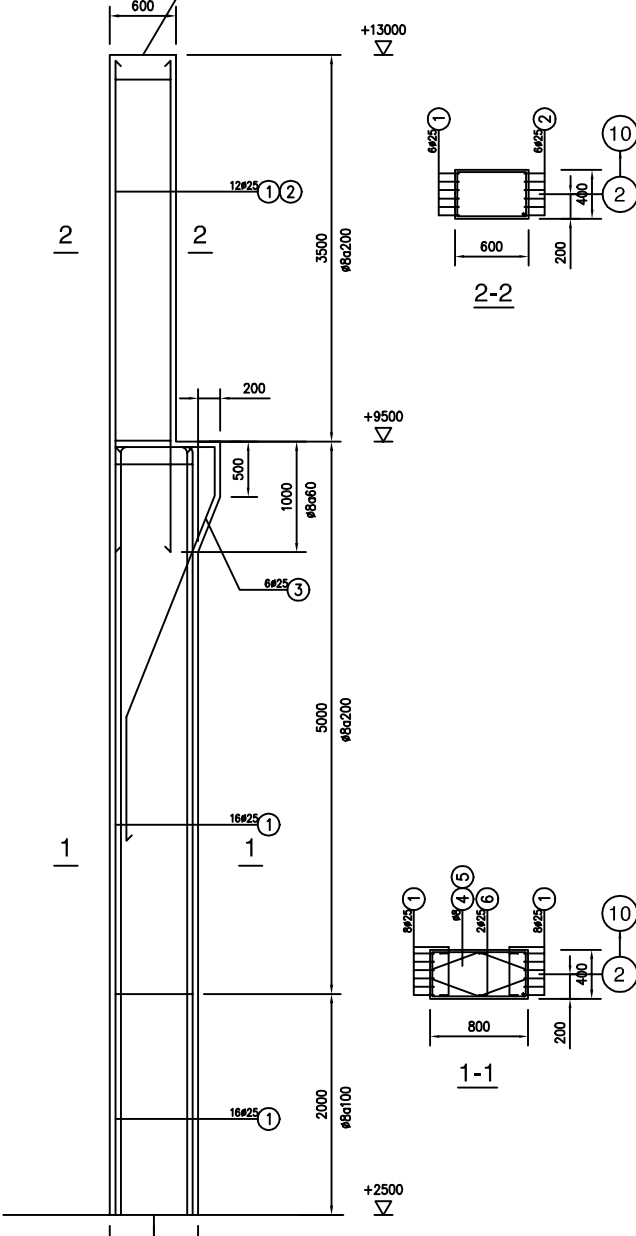
DS-2
(200x300, L=4700)



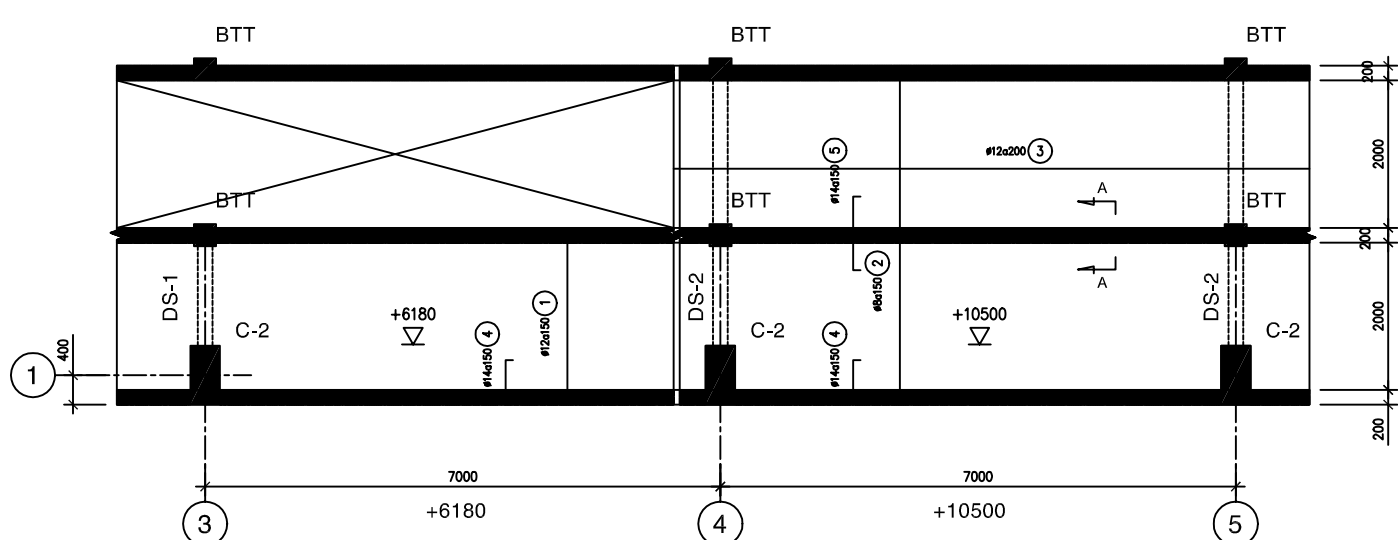
CT GIA CƯỜNG LỖ MỖ
OPENING REINFORCING DETAIL



A-A
1/30



C-3
(400x800/18CK)



MẶT BẰNG TRÍCH ĐOẠN TƯỜNG BTCT
PARTIAL PLAN OF R.C WALL
1/50

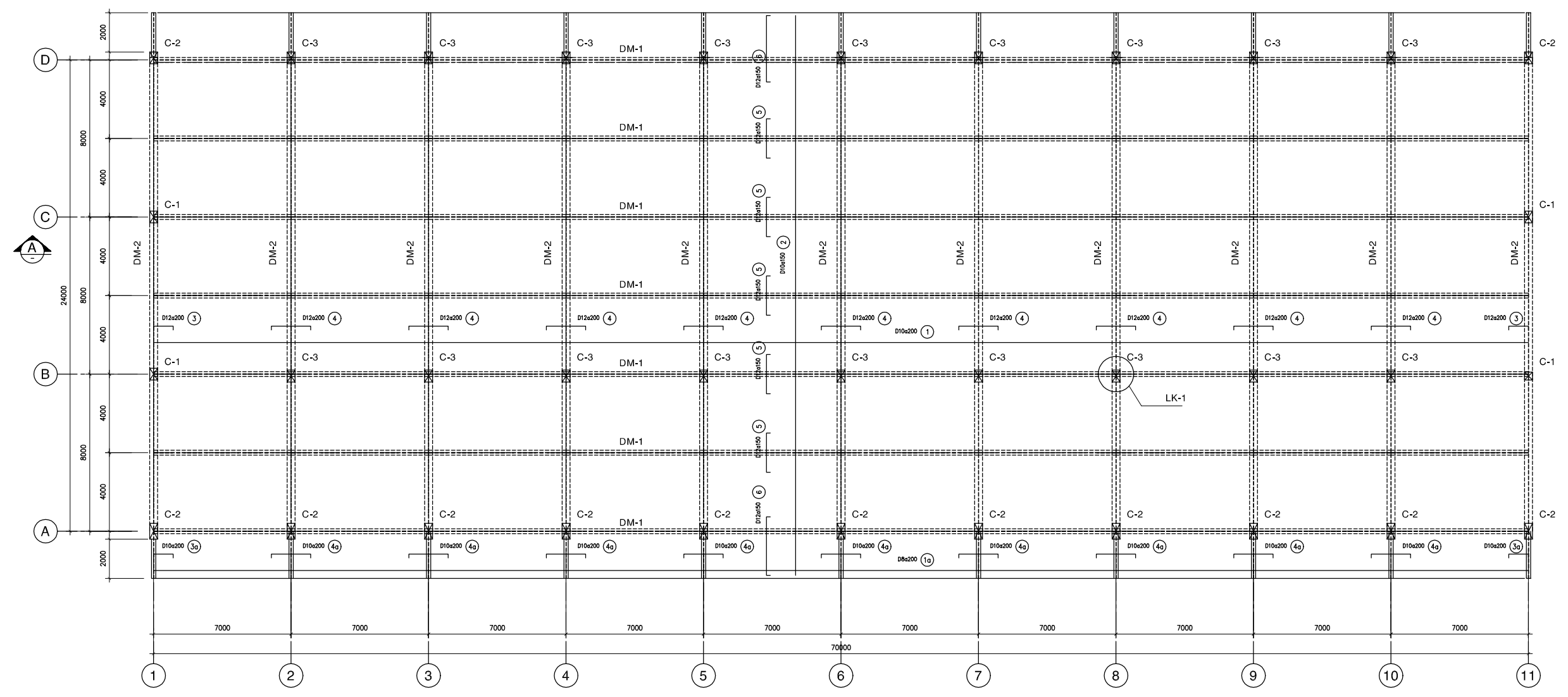
* GHI CHỮU :
- VỊ TRÍ TƯỜNG XÂY HOÀI CHỖ MÃI TÀI TRƯỚC 1,11 XEM BẢN VẼ KIẾN TRÚC ARCHITECTURAL DRAWING FOR LOCATION OF ROOF WALL AT GRID LINE 1,11
- CÁC TƯỜNG CÒN LẠI TÌM TƯỜNG TRƯNG TÌM CỘT

* NOTES :
- FOR REMAINING ROOF WALL, CENTER LINE OF ROOF WALL IS CENTER LINE OF COLUMN

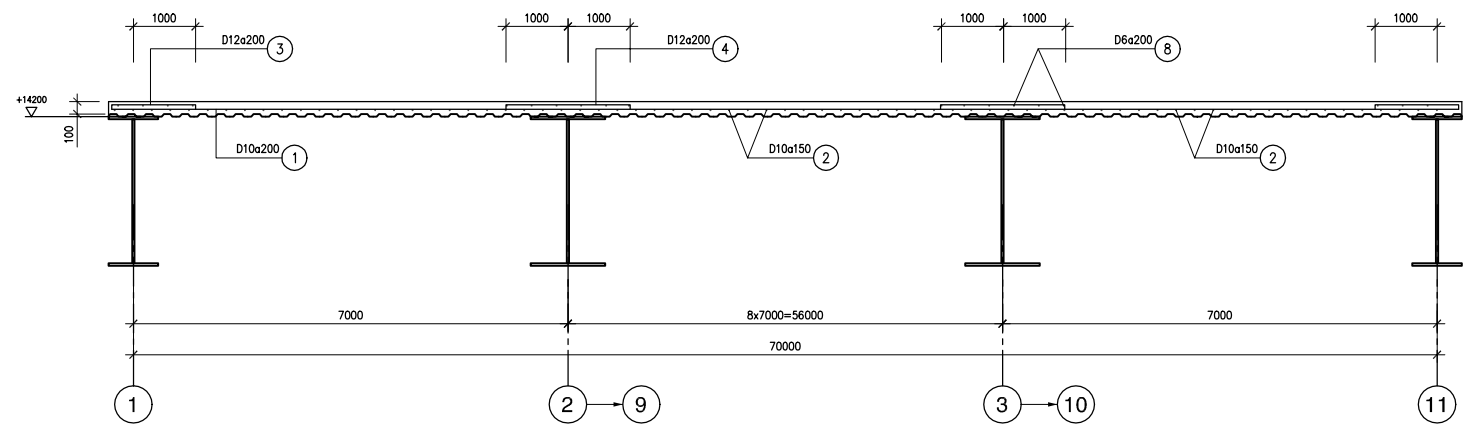
NO.	DATE	DESCRIPTIONS	BY	APRO.
REVISIONS				
PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT				
THE DETAILED DESIGN STUDY ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM				
PACKAGE E WASTEWATER TREATMENT PLANT BLOWER BUILDING RC WALL, COLUMN & ROOF WALL DETAIL				
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-302-12		

GIAI ĐOẠN 2
SECOND PHASE

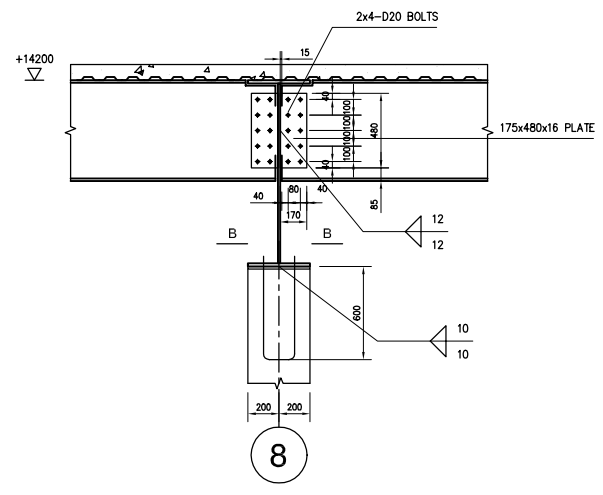
GIAI ĐOẠN 1
FIRST PHASE



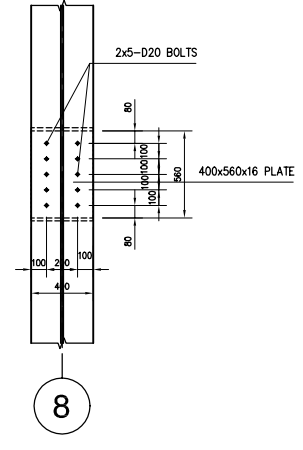
MẶT BẰNG MÁI
ROOF FRAMING PLAN
1/100



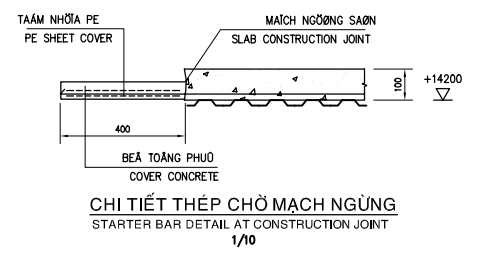
MẶT CẮT A-A
SECTION A-A
1/25



LK-1 (TYP.)
1/20



B-B
1/20



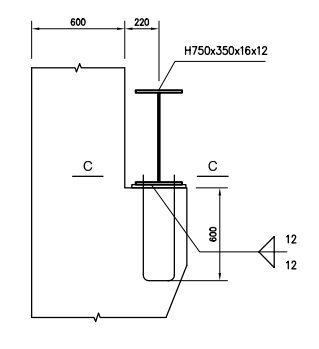
CHI TIẾT THÉP CHỖ MẠCH NGỰNG
STARTER BAR DETAIL AT CONSTRUCTION JOINT
1/10

THÔNG KẾ TIẾT DIỆN
SECTION SCHEDULE

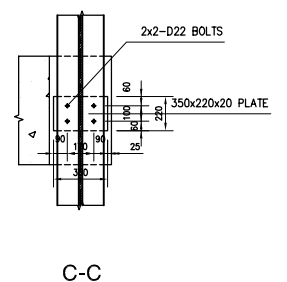
MARKING	SECTION
DM-1	H650x250x16x12
DM-2	H1200x400x20x16

GHI CHÚ:
 BEA TỎNG MÀC 300, RÀO 10x20
 COÁT THÉP : D<10 A1 R_a=2300 kg/cm²
 10<=D<16 A1 R_a=2800 kg/cm²
 D>=16 A1 R_a=3600 kg/cm²
 KEAT CÁN THÉP CT3, R_a = 2100 kg/cm²
 BULOANG LOẠI 5.6, R_c = 1900 kg/cm², R_k = 2100 kg/cm²
 CƯỜNG ROX THEAT KEA RỪNG HẸN GỐC R_c = 1500 kg/cm², R_k = 1500 kg/cm²

NOTES:
 CONCRETE GRADE 300, STONE 10x20
 REINFORCEMENT : D<10 A1 R_a=2300 kg/cm²
 10<=D<16 A1 R_a=2800 kg/cm²
 D>=16 A1 R_a=3600 kg/cm²
 STRUCTURAL STEEL CT3, R_a = 2100 kg/cm²
 BOLT TYPE 5.6, R_c = 1900 kg/cm², R_k = 2100 kg/cm²
 DESIGN STRENGTH R_c = 1500 kg/cm², R_k = 1500 kg/cm²



CHI TIẾT DÀM CẦU CHẠY
CRANE BEAM DETAIL
1/20



C-C
1/20

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
WASTEWATER TREATMENT PLANT
BLOWER BUILDING
ROOF FRAMING PLANG

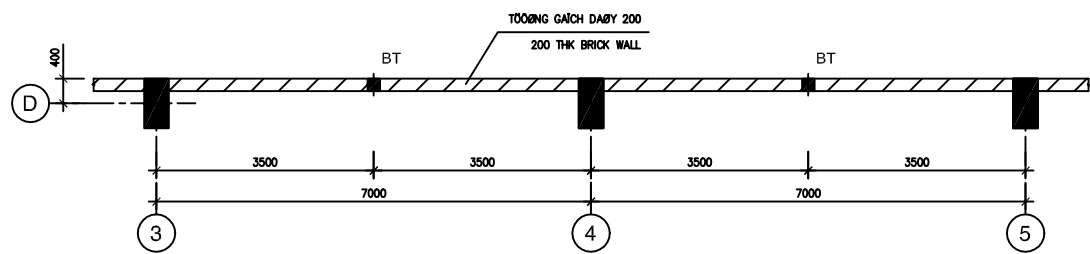
SCALE : N.T.S

JICA JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

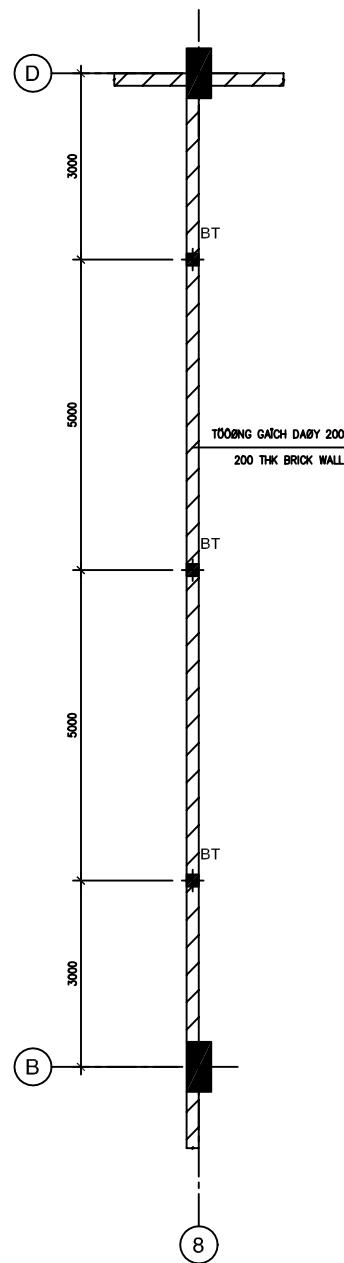
PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED KIKUTA HIROSHI	CHECKED KONDO MASAMI
----------------------------	-------------------------

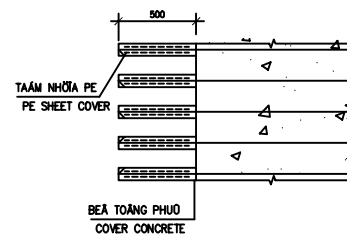
DATE : JUNE 2001 DWG. No. PE-WWTP-302-13



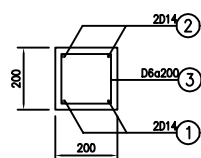
MẶT BẰNG TRÍCH ĐOẠN TƯỜNG BIÊN TRỤC D(TYP.)
PARTIAL PLAN OF GRIDLINE D BOUNDARY WALL(TYP.)
1/50



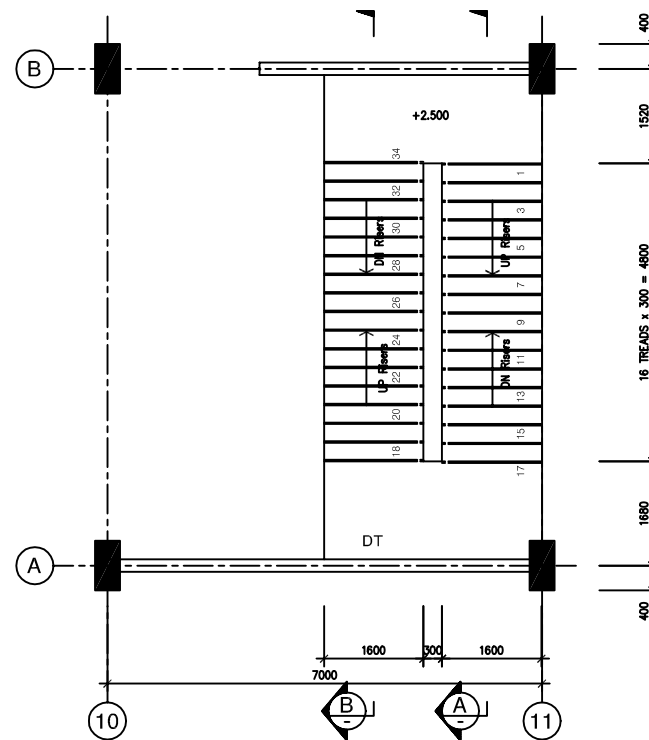
MẶT BẰNG BỔ TRỢ TƯỜNG TRỤC 8
PLAN OF GL 8 WALL PIER
1/50



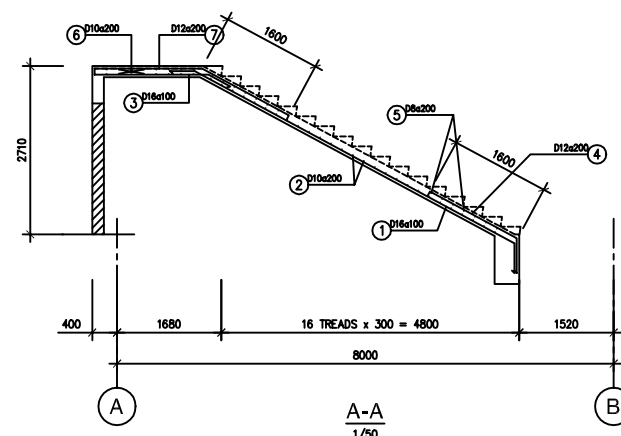
CHI TIẾT THÉP CHỖ TƯỜNG BTCT
R.C WALL STARTER BAR DETAIL
1/20



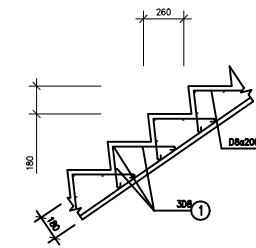
BT
(200x200, UP TO +10500)



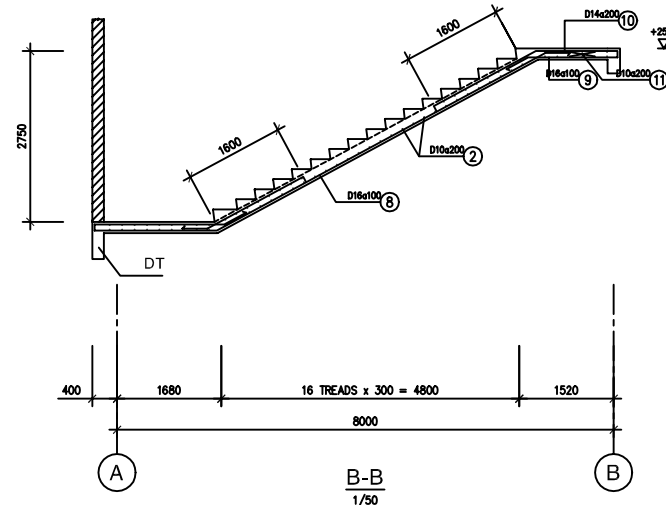
MẶT BẰNG THANG
STAIR PLAN
1/50



A-A
1/50



CHI TIẾT A
DETAIL A
1/20



B-B
1/50

GHỊ CHỮ:
BÊ TÔNG MẠC 300, RÀO 10x20
COÁT THÉP: D<10 A1 R_a=2300 kg/cm²
10<D<16 A1 R_a=2800 kg/cm²
D=16 A1 R_a=3600 kg/cm²
NOTES:
CONCRETE GRADE 300, STONE 10x20
REINFORCEMENT : D<10 A1 R_a=2300 kg/cm²
10<D<16 A1 R_a=2800 kg/cm²
D=16 A1 R_a=3600 kg/cm²

NO.	DATE	DESCRIPTIONS	BY	APRO.

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HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

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WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

PACKAGE E
WASTEWATER TREATMENT PLANT
**BLOWER BUILDING
PIER, STAIR PLAN AND DETAILS**

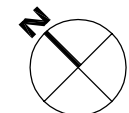
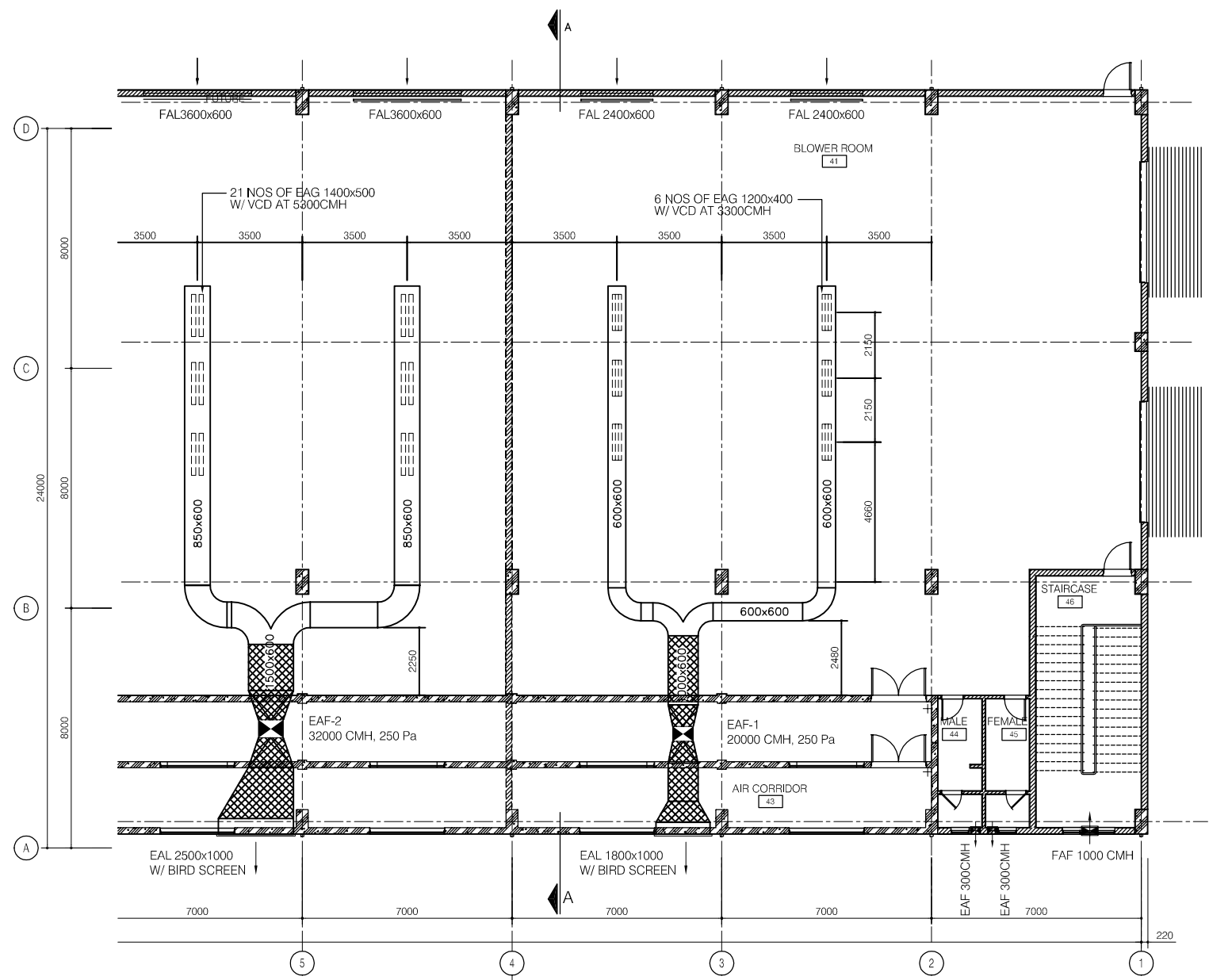
SCALE : N.T.S

JICA JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED
KIKUTA HIROSHI
CHECKED
KONDO MASAMI

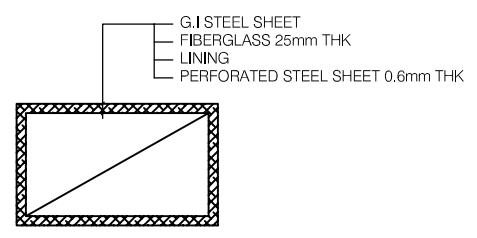
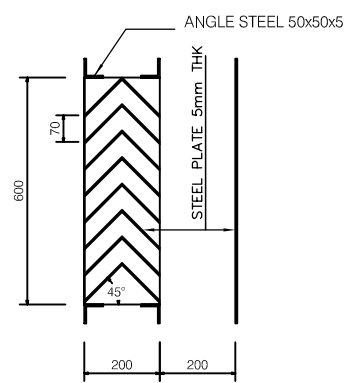
DATE : JUNE 2001 DWG. No. PE-WWTP-302-14



FIRST FLOOR - MECHANICAL PLAN (FIRST STAGE)

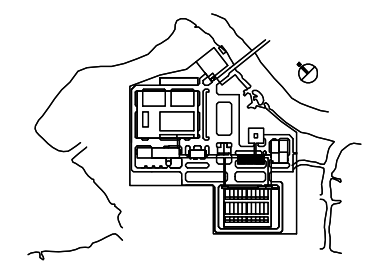
SCALE 1/100

FUTURE FIRST STAGE



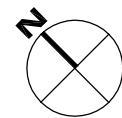
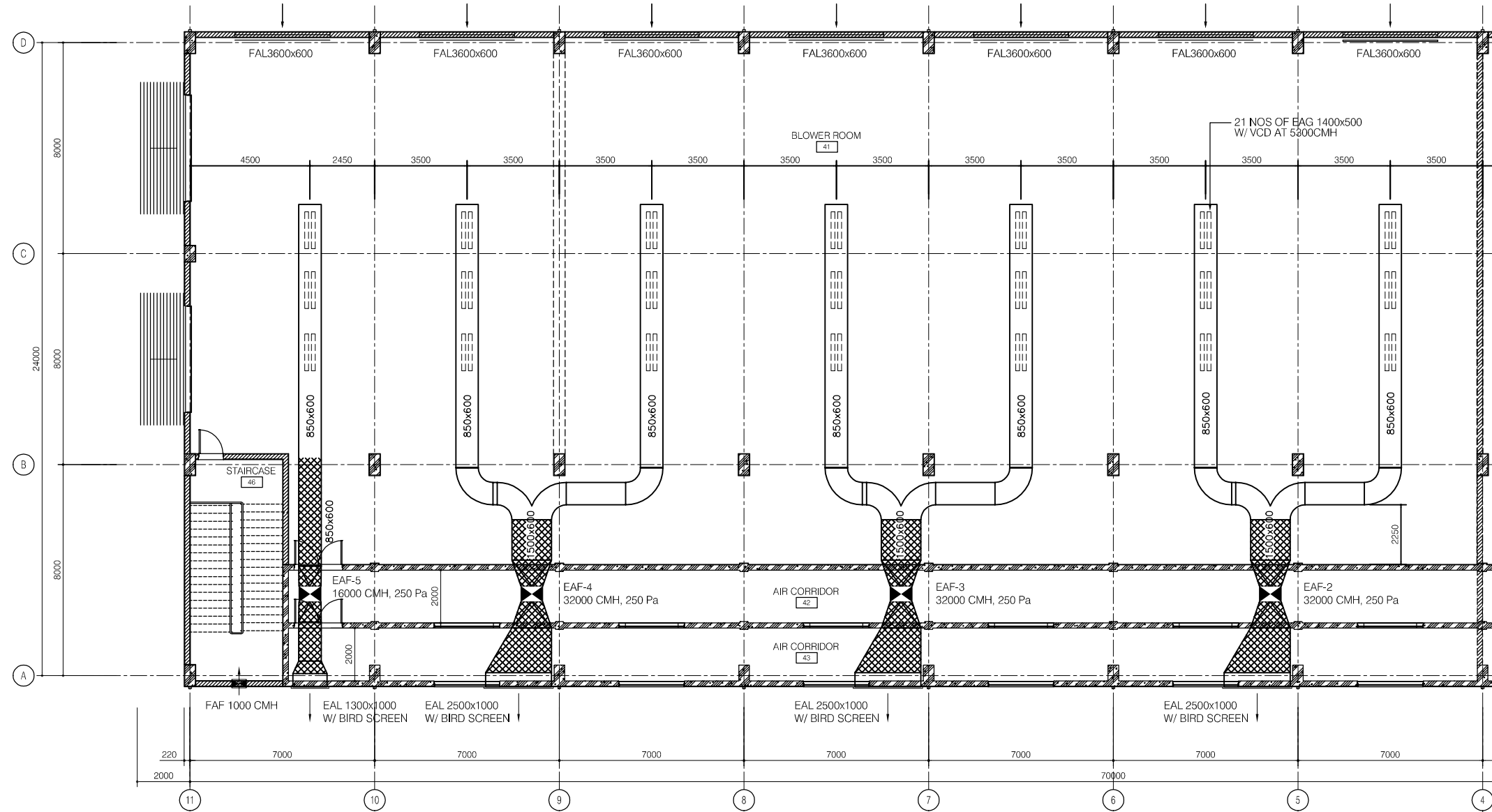
LEGEND :

- 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



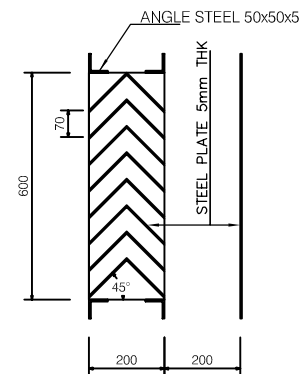
NO.	DATE	DESCRIPTIONS	BY	APRO.

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 BLOWER BUILDING FIRST FLOOR PLAN MECHANICAL PLAN (FIRST STAGE)				
SCALE : 1/100				
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED KIKUTA HIROSHI	CHECKED KONDO MASAMI			
DATE : JUNE 2001	DWG. No. PE-WWTP-302-15			

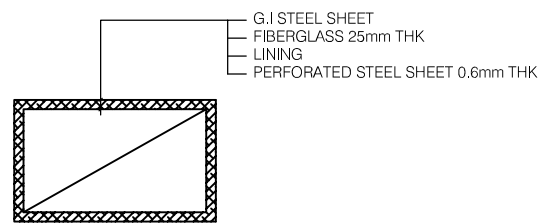


FIRST FLOOR - MECHANICAL PLAN (FUTURE)

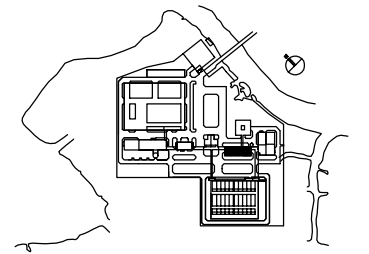
SCALE : 1/100



FRESH AIR LOUVRE
N.T.S.



INTERNAL INSULATION DUCT
N.T.S.



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
BLOWER BUILDING
FIRST FLOOR PLAN
MECHANICAL PLAN (FUTURE)

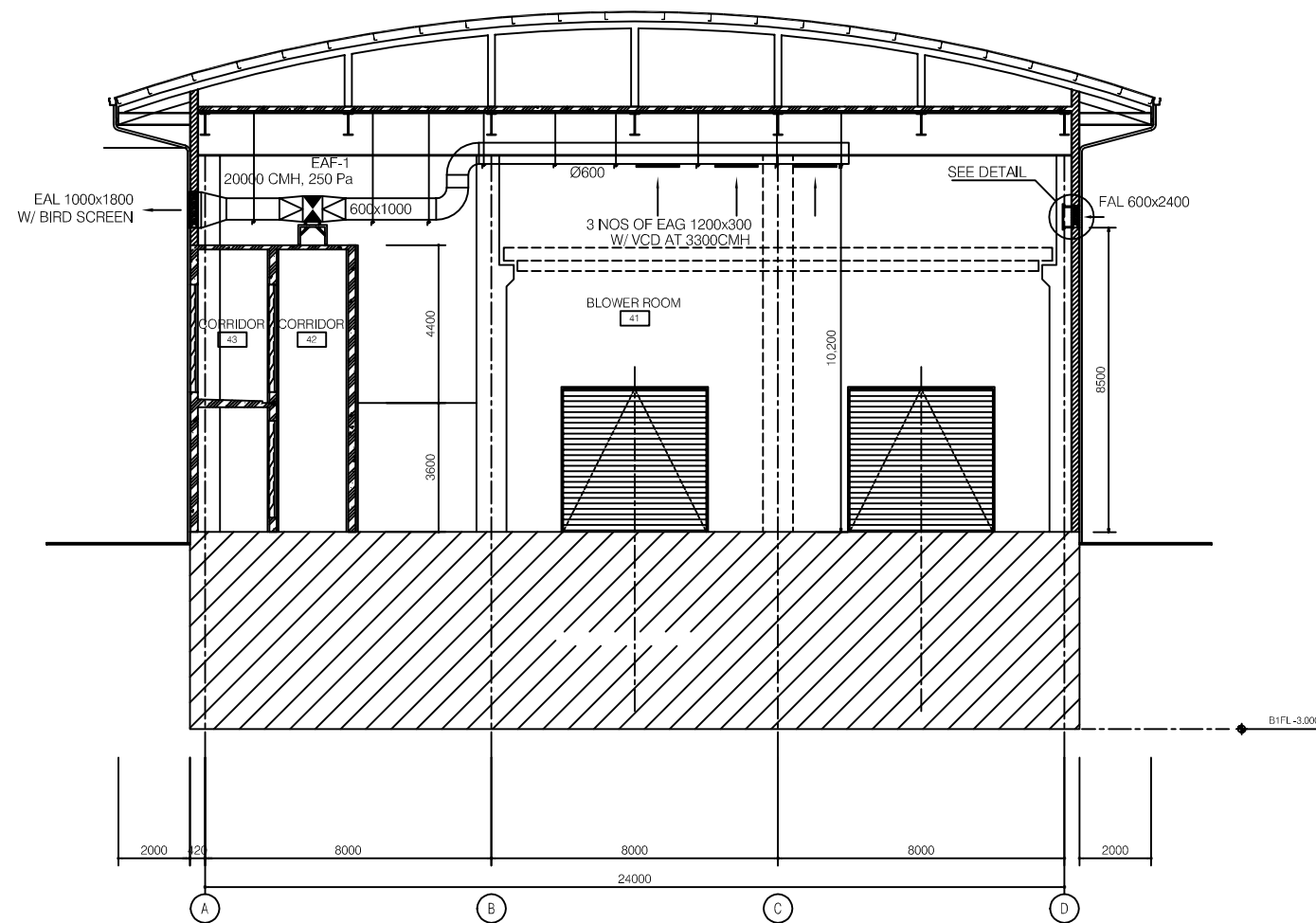
SCALE : 1/100

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL





DESIGNED KIKUTA HIROSHI	CHECKED KONDO MASAMI
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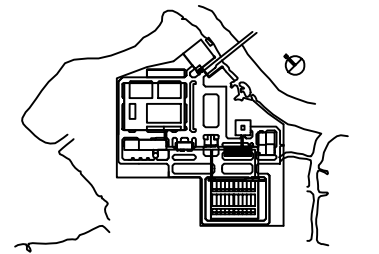
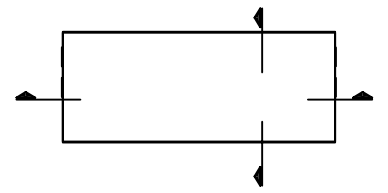
DATE : JUNE 2001 DWG. No. PE-WWTP-302-16



CROSS SECTION A-A
SCALE:1/100

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.

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

BLOWER BUILDING
MECHANICAL SECTION

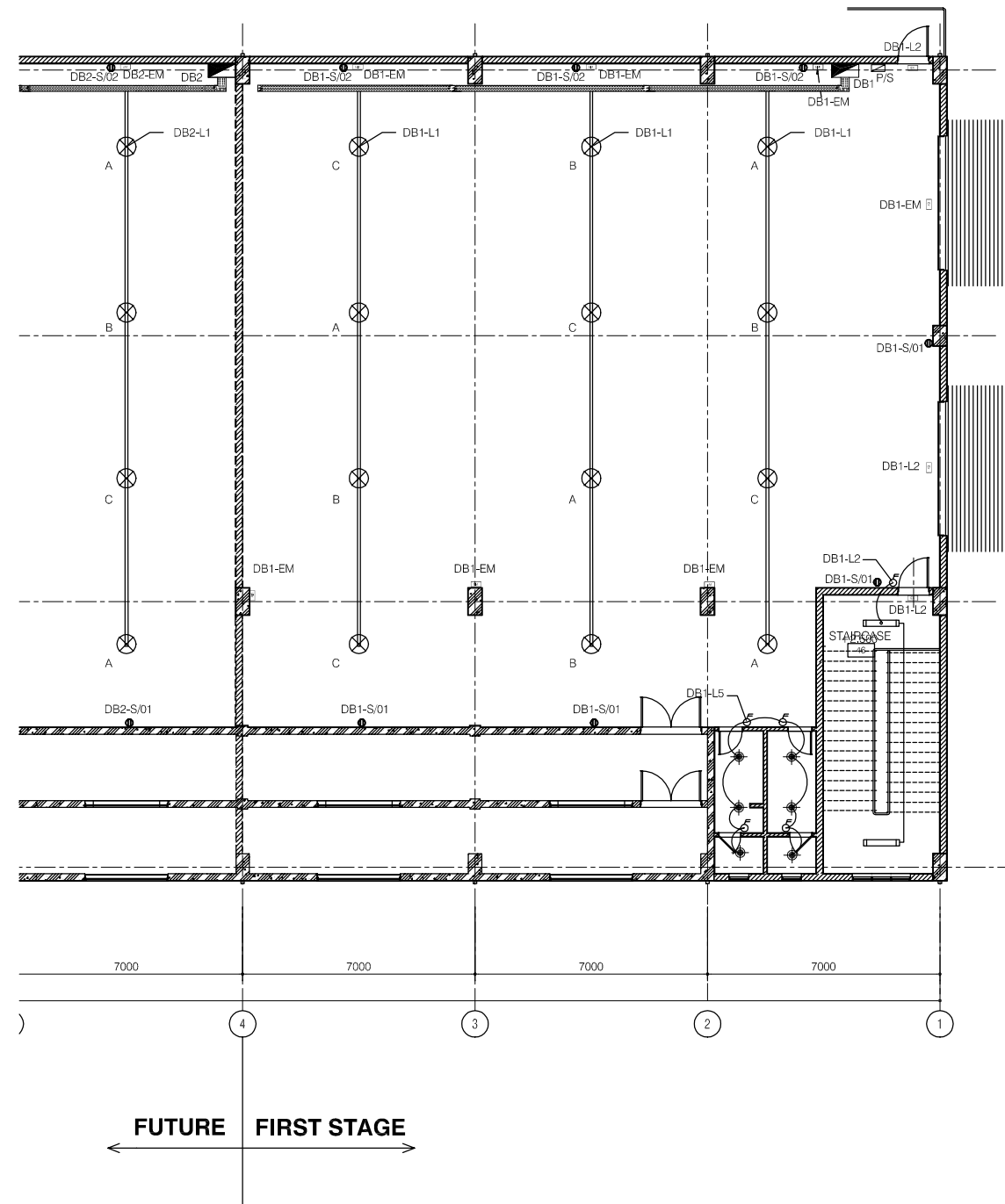
SCALE : 1/100

 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

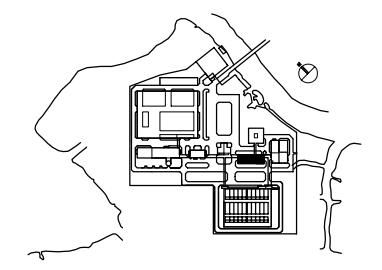
 PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED KIKUTA HIROSHI	CHECKED KONDO MASAMI
----------------------------	-------------------------

DATE : JUNE 2001 DWG. No. PE-WWTP-302-17



- LEGEND**
- ⊗ 400W HIGH PRESSURE SODIUM INDUSTRIAL HIGH BAY LUMINAIRE
 - ▬ 2x36W RECESSED FLOURESCENT
 - ▬ 2x36W FLOURESCENT BATTEN (CEILING OR WALL MOUNTED)
 - 1x40W DOWNLIGHT (in VC)
 - 100W OUTDOOR LUMINAIRE, IP 56
 - 1x40W DOWNLIGHT (in VC)
 - ▬ 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
BLOWER BUILDING
FIRST FLOOR PLAN
ELECTRICAL PLAN (FIRST STAGE)

SCALE : 1/100

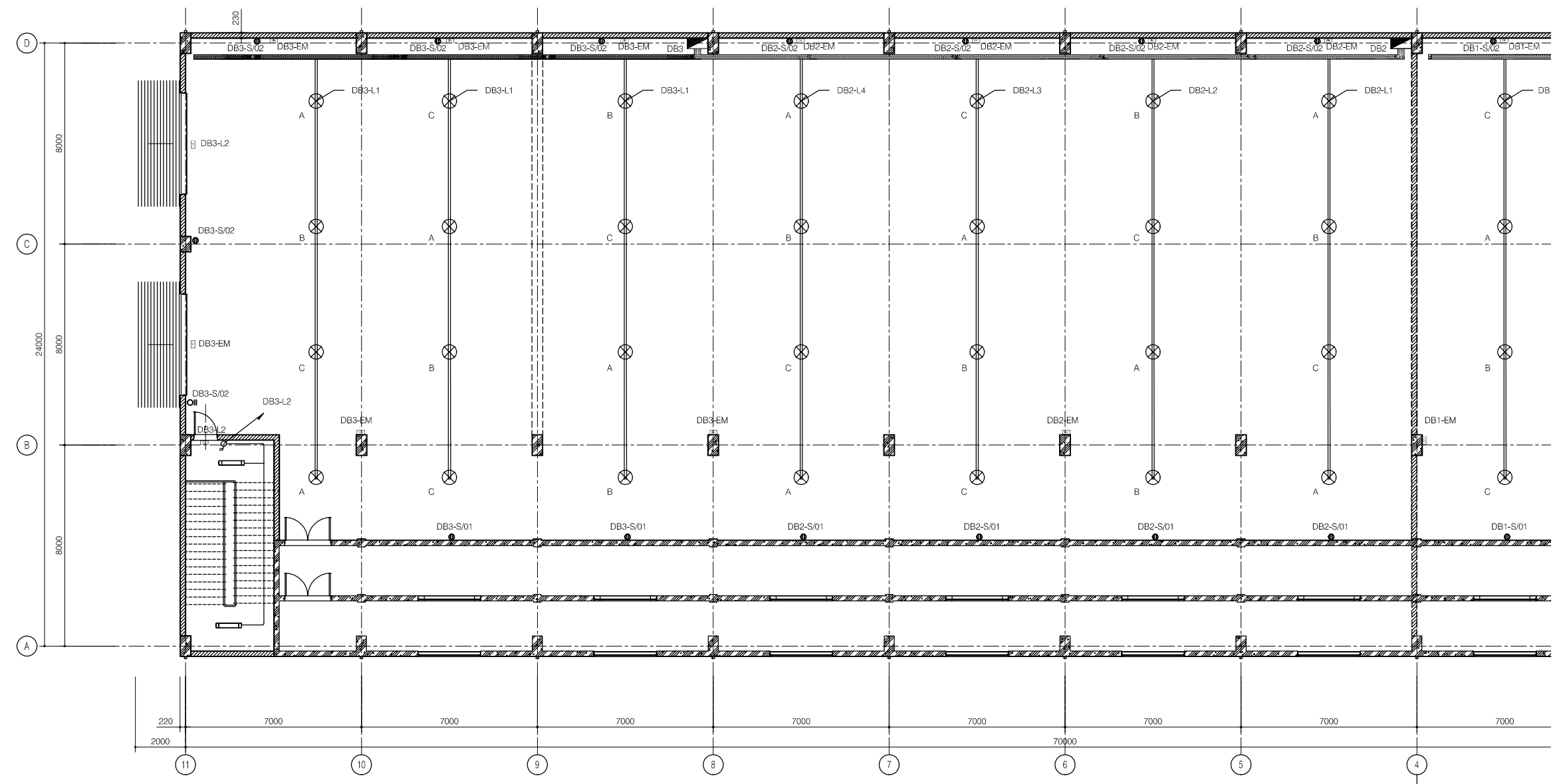
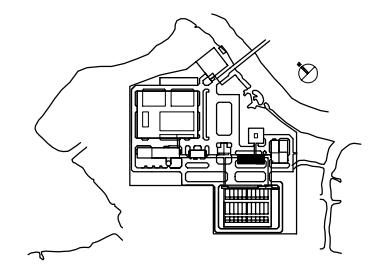
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED KIKUTA HIROSHI	CHECKED KONDO MASAMI
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DATE : JUNE 2001 DWG. No. PE-WWTP-302-18

- LEGEND**
- ⊗ 400W HIGH PRESSURE SODIUM INDUSTRIAL HIGH BAY LUMINAIRE
 - ▬ 2x36W RECESSED FLOURESCENT
 - ▬ 2x36W FLOURESCENT BATTEN (CEILING OR WALL MOUNTED)
 - 1x40W DOWNLIGHT (in VC)
 - 100W OUTDOOR LUMINAIRE, IP 56
 - 1x40W DOWNLIGHT (in VC)
 - ▬ 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

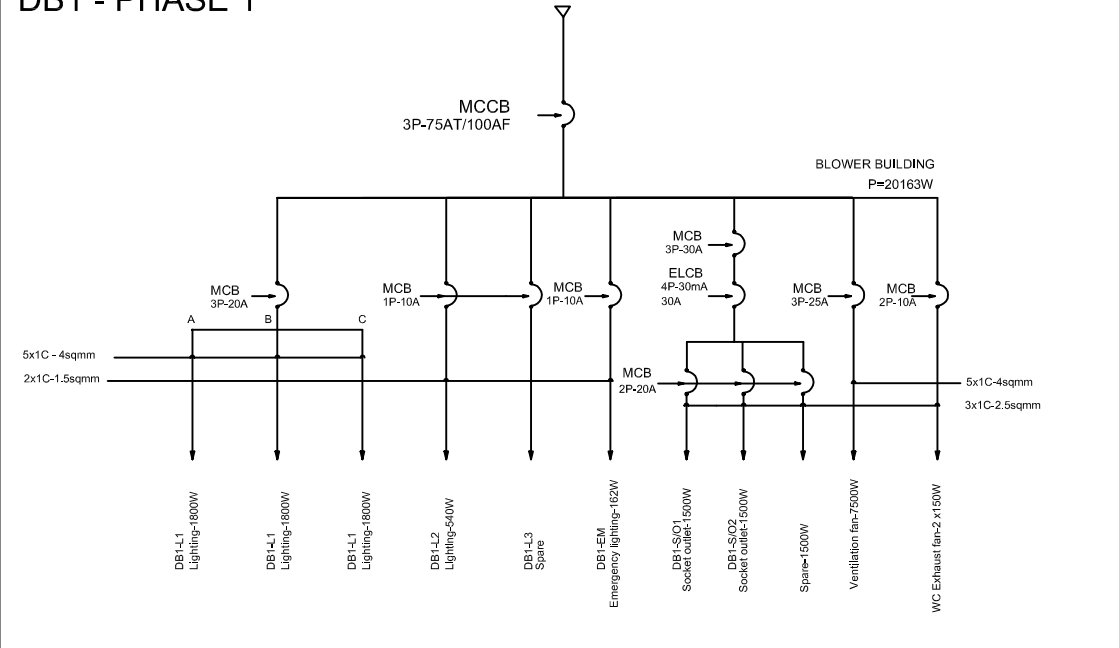


FIRST FLOOR - ELECTRICAL PLAN
SCALE:1/100

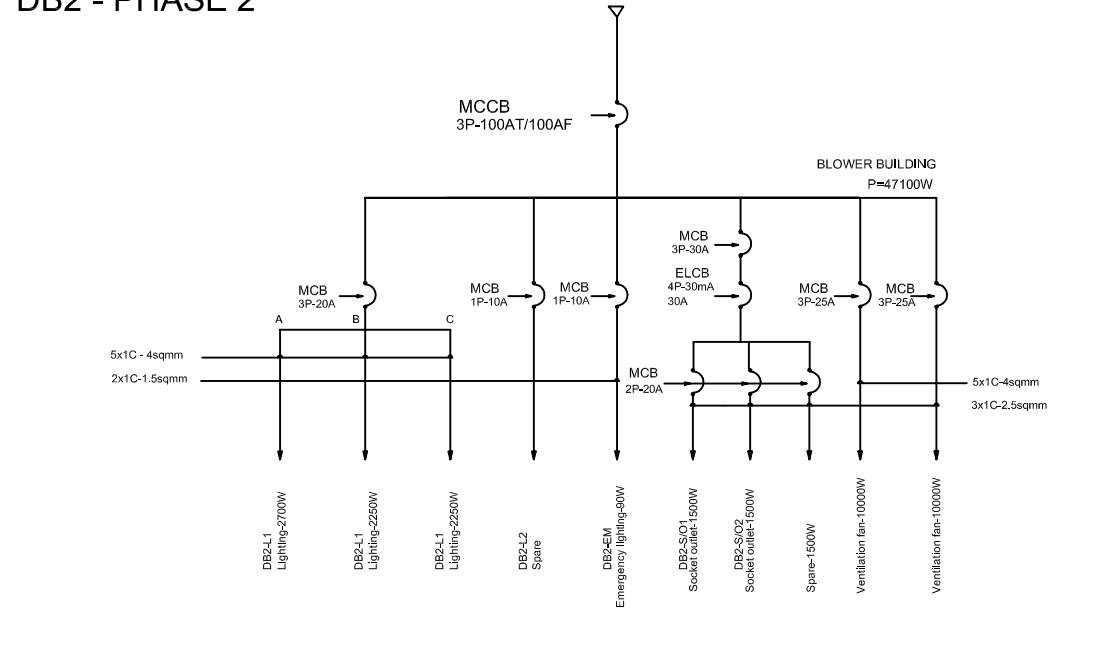
FUTURE FIRST STAGE

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 BLOWER BUILDING FIRST FLOOR PLAN ELECTRICAL PLAN (FUTURE)				
SCALE : 1/100				
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED KIKUTA HIROSHI			CHECKED KONDO MASAMI	
DATE : JUNE 2001		DWG. No. PE-WWTP-302-19		

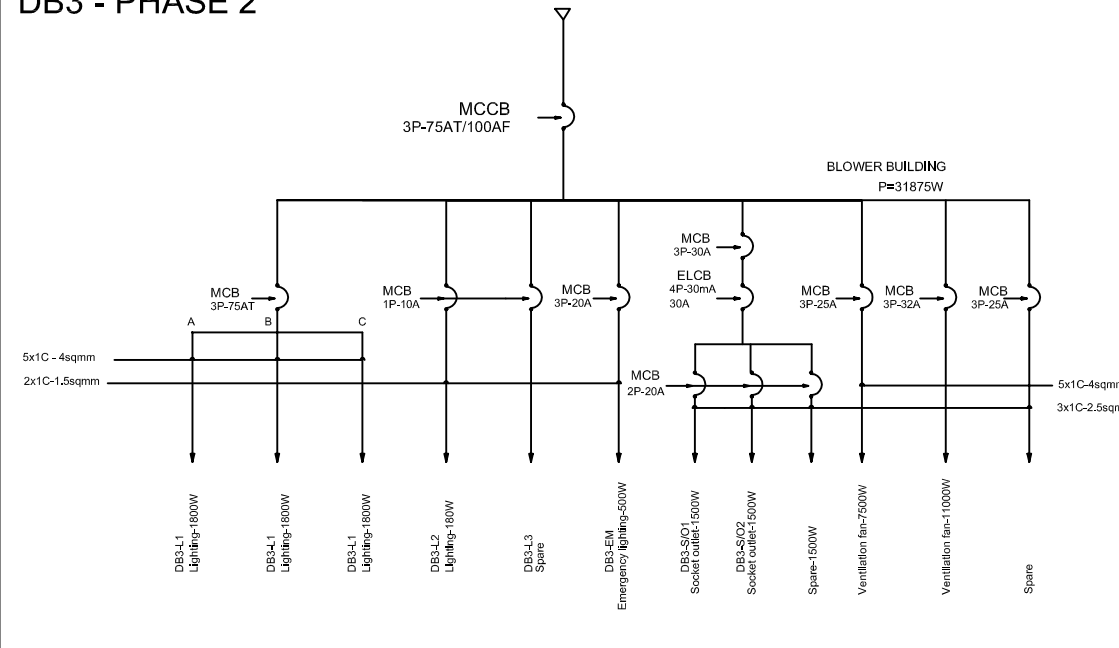
DB1 - PHASE 1



DB2 - PHASE 2



DB3 - PHASE 2



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
WASTEWATER TREATMENT PLANT

BLOWER BUILDING
ELECTRICAL DIAGRAM

SCALE : N.T.S

JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED
KIKUTA HIROSHI

CHECKED
KONDO MASAMI

DATE : JUNE 2001 DWG. No. WWTP-302-20