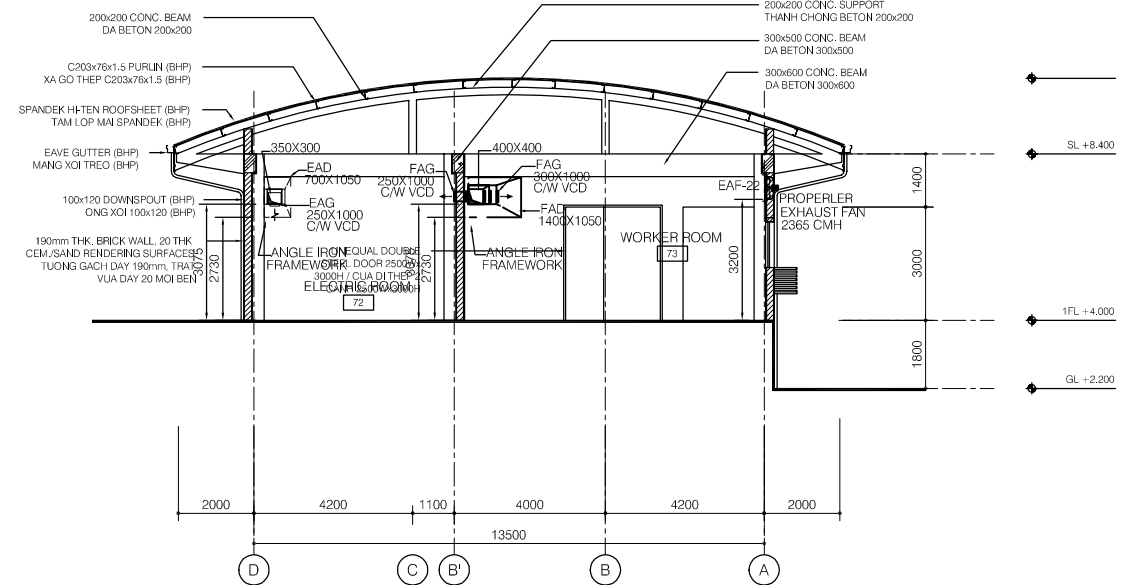
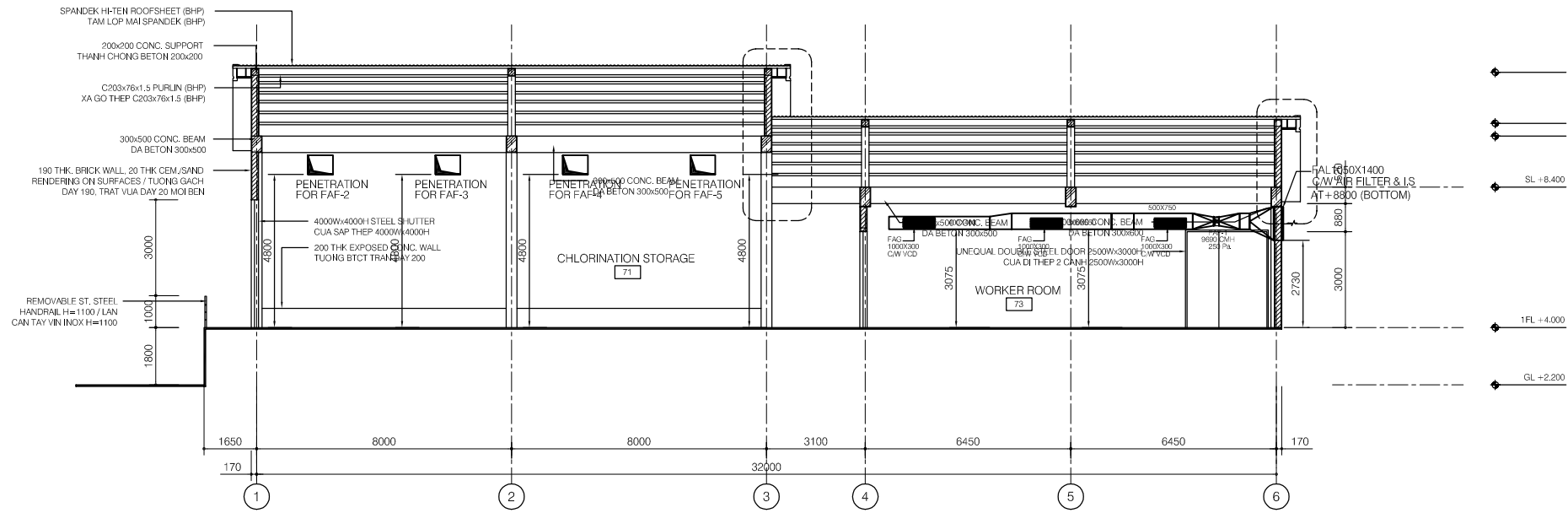


CROSS SECTION B-B
SCALE : 1/100

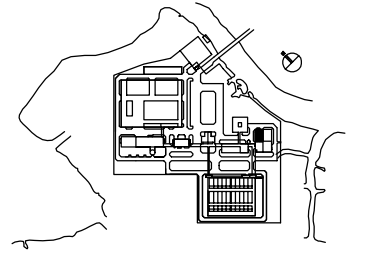


CROSS SECTION A-A
SCALE : 1/100



LONGITUDINAL SECTION C-C
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 | APPRO. |
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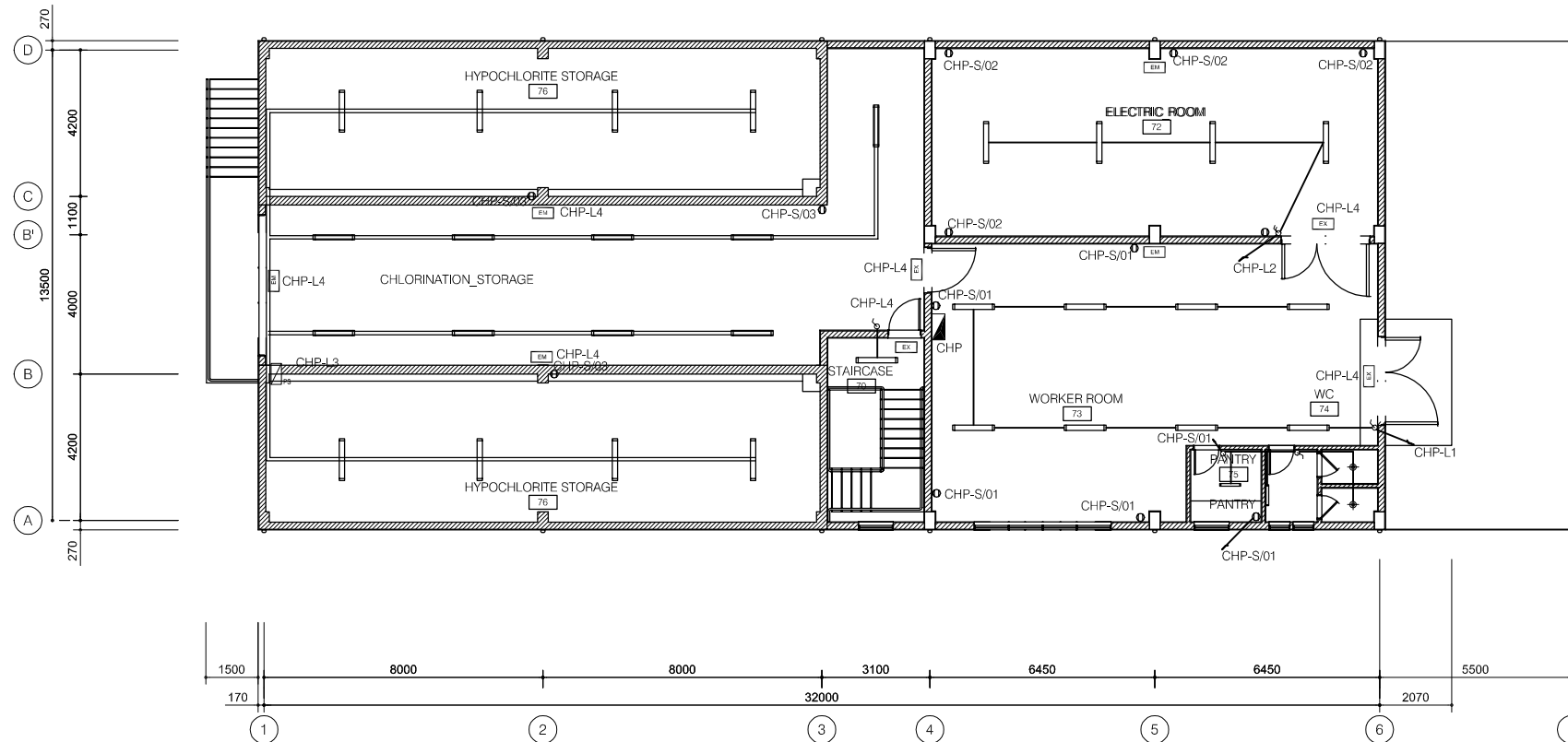
REVISIONS

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
CHLORINE STORAGE BUILDING
MECHANICAL SECTION

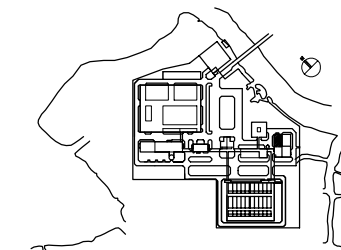
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| SCALE : 1/100 | |
| JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | |
| PACIFIC CONSULTANTS INTERNATIONAL | |
| DESIGNED KIKUTA HIROSHI | CHECKED KONDO MASAMI |
| DATE : JUNE 2001 | DWG. No. PE-WWTP-301-11 |



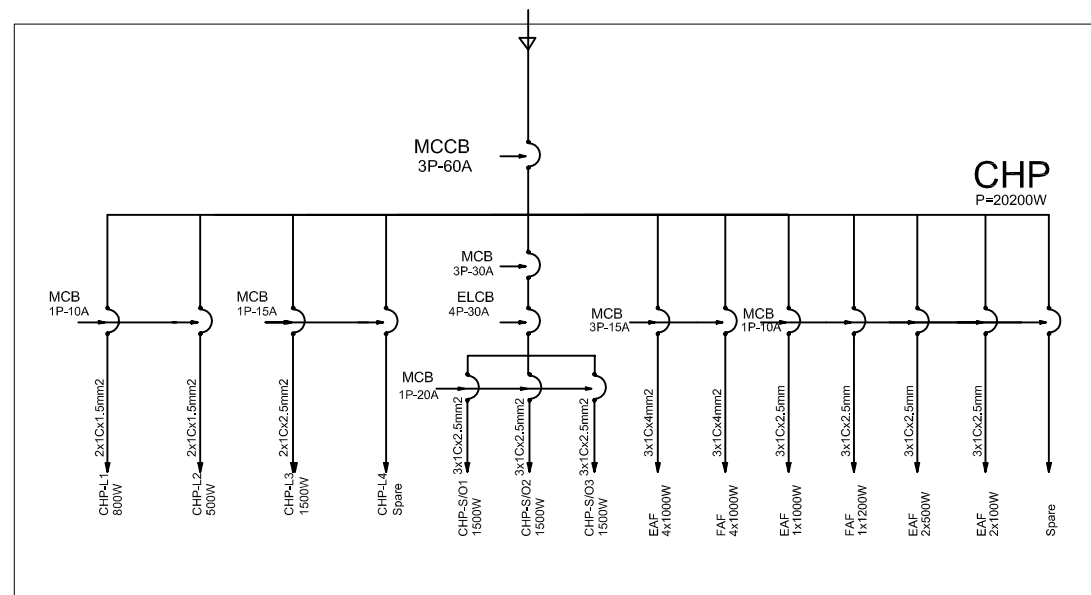
FIRST FLOOR - ELECTRICAL PLAN

1/100

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



FROM CHLORINATION ELECTRIC ROOM LIGHTING



| 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
WASTEWATER TREATMENT PLANT
CHLORINE STORAGE BUILDING
ELECTRICAL PLAN & DIAGRAM

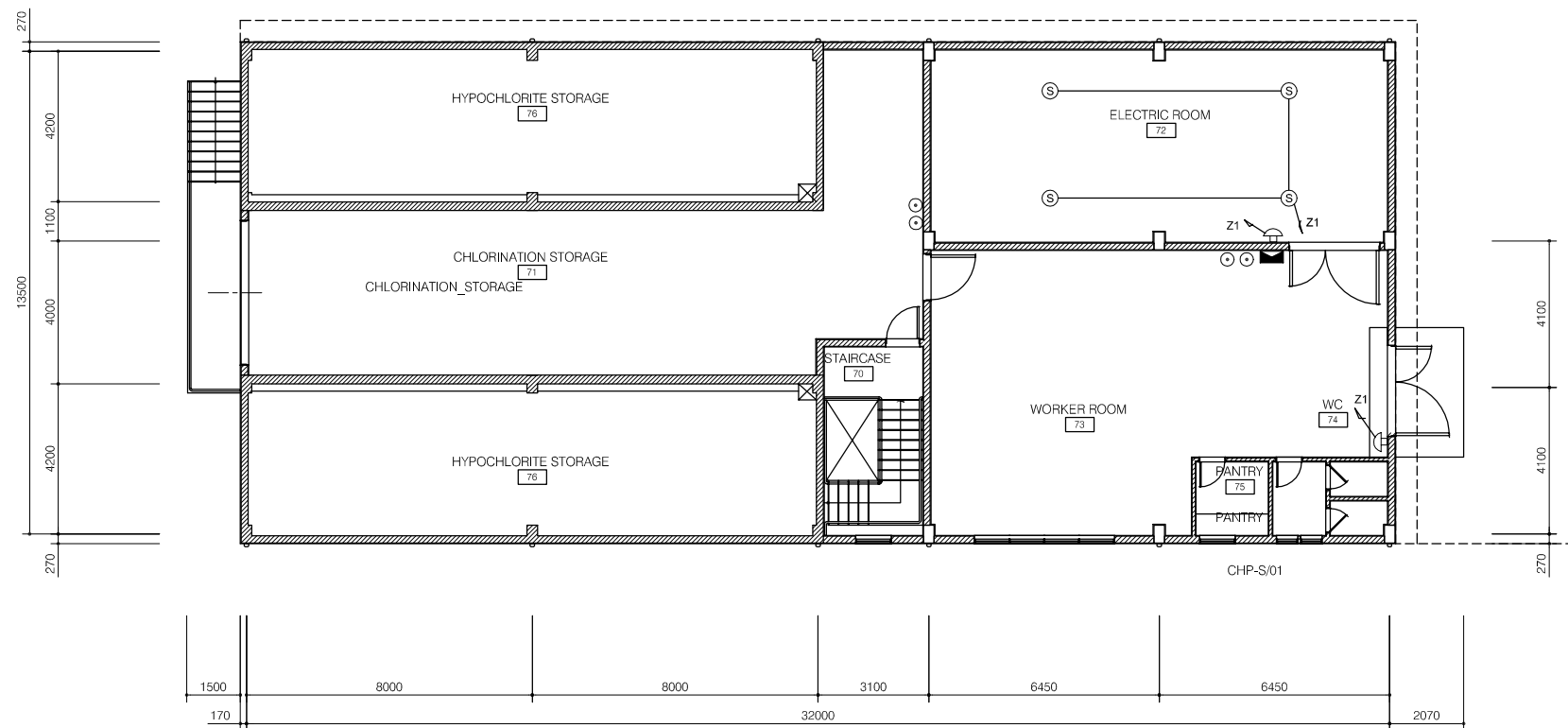
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JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

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| DESIGNED KIKUTA HIROSHI | CHECKED KONDO MASAMI |
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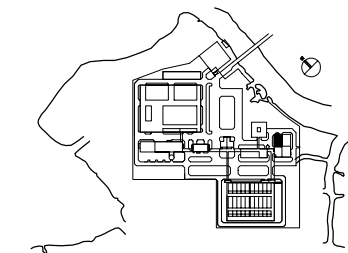
DATE : JUNE 2001 DWG. No. PE-WWTP-301-12



FIRST FLOOR - FIRE ALARM PLAN

SCALE: 1/100

- LEGEND**
- TX - TY BEAM TYPE
 - EMERGENCY BUTTON
 - FIRE ALARM BELL
 - HOSE REEL BOX
 - ABC FIRE EXTINGUISHER 8KG
 - SIREN
 - SMOKE DETECTOR ION-POINT TYPE



| 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
CHLORINE STORAGE BUILDING
FIREALARM PLAN

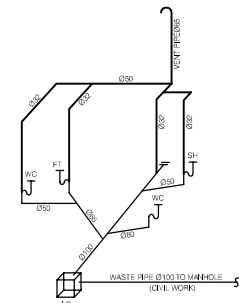
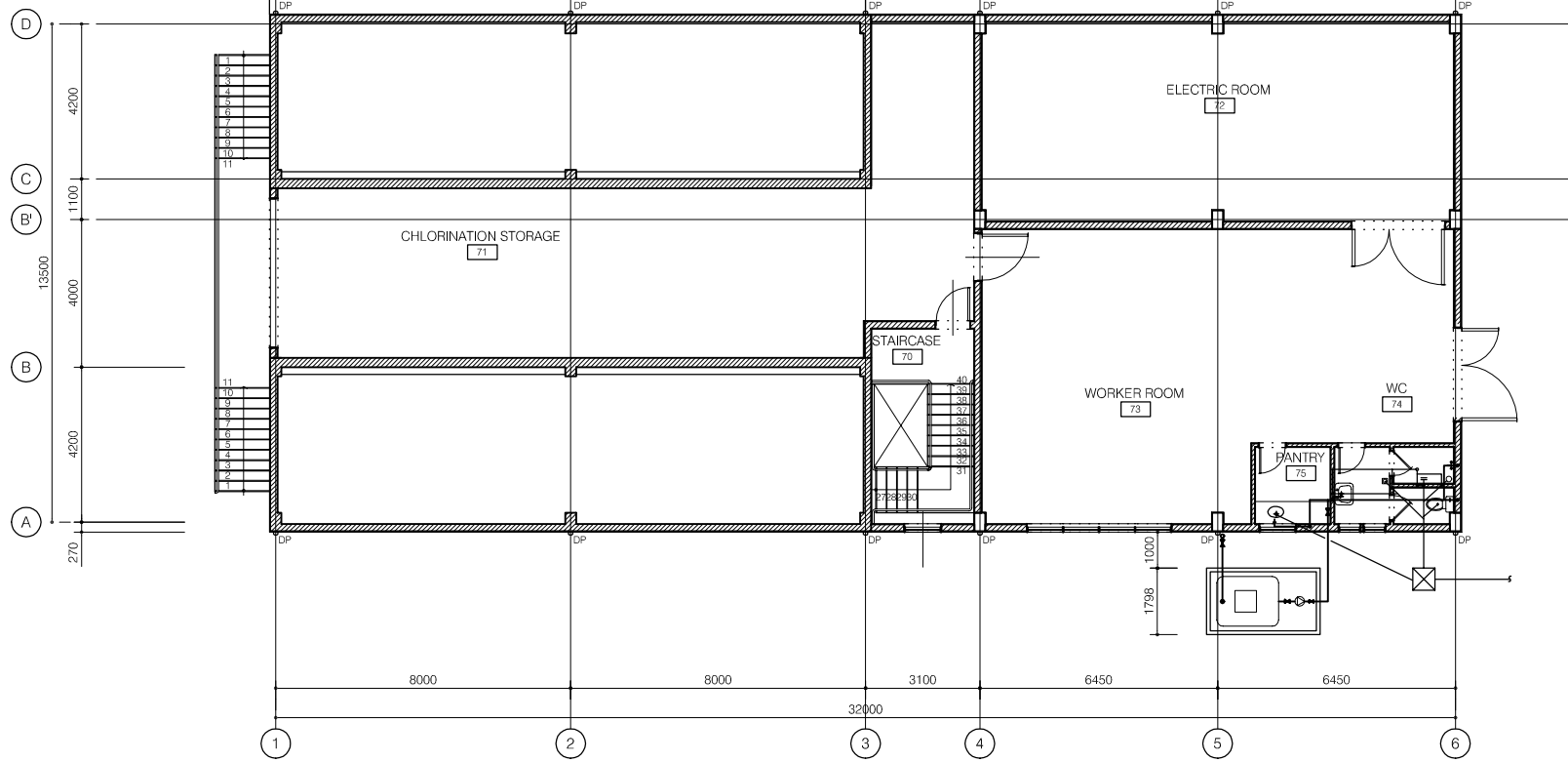
SCALE : 1/100

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

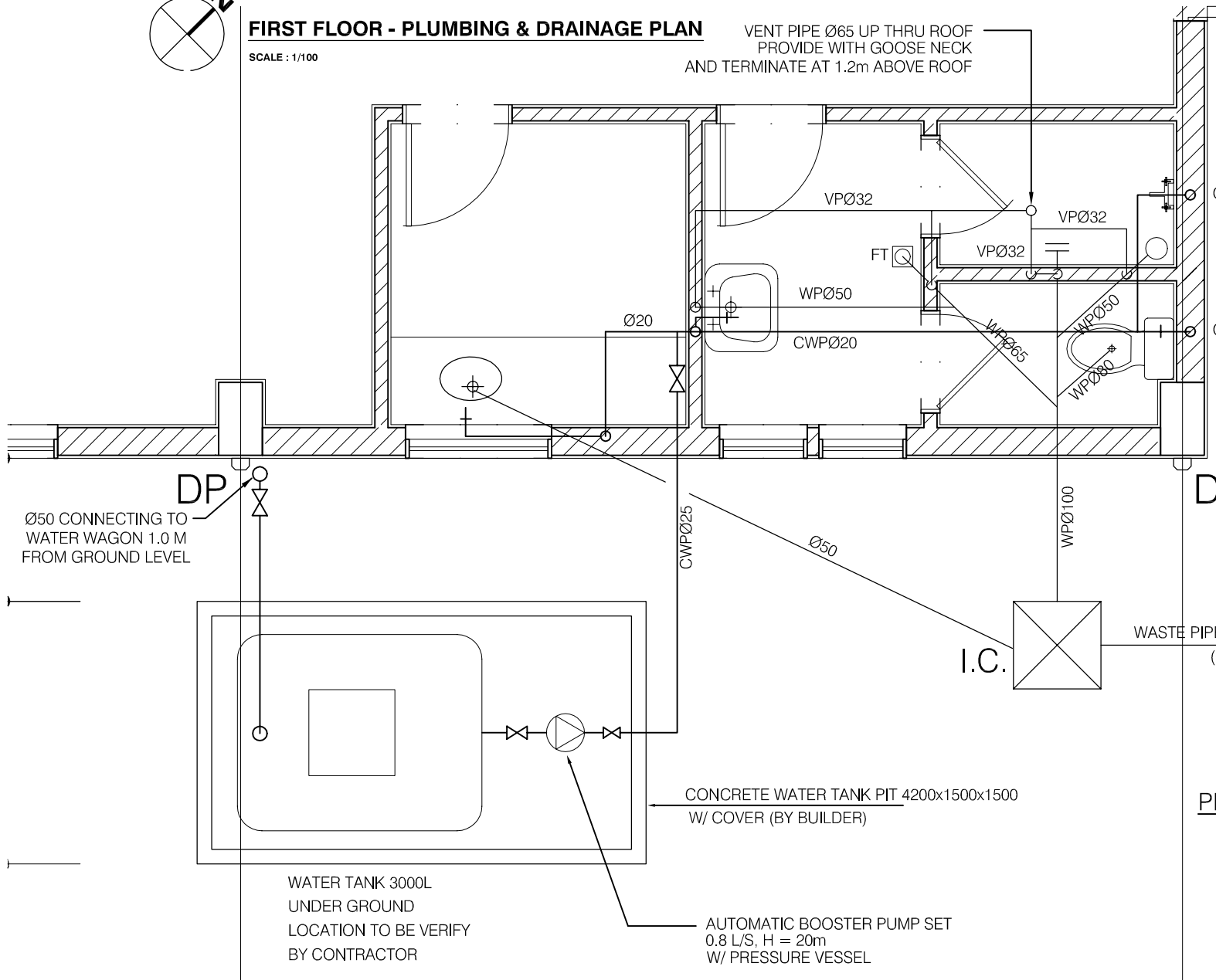
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| DESIGNED KIKUTA HIROSHI | CHECKED KONDO MASAMI |
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DATE : JUNE 2001 DWG. No. PE-WWTP-301-13

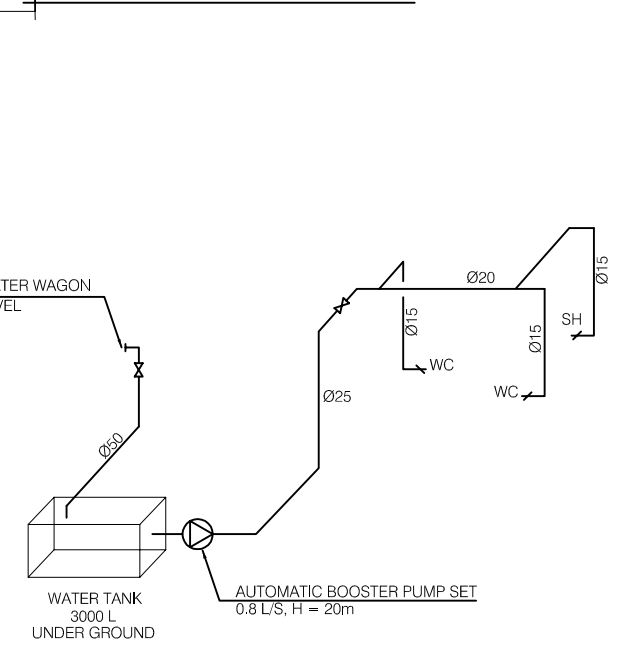


FIRST FLOOR - PLUMBING & DRAINAGE PLAN
SCALE : 1/100

VENT PIPE Ø65 UP THRU ROOF
PROVIDE WITH GOOSE NECK
AND TERMINATE AT 1.2m ABOVE ROOF

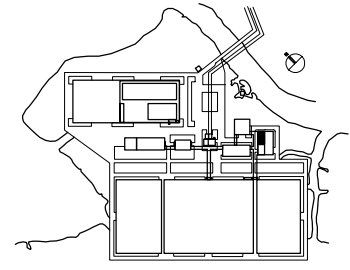


ISOMETRIC OF WASTE WATER SYSTEM



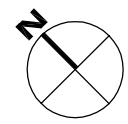
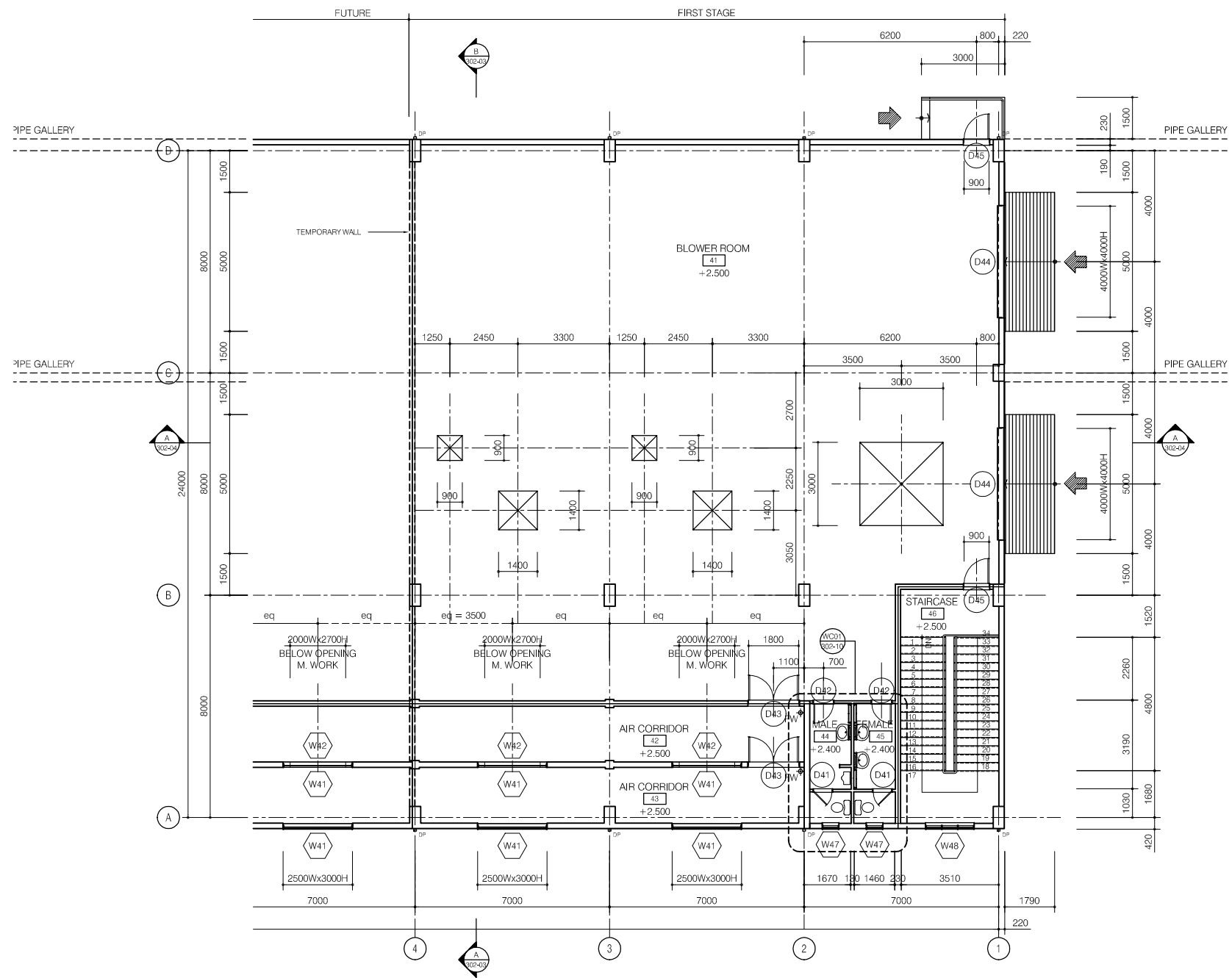
ISOMETRIC OF COLD WATER SUPPLY SYSTEM

PLUMBING AND DRAINAGE PLAN
SCALE : 1/50

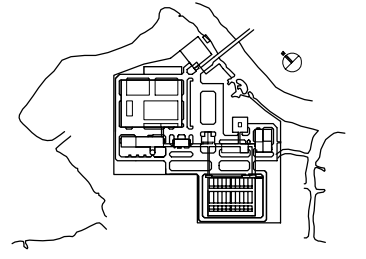


| NO. | DATE | DESCRIPTIONS | BY | APPRO. |
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| REVISIONS | | | | |
| PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT | | | | |
| THE DETAILED DESIGN STUDY ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM | | | | |
| PACKAGE E WASTEWATER TREATMENT PLANT CHLORINE STORAGE BUILDING PLUMBING AND DRAINAGE PLAN | | | | |
| SCALE : 1/50 | | | | |
| JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | | | | |
| PACIFIC CONSULTANTS INTERNATIONAL | | | | |
| DESIGNED KIKUTA HIROSHI | | CHECKED KONDO MASAMI | | |
| DATE : JUNE 2001 | | DWG. No. PE-WWTP-301-14 | | |

BLOWER BUILDING



FIRST FLOOR PLAN (FIRST STAGE)



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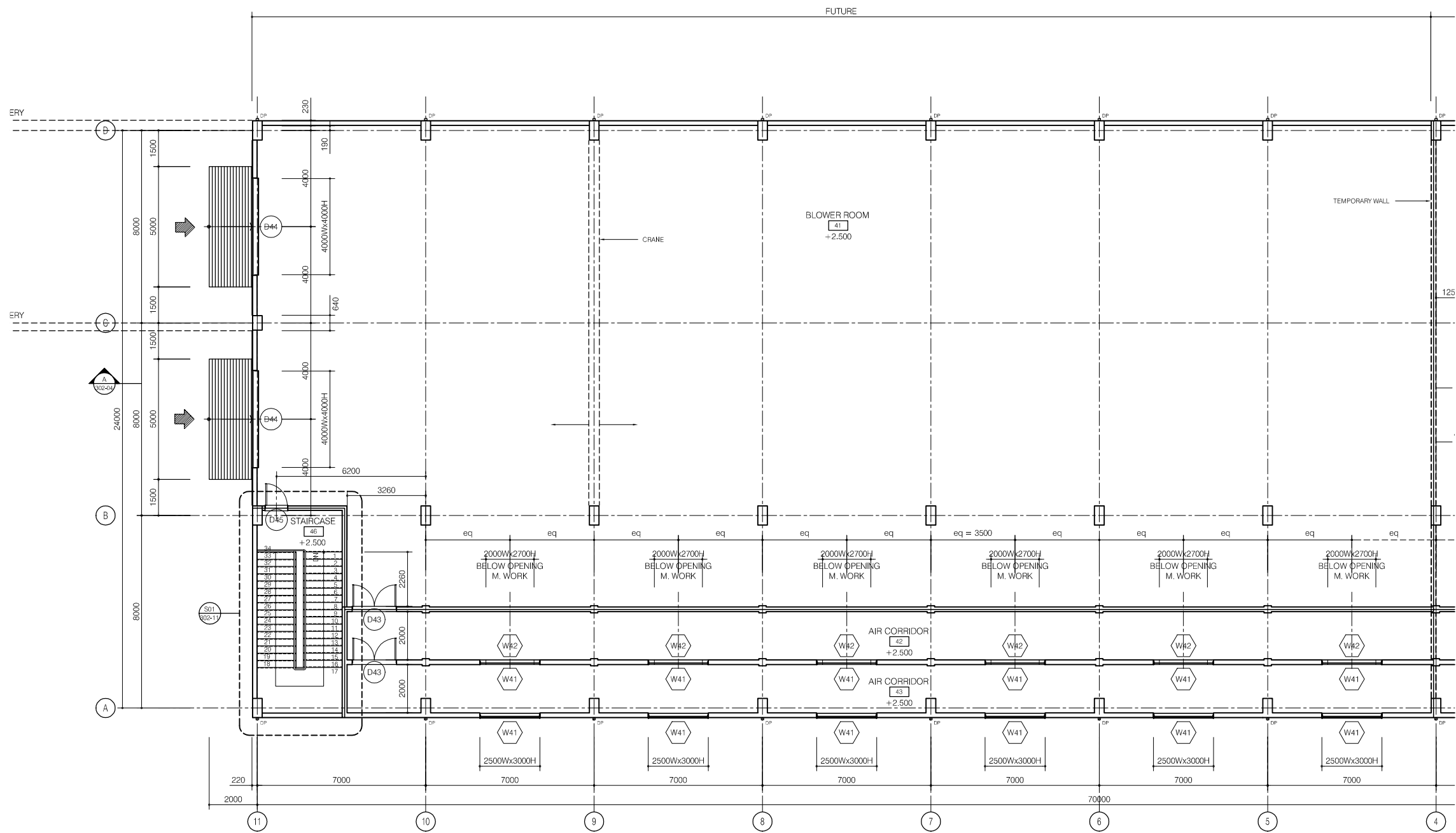
REVISIONS

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
FIRST FLOOR PLAN (FIRST STAGE)

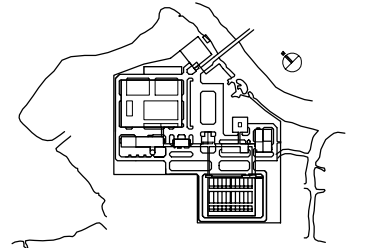
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| SCALE : 1/100 | |
| JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | |
| PACIFIC CONSULTANTS INTERNATIONAL | |
| DESIGNED KIKUTA HIROSHI | CHECKED KONDO MASAMI |
| DATE : JUNE 2001 | DWG. No. PE-WWTP-302-01 |



FIRST FLOOR PLAN (FUTURE)

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



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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
FIRST FLOOR PLAN (FUTURE)

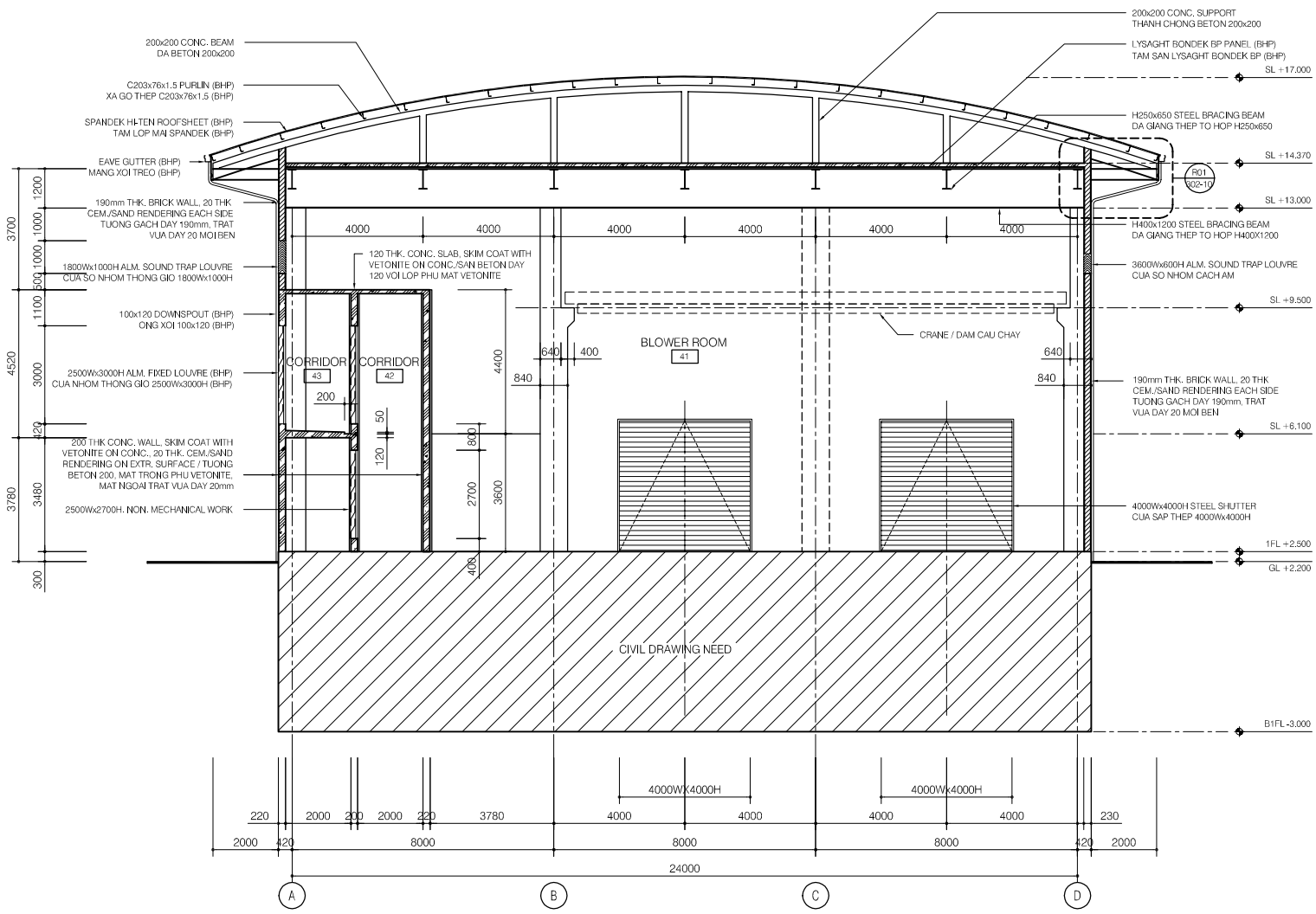
SCALE : 1/100

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

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| DESIGNED KIKUTA HIROSHI | CHECKED KONDO MASAMI |
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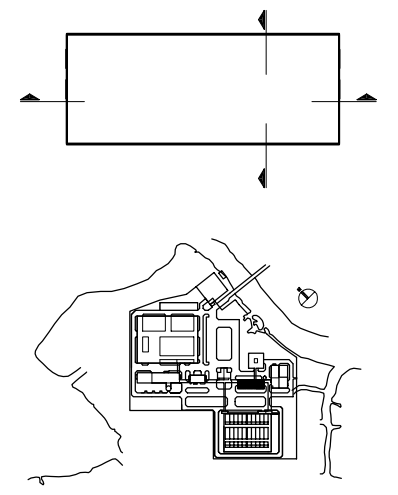
DATE : JUNE 2001 DWG. No. PE-WWTP-302-02



CROSS SECTION B-B

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



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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

**BLOWER BUILDING
CROSS SECTION B-B**

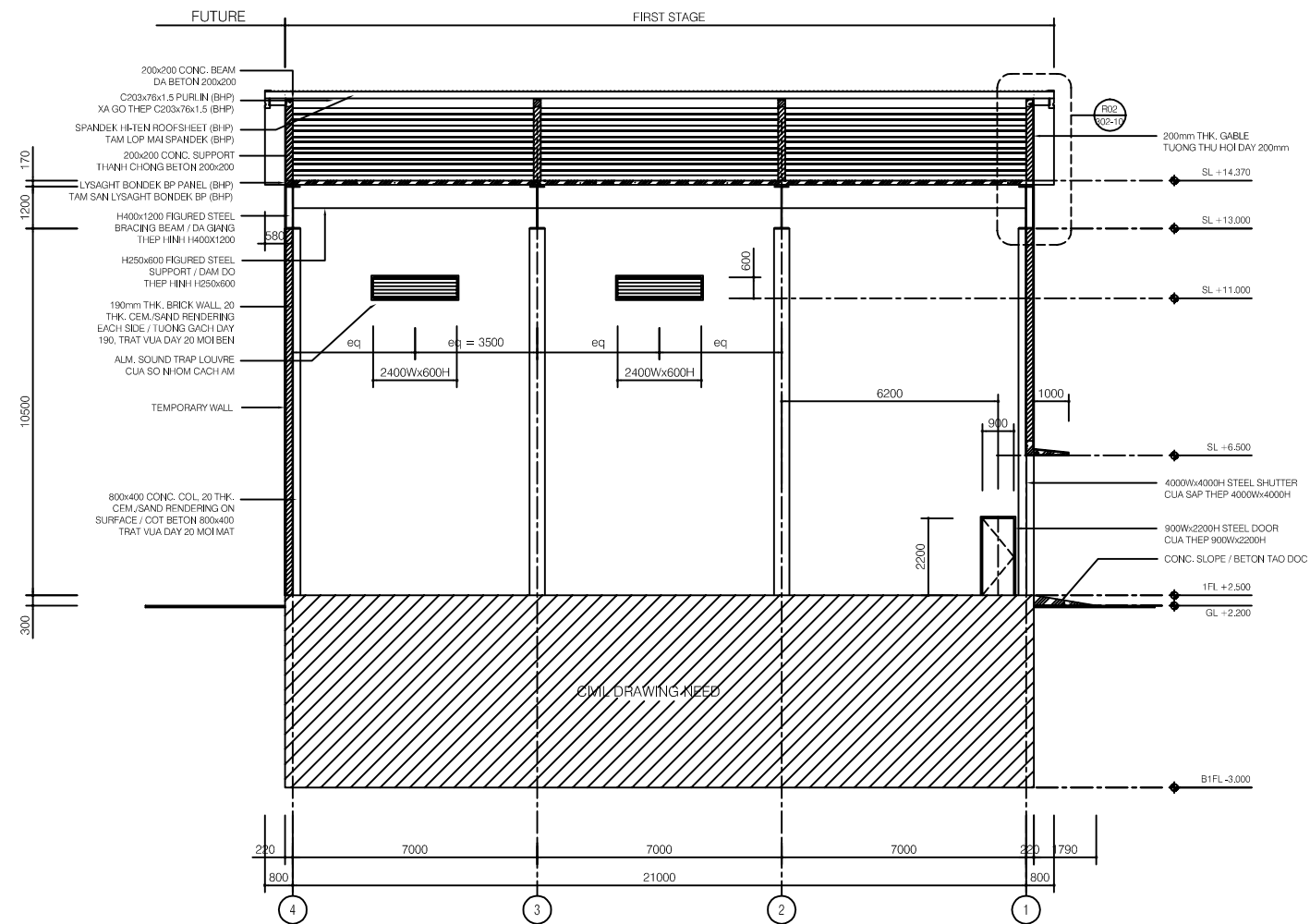
SCALE : 1/100

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

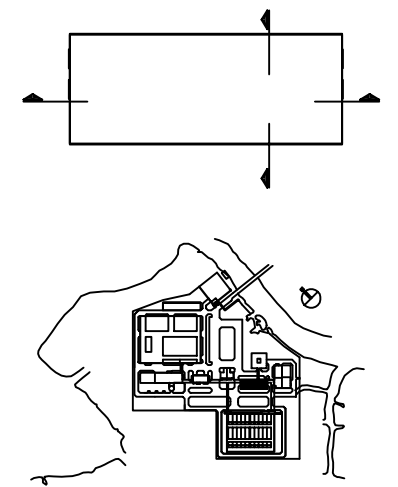
PACIFIC CONSULTANTS INTERNATIONAL

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| DESIGNED KIKUTA HIROSHI | CHECKED KONDO MASAMI |
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| DATE : JUNE 2001 | DWG. No. PE-WWTP-302-03 |
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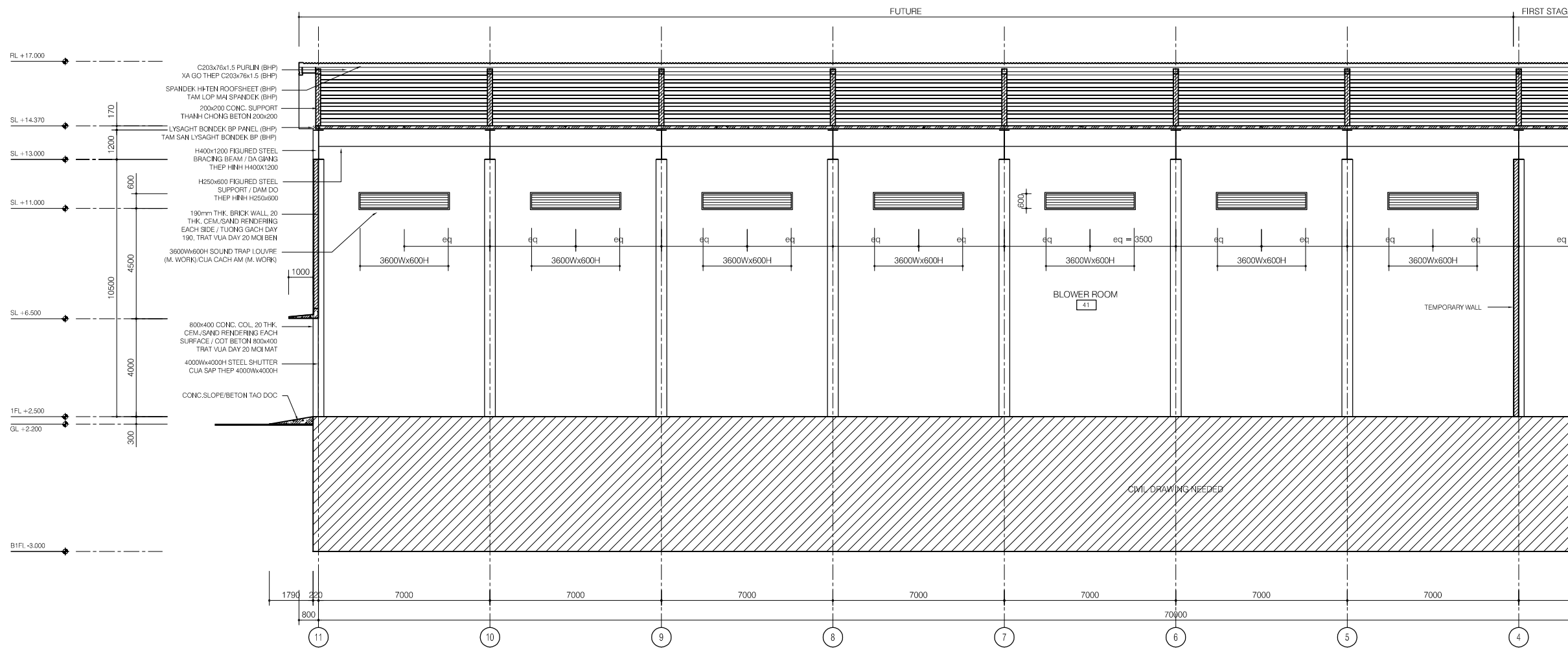


LONGITUDINAL SECTION A-A (FIRST STAGE)

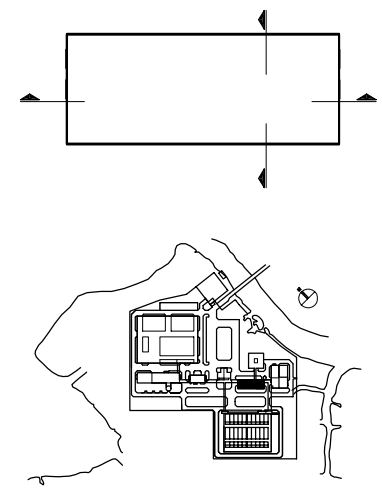


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| REVISIONS | | | | |
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| PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT | | | | |
| THE DETAILED DESIGN STUDY ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM | | | | |
| PACKAGE E WASTEWATER TREATMENT PLANT BLOWER BUILDING SECTION A-A (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-302-04 | | |



LONGITUDINAL SECTION A-A (FUTURE)



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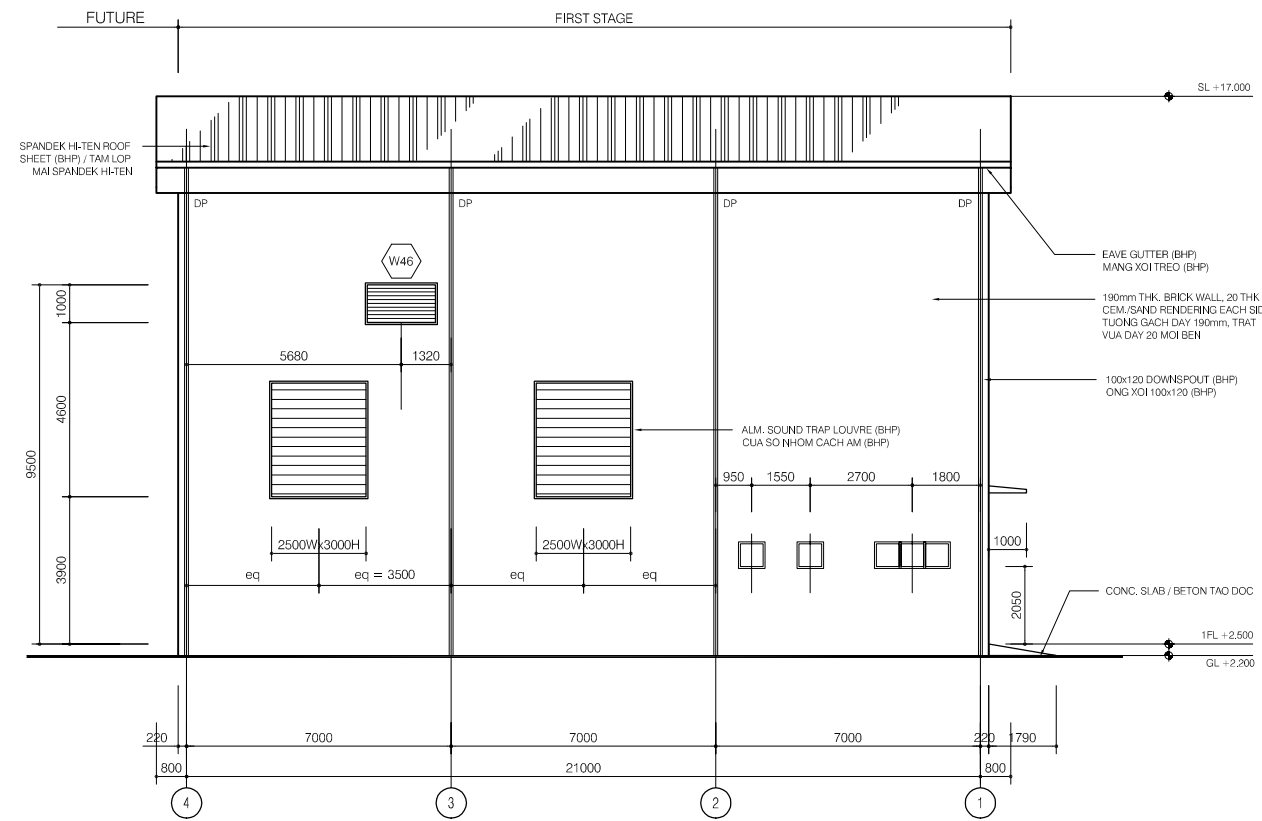
REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

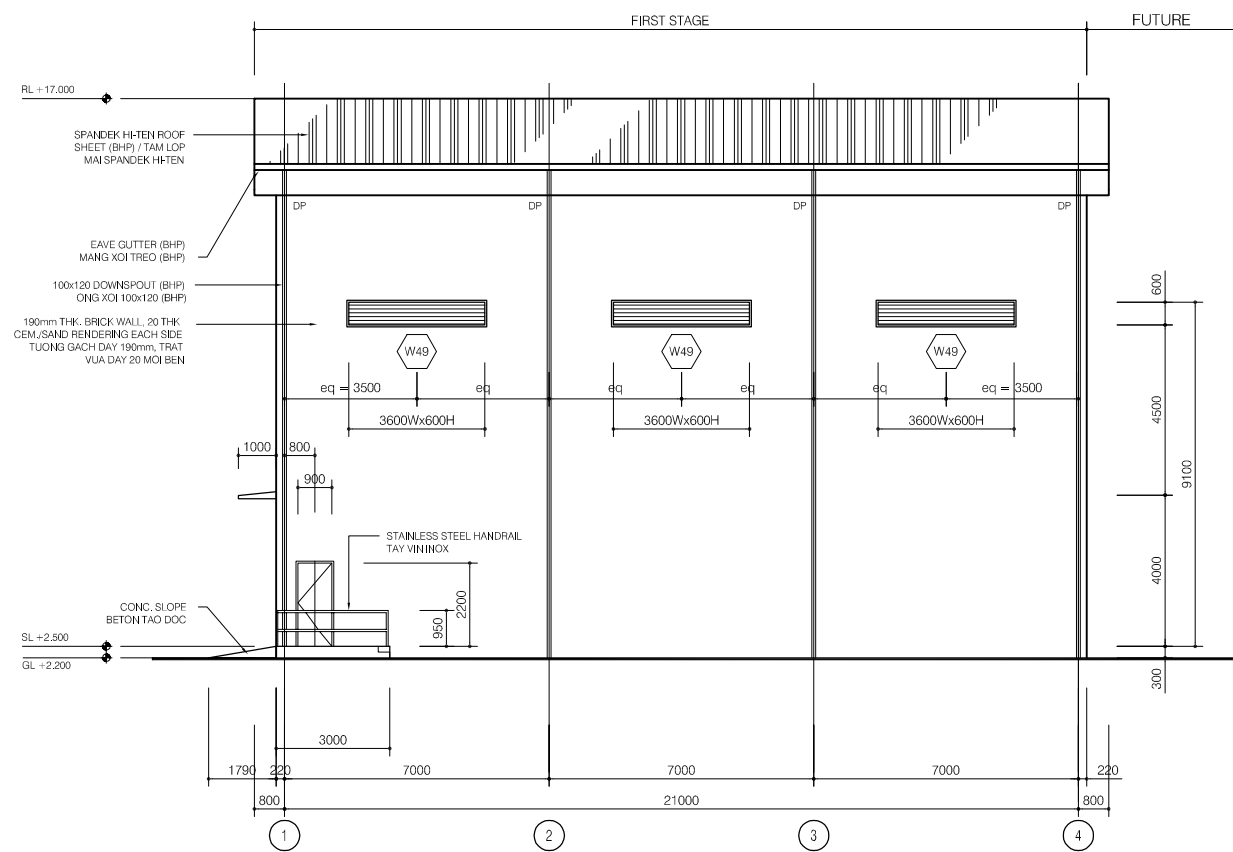
THE DETAILED DESIGN STUDY ON HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT PROJECT
IN THE SOCIALIST REPUBLIC OF VIET NAM

PACKAGE E
WASTE WATER TREATMENT PLANT
BLOWER BUILDING
LONGITUDINAL SECTION A-A (FUTURE)

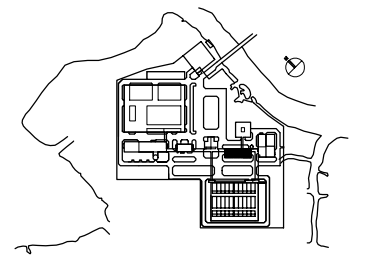
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| SCALE : 1/100 | |
| JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | |
| PACIFIC CONSULTANTS INTERNATIONAL | |
| DESIGNED KIKUTA HIROSHI | CHECKED KONDO MASAMI |
| DATE : JUNE 2001 | DWG. No. PE-WWTP-302-05 |



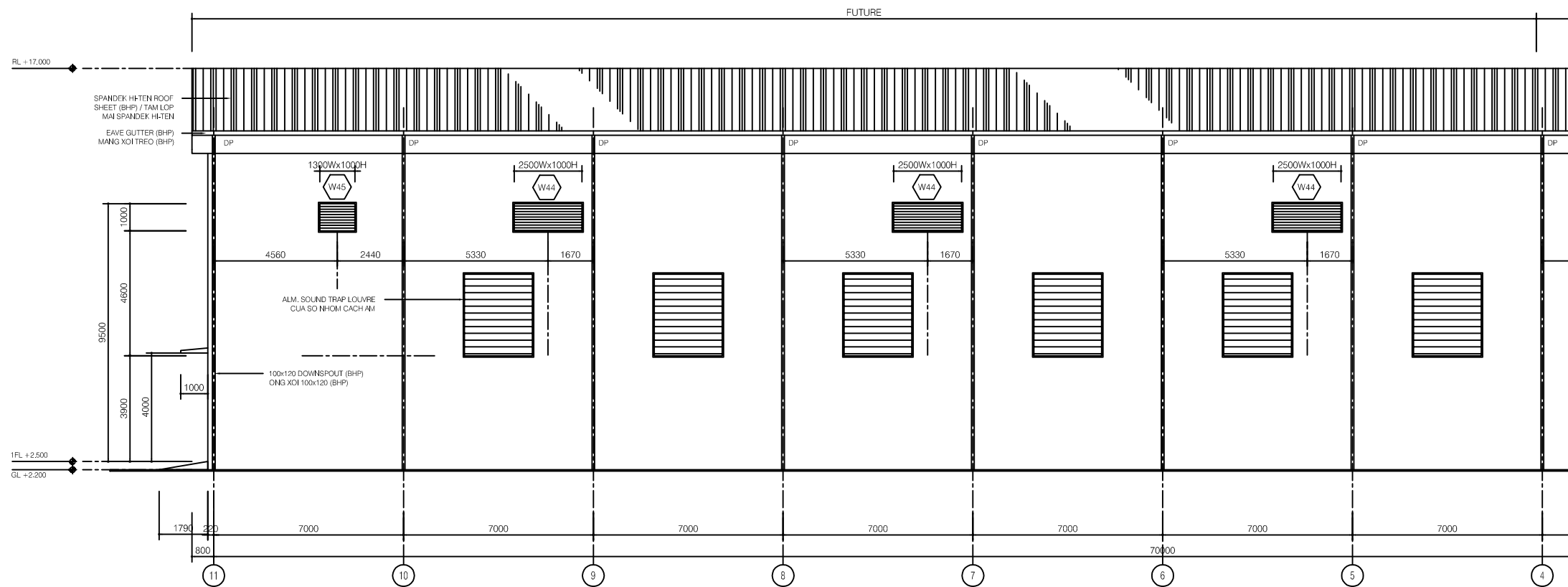
ELEVATION LINE A



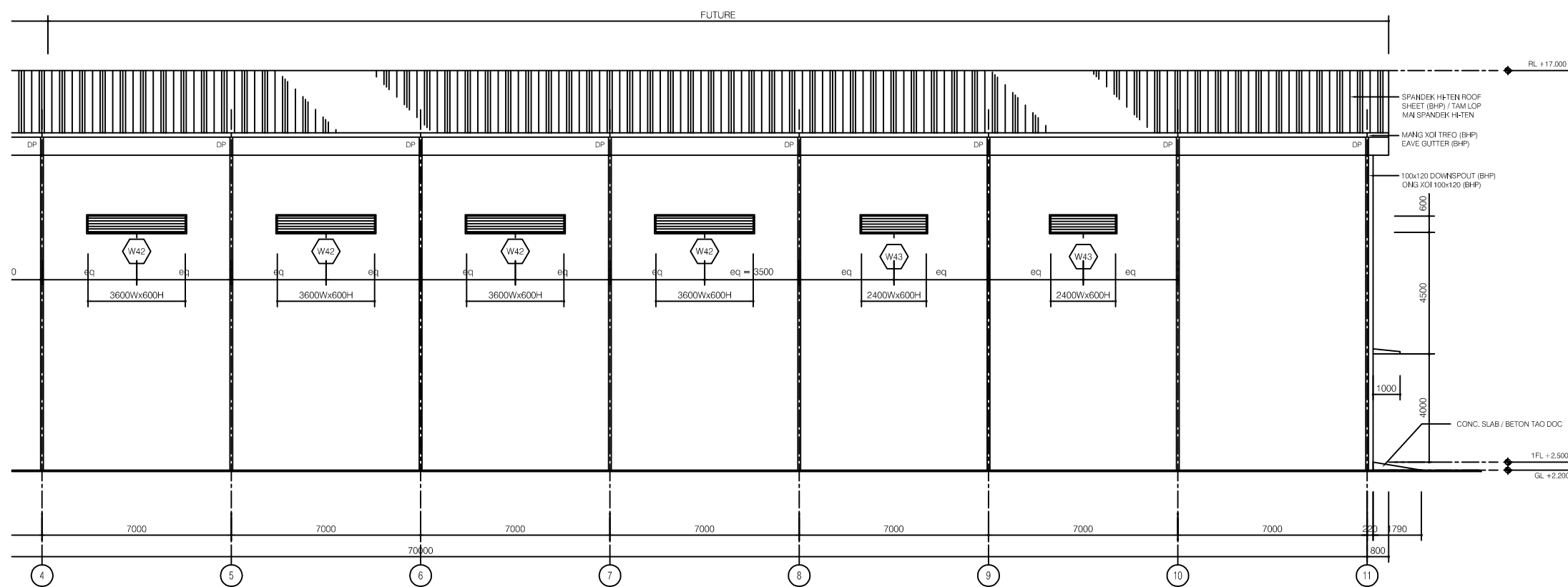
ELEVATION LINE D



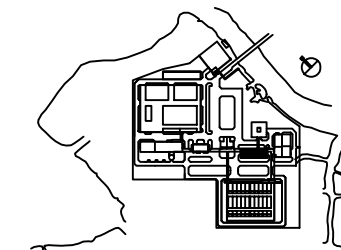
| NO. | DATE | DESCRIPTIONS | BY | APPRO. |
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| REVISIONS | | | | |
| PROJECT MANAGEMENT UNIT FOR HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT | | | | |
| THE DETAILED DESIGN STUDY ON HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT IN THE SOCIALIST REPUBLIC OF VIET NAM | | | | |
| PACKAGE E WASTE WATER TREATMENT PLANT BLOWER BUILDING ELEVATION LINE A, D (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-302-06 | |



ELEVATION LINE A



ELEVATION LINE D



| 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
WASTE WATER TREATMENT PLANT
BLOWER BUILDING
ELEVATION LINE A & D (FUTURE)

SCALE : 1/100

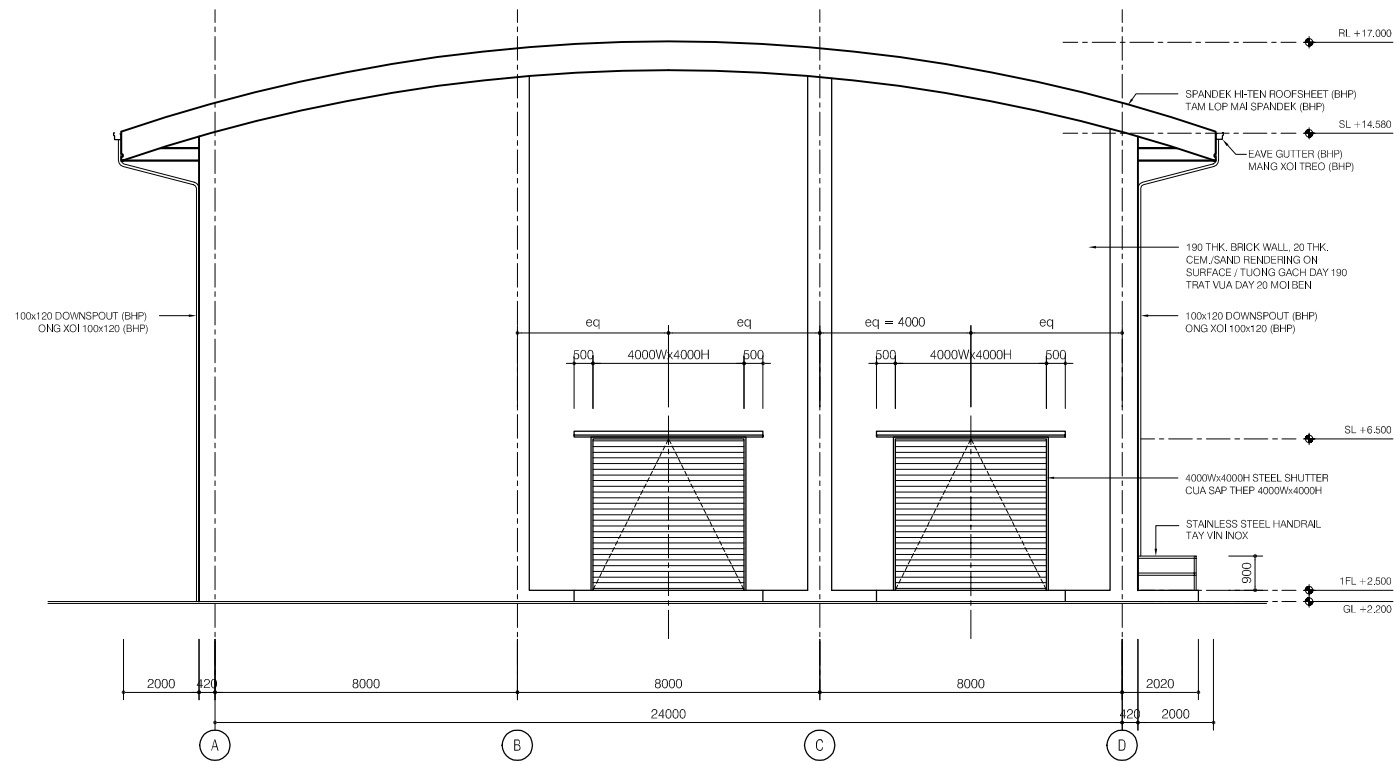
JICA JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

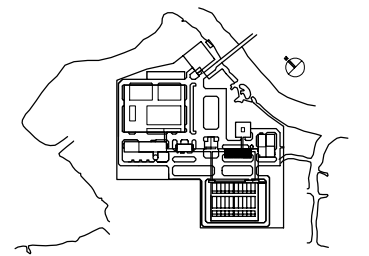
DESIGNED
KIKUTA HIROSHI

CHECKED
KONDO MASAMI

DATE : JUNE 2001 DWG. No. PE-WWTP-302-07



ELEVATION LINE 1



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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

**BLOWER BUILDING
ELEVATION LINE 1**

SCALE : 1/100

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

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| DESIGNED KIKUTA HIROSHI | CHECKED KONDO MASAMI |
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DATE : JUNE 2001 DWG. No. PE-WWTP-302-08