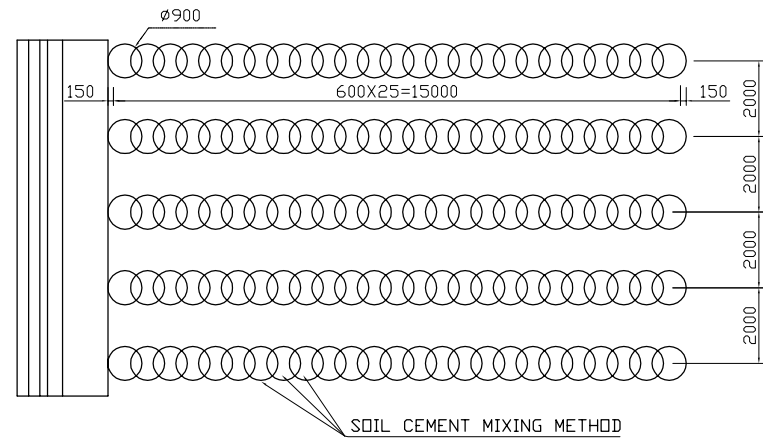
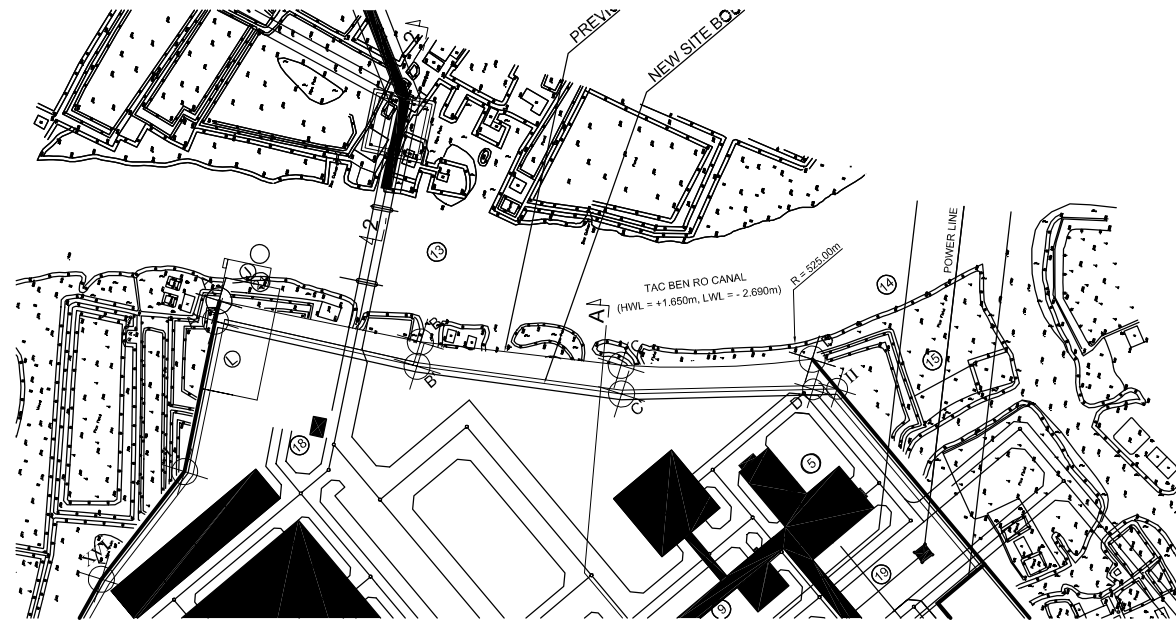
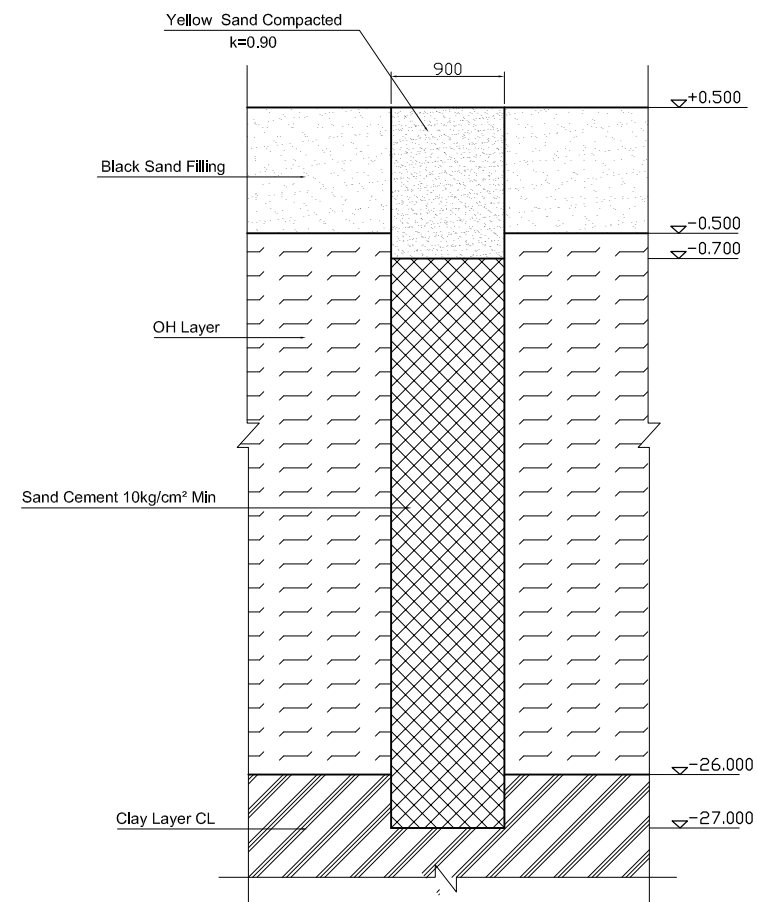


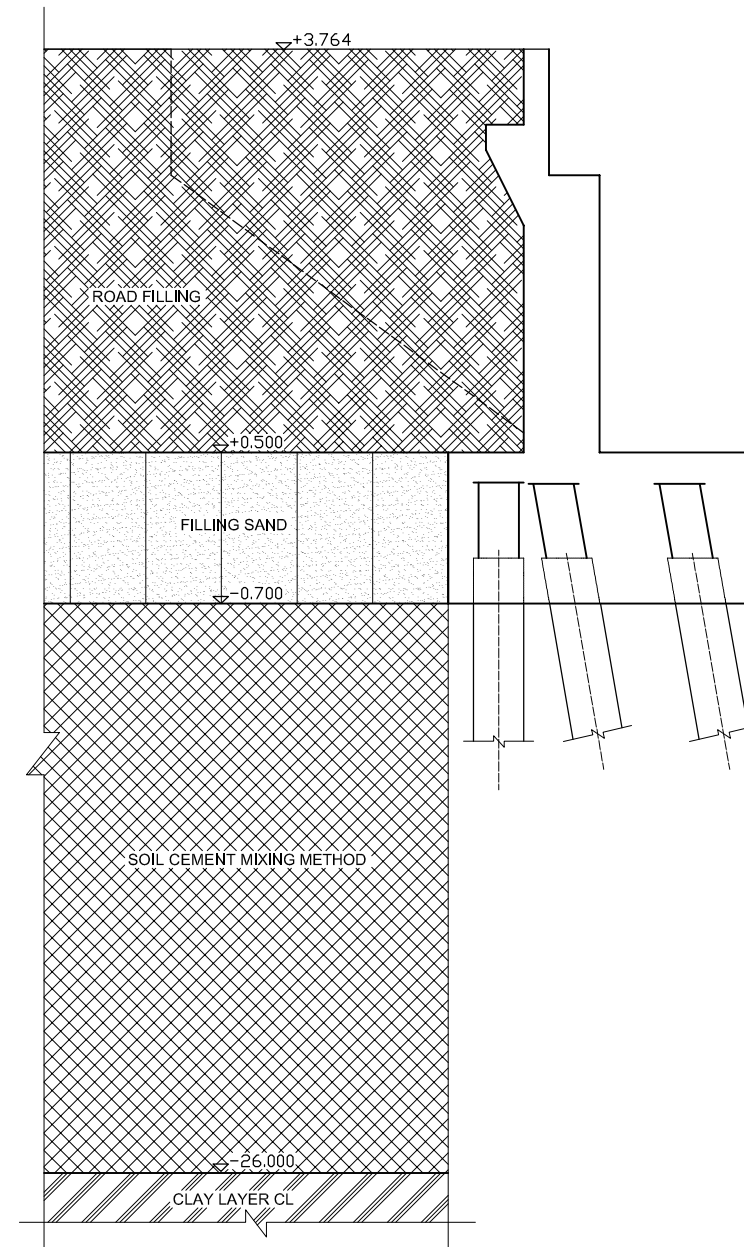
SECTION A-A Scale: 1/ 200
(TEMPORARY)



SCM COLUMNS LAYOUT
Scale: 1/ 100



SECTION 1-1 Scale: 1/ 30



SECTION A-A Scale: 1/ 30
(PERMANENT)

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
HO CHI MINH CITY
WATER ENVIRONMENT IMPROVEMENT

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

PACKAGE E
WASTEWATER TREATMENT PLANT
BRIDGE PREPARATION
SOIL IMPROVEMENT

SCALE : AS SHOWN

JICA JAPAN INTERNATIONAL COOPERATION
AGENCY (JICA)

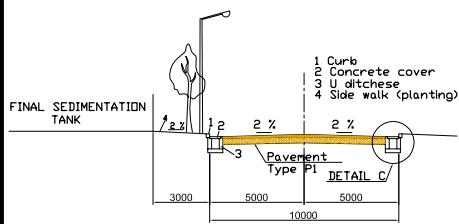
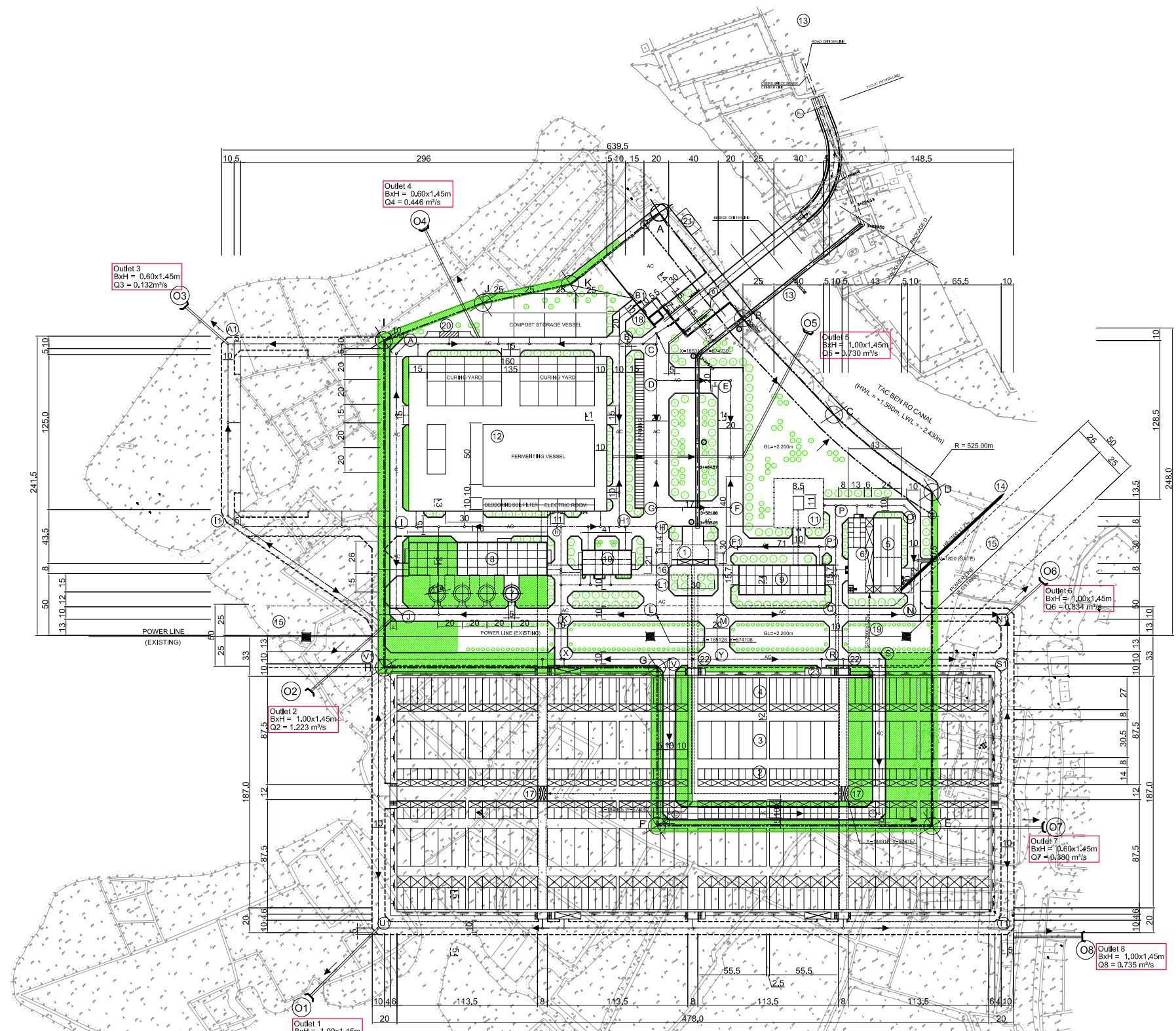
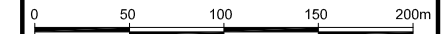
PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED
KIMURA TORU

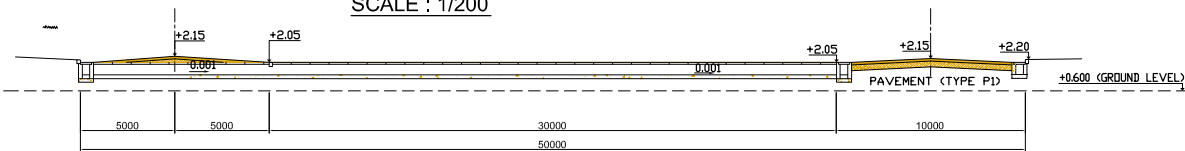
CHECKED
KONDO MASAMI

DATE : JUNE 2001 DWG. No. PE- WWTP - 220-18

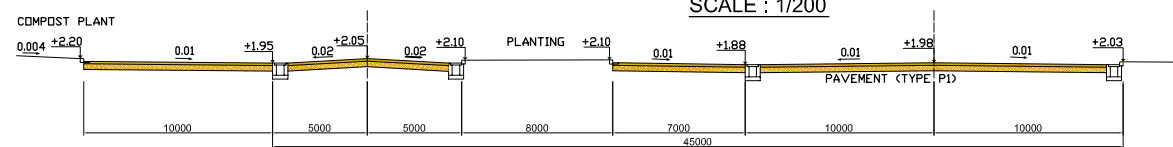
LAYOUT OF ROAD SYSTEM IN WASTEWATER TREATMENT PLANT (PHASE 1 + 2). Scale : 1/ 2000



CROSS SECTION 2 - 2
SCALE : 1/200



CROSS SECTION 1 - 1
SCALE : 1/200

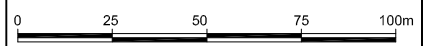
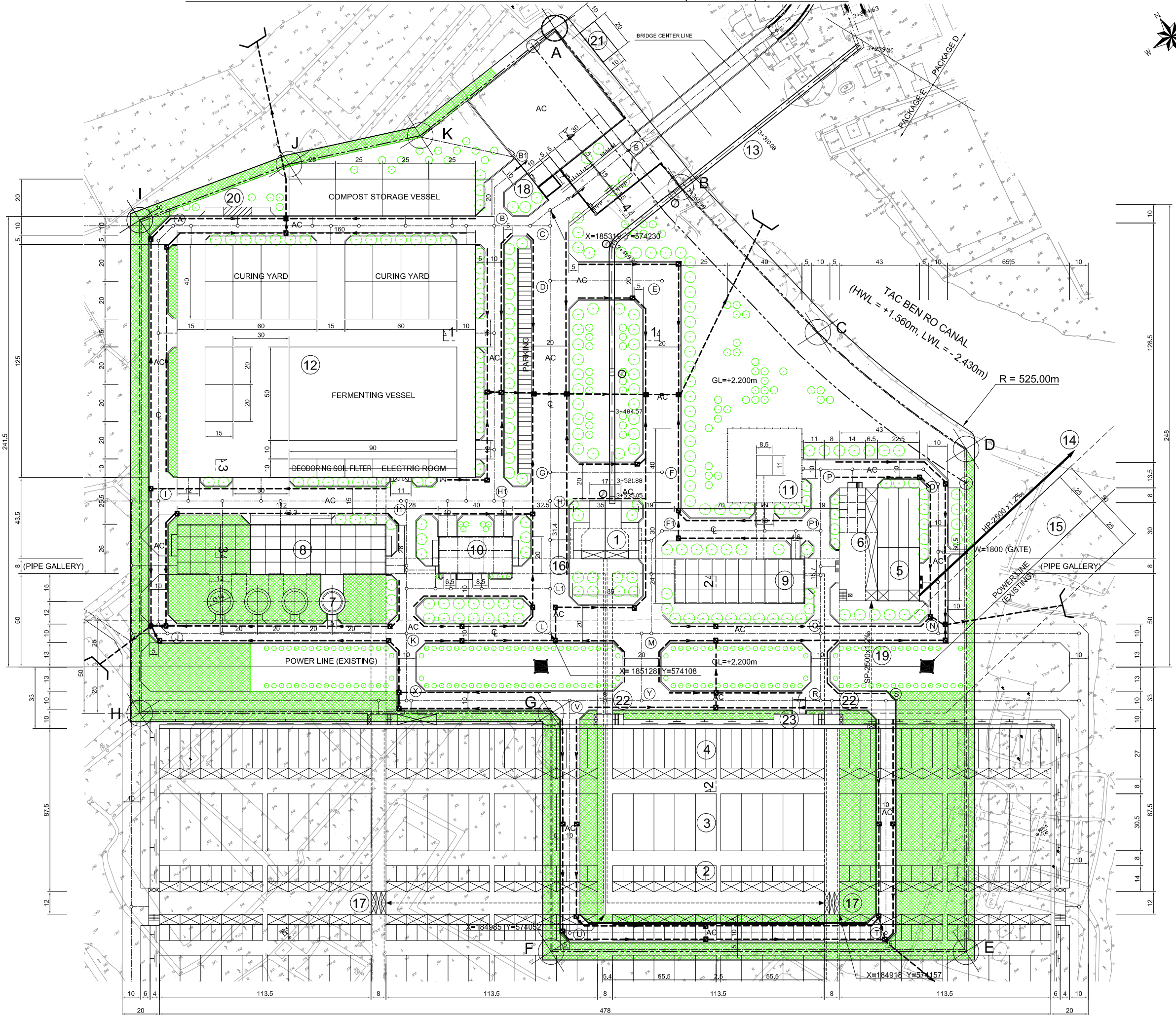


LEGEND

- ① LIFT PUMPING STATION
 - ② PRIMARY SEDIMENTATION TANK (5.0m² x13.0m² x3.0m² x160 waterway 80 tank)
 - ③ AERATION TANK (10.5m² x28.0m² x5.5m² x80 tank)
 - ④ FINAL SEDIMENTATION TANK (5.0m² x26.0m² x3.5m² x160 waterway 80 tank)
 - ⑤ DISINFECTION TANK (5.0m² x54.0m² x5.0m² x3 bend 4 waterway 1 tank)
 - ⑥ CHLORINATION STORAGE BUILDING
 - ⑦ SAND FILTRATION EFFLUENT TANK, SECONDARY TREATMENT TANK
 - ⑧ GRAVITY THICKENER (14.0m² x3.5m² x4 tank)
 - ⑨ DEWATERING & CENTRIFUGAL THICKENER BUILDING
 - ⑩ BLOWER BUILDING
 - ⑪ MAIN BUILDING (Control Room, Electrical Room, etc.)
 - ⑫ MAIN SUBSTATION
 - ⑬ COMPOST PLANT FACILITY
 - ⑭ INLET PIPE (ø1,300 x1,200 x0.5% x2Box, ø2,000 x1,700 x 0.4% x2Box)
 - ⑮ EFFLUENT PIPE (ø2,500mm x1.2%, HP)
 - ⑯ POWER LINE (EXISTING)
 - ⑰ PIPE GALLERY
 - ⑱ DISTRIBUTION TANK
 - ⑲ GUARD ROOM
 - ⑳ CONNECTION PIPE (ø2,500mm x1.2%, SP)
 - ㉑ TRUCK SCALE
 - ㉒ JETTY
 - ㉓ STAIRCASE
 - ㉔ WWTP ELECTRICAL ROOM
- AC : ASPHALT CONCRETE
 --- CURB CONCRETE TYPE E, CAST INSITU (PHASE 1)
 - - - CURB CONCRETE TYPE E, CAST INSITU (PHASE 2)
 - - - FLOW DIRECTION OF SIDE DITCHES

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 ROAD PLAN, SECTION AND DETAIL (PHASE I & II)				
SCALE : 1/2000, 1/200				
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)				
PACIFIC CONSULTANTS INTERNATIONAL				
DESIGNED KIMURA TORU		CHECKED KONDO MASAMI		
DATE : JUNE 2001		DWG. No. PE - WWTP - 221 - 01		

LAYOUT OF ROAD SYSTEM IN WASTEWATER TREATMENT PLANT (PHASE I) S: 1/ 1000



- LEGEND**
- ① LIFT PUMPING STATION
 - ② PRIMARY SEDIMENTATION TANK (5.0m² x13.0m² x3.0m² x160 waterway 80 tank)
 - ③ AERATION TANK (10.5m² x28.0m² x5.5m² x80 tank)
 - ④ FINAL SEDIMENTATION TANK (5.0m² x26.0m² x3.5m² x160 waterway 80 tank)
 - ⑤ DISINFECTION TANK (5.0m² x54.0m² x5.0m² x3 bend 4 waterway 1 tank)
 - ⑥ CHLORINATION STORAGE BUILDING (SAND FILTRATION EFFLUENT TANK, SECONDARY TREATMENT TANK)
 - ⑦ GRAVITY THICKENER (14.0m² x3.5m² x4 tank)
 - ⑧ DEWATERING & CENTRIFUGAL THICKENER BUILDING
 - ⑨ BLOWER BUILDING
 - ⑩ MAIN BUILDING (Control Room, Electrical Room, etc.)
 - ⑪ MAIN SUBSTATION
 - ⑫ COMPOST PLANT FACILITY
 - ⑬ INLET PIPE (Ø1,300 x1,200 x0.5% x280m, g=2,000 x1,700 x0.4% x280m)
 - ⑭ EFFLUENT PIPE (Ø2,500mm x1.2%, HP)
 - ⑮ POWER LINE (EXISTING)
 - ⑯ PIPE GALLERY
 - ⑰ DISTRIBUTION TANK
 - ⑱ GUARD ROOM
 - ⑲ CONNECTION PIPE (Ø2,500mm x1.2%, SP)
 - ⑳ TRUCK SCALE
 - ㉑ JETTY
 - ㉒ STAIRCASE
 - ㉓ WWTP ELECTRICAL ROOM
 - AC : ASPHALT CONCRETE
 - CURB CONCRETE TYPE E, CAST INSITU
 - - - SIDE DITCHES AND CATCH BASIN

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
ROAD PLAN, SECTION AND DETAIL
(PHASE I)

SCALE : 1 / 1000

JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

DESIGNED
KIMURA TORU

CHECKED
KONDO MASAMI

DATE : JUNE 2001 DWG. No. PE - WWTP - 221 - 02