JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PEOPLE'S COMMITTEE OF HO CHI MINH CITY (PCHCMC)
MINISTRY OF PLANNING AND INVESTMENT (MPI)
THE SOCIALIST REPUBLIC OF VIET NAM

## THE DETAILED DESIGN STUDY

ON

## HO CHI MINH CITY WATER ENVIRONMENT IMPROVEMENT PROJECT

IN

# THE SOCIALIST REPUBLIC OF VIET NAM

# FINAL REPORT DRAFT BIDDING DOCUMENTS

PACKAGE E: WASTEWATER TREATMENT PLANT CONSTRUCTION

VOLUME 3 :
DRAFT TENDER DRAWINGS (1/3)
[CIVIL]

**JUNE 2001** 

PACIFIC CONSULTANTS INTERNATIONAL

# LIST OF DRAWING ON PAKAGE E

DRAWING No	TITLE	SCALE
	CENTRAL	
PE-WWTP-201-01	GENERAL GENERAL LOCATION PLAN FOR THBNDT WWTP SITE	1/25000
PE-WWTP-201-01	GENERAL LAYOUT OF THBNDT WASTEWATER TREATMENT PLANT (FINAL PHASE)	1/2000
PE-WWTP-201-02	GENERAL LAYOUT OF THBNDT WASTEWATER TREATMENT PLANT (PHASE I)	1/1000
PE-WWTP-201-03	HYDRAULIC PROFILE OF THBNDT WASTEWATER TREATMENT PLANT	N.T.S
PE-WWTP-201-04	LAYOUT OF SITE PREPARATION (PHASE I)	1/2000
PE-WWTP-201-06	LAYOUT PLAN OF LANDSCAPE (PHASE I)	1/1000
PE-WWTP-201-07	GENERAL INFORMATION (2/2)	N.T.S
PE-WWTP-201-08	GENERAL INFORMATION (2/2) GENERAL INFORMATION (1/2)	N.T.S
PE-WWTP-202-01	LIFT PUMPING STATION PLAN (No.1) - WATERWAY FLOOR PLAN	1/100
PE-WWTP-202-01	LIFT PUMPING STATION PLAN (No. 2) - BIF PLAN	1/100
	LIFT PUMPING STATION PLAN (No. 2) - BTP PLAN  LIFT PUMPING STATION PLAN (No. 3) - 1F PLAN	1/100
PE-WWTP-202-03	LIFT PUMPING STATION FLAN (No. 1)	1/100
PE-WWTP-202-04	LIFT PUMPING STATION SECTION (No. 2)	1/100
PE-WWTP-202-05	LIFT PUMPING STATION SECTION (No. 3)	1/100
PE-WWTP-202-06	LIFT PUMPING STATION SECTION (No. 3)	17100
PE-WWTP-202-07	WASTEWATER TREATMENT PLANT PLAN (No. 1 - 1)	1/200
PE-WWTP-203-01	WASTEWATER TREATMENT PLANT PLAN (No. 1 - 1) WASTEWATER TREATMENT PLANT PLAN (No. 1 - 2)	1/200
PE-WWTP-203-02	· · · · · · · · · · · · · · · · · · ·	1/200
PE-WWTP-203-03	WASTEWATER TREATMENT PLANT PLAN (No. 2 - 1) WASTEWATER TREATMENT PLANT PLAN (No. 2 - 2)	1/200
PE-WWTP-203-04	1	1/200
PE-WWTP-203-05	WASTEWATER TREATMENT PLANT PLAN (No. 3 - 1)	1/200
PE-WWTP-203-06	WASTEWATER TREATMENT PLANT PLAN (No. 3 - 2)	1/200
PE-WWTP-204-01	WASTEWATER TREATMENT PLANT SECTION 1 - 1 & 2 - 2	1/200
PE-WWTP-204-02	WASTEWATER TREATMENT PLANT SECTION 3 - 3 & 4 - 4	1/200
PE-WWTP-204-03	WASTEWATER TREATMENT PLANT SECTION 5 - 5 & 6 - 6	1/200
PE-WWTP-204-04	WASTEWATER TREATMENT PLANT SECTION 7 - 7 & 8 - 8	
PE-WWTP-204-05	WASTEWATER TREATMENT PLANT SECTION 9 - 9 & 10 - 10	1/200 1/200
PE-WWTP-204-06	WASTEWATER TREATMENT PLANT SECTION 11 - 11 & 12 - 12	1/200
PE-WWTP-204-07	WASTEWATER TREATMENT PLANT SECTION 13 - 13	
PE-WWTP-205-01	DISTRIBUTION TANK PLAN AND SECTION	1/100 1/100
PE-WWTP-206-01	DISINFECTION TANK PLAN AND SECTION (No.1)	
PE-WWTP-206-02	DISINFECTION TANK PLAN AND SECTION (No.2)	1/100
PE-WWTP-206-03	DISINFECTION TANK SECTION (No.3)	1/100
PE-WWTP-207-01	WATER SUPPLY FACILITY PLAN (No.1)	1/100
PE-WWTP-207-02	WATER SUPPLY FACILITY PLAN (No.2)	1/100
PE-WWTP-207-03	WATER SUPPLY FACILITY SECTION (No.1)	1/100
PE-WWTP-207-04	WATER SUPPLY FACILITY SECTION (No.2)	1/100
PE-WWTP-207-05	WATER SUPPLY FACILITY SECTION (No.3)	1/100
PE-WWTP-207-06	WATER SUPPLY FACILITY STAIRCASE PLAN AND SECTION (No. 1)	1/5, 1/20, 1/50
PE-WWTP-207-07	WATER SUPPLY FACILITY STAIRCASE PLAN AND SECTION (No. 2)	1/5, 1/20, 1/50
PE-WWTP-208-01	EFFLUENT PIPE PLAN AND SECTION (No.1)	1/100, 1/200
PE-WWTP-208-02	EFFLUENT PIPE PLAN AND SECTION (No.2)	1/100
PE-WWTP-208-03	EFFLUENT PIPE PLAN AND SECTION (No.3)	1/100
PE-WWTP-209-01	PIPE GALLERY LAYOUT PLAN	1/1000
PE-WWTP-209-02	PIPE GALLERY (A) PLAN AND SECTION	1/100
PE-WWTP-209-03	PIPE GALLERY (B) PLAN AND SECTION	1/100
PE-WWTP-209-04	PIPE GALLERY (D) PLAN AND SECTION	1/100
PE-WWTP-209-05	PIPE GALLERY (E) PLAN AND SECTION	1/100
PE-WWTP-209-06	PIPE GALLERY (F) PLAN AND SECTION	1/100
PE-WWTP-209-07	PIPE GALLERY (G), (H) PLAN AND SECTION	1/100
PE-WWTP-210	MAIN SUBSTATION PLAN AND SECTION (NO DRAWING) (REFER TO ELECTRICAL	I
	DWG. No. PE-WWTP-507 AND No. PE-WWTP-508)	

1/25000 1/2000 1/1000 N.T.S 1/2000 1/1000 N.T.S N.T.S 1/100 1/100 1/100 1/100	PE-WWTP-211-01 PE-WWTP-211-02 PE-WWTP-211-03 PE-WWTP-212-01 PE-WWTP-212-02 PE-WWTP-213-01 PE-WWTP-213-02 PE-WWTP-213-03 PE-WWTP-214-01 PE-WWTP-214-02 PE-WWTP-215-01 PE-WWTP-215-02 PE-WWTP-215-03	MAIN BUILDING PLAN AND SECTION MAIN BUILDING SECTION MAIN BUILDING STAIRCASE PLAN AND SECTION BLOWER BUILDING PLAN AND SECTION BLOWER BUILDING STAIRCASE PLAN AND SECTION DEWATERING AND CENTRIFUGAL THICKENER BUILDING PLAN DEWATERING AND CENTRIFUGAL THICKENER BUILDING SECTION DEWATERING AND CENTRIFUGAL THICKENER STAIRCASE PLAN AND SECTION GRAVITY THICKENER PLAN GRAVITY THICKENER SECTION COMPOST PLANT PLAN AND SECTION (No.1)	1/10 1/10 1/5, 1/20, 1/5 1/100, 1/20 1/5, 1/20, 1/5 1/20 1/20 AS SHOW
1/2000 1/1000 N.T.S 1/2000 1/1000 N.T.S N.T.S 1/100 1/100 1/100 1/100	PE-WWTP-211-02 PE-WWTP-211-03 PE-WWTP-212-01 PE-WWTP-213-01 PE-WWTP-213-02 PE-WWTP-213-03 PE-WWTP-214-01 PE-WWTP-214-02 PE-WWTP-215-01 PE-WWTP-215-02	MAIN BUILDING STAIRCASE PLAN AND SECTION BLOWER BUILDING PLAN AND SECTION BLOWER BUILDING STAIRCASE PLAN AND SECTION DEWATERING AND CENTRIFUGAL THICKENER BUILDING PLAN DEWATERING AND CENTRIFUGAL THICKENER BUILDING SECTION DEWATERING AND CENTRIFUGAL THICKENER STAIRCASE PLAN AND SECTION GRAVITY THICKENER PLAN GRAVITY THICKENER SECTION	1/5, 1/20, 1/5 1/100, 1/20 1/5, 1/20, 1/5 1/20 1/20 AS SHOW
1/2000 1/1000 N.T.S 1/2000 1/1000 N.T.S N.T.S 1/100 1/100 1/100 1/100	PE-WWTP-211-03 PE-WWTP-212-01 PE-WWTP-212-02 PE-WWTP-213-01 PE-WWTP-213-03 PE-WWTP-214-01 PE-WWTP-214-02 PE-WWTP-215-01 PE-WWTP-215-02	BLOWER BUILDING PLAN AND SECTION BLOWER BUILDING STAIRCASE PLAN AND SECTION DEWATERING AND CENTRIFUGAL THICKENER BUILDING PLAN DEWATERING AND CENTRIFUGAL THICKENER BUILDING SECTION DEWATERING AND CENTRIFUGAL THICKENER STAIRCASE PLAN AND SECTION GRAVITY THICKENER PLAN GRAVITY THICKENER SECTION	1/100, 1/20 1/5, 1/20, 1/5 1/20 1/20 AS SHOW
1/2000 1/1000 N.T.S 1/2000 1/1000 N.T.S N.T.S 1/100 1/100 1/100 1/100	PE-WWTP-212-01 PE-WWTP-212-02 PE-WWTP-213-01 PE-WWTP-213-03 PE-WWTP-214-01 PE-WWTP-214-02 PE-WWTP-215-01 PE-WWTP-215-02	BLOWER BUILDING STAIRCASE PLAN AND SECTION  DEWATERING AND CENTRIFUGAL THICKENER BUILDING PLAN  DEWATERING AND CENTRIFUGAL THICKENER BUILDING SECTION  DEWATERING AND CENTRIFUGAL THICKENER STAIRCASE PLAN AND SECTION  GRAVITY THICKENER PLAN  GRAVITY THICKENER SECTION	1/5, 1/20, 1/5 1/20 1/20 AS SHOW 1/10
1/1000 N.T.S 1/2000 1/1000 N.T.S N.T.S 1/100 1/100 1/100 1/100	PE-WWTP-212-02 PE-WWTP-213-01 PE-WWTP-213-02 PE-WWTP-213-03 PE-WWTP-214-01 PE-WWTP-214-02 PE-WWTP-215-01 PE-WWTP-215-02	DEWATERING AND CENTRIFUGAL THICKENER BUILDING PLAN DEWATERING AND CENTRIFUGAL THICKENER BUILDING SECTION DEWATERING AND CENTRIFUGAL THICKENER STAIRCASE PLAN AND SECTION GRAVITY THICKENER PLAN GRAVITY THICKENER SECTION	1/20 1/20 AS SHOW 1/10
N.T.S 1/2000 1/1000 N.T.S N.T.S 1/100 1/100 1/100 1/100	PE-WWTP-213-01 PE-WWTP-213-02 PE-WWTP-213-03 PE-WWTP-214-01 PE-WWTP-214-02 PE-WWTP-215-01 PE-WWTP-215-02	DEWATERING AND CENTRIFUGAL THICKENER BUILDING SECTION DEWATERING AND CENTRIFUGAL THICKENER STAIRCASE PLAN AND SECTION GRAVITY THICKENER PLAN GRAVITY THICKENER SECTION	1/20 AS SHOW 1/10
1/2000 1/1000 N.T.S N.T.S 1/100 1/100 1/100 1/100	PE-WWTP-213-03 PE-WWTP-214-01 PE-WWTP-214-02 PE-WWTP-215-01 PE-WWTP-215-02	DEWATERING AND CENTRIFUGAL THICKENER STAIRCASE PLAN AND SECTION GRAVITY THICKENER PLAN GRAVITY THICKENER SECTION	AS SHOW
1/1000 N.T.S N.T.S 1/100 1/100 1/100 1/100	PE-WWTP-214-01 PE-WWTP-214-02 PE-WWTP-215-01 PE-WWTP-215-02	GRAVITY THICKENER PLAN GRAVITY THICKENER SECTION	1/10
N.T.S N.T.S 1/100 1/100 1/100 1/100	PE-WWTP-214-02 PE-WWTP-215-01 PE-WWTP-215-02	GRAVITY THICKENER SECTION	
N.T.S 1/100 1/100 1/100 1/100 1/100	PE-WWTP-215-01 PE-WWTP-215-02	1	1/1/
1/100 1/100 1/100 1/100 1/100	PE-WWTP-215-02	COMPOST PLANT PLAN AND SECTION (No. 1)	1/10
1/100 1/100 1/100 1/100	PE-WWTP-215-02	(COMI OST LEANT LEAN AND SECTION (NO.1)	1/20
1/100 1/100 1/100		COMPOST PLANT PLAN AND SECTION (No.2)	1/50, 1/10
1/100 1/100		COMPOST PLANT PLAN AND SECTION (No.3)	1/20, 1/5
1/100	PE-WWTP-215-04	COMPOST PLANT PLAN AND SECTION (No.4)	1/10
	PE-WWTP-215-05	COMPOST PLANT PLAN AND SECTION (No.5)	1/5
	PE-WWTP-215-06	COMPOST FACILITY CIVIL WORKS DRAWING (No.1)	1/30
	PE-WWTP-215-07	COMPOST FACILITY CIVIL WORKS DRAWING (No.2)	1/20
	PE-WWTP-215-08	COMPOST FACILITY CIVIL WORKS DRAWING (No.3)	1/10
	PE-WWTP-215-09	COMPOST FACILITY PIPE SUPPORT FOUNDATION DETAILS	1/20, 1/20
	PE-WWTP-216-01	TRACK SCALE PLAN AND SECTION (WEIGH BRIDGE STRUCTURE) (No.1)	1/5
	PE-WWTP-216-02	TRACK SCALE PLAN AND SECTION (WEIGH BRIDGE STRUCTURE) (No.2)	1/20, 1/5
	PE-WWTP-217-01	WWTP STAIRCASE (A) PLAN AND SECTION	1/10
	PE-WWTP-218-01	WWTP STAIRCASE (A) PLAN AND SECTION	1/1
	PE-WWTP-219-01	CONNECTION PIPE PLAN AND SECTION	1/1
	PE-WWTP-220-01	PLAN AND LONGITUDINAL SECTION (BRIDGE DRAWINGS)	1/50, 1/5
1/200	PE-WWTP-220-01	PRETENSIONED HOLLOW PLATE BEAM (BRIDGE DRAWINGS)	1/10, 1/
	PE-WWTP-220-02 PE-WWTP-220-03	STRUCTURE OF DECK (BRIDGE DRAWINGS)	1/10, 1/
1/200			1/10, 1/15, 1/
			1/2.5, 1/5, 1/10, 1/
			1/2.3, 1/3, 1/10, 1/.
			1/
			1/20, 1/30, 1/
			1/15, 1/30, 1/
	PE-WWTP-220-10		1/10, 1/20, 1/2
	L		1/30, 1/4
	PE-WWTP-220-11		1/10, 1/20, 1/2
	L		1/30, 1/
			1/20, 1/
			1/20, 1/40, 1/
		· · · · · · · · · · · · · · · · · · ·	1/
1/20, 1/50			1/25, 1/
100, 1/200			1/2, 1/10, 1/1
1/100		I	1/50, 1/1
1/100	1	BRIDGE PREPARATION SOIL IMPROVEMENT	1/30, 1/100, 1/2
1/1000	PE-WWTP-221-01	ROAD PLAN, SECTION AND DETAIL (PHASE I & II)	1/2000, 1/2
1/100	PE-WWTP-221-02	ROAD PLAN, SECTION AND DETAIL (PHASE I)	1/10
1/100	PE-WWTP-221-03	ROAD PLAN, SECTION AND DETAIL (No.1)	1/20, 1/1
1/100	PE-WWTP-221-04	ROAD PLAN, SECTION AND DETAIL (No.2)	1/100, 1/10
1/100	PE-WWTP-222-01	RAIN DISCHARGE PLAN, SECTION AND DETAIL(No.1)	1/20
1/100	PE-WWTP-222-02	DAIN DISCHARGE DI AN SECTION AND DETAIL (No.2)	1/10
1/100	PE-WWTP-222-03	KAIN DISCHARGE LEAN, SECTION AND DETAIL (No.2)	1 1/1
1	1/200 1/200 1/200 1/200 1/100	1/200 PE-WWTP-220-04 1/200 PE-WWTP-220-05 1/200 PE-WWTP-220-06 1/100 PE-WWTP-220-07 1/100 PE-WWTP-220-09 1/100 PE-WWTP-220-10 1/100 PE-WWTP-220-11 1/100 PE-WWTP-220-12 1/100 PE-WWTP-220-13 1/20, 1/50 PE-WWTP-220-14 1/20, 1/50 PE-WWTP-220-15 00, 1/200 PE-WWTP-220-16 1/100 PE-WWTP-220-17 1/100 PE-WWTP-220-18 1/100 PE-WWTP-221-01 1/100 PE-WWTP-221-01 1/100 PE-WWTP-221-02 1/100 PE-WWTP-221-03 1/100 PE-WWTP-221-04 1/100 PE-WWTP-221-04	1/200

DRAWING No	TITLE	SCALE
PE-WWTP-222-04	RAIN DISCHARGE PLAN, SECTION AND DETAIL(No.4)	AS SHOWN
PE-WWTP-223-01	GATE AND FENCE PLAN, SECTION AND DETAIL	1/10, 1/20, 1/25, 1/50
PE-WWTP-224-01	TREE AND VEGETATION PLAN ELEVATION AND DETAIL	1/10, 1/20, 1/30,
		1/50, 1/500
PE-WWTP-225-01	NO DRAWING ( PLEASE REFER TO ELECTRICAL DRAWING IN PACKAGE E)	
PE-WWTP-226-01	SANITARY SEWER PLAN	1/1000
PE-WWTP-226-02	SANITARY SEWER DETAILS	1/10, 1/20, 1/40
PE-WWTP-227-01	SITE PREPARATION SOIL IMPROVEMENT PLAN	1/1000
PE-WWTP-228-01	EMBANKMENT SECTION AND DETAILS	1/200
PE-WWTP-229-01	WASTEWATER TREATMENT PLANT PLAN - GRATING COVER KEY PLAN (No.1-1)	1/200
PE-WWTP-229-02	WASTEWATER TREATMENT PLANT PLAN - GRATING COVER KEY PLAN (No.1-2)	1/200
PE-WWTP-229-03	WASTEWATER TREATMENT PLANT PLAN - STOP LOG OF KEY PLAN (No.2-1)	1/200
PE-WWTP-229-04	WASTEWATER TREATMENT PLANT PLAN - STOP LOG OF KEY PLAN (No.2-2)	1/200
PE-WWTP-229-05	WASTEWATER TREATMENT PLANT PLAN - OVERFLOW WEIR OF KEY PLAN (No.2-1)	1/200
PE-WWTP-229-06	WASTEWATER TREATMENT PLANT PLAN - OVERFLOW WEIR OF KEY PLAN (No.2-2)	1/200
PE-WWTP-229-07	WASTEWATER TREATMENT PLANT PLAN - STEEL STEP OF KEY PLAN (No.2-1)	1/200
PE-WWTP-229-08	WASTEWATER TREATMENT PLANT PLAN - STEEL STEP OF KEY PLAN (No.2-2)	1/200
PE-WWTP-229-09	WASTEWATER TREATMENT PLANT PLAN - STAINLESS STEEL CHAIN AND CONCRETE COVER OF KEY PLAN (No.3-1)	1/200
PE-WWTP-229-10	WASTEWATER TREATMENT PLANT PLAN - STAINLESS STEEL CHAIN AND CONCRETE COVER OF KEY PLAN (No.3-2)	1/200
PE-WWTP-229-11	WASTEWATER TREATMENT PLANT PLAN - STEEL BALUSTRADE OF KEY PLAN (No.3-	1/200
PE-WWTP-229-12	1) WASTEWATER TREATMENT PLANT PLAN - STEEL BALUSTRADE OF KEY PLAN (No.3-	1/200
PE-WWTP-229-13	2) STEEL CHAIN, STEEL STEP, SKY LIGHT, STEEL BALUSTRADE OF WATER SUPPLY	1/100
PE-W W 1F-229-13	FACILITY OF KEY PLAN	· [
PE-WWTP-229-14	STOP LOG AND STEEL STEP OF LIFT PUMPING STATION KEY PLAN	1/100
PE-WWTP-229-15	OVERFLOW WEIR OF DISINFECTION TANK KEY PLAN AND SECTION	1/100
PE-WWTP-229-16	STOPLOG AND STEEL STEP OF DISINFECTION TANK KEY PLAN AND SECTION	1/100
PE-WWTP-229-17	STEEL CHAIN, STEEL BALUSTRADE OF DISINFECTION TANK KEY PLAN AND SECTION	1/100
PE-WWTP-229-18	GRATING COVER OF DISINFECTION TANK KEY PLAN AND SECTION	1/100
PE-WWTP-229-19	OVERFLOW WEIR OF GRAVITY THICKENER KEY PLAN	1/100
PE-WWTP-229-20	CONCRETE COVER OF GRAVITY THICKENER KEY PLAN	1/100
PE-WWTP-229-21	GRATING COVER OF PIPE GALLERY (A) KEY PLAN	1/100
PE-WWTP-229-22	GRATING COVER OF PIPE GALLERY (B) KEY PLAN	1/100
PE-WWTP-229-23	GRATING COVER OF PIPE GALLERY (D) KEY PLAN	1/100
PE-WWTP-229-24	GRATING COVER OF PIPE GALLERY (E) KEY PLAN	1/100
PE-WWTP-229-25	GRATING COVER OF PIPE GALLERY (F) KEY PLAN	1/100
PE-WWTP-229-26	GRATING COVER OF PIPE GALLERY (G), (H) KEY PLAN	1/100
PE-WWTP-229-27	GRATING COVER OF WATER SUPPLY FACILITY KEY PLAN	1/100
PE-WWTP-229-28	GRATING COVER OF BLOWER BUILDING KEY PLAN	1/200
PE-WWTP-229-29	GRATING COVER OF MAIN BUILDING KEY PLAN	1/100
PE-WWTP-229-30	GRATING COVER OF DEWATERING AND CENTRIFUGAL THICKENER BUILDING KEY PLAN	1/200
PE-WWTP-229-31	DETAIL DRAWING (1) GRATING COVER AND BEARER FORM	1/1, 1/5, 1/10
PE-WWTP-229-32	DETAIL DRAWING (2) CONCRETE COVER AND BEARER FORM	1/5
PE-WWTP-229-33	DETAIL DRAWING (3) OVERFLOW WEIR	1/5
PE-WWTP-229-34	DETAIL DRAWING (4) STEEL STEP	1/5, 1/20
PE-WWTP-229-35	DETAIL DRAWING (5) SKY LIGHT	1/20
PE-WWTP-229-36	DETAIL DRAWING (6) STEEL BALUSTRADE	1/5, 1/20
PE-WWTP-229-37	DETAIL DRAWING (7) STEEL CHAIN	1/20
PE-WWTP-229-38	DETAIL DRAWING (8) SYNTHENTIC WOODEN STOP LOG	1/10

DRAWING No	TITLE	SCALE
PE-WWTP-229-39	DETAIL DRAWING (9) HOOK, EXPANSION JOINT AND CONSTRUCTION JOINT	1/5, 1/10, 1/20
PE-WWTP-229-40	DETAIL DRAWING (10) MANHOLE	1/40
PE-WWTP-229-41	GRATING COVER OF LIFT PUMPING STATION PLAN	1/100
PE-WWTP-230-01	PLAN AND PROFILE OF CONVEYANCE SEWER AND O/M ROAD (I)	H: 1/500; V:1/100
PE-WWTP-230-02	PLAN AND PROFILE OF CONVEYANCE SEWER AND O/M ROAD (2)	H: 1/500; V:1/100
PE-WWTP-231-01	PLAN AND SECTION OF SIPHON FO TAC BEN RO CANAL CROSSING	1/100
PE-WWTP-232-01	PLAN AND SECTION FOR SEWER AND MANHOLE OF CONVEYANCE SEWER	1/25
	PILE ARRANGEMENT	
PE-WWTP-251-01	LIFT PUMPING STATION PILE ARRANGEMENT PLAN	1/25, 1/100
PE-WWTP-252-01	WASTEWATER TREATMENT PLANT PILE ARRANGEMENT PLAN (No. 1)	1/25, 1/200
PE-WWTP-252-02	WASTEWATER TREATMENT PLANT PILE ARRANGEMENT PLAN (No. 2)	1/25, 1/200
PE-WWTP-253-01	DISINFECTION TANK PILE ARRANGEMENT PLAN (INCLUDED ON DWG. No. PE-	1,23, 1,200
1 E- W W 11 -233-01	WWTP-254-01)	
PE-WWTP-254-01	DISINFECTION TANK AND WATER SUPPLY FACILITY PILE ARRANGEMENT PLAN	1/25, 1/125
PE-WWTP-255-01	PIPE GALLERY (A), (B), (D), (E) PILE ARRANGEMENT PLAN	1/25, 1/100
PE-WWTP-255-02	PIPE GALLERY (F), (G), (H) PILE ARRANGEMENT PLAN	1/25, 1/100
PE-WWTP-256	22KV MAIN SUBSTATION PILE ARRANGEMENT PLAN (NO DRAWING)	1/23, 1/100
PE-WWTP-257-01	MAIN BUILDING PILE ARRANGEMENT PLAN	1/25, 1/100
PE-WWTP-258-01	BLOWER BUILDING PILE ARRANGEMENT PLAN	1/25, 1/100
PE-WWTP-259-01	DEWATERING AND CENTRIFUGAL THICKENER BUILDING PILE ARRANGEMENT	1/25, 1/125
PE-WWIP-259-01	PLAN	1723, 17200
PE-WWTP-260-01	GRAVITY THICKENER PILE ARRANGEMENT PLAN	1/25, 1/100
PE-WWTP-261-01	COMPOST PLANT PILE ARRANGEMENT PLAN	1/25, 1/200, 1/100
PE-WWTP-262	TRACK SCALE PILE ARRANGEMENT PLAN (NO DRAWING) (INCLUDED ON DWG. PE-	·
	WWTP-216-01)	
PE-WWTP-263	CONNECTION PIPE PILE ARRANGEMENT PLAN (NO DRAWING) (REFER TO DWG. PE-WWTP-219-01)	
PE-WWTP-264-01	EXISTING POWER TOWER PROTECTION GENERAL CONDITION	AS SHOWN
PE-WWTP-264-02	EXISTING POWER TOWER PROTECTION - PROTECTION DETAILS	AS SHOWN
PE-WWTP-265-01	DETAIL OF R.C PILE 300x300	AS SHOWN
PE-WWTP-265-02	DETAIL OF R.C PILE 400x400	AS SHOWN
	BAR ARRANGEMENT	
PE-WWTP-266-01	LIFT PUMPING STATION STRUCTURE BAR ARRANGEMENT DRAWING (No. 1)	1/50
PE-WWTP-266-02	LIFT PUMPING STATION STRUCTURE BAR ARRANGEMENT DRAWING (No. 2)	1/50
PE-WWTP-266-03	LIFT PUMPING STATION STRUCTURE BAR ARRANGEMENT DRAWING (No. 3)	1/50
PE-WWTP-266-04	LIFT PUMPING STATION STRUCTURE BAR ARRANGEMENT DRAWING (No. 4)	1/50
PE-WWTP-267-01	WASTEWATER TREATMENT PLANT BAR ARRANGEMENT DRAWING (No. 1)	1/50
PE-WWTP-267-02	WASTEWATER TREATMENT PLANT BAR ARRANGEMENT DRAWING (No.2)	1/50
PE-WWTP-267-03	WASTEWATER TREATMENT PLANT BAR ARRANGEMENT DRAWING (No. 3)	1/50
PE-WWTP-267-04	WASTEWATER TREATMENT PLANT BAR ARRANGEMENT DRAWING (No. 4)	1/50
PE-WWTP-267-05	WASTEWATER TREATMENT PLANT BAR ARRANGEMENT DRAWING (No. 5)	1/50
PE-WWTP-267-06	WASTEWATER TREATMENT PLANT BAR ARRANGEMENT DRAWING (No. 6)	1/50
PE-WWTP-268	DISTRIBUTION TANK BAR ARRANGEMENT DRAWING (INCLUDING 267-03)	1/50
PE-WWTP-269-01	DISINFECTION TANK BAR ARRANGEMENT DRAWING (No. 1)	1/50
PE-WWTP-269-02	DISINFECTION TANK BAR ARRANGEMENT DRAWING (No. 2)	1/50
PE-WWTP-270-01	WATER SUPPLY FACILITY PLAN OF BEAM	1/100
PE-WWTP-270-01	WATER SUPPLY FACILITY BAR ARRANGEMENT DRAWING (No.1)	1/50
PE-WWTP-270-02	WATER SUPPLY FACILITY BAR ARRANGEMENT DRAWING (No.1) WATER SUPPLY FACILITY BAR ARRANGEMENT DRAWING (No.2)	1/25, 1/50
PE-WWTP-270-03	WATER SUPPLY FACILITY BAR ARRANGEMENT DRAWING (No.2) WATER SUPPLY FACILITY BAR ARRANGEMENT DRAWING (STAIRCASE No.1)	1/10, 1/20, 1/50
PE-WWTP-270-04 PE-WWTP-270-05	WATER SUPPLY FACILITY BAR ARRANGEMENT DRAWING (STAIRCASE No.1) WATER SUPPLY FACILITY BAR ARRANGEMENT DRAWING (STAIRCASE No.2)	1/10, 1/20, 1/30
re-wwir-2/2-01		1/50
PE-WWTP-271-01 PE-WWTP-272-01	PIPE GALLERY BAR ARRANGEMENT DRAWING LIFT PUMPING STATION TRANSFOMER PLAN, SECTION AND BAR ARRANGEMENT DRAWING	1/50, 1

DRAWING No	TITLE	SCALE
PE-WWTP-273-01	MAIN BUILDING STRUCTURE (No. 1)	1/100
PE-WWTP-273-02	MAIN BUILDING STRUCTRURE (No. 2)	1/100
PE-WWTP-273-03	MAIN BUILDING BAR ARRANGEMENT DRAWING (No. 1)	1/25, 1/50
PE-WWTP-273-04	MAIN BUILDING BAR ARRANGEMENT DRAWING (No. 2)	1/50
PE-WWTP-273-05	MAIN BUILDING BAR ARRANGEMENT DRAWING (No. 3)	1/50
PE-WWTP-273-06	MAIN BUILDING BAR ARRANGEMENT DRAWING (No. 4)	1/50
PE-WWTP-273-07	MAIN BUILDING BAR ARRANGEMENT DRAWING (No. 5)	1/25, 1/50
PE-WWTP-273-08	MAIN BUILDING BAR ARRANGEMENT DRAWING (No. 6)	
PE-WWTP-274-01	BLOWER BUILDING STRUCTURE	1/100, 1/200
PE-WWTP-274-02	BLOWER BUILDING BAR ARRANGEMENT DRAWING (No. 1)	1/50
PE-WWTP-274-03	BLOWER BUILDING BAR ARRANGEMENT DRAWING (No. 2)	1/25, 1/50
PE-WWTP-274-04	BLOWER BUILDING BAR ARRANGEMENT DRAWING (No. 3)	1/20, 1/50
PE-WWTP-275-01	DEWATERING AND CENTRIFUGAL THICKENER BUILDING PLAN	1/200
PE-WWTP-275-02	DEWATERING ANH CETRIFUGAL THICKENER BUILDING SECTION	1/200
PE-WWTP-275-03	DEWATERING AND CENTRIFUGAL THICKENER BUILDING BAR ARRANGEMENT	1/200
	DRAWING (SECTION A - A)	
PE-WWTP-275-04	DEWATERING AND CENTRIFUGAL THICKENER BUILDING BAR ARRANGEMENT	1/200
	DRAWING (SECTION B - B)	
PE-WWTP-275-05	DEWATERING AND CENTRIFUGAL THICKENER BUILDING BAR ARRANGEMENT	1/50
	DRAWING (SECTION C - C)	
PE-WWTP-275-06	DEWATERING AND CENTRIFUGAL THICKENER BUILDING BAR ARRANGEMENT	1/50
	DRAWING (SECTION D - D)	
PE-WWTP-275-07	DEWATERING AND CENTRIFUGAL THICKENER BUILDING BAR ARRANGEMENT	1/50
	DRAWING (SECTION E - E)	
PE-WWTP-275-08	DEWATERING AND CENTRIFUGAL THICKENER BUILDING BAR ARRANGEMENT	1/50
	DRAWING (SECTION F - F)	

SCALI	TITLE	DRAWING No
1/50	DEWATERING AND CENTRIFUGAL THICKENER BUILDING BAR ARRANGEMENT	PE-WWTP-275-09
	DRAWING (STAIR 1)	
1/50	DEWATERING AND CENTRIFUGAL THICKENER BUILDING BAR ARRANGEMENT	PE-WWTP-275-10
	DRAWING (STAIR 2)	
1/50	GRAVITY THICKENER BUILDING BAR ARRANGEMENT DRAWING (No. 1)	PE-WWTP-276-01
1/50	GRAVITY THICKENER BUILDING BAR ARRANGEMENT DRAWING (No. 2)	PE-WWTP-276-02
1/30, 1/50	WWTP STAIRCASE (A), (B) BAR ARRANGEMENT DRAWING (No.1)	PE-WWTP-277-01
1/25	BAR ARRANGEMENT OF CONVEYANCE SEWER AND MANHOLE	PE-WWTP-278-01
1/50	BAR ARRANGEMENT OF MAINTENANCE CHAMBER OF SIPHON	PE-WWTP-278-02
1/50	FERMENTING VESSEL BAR ARRANGEMENT DRAWING	PE-WWTP-279-01
1/50	DEODORIZING SOIL FILTER BAR ARRANGEMENT DRAWING	PE-WWTP-279-02
1/50	EXCAVATION PROFILE LAYOUT	PE-WWTP-280-01
1/50	EXCAVATION SECTION	PE-WWTP-280-02
1/50	TEMPORARY JETTY PLAN AND SECTION	PE-WWTP-281-01
1/100	LIFT PUMPING STATION - TEMPORY EARTH-RETAINING STRUCTURE PLAN	PE-WWTP-281-02
1/100	LIFT PUMPING STATION - TEMPORY EARTH-RETAINING STRUCTURE SECTION	PE-WWTP-281-03
1/100, 1/100	PIPE GALLERRY (INLET WATERWAY) - TEMPORY EARTH-RETAINING STRUCTURE PLAN AND SECTION	PE-WWTP-281-04
1/100, 1/50	EFFULENT PIPE - TEMPORY EARTH-RETAINING STRUCTURE	PE-WWTP-281-05
1/50	TEMPORARY STRUCTURE OF SHEET PILE (REFERENCE)	PE-WWTP-282-01
	TEMPORARY STRUCTURE OF SHAFT FOR PIPE JACKING (REFERENCE)	PE-WWTP-282-02

# GENERAL



