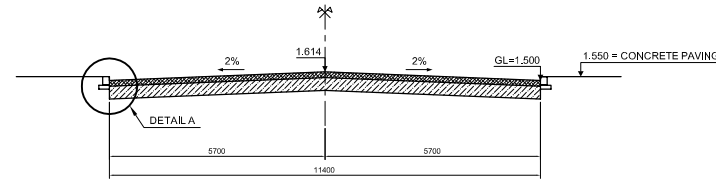


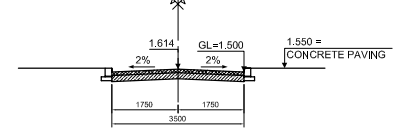
LAYOUT PLAN S = 1 : 200



CROSS SECTION II S = 1 : 100



CROSS SECTION I S = 1 : 100



PAVEMENT STRUCTURE OF OUTSIDE ROAD OF THANH DA PUMPING STATION

No	Name of road	Design wide (m)		Length (m)	Detail Quantity of Pavement (m ²)				Pavement area (m ²)
		Road bed	Pavement		A.C Wearing	A.C Blnder	Agg. 2-4 Base	Agg. 4-6 Subbase	
1	A - B - C - D - E	3.50	3.50	113	35.00	35.00	131.00	138.00	690

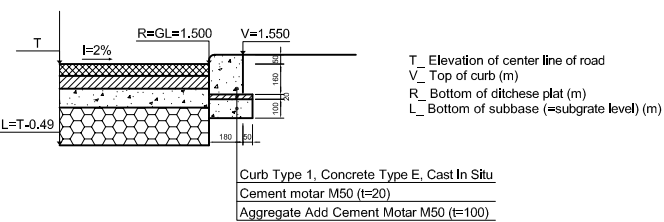
PLANT LIST: PACKAGE B (THANH DA - PUMPING STATION) PB-P01D-018

LEGEND	PLANT CATEGORY	SPECIES (SCIENTIFIC NAME)	UNIT	QUANTITY	HEIGHT	STEM DIA. (M 1.2m HEIGHT)	CROWN DIA.	ROOT BALL DIA.	TREE SUPPORT	REMARKS
Lap1	TREE	Lagerströmia repens (Lagerströmia repens)	No.	3.00	4.0	0.04	0.45	0.45	TRIPOD WITH POLE	
Mim-a	TREE	Mimusops elengi	No.	2.00	4.0	0.04	0.45	0.45	TRIPOD WITH POLE	
Pla-a	TREE	Plumeria alba (White flower)	No.	1.00	3.0	0.04	0.40	0.40	TRIPOD WITH POLE	
Loc-c	SHRUB	Loca cocinea (Loca chinensis)	m ²	11.00	0.4		0.25			SPACE WITHIN FLOWER PLANTING BOX (12m x 2m)
Lan-c	SHRUB	Lantana camara	No.	19.00	0.4		0.25			
Mus-p	SHRUB	Mussaenda pubescens	No.	18.00	0.4		0.25			
	GRASS SOD	Anonopus compressus (Broad leaved grass)	m ²	5.88						SPACE WITHIN TREE PLANTING BOX
	GRASS SOD	Anonopus compressus (Broad leaved grass)	m ²	78.92						

LANDSCAPE WORK LIST (PACKAGE B: THANH DA PUMPING STATION)

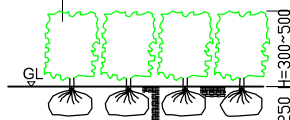
LEGEND	WORK ITEM	UNIT	QUANTITY	SEE / DIMENSION	REMARKS
MGP	MAIN GATE PORTS (2 PORTS IN 1 SET)	No.	1.00	565 x 450 x H 2500	
SGD-1	SLIDING GATE DOOR (TYPE-1)	No.	1.00	H 2000 x W 500 x L 4200	STEEL REINFORCED CONCRETE RAILWAY INCLUDED
	GRID FENCE (TYPE-4) (STEEL FENCE AND COLUMN)	m	82.62	H 2000 x 3000 SPAN STEEL BAR WITH BASE TWIN H 2500 x W 335 x 220 CONC. COLUMN W 2500 x W 335 x 335 CONC. END COLUMN	REINFORCED CONC. COLUMN
CPB	CURB OF PLAZA SPACE	m	32.22	200 x 500 x L	
CCP	CURB OF CONCRETE PAVING	m	15.37	200 x 500 x L	
CPB	CURB OF PLANTING BOX	m	28.00	200 x 400 x L	
BPV	COLOR CONCRETE BLOCK PAVING	m ²	81.10	100 x 100 x H 60	CAST IN SITU CONCRETE
CPV	CONCRETE PAVING	m ²	124.72	150 THK CAST IN SITU CONCRETE	
	BENCH STOOL	No.	2.00	400 x 800 x H 400 REINFORCED CONCRETE TERRAZZO FINISH ON SEATING TOP	
	PLANTING WORK				REFER TO PLANTING LIST

DETAIL A



S = 1 : 20

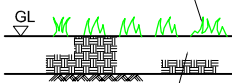
FLOWERING SHRUBS GROUP PLANTING SPECIES AND SIZES SHALL BE SPECIFIED IN THE PLANTING LIST



PLANTING BED, H=250 SHALL BE MADE BY REPLACEMENT OF AGRICULTURE SOIL AFTER REMOVAL OF DEPTH OF 250 EXISTING SOIL

S = 1 : 10

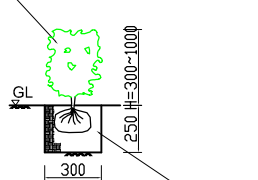
SPRIGS OF LIVING GRASS PLANT SPECIES SHALL BE AXONOPUS SP.



100 THK FOR REPLACEMENT BY AGRICULTURE SOIL AFTER REMOVAL OF EXISTING SOIL SURFACE

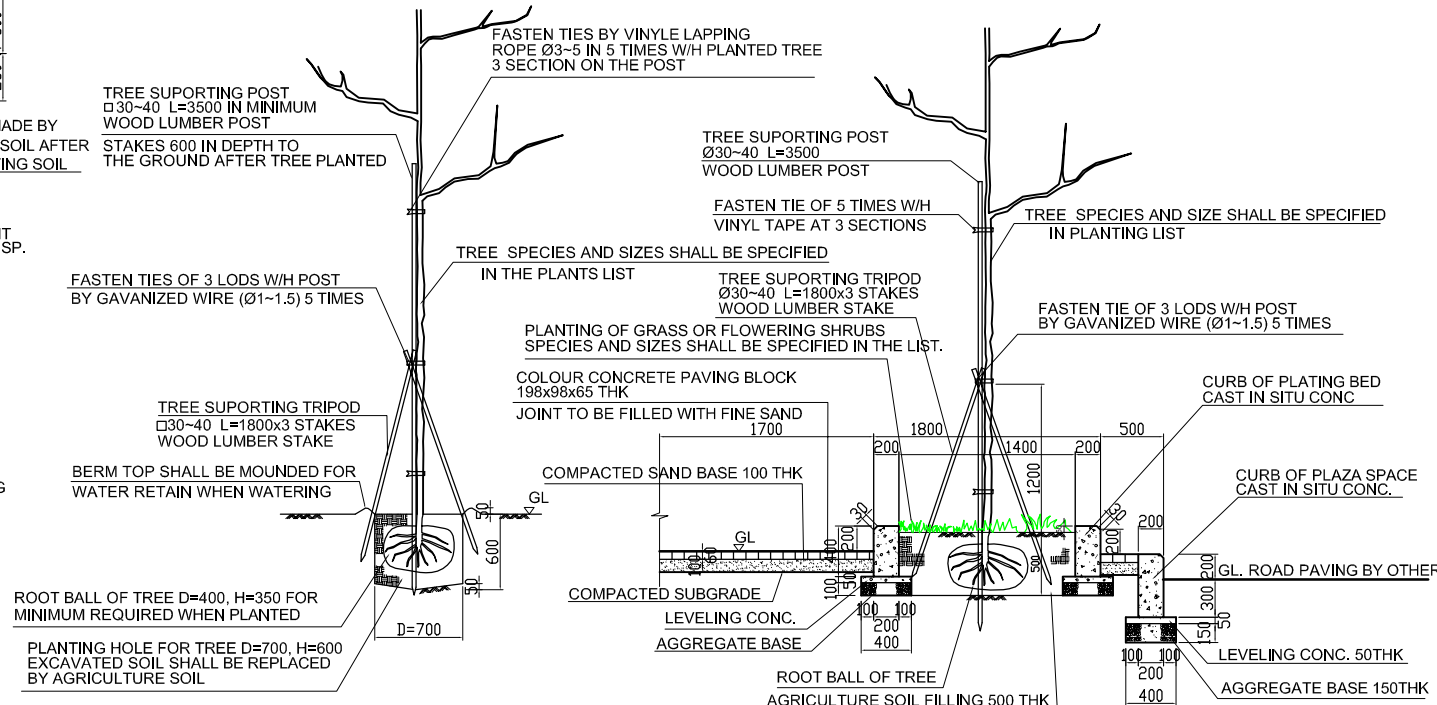
S = 1 : 20

FLOWERING SHRUB INDEPENDANT PLANTING SPECIES AND SIZES SHALL BE SPECIFIED IN THE PLANT LIST



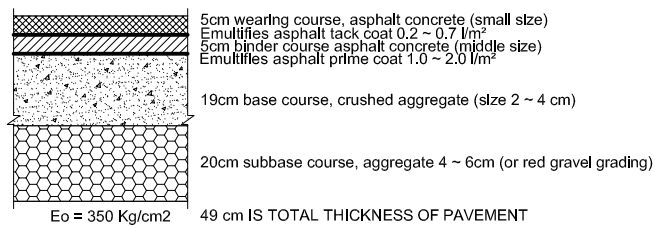
PLANTING HOLE D=300, H=250 EXCAVATED SOIL SHALL BE REPLACED BY AGRICULTURE SOIL

PLANTING WORK SECTION S = 1 : 30

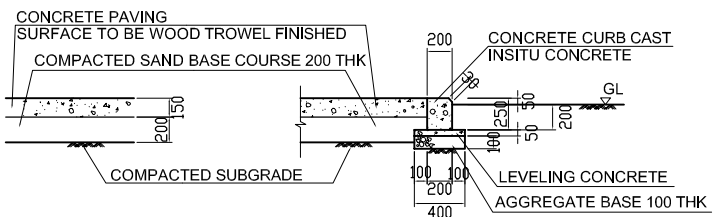


OUTSIDE PAVEMENT TYPE P3

DEMAND ELASTIC MODULUS Eyc = 1600Kg/cm²



IN SITU CONCRETE PAVING SECTION S = 1 : 30



NOTE: CONCRETE CURB SHALL BE INSTALLED IN CASE OF FACING SOD AREA

NOTE
 CURB CAST IN SITU
 CENTER LINE OF FENCE
 BOUNDARY
 AC : ASPHALT CONCRETE PAVEMENT
 GL = 1.50 m : AVERAGE EXISTING GROUND LEVEL

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 B
 PUMP DRAINAGE IMPROVEMENT
 THANH DA PUMPING STATION
 LANDSCAPE AND ROAD WORKS OF
 THANH DA PUMPING STATION

SCALE = 1/200, 1/30, 1/20, 1/10

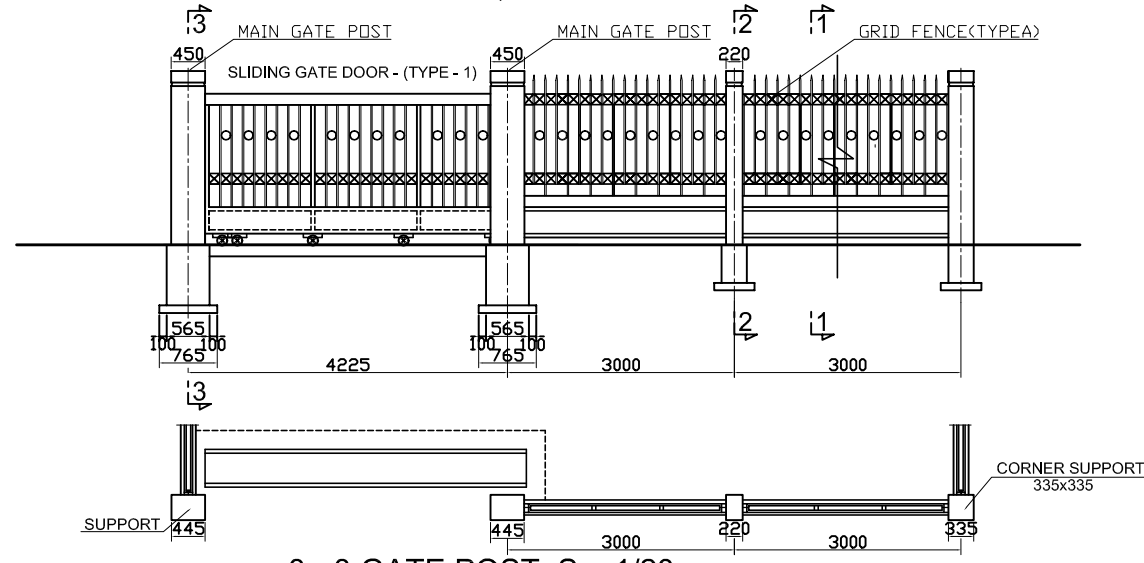
JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

PACIFIC CONSULTANTS INTERNATIONAL

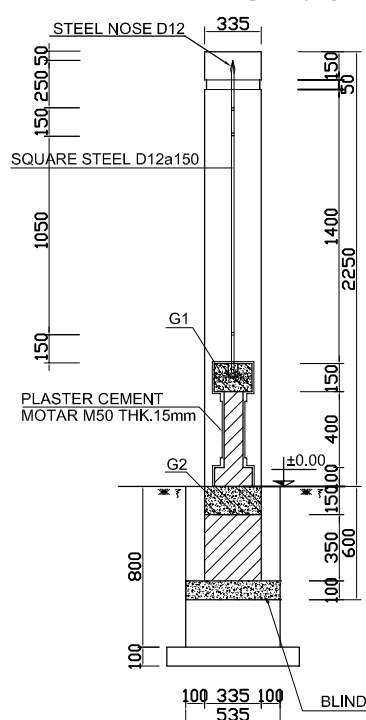
DESIGNED CHECKED

DATE : DWG. No. PB - PDI - TD - 310

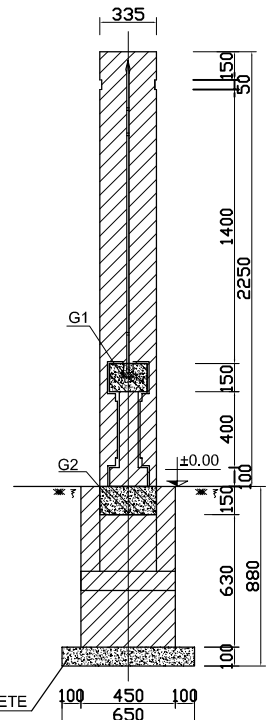
GATE POSTS, GATE DOORS AND FENCES S = 1/50



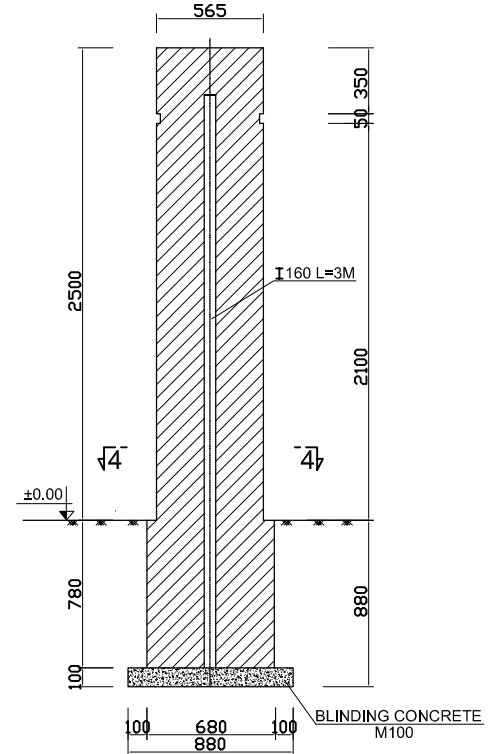
1 - 1 S = 1/20



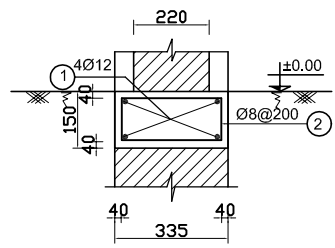
2 - 2 S = 1/20



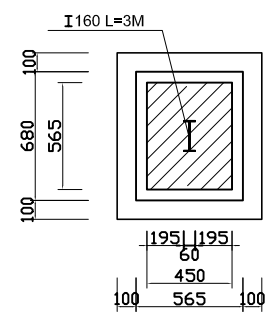
3 - 3 GATE POST S = 1/20



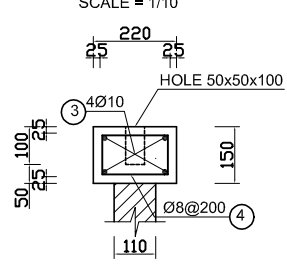
BEAM G2 S = 1/10



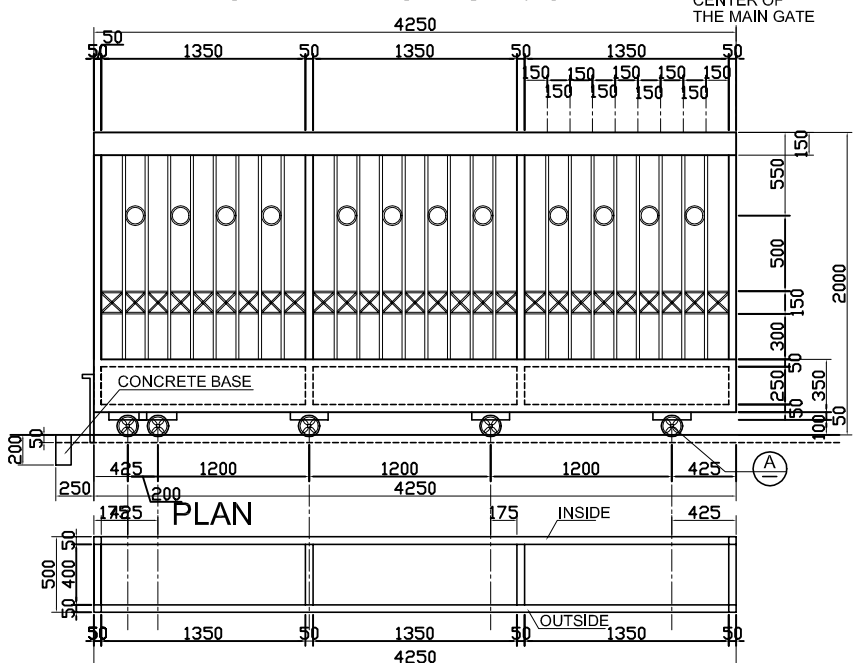
4 - 4 S = 1/20



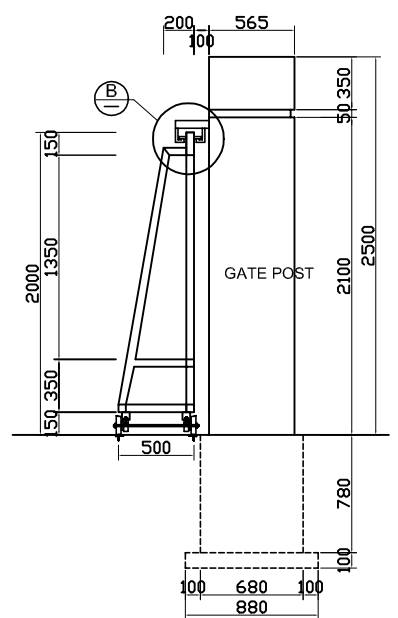
BEAM G1



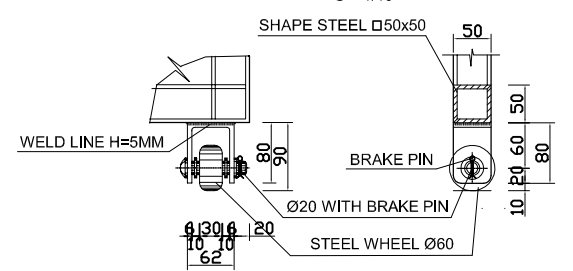
SLIDING GATE DOOR (TYPE - 1) FRONT ELEVATION S = 1/25



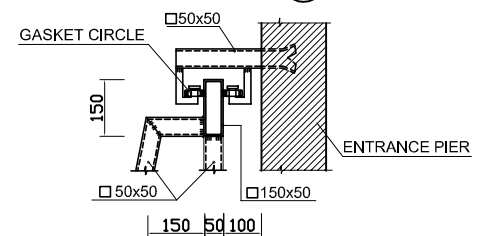
SIDE ELEVATION



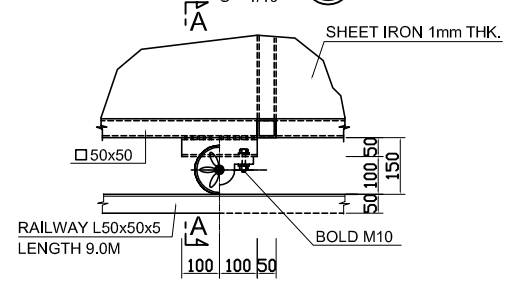
DETAILS OF WHEEL S = 1/10



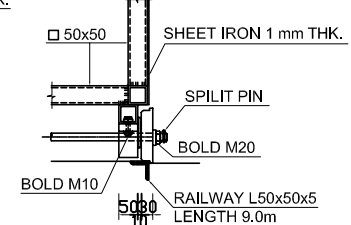
DETAIL B S = 1/10



DETAIL A S = 1/10



A - A



NO.	DATE	DESCRIPTIONS	BY	APPRO.

REVISIONS

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WATER ENVIRONMENT IMPROVEMENT PROJECT
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PACKAGE B
PUMP DRAINAGE IMPROVEMENT
THANH DA PUMPING STATION
DETAILS OF GATE, GATE POST
AND FENCE (TYPE A)

SCALE : AS SHOWN

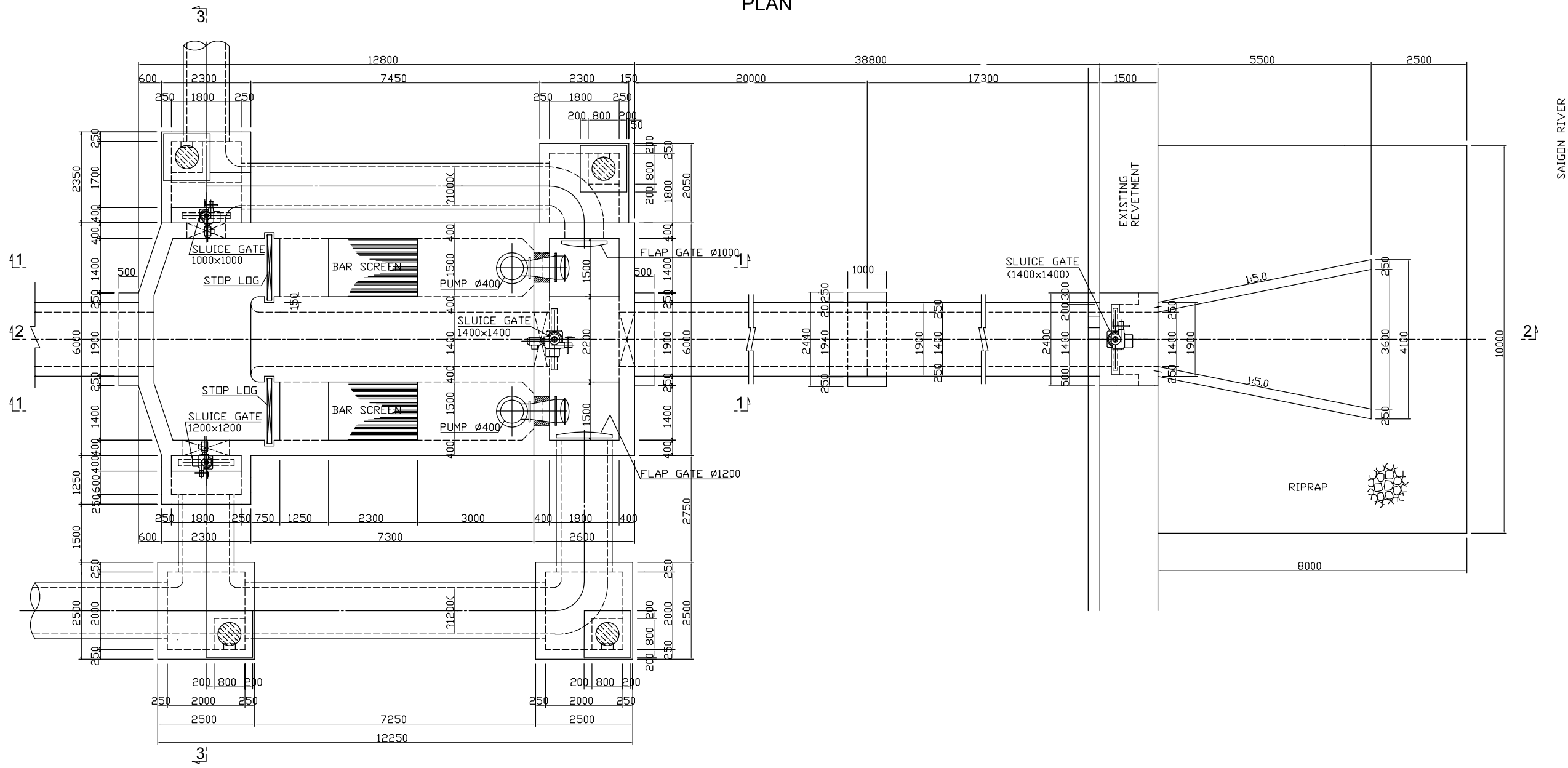
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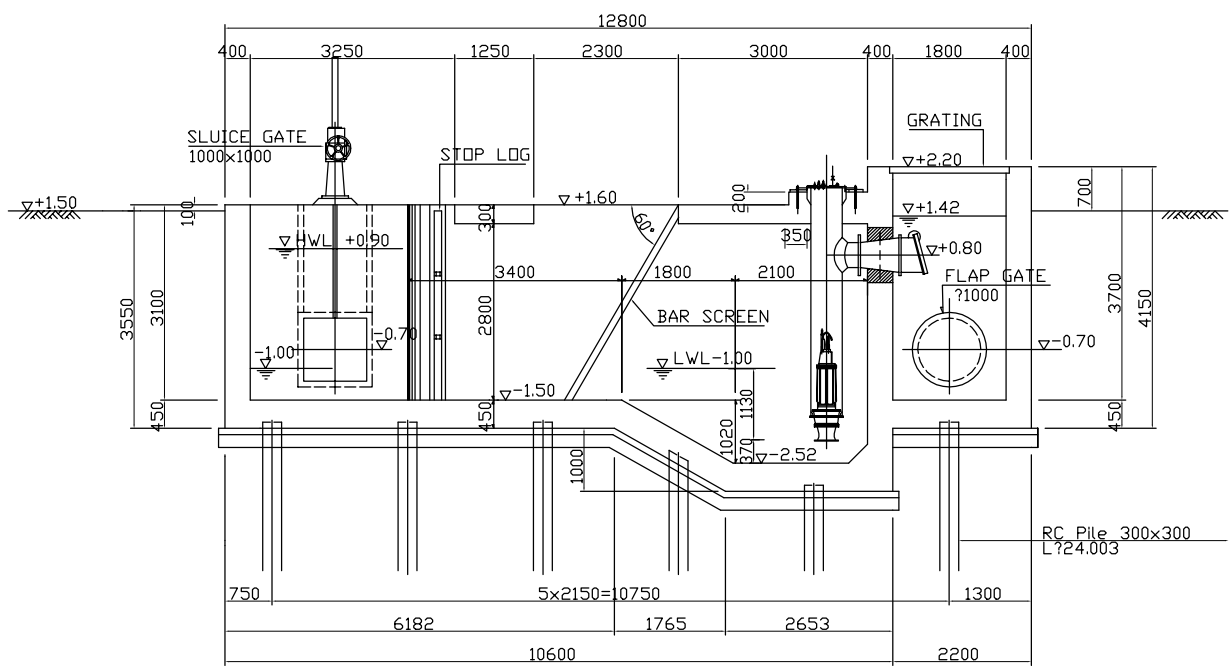
DESIGNED CHECKED

DATE : DWG. No. PB - PDI - TD - 311

PLAN



1-1



SAIGON RIVER

NO.	DATE	DESCRIPTIONS	BY	APRO.

REVISIONS

PROJECT MANAGEMENT UNIT FOR
WATER ENVIRONMENT IMPROVEMENT FOR
HO CHI MINH CITY

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

PACKAGE B
PUMP DRAINAGE IMPROVEMENT
THANH DA PUMPING STATION
**LAYOUT OF PUMP, BAR SCREEN
AND GATE EQUIPMENT**

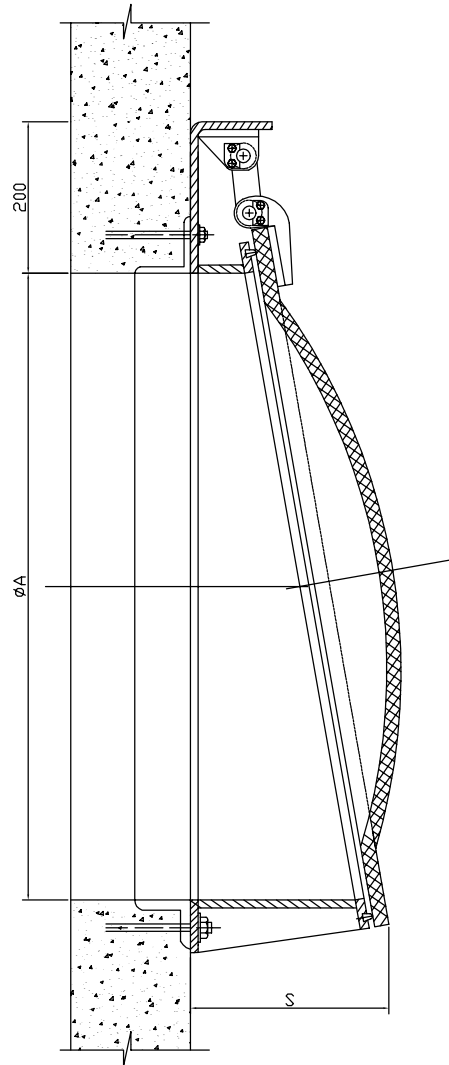
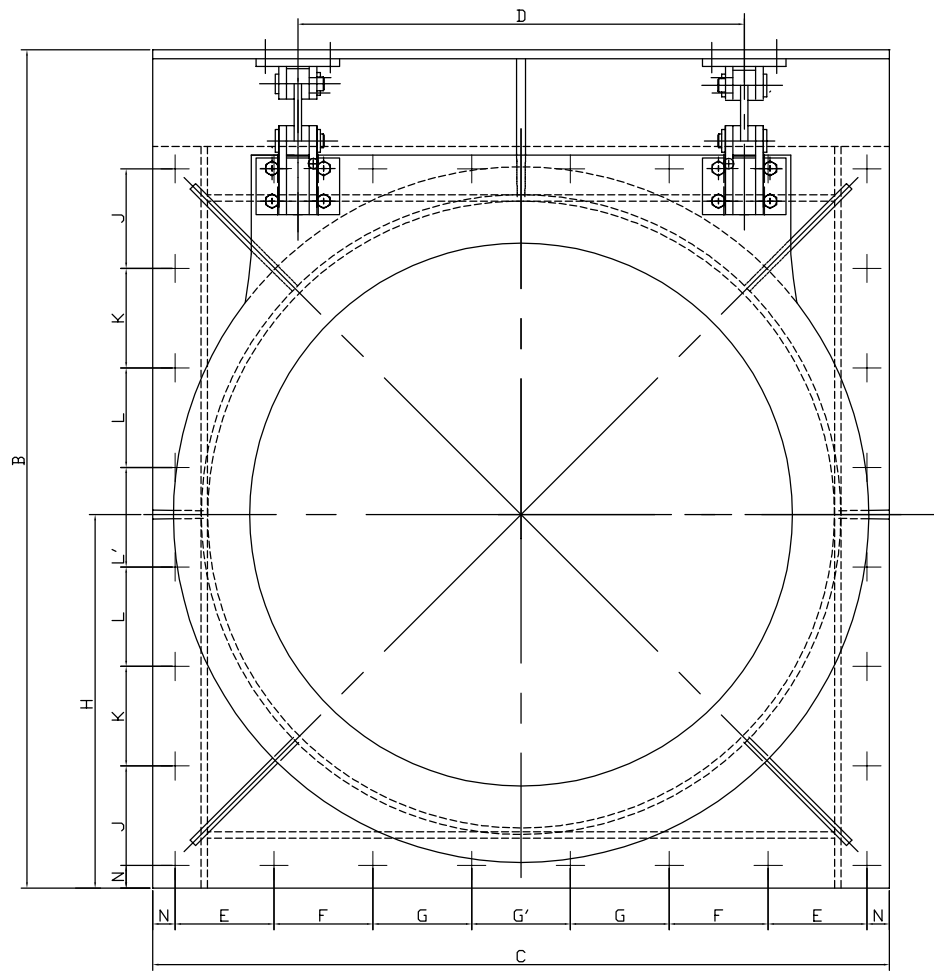
SCALE : 1 / 60

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A	B	C	D	E	F	G	G'	H	J	K	L	L'	N	P	Q	S
1000	1275	1150	700	220	220	-	220	600	220	220	-	220	25	20	13	228
1200	1485	1350	800	260	260	-	260	675	260	260	-	260	25	20	20	255

SPECIFICATION	THANH DA PUMPING STATION
TYPE	COMPOSITE, FABRICATED, ROUND SHAPE SWING TYPE GATE
DIAMETRE	1000mm/1200mm
Q'TY	1/1
DESIGN DEPTH (H)	2.32m
GATE CENTRE LEVEL	-0.70m

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PACKAGE B
PUMP DRAINAGE IMPROVEMENT
THANH DA PUMPING STATION
DETAIL OF FLAP GATE

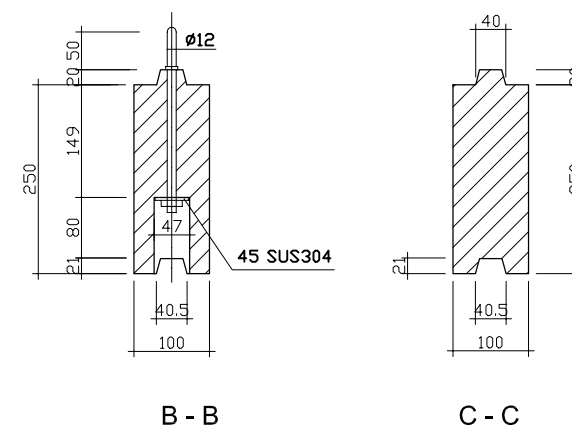
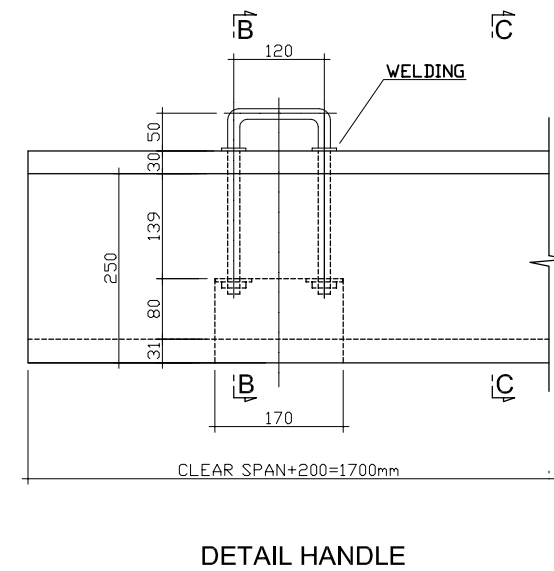
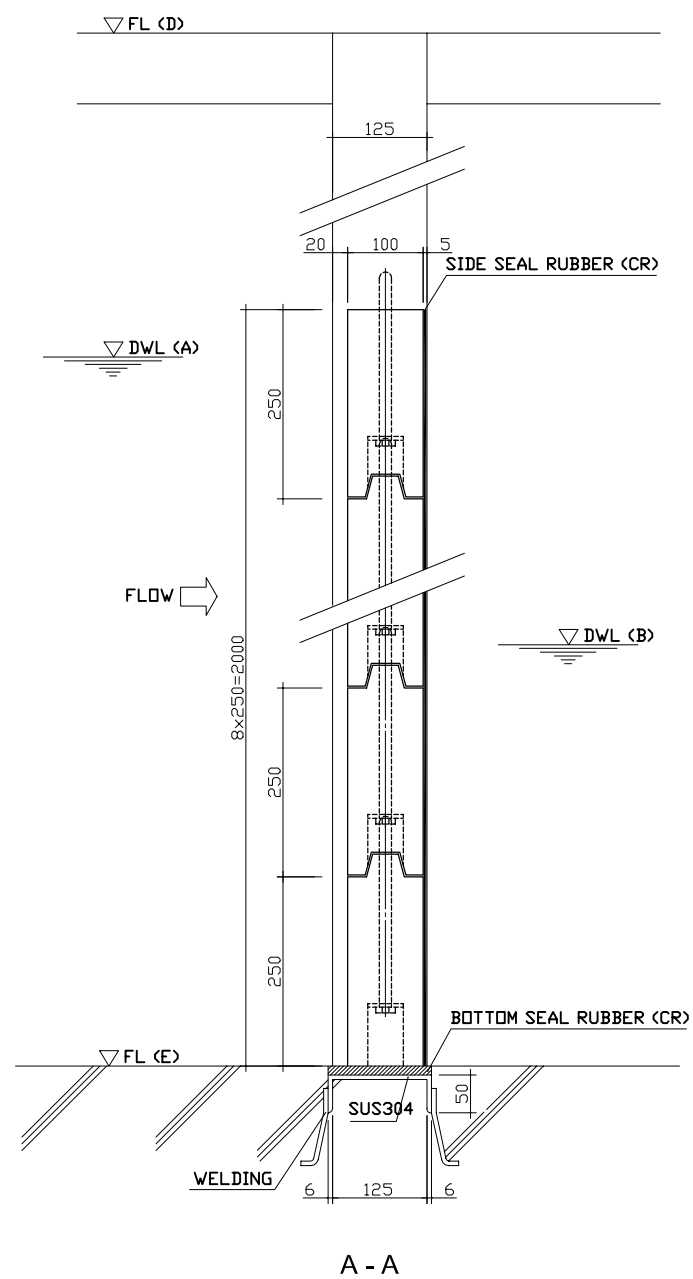
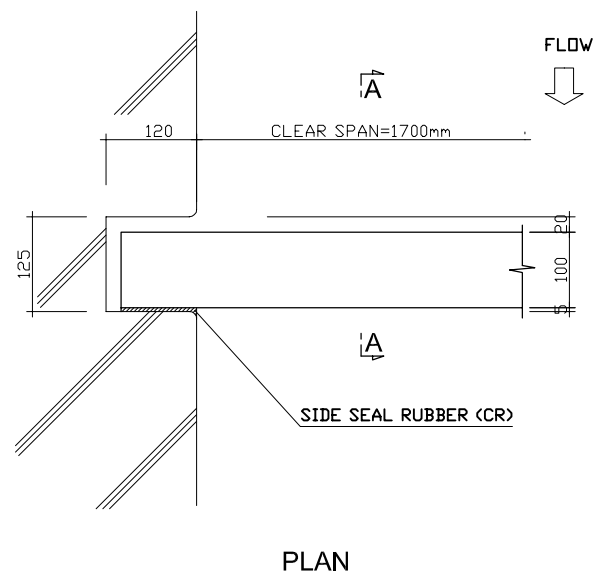
SCALE : AS SHOWN

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DATE : _____ DWG. No. PB - PDI - TD - 407



SPECIFICATION	INLET STOP LOG
TYPE	WOODEN, FABRICATE
CLEAR SPAN x HEIGHT	1500mmW x 310mmH
Q'TY - GUIDE FRAME	2sets
- GATE LEAF	1set (8 pcs/set)
DESIGN DEPTH (H)	2.00m
WATERTIGHT	3-SIDE, RUBBER SEALED
PRINCIPAL MATERIAL	GATE - WOODEN
OPERATION	BY HAND
LEVEL	
DWL (A)	+0.90
DWL (B)	-1.00
FL (D)	+1.60
FL (E)	-1.50

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REVISIONS

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PACKAGE B
PUMP DRAINAGE IMPROVEMENT
THANH DA PUMPING STATION
DETAILS OF STOP LOG

SCALE : 1/5

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AGENCY (JICA)

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DESIGNED CHECKED

DATE : DWG. No. PB - PDI - TD - 408

