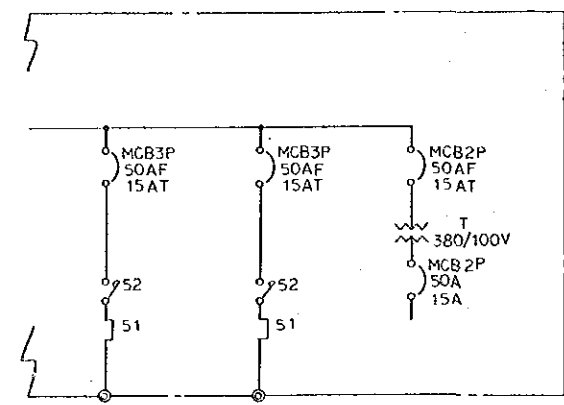
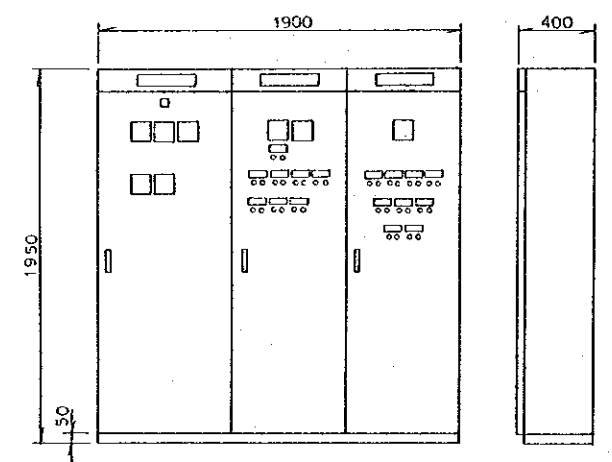
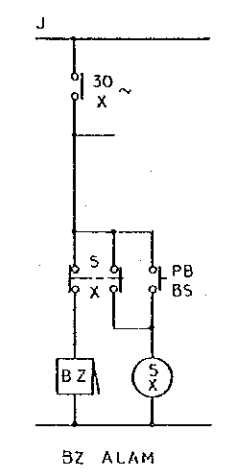
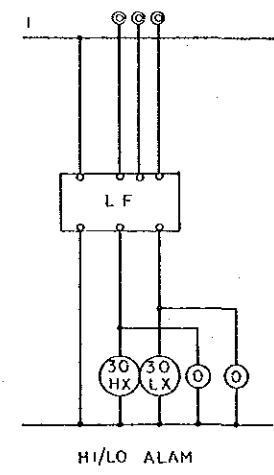
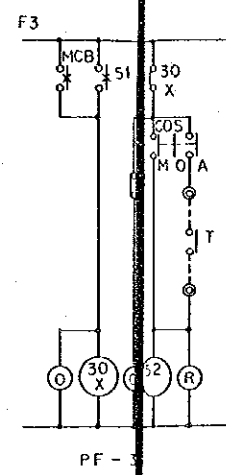
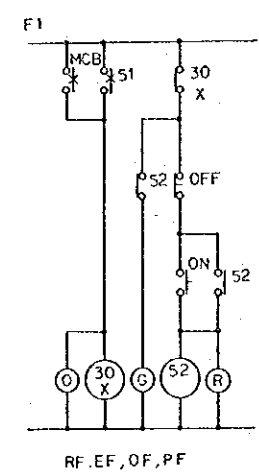


SYMBOL	PAC - 1			PAC - 2		RAF - 1	OF - 1	OF - 2	OF - 3	PF - 1	PF - 2	PF - 3
CAPACITY(KW)	15	28.65	36.25	5.5	28.65	15	0.4 x 4	0.1 x 2	0.025	0.4 x 4	0.1 x 2	0.1
CIRCUIT DIAGRAM						F 1	F 1 (x 4)	F 1 (x 2)	F 1	F 1 (x 4)	F 1 (x 2)	F 3



SYMBOL	PF - 4	PF - 5		
CAPACITY(KW)	0.05	0.025		
CIRCUIT DIAGRAM	F 1	F 1	I, J	



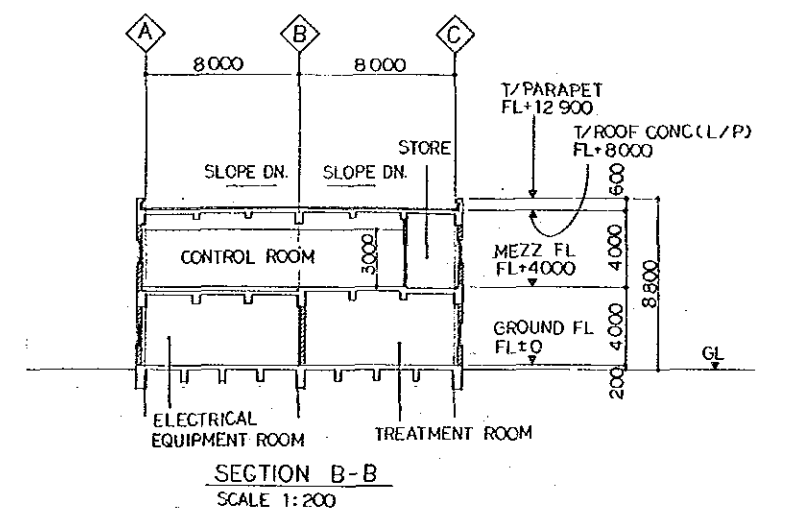
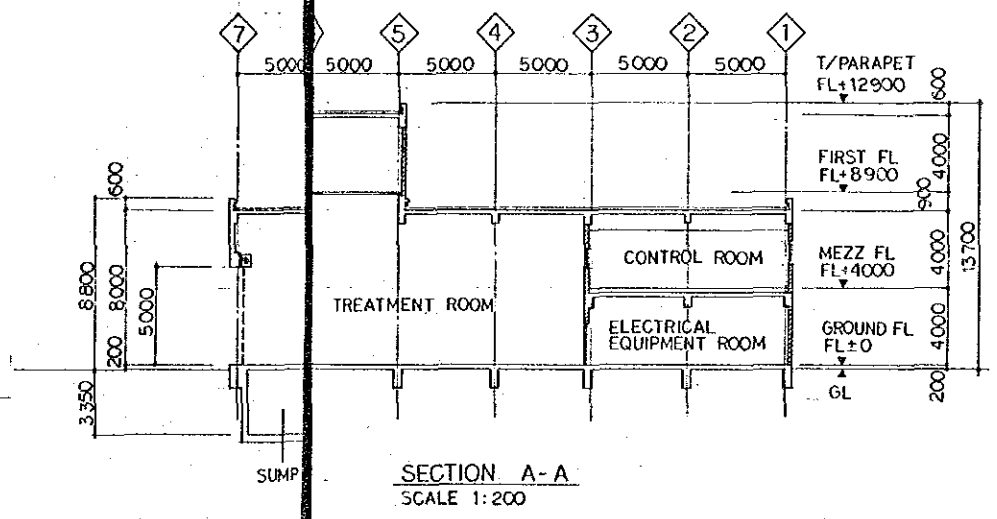
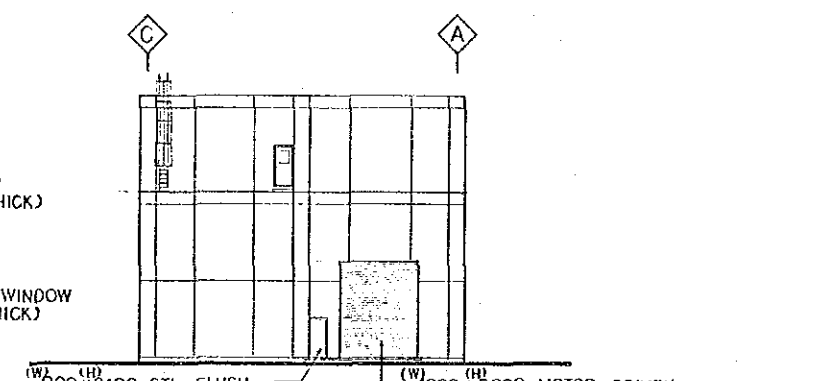
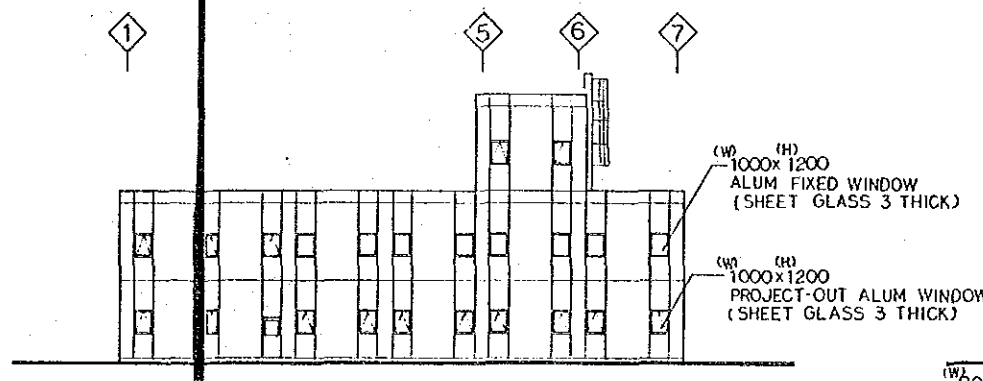
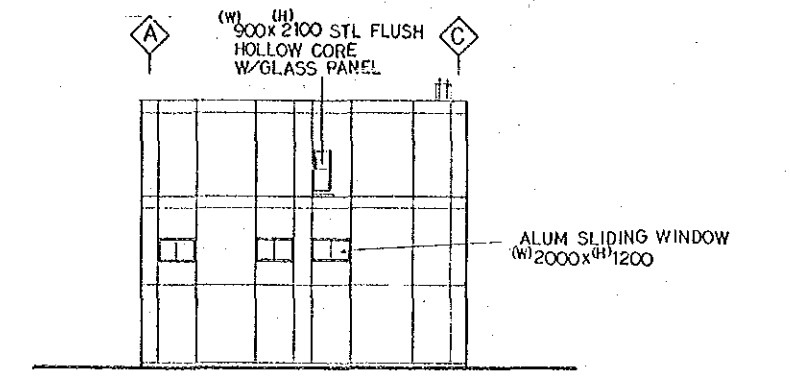
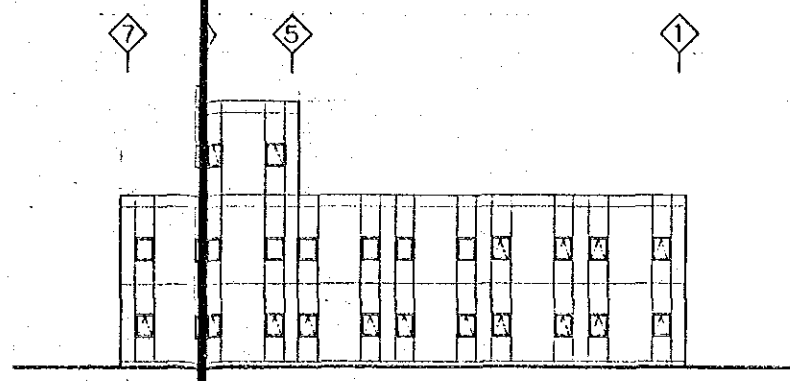
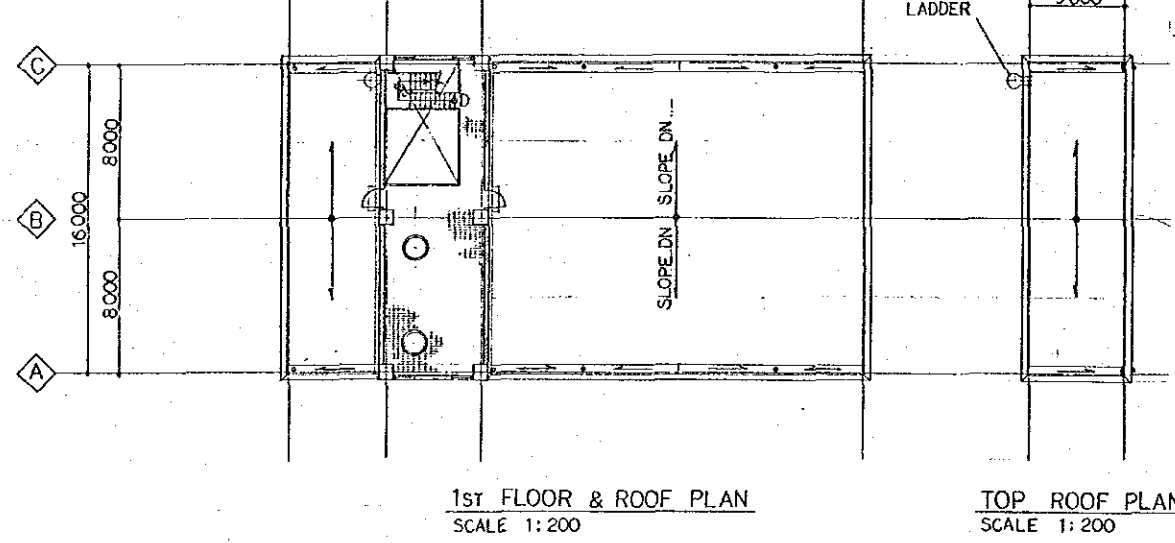
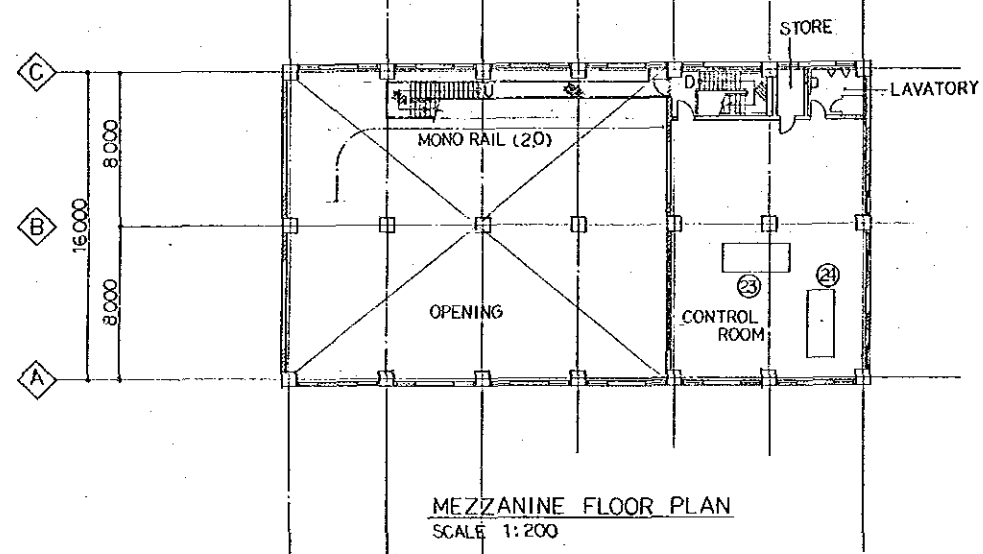
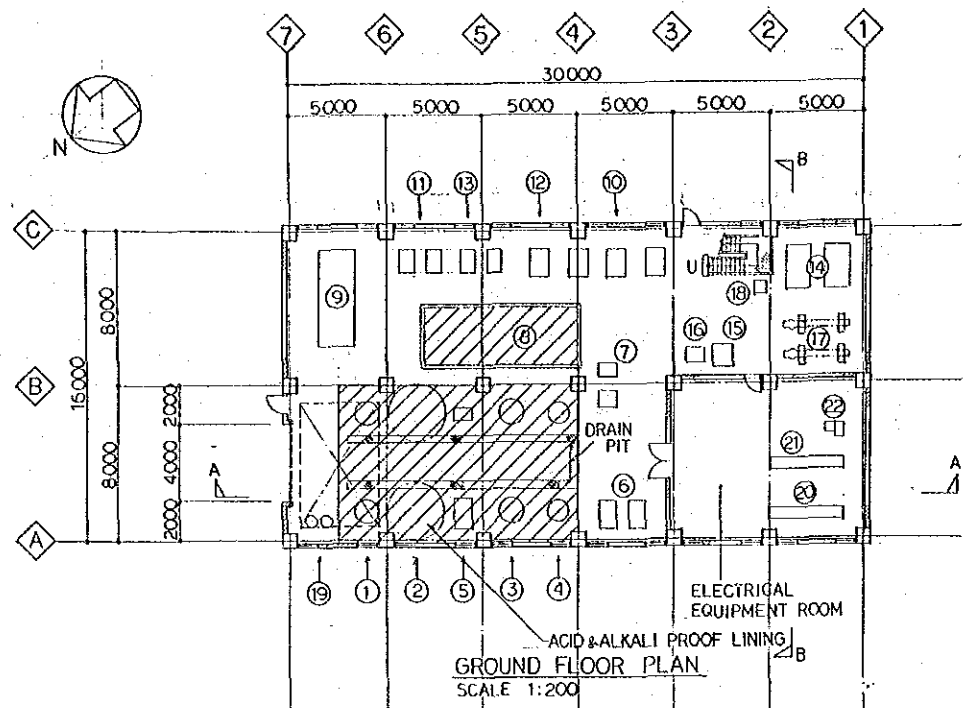
ACP - 1

PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION

WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
ADMINISTRATION BUILDING
AUTOMATIC CONTROL & SECONDARY WIRING
SECONDARY WIRING DIAGRAM

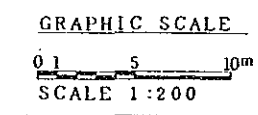
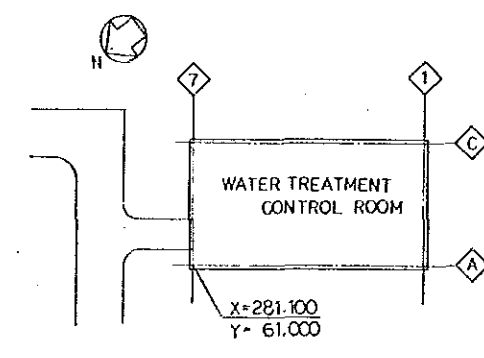
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

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DRAWING NO. WAT-1534		SCALE 1of to scale	DATE DEC 1989



EQUIPMENT LIST

NO.	ITEM	TON	NO.	ITEM	TON
①	CATION TOWER	30	⑭	AIR COMPRESSOR	20
②	DEGASSING TOWER	1.5	⑮	AIR RECEIVER	0.5
③	ANION TOWER	3.5	⑯	AIR DRYER	0.2
④	MIXED-BED TOWER	2.5	⑰	AFTER COOLER	0.4
⑤	BOOSTER P	0.2/E	⑱	CONTROL PANEL	0.3
⑥	VACUUM P	1.2/E	⑲	SUMP P	0.5/E
⑦	MIXING BLO	0.2/E	⑳	PLANT WTR TREAT.C/C	4.0
⑧	CHEM INJ EQUIP	4.2	㉑	WASTE WTR TREAT.C/C	4.0
⑨	FRESH WTR FIRE	5.0	㉒	LIGHTING & MISC. D/P	2.0
⑩	DEMI WTR TRANS	0.6/E	㉓	PLANT WTR TREAT CONTROL PANEL	2.0
⑪	WT SUPPLY P	0.3/E	㉔	WASTE WTR TREAT CONTROL PANEL	2.0
⑫	SWP	0.3/E			
⑬	REGENERATION WT	0.2/E			

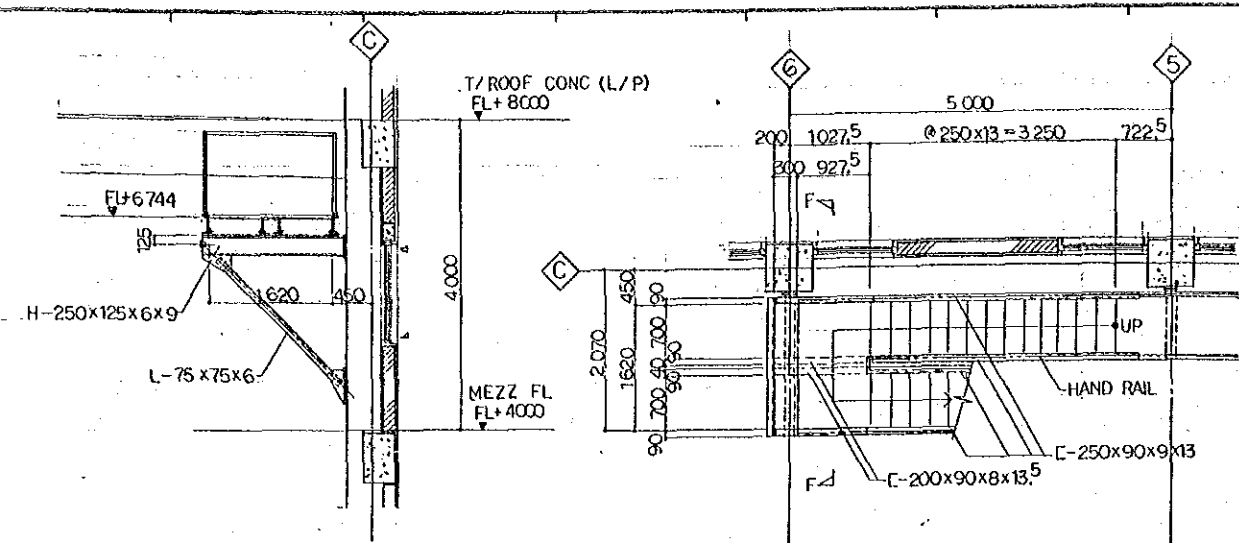


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WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
AUXILIARY BLDG. & OUTDOOR EQUIP. FOUNDATIONS
WATER TREATMENT CONTROL ROOM
ARCHITECTURAL DRAWING - SHT - 1

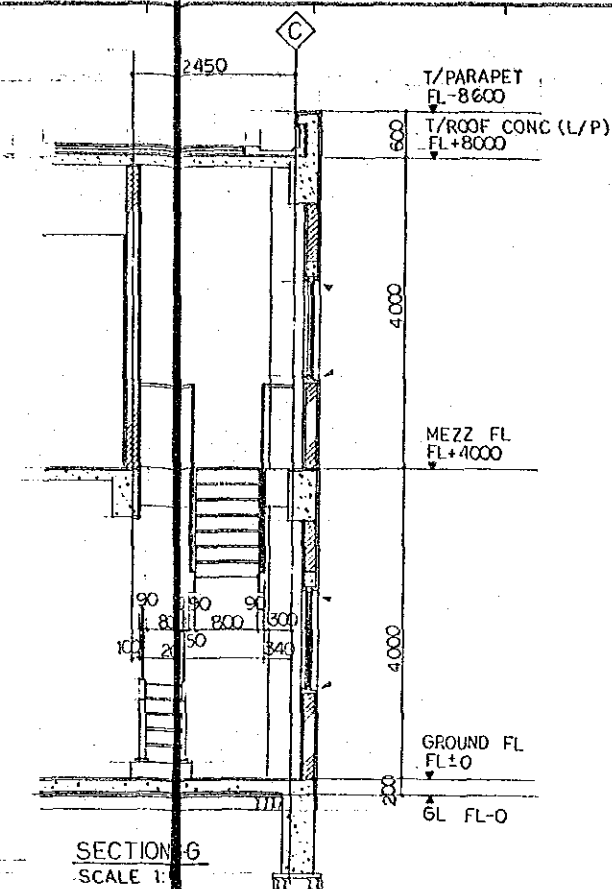
JAPAN INTERNATIONAL COOPERATION AGENCY
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DRAWING NO. WAT-1605		SCALE 1:200	DATE 10. JAN. 1990

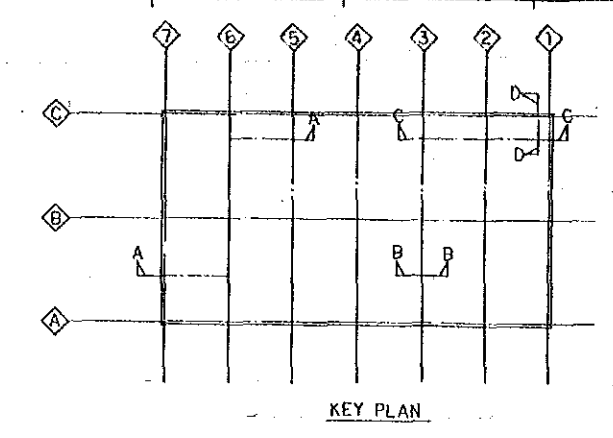


SECTION F-F
SCALE 1:50

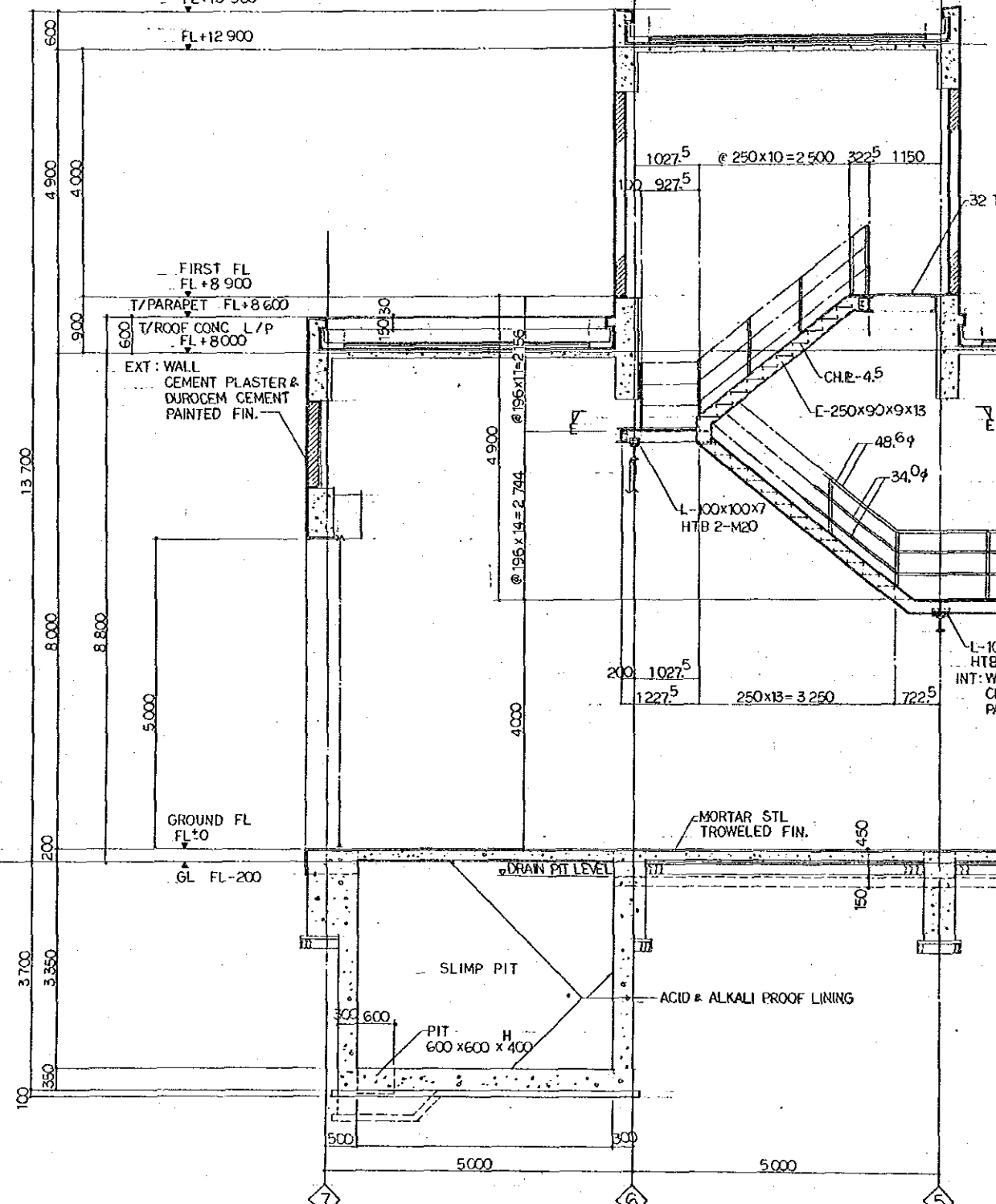
SECTION E-E
SCALE 1:50



SECTION G
SCALE 1:50

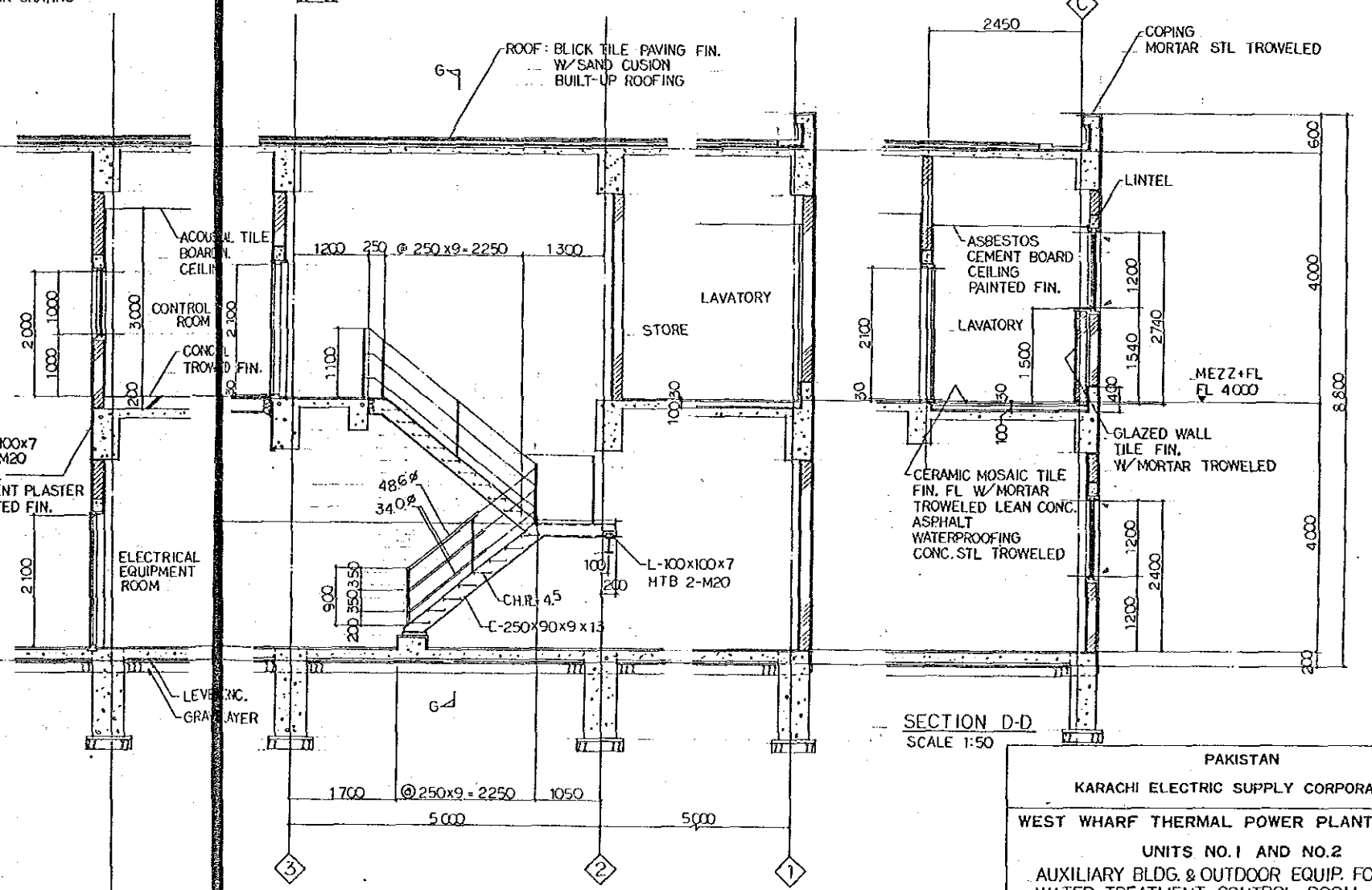


KEY PLAN



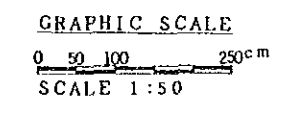
SECTION A-A
SCALE 1:50

SECTION B-B
SCALE 1:50



SECTION C-C
SCALE 1:50

SECTION D-D
SCALE 1:50

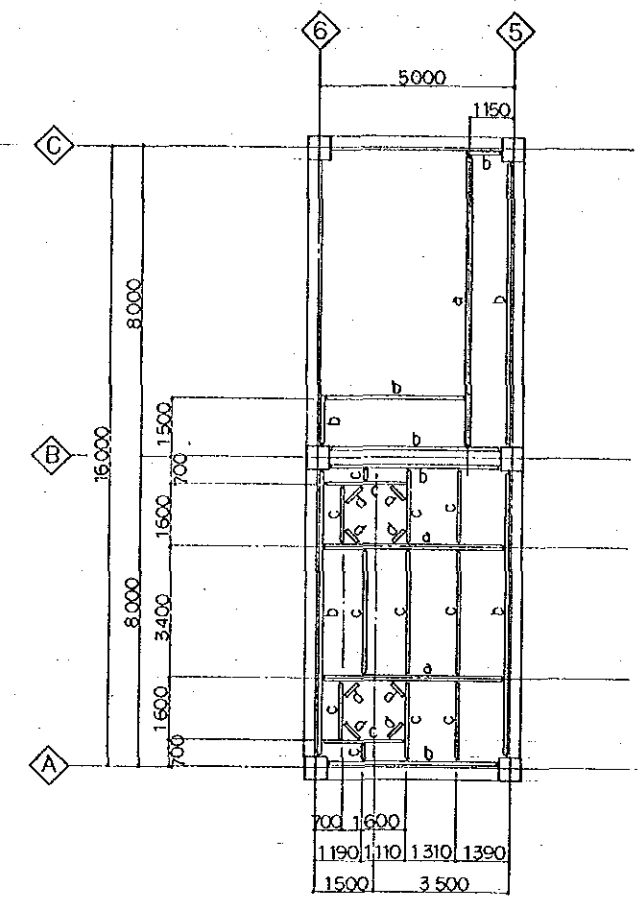
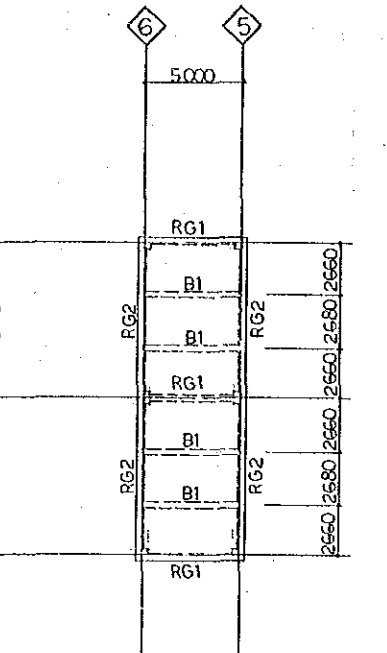
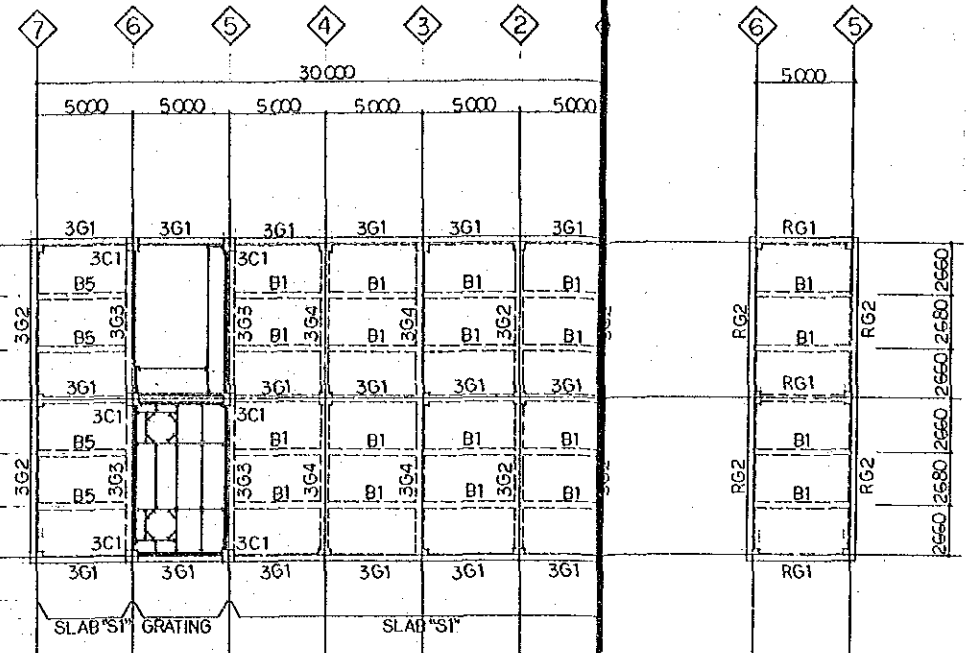
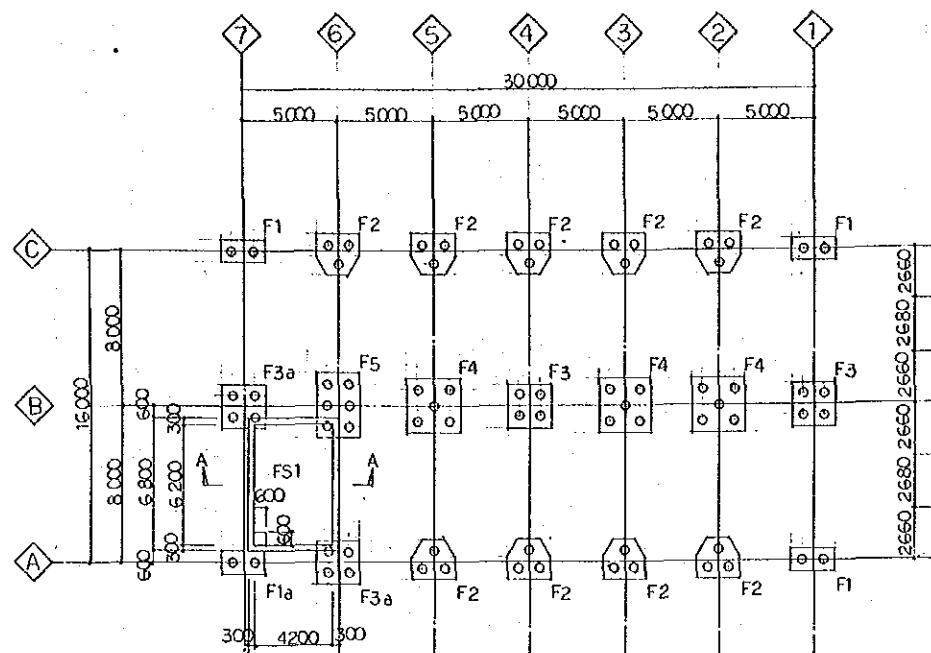


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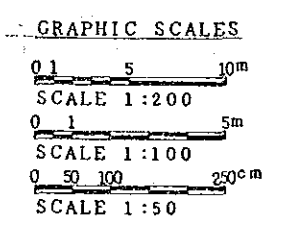
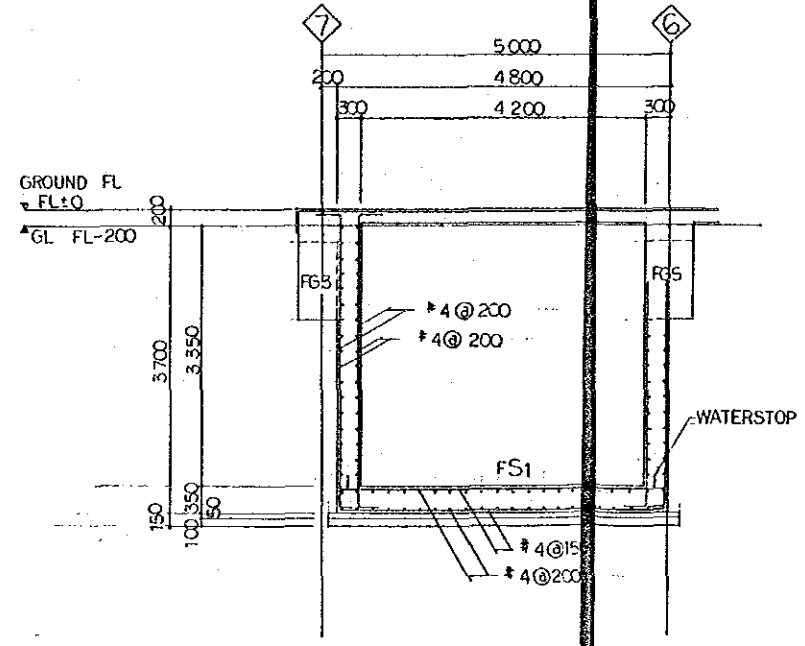
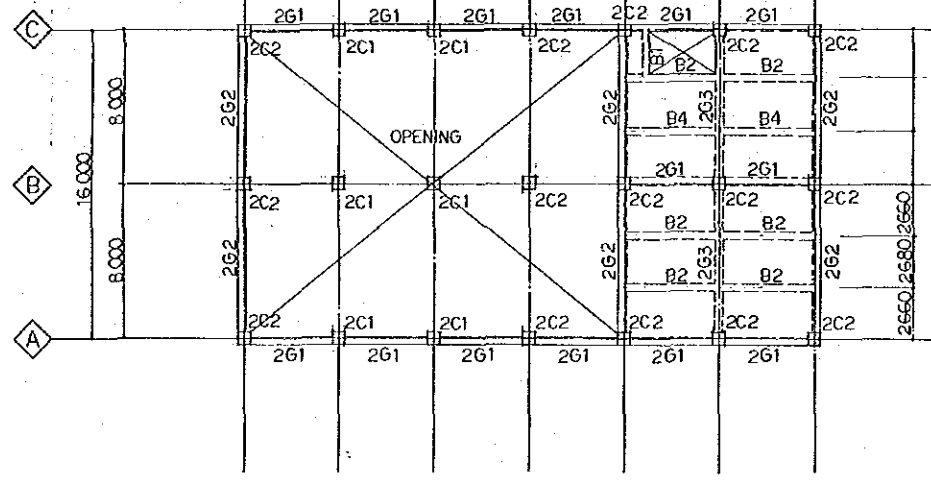
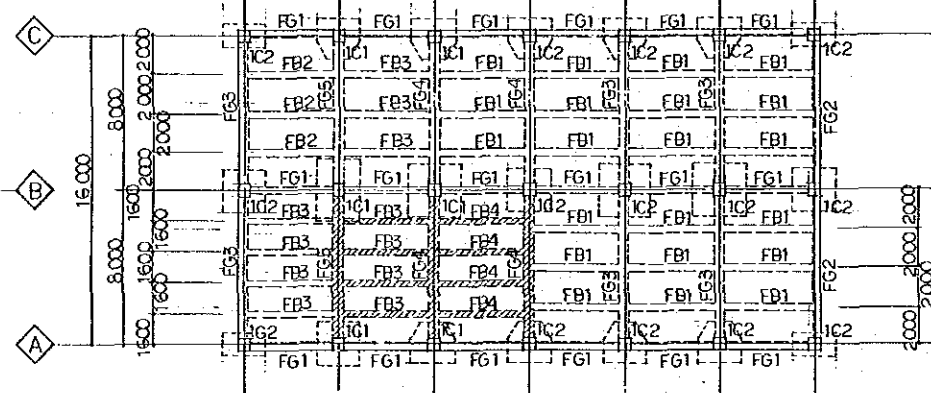
WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
AUXILIARY BLDG. & OUTDOOR EQUIP. FOUNDATIONS
WATER TREATMENT CONTROL ROOM
ARCHITECTURAL DRAWING SHT-2

JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

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DRAWING NO. WAT-1606	SCALE 1:50	DATE 10 JAN. 1990	



MEMBERS LIST	
MARK	MEMBERS
a	H-250 x 125 x 6 x 9
b	C-250 x 90 x 9 x 13
c	C-125 x 65 x 6 x 8
d	L-75 x 75 x 6



PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION
WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
AUXILIARY BLDG. & OUTDOOR EQUIP. FOUNDATIONS
WATER TREATMENT CONTROL ROOM
STRUCTURAL DRAWING SHT - 1
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

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DRAWING NO. WAT-1607	SCALE 1:200	DATE 10 JAN. 1990	

GIRDER LIST				
MARK	RG1		RG2	
	END	CENTER	END	CENTER
SECTION				
TOP	5-#8	3-#8	4-#8	3-#8
WEB	2-#3		2-#3	
BOTTOM	4-#8	3-#8	3-#8	3-#8
STIRRUP	□ #3@150		□ #3@200	

COLUMN LIST		
MARK	1C1	1C2 2C2
	THROUGH	THROUGH
SECTION		
MAIN BAR	#8	10-#8
HOOP	□ #100	□ #3@100
TIE BAR	□ #600	□ #3@600

SLAB LIST								
MARK	THICKNESS	POSITION	TRANSVERSAL BAR			LONGITUDINAL BAR		
			END	CENTER	CORNER	END	CENTER	CORNER
S1	120	TOP	#3#4@200	#3@400	#3@250	#3@250	#3@500	#3@250
		BOTTOM	#3@400	#3@200	#3@250	#3@500	#3@250	#3@250
S2	130	TOP	#3#4@200	#3@400	#3@250	#3@250	#3@500	#3@250
		BOTTOM	#3@400	#3@200	#3@250	#3@500	#3@250	#3@250
S3	150	TOP	#3#4@200			#3@200		
		BOTTOM	#3#4@200			#3@200		
FS1	350	TOP	#4@150			#4@200		
		BOTTOM	#4@150			#4@200		

GIRDER LIST								
MARK	3G1		3G2		3G3		3G4	
	THROUGH	END	CENTER	END	CENTER	OUT END	CENTER	IN END
SECTION								
TOP	4-#8	5-#8	3-#8	7-#8	3-#8	4-#8	3-#8	9-#8
WEB	2-#3	2-#3		2-#3		2-#3		
BOTTOM	4-#8	3-#8	3-#8	7-#8	4-#8	3-#8	4-#8	6-#8
STIRRUP	□ #3@200	□ #3@200		□ #3@100		□ #3@125		

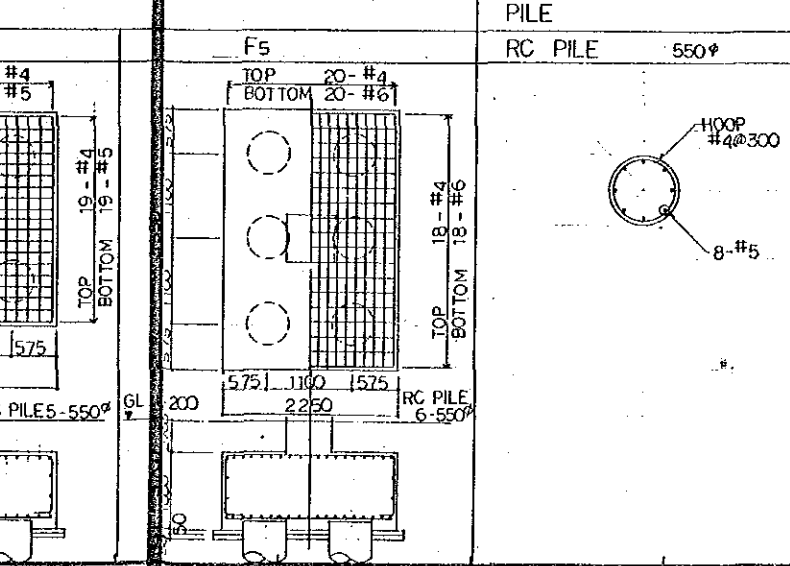
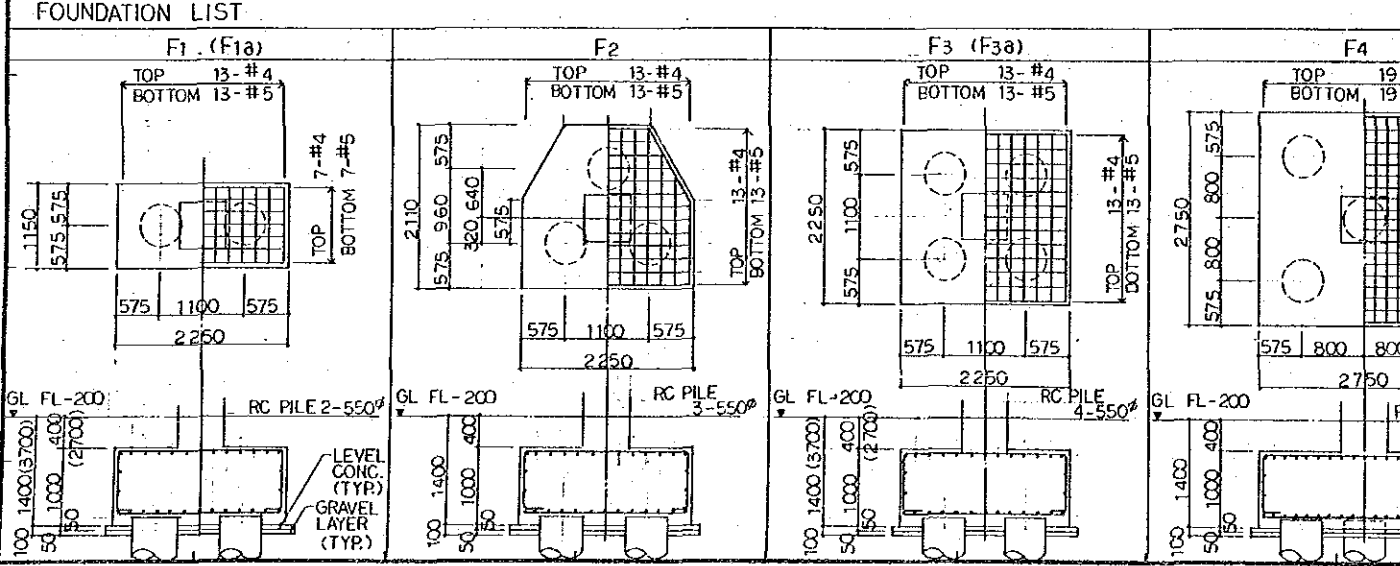
BEAM LIST										
MARK	B1		B2		B3			B4		
	THROUGH	OUT END	CENTER	IN END	OUT END	CENTER	IN END	END	CENTER	
SECTION										
TOP	3-#6	3-#6	3-#6	5-#6	3-#6	3-#6	5-#6	3-#6	3-#6	
WEB	2-#3				2-#3		2-#3			
BOTTOM	3-#6	3-#6	3-#6	3-#6	3-#6	4-#6	3-#6	3-#6	4-#6	
STIRRUP	□ #3@200		□ #3@200		□ #3@200			□ #3@200		

GIRDER LIST							
MARK	2G1		2G2		2G3		
	END	CENTER	END	CENTER	OUT END	CENTER	IN END
SECTION							
TOP	4-#8	3-#8	5-#8	3-#8	5-#8	4-#8	9-#8
WEB	2-#3		2-#3		2-#3		
BOTTOM	3-#8	3-#8	3-#8	3-#8	3-#8	5-#8	7-#8
STIRRUP	□ #3@200		□ #3@200		□ #3@125		

BEAM LIST		
MARK	B5	
	END	CENTER
SECTION		
TOP	3-#6	3-#6
WEB		
BOTTOM	3-#6	4-#6
STIRRUP	□ #3@200	

FOUNDATION GIRDER LIST											
MARK	FG1		FG2		FG3		FG4		FG5		
	THROUGH	THROUGH	OUT END	CENTER	IN END	OUT END	CENTER	IN END	OUT END	CENTER	IN END
SECTION											
TOP	3-#8	5-#8	4-#8	4-#8	7-#8	4-#8	5-#8	12-#8	4-#8	6-#8	14-#8
WEB	2-#3	4-#3	4-#3		4-#3		4-#3				
BOTTOM	3-#8	4-#8	4-#8	4-#8	4-#8	4-#8	7-#8	7-#8	4-#8	8-#8	9-#8
STIRRUP	□ #3@150	□ #3@125	□ #3@125		□ #3@125		□ #3@90		□ #3@70		

BEAM LIST									
MARK	FB1		FB2		FB3		FB4		
	THROUGH	OUT END	CENTER	IN END	END	CENTER	◇ END	CENTER	◇ END
SECTION									
TOP	3-#6	3-#6	3-#6	5-#6	4-#6	3-#6	4-#6	3-#6	7-#6
WEB	2-#3	2-#3		2-#3		2-#3			
BOTTOM	3-#6	3-#6	4-#6	3-#6	3-#6	4-#6	3-#6	5-#6	5-#6
STIRRUP	□ #3@200		□ #3@200		□ #3@200		□ #3@125		

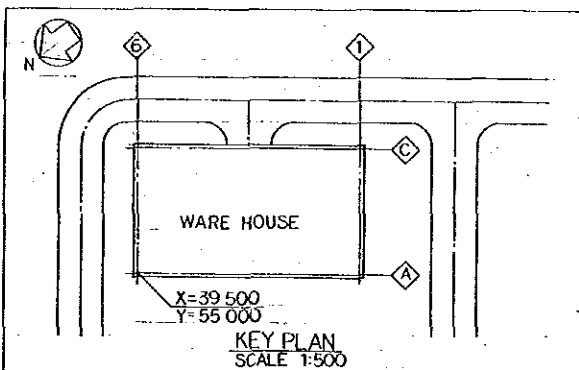
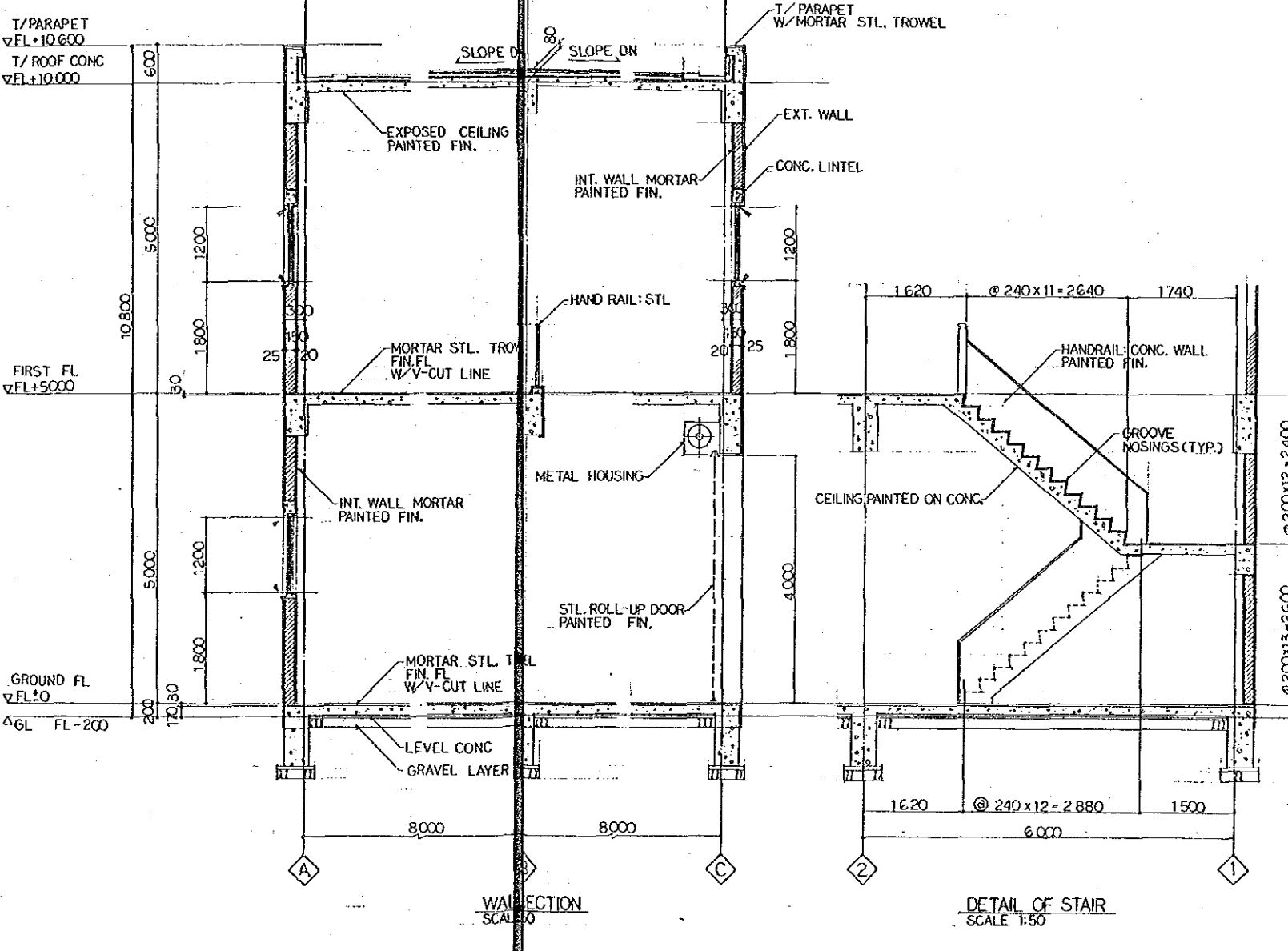
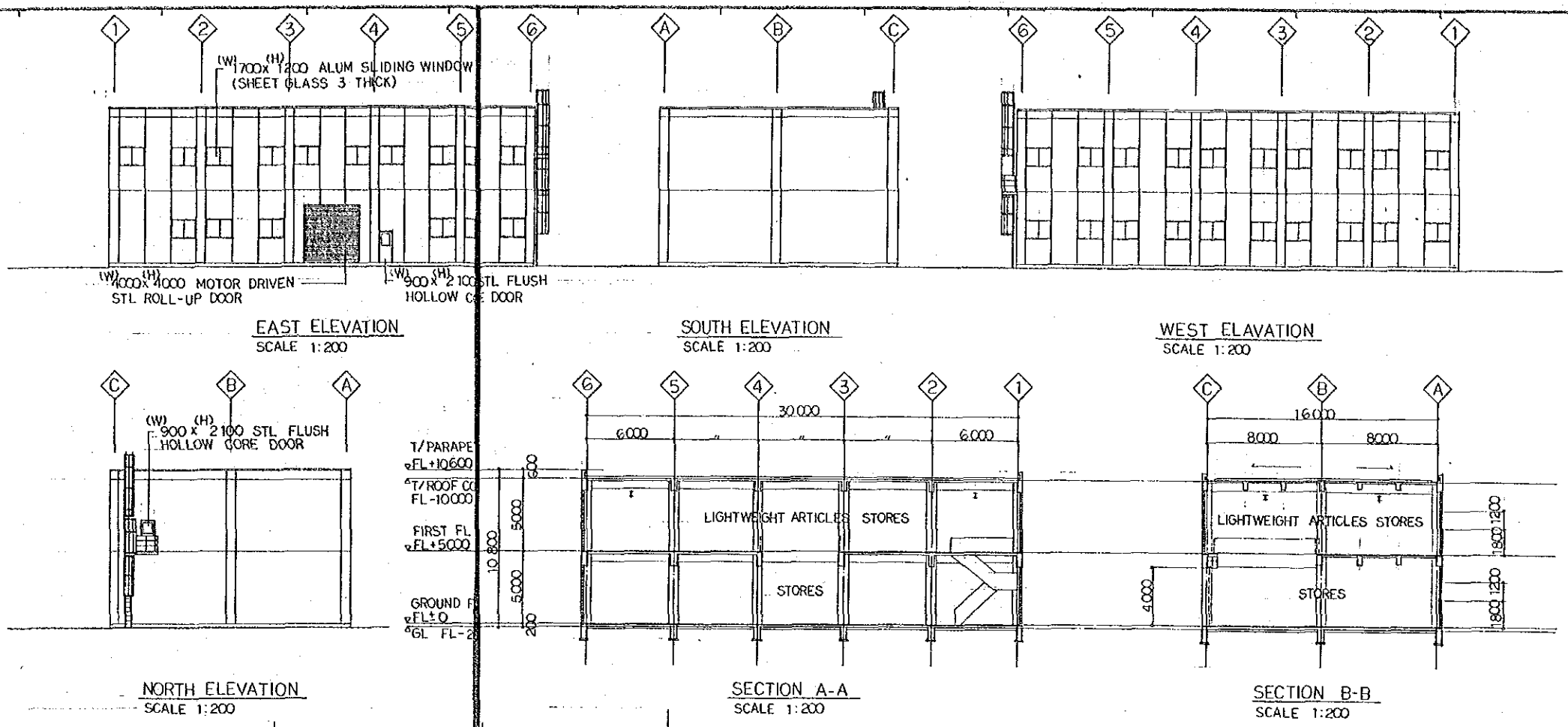
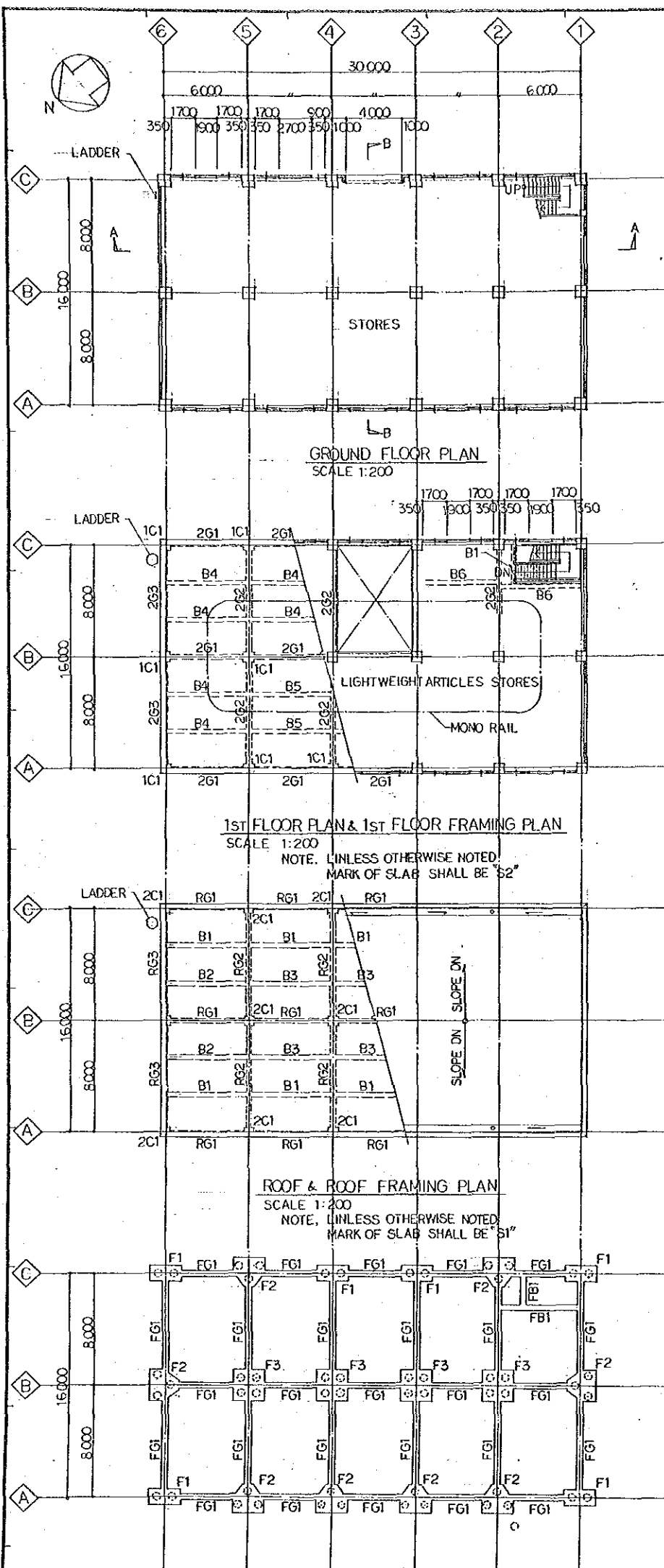


GRAPHIC SCALE
0 50 100 250m
SCALE 1:50

PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION
WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
AUXILIARY BLDG. & OUTDOOR EQUIP. FOUNDATIONS
WATER TREATMENT CONTROL ROOM
STRUCTURAL DRAWING SHI-2

JAPAN INTERNATIONAL COOPERATION AGENCY
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DRAWING NO. WAT-1608	SCALE 1:50	DATE 10 JAN. 1990	



GRAPHIC SCALES

0 1 5 10m
SCALE 1:200

0 50 100 250cm
SCALE 1:50

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KARACHI ELECTRIC SUPPLY CORPORATION
WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
AUXILIARY BLDG. & OUTDOOR EQUIP. FOUNDATIONS
WARE HOUSE
SHT-1

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SCALE 1:200

CHECKED BY: *[Signature]*
SCALE 1:50

DRAWN BY: *[Signature]*
DATE 10 JAN. 1990

GIRDER LIST						
MARK	RG1		RG2		RG3	
	THROUGH	OUT END	CENTER	IN END	END	CENTER
SECTION						
TOP	3-#8	3-#8	3-#8	8-#8	4-#8	3-#8
WEB	2-#3	2-#3		2-#3		
BOTTOM	3-#8	3-#8	4-#8	6-#8	3-#8	3-#8
STIRRUP	#3@200		#3@150		#3@200	

COLUMN LIST			
MARK	1C1	2C1	P
	ROUGH	THROUGH	THROUGH
SECTION			
MAIN BAR	8-#8	8-#8	8-#6
HOOP	#3@100	#3@100	#3@100
TIE BAR	#3@600	#3@600	#3@600

SLAB LIST								
MARK	THICKNESS	POSITION	TRANSVERSAL BAR			LONGITUDINAL BAR		
			END	CENTER	CORNER	END	CENTER	CORNER
S1	120	TOP	#3#4@200	#3@400	#3@250	#3@250	#3@500	#3@250
		BOTTOM	#3@400	#3@200	#3@250	#3@500	#3@250	#3@250
S2	130	TOP	#3#4@200	#3@400	#3@200	#3@200	#3@400	#3@200
		BOTTOM	#3@400	#3#4@200	#3@200	#3@400	#3@200	#3@200

GIRDER LIST							
MARK	2G1		2G2		2G3		
	END	CENTER	OUT END	CENTER	IN END	END	CENTER
SECTION							
TOP	4-#8	3-#8	5-#8	4-#8	8-#8	6-#8	3-#8
WEB	2-#3		4-#3		4-#3		
BOTTOM	3-#8	3-#8	3-#8	4-#8	6-#8	3-#8	3-#8
STIRRUP	#3@200		#3@150		#3@150		

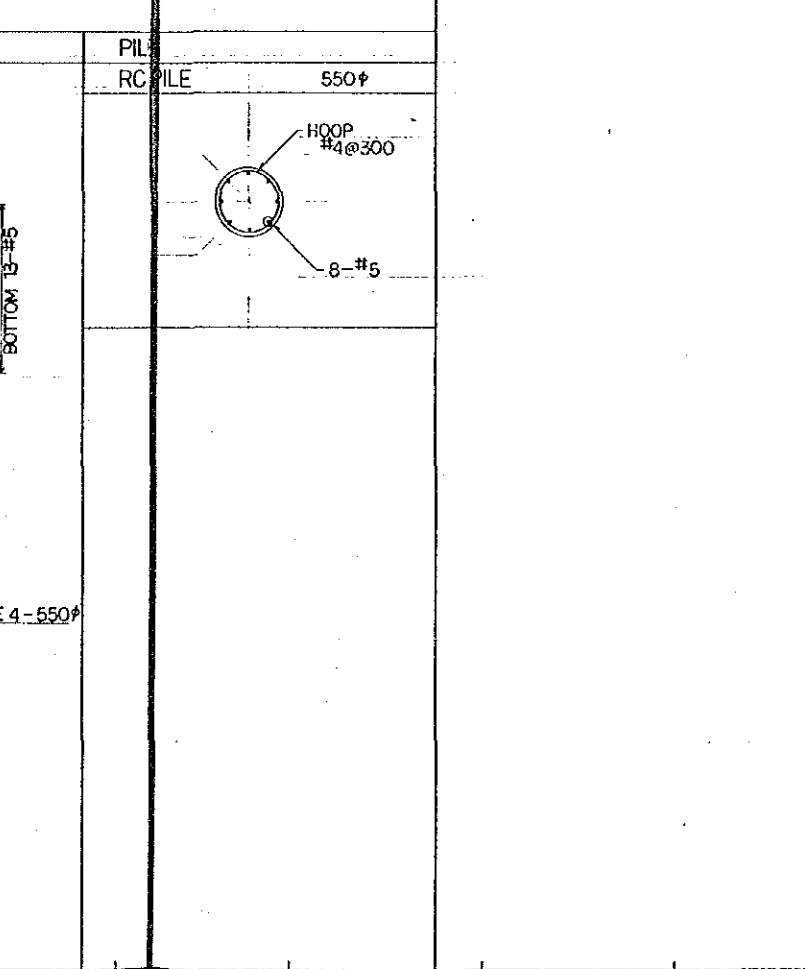
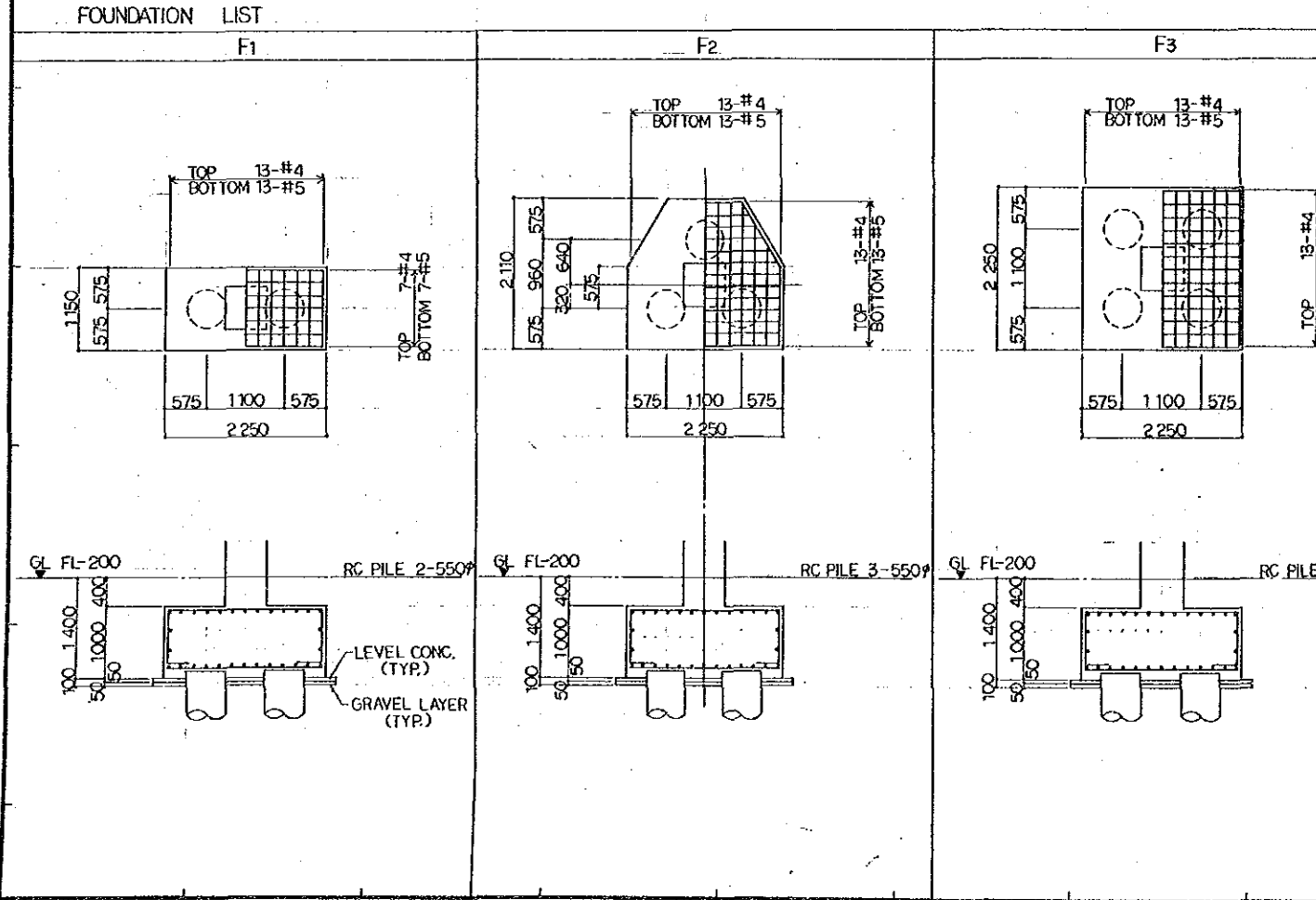
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MARK	B1		B2		B3		B4		
	THROUGH	OUT END	CENTER	IN END	END	CENTER	OUT END	CENTER	IN END
SECTION									
TOP	3-#6	3-#6	3-#6	4-#6	4-#6	3-#6	3-#6	3-#6	5-#6
WEB	2-#3								
BOTTOM	3-#6	3-#6	4-#6	3-#6	3-#6	3-#6	3-#6	4-#6	3-#6
STIRRUP	#3@200		#3@200		#3@200		#3@200		

BEAM LIST					
MARK	B5		B6		
	END	CENTER	OUT END	CENTER	IN END
SECTION					
TOP	4-#6	3-#6	3-#6	3-#6	6-#6
WEB	2-#3		2-#3		
BOTTOM	3-#6	3-#6	3-#6	4-#6	3-#6
STIRRUP	#3@200		#3@200		

FOUNDATION GIRDER LIST			
MARK	FG1	FB1	
	THROUGH	END	CENTER
SECTION			
TOP	3-#8	3-#6	3-#6
WEB	2-#3	2-#3	
BOTTOM	3-#8	3-#6	4-#6
STIRRUP	#3@150	#3@200	

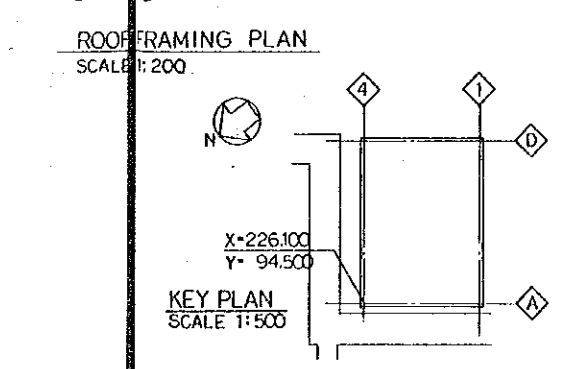
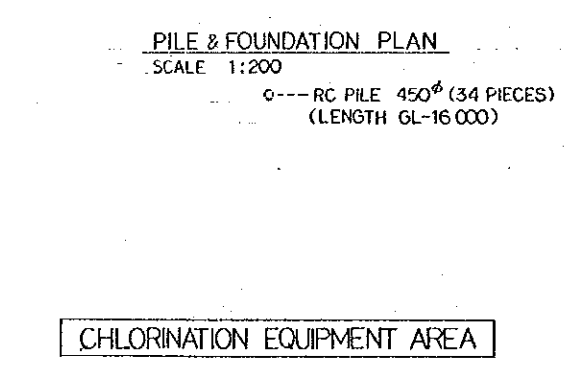
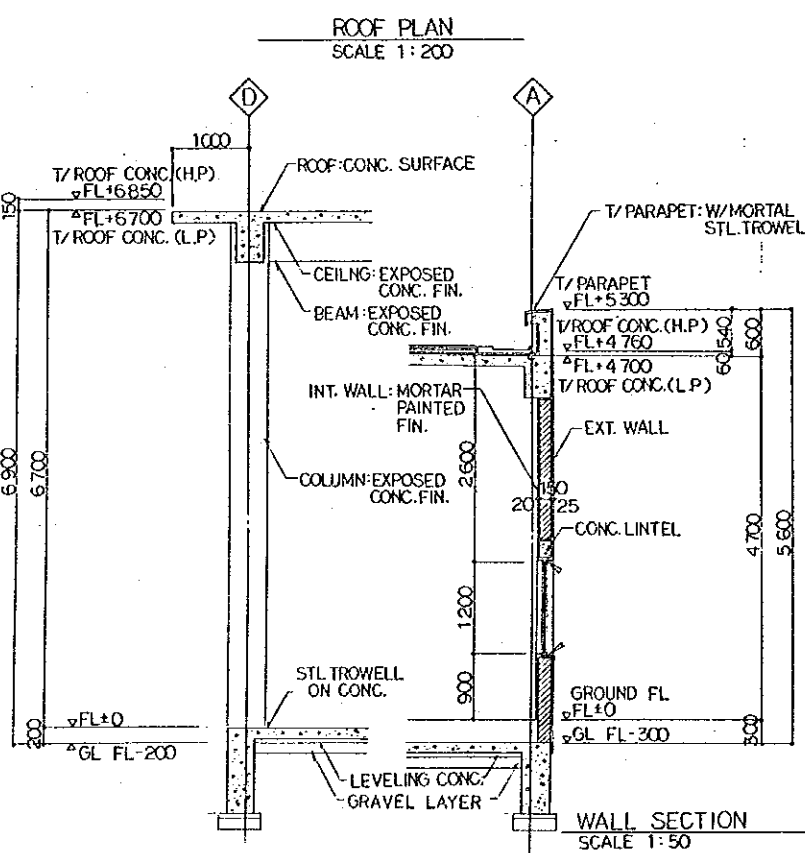
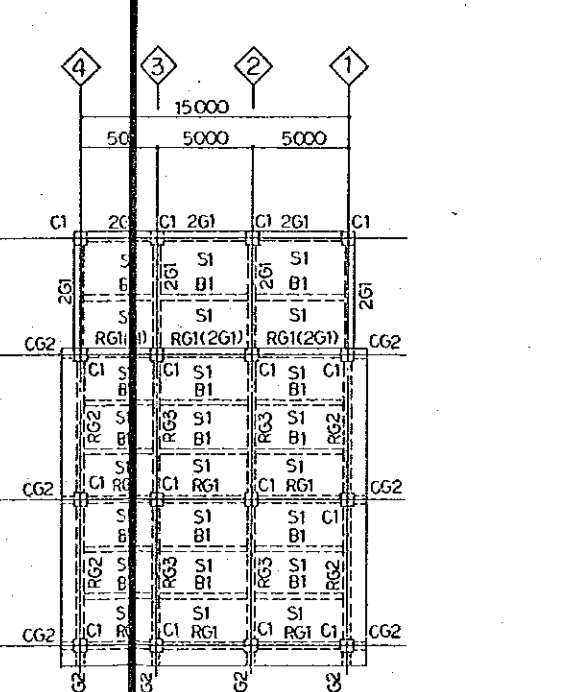
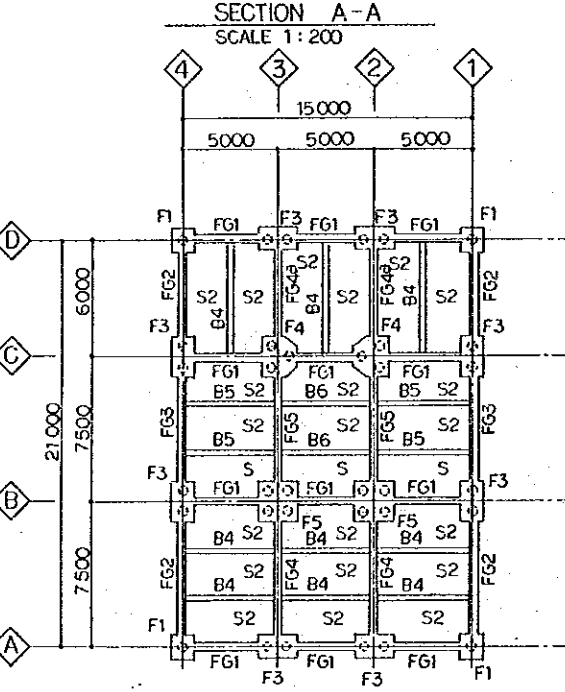
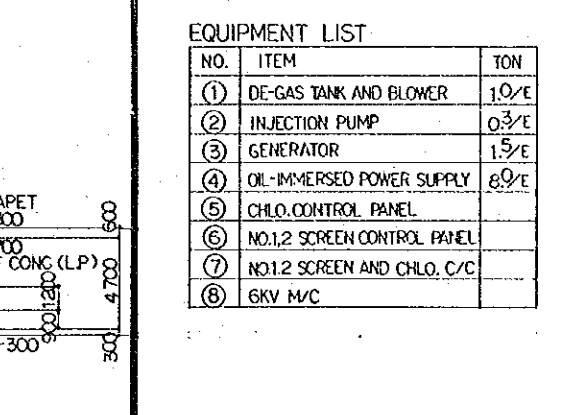
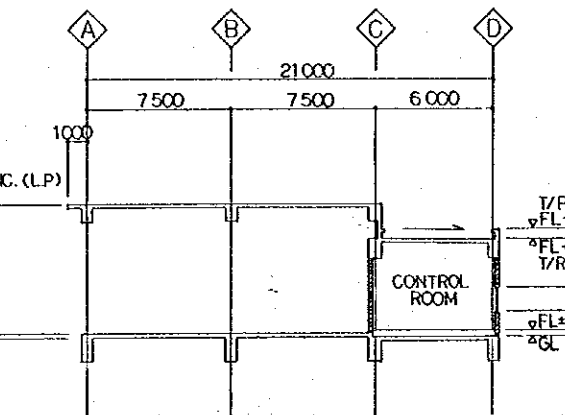
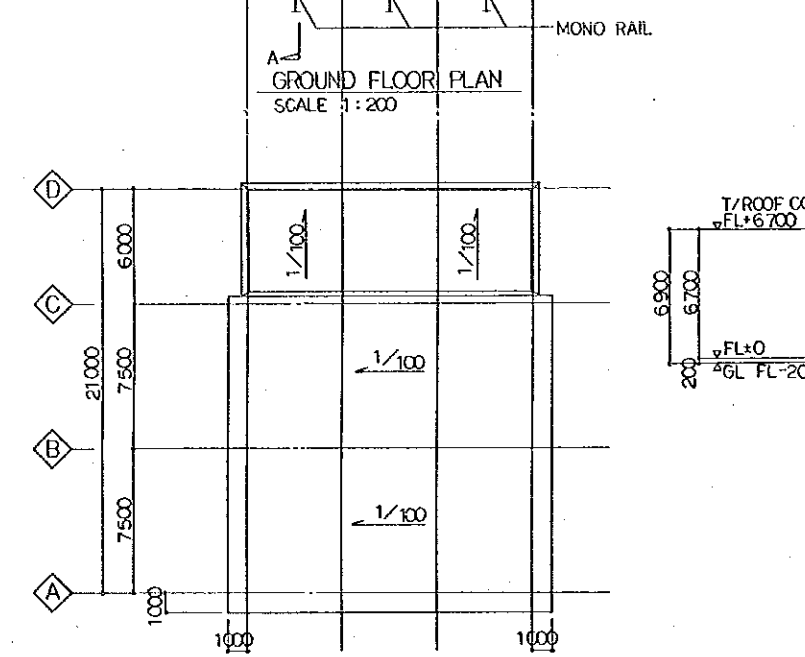
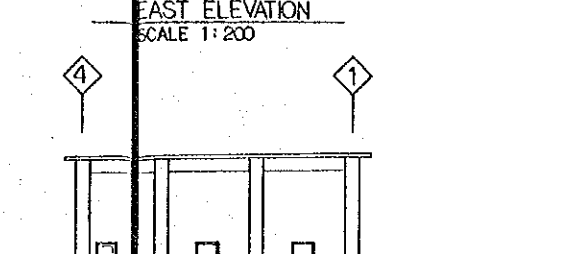
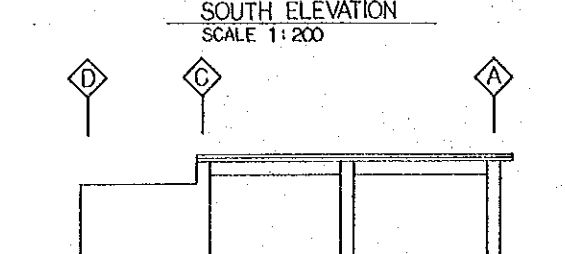
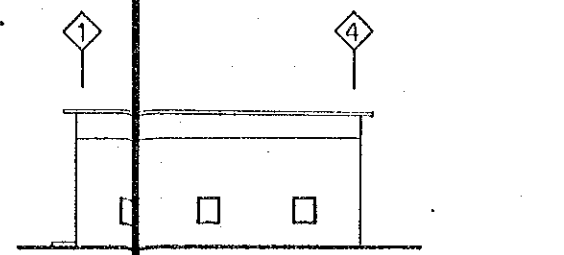
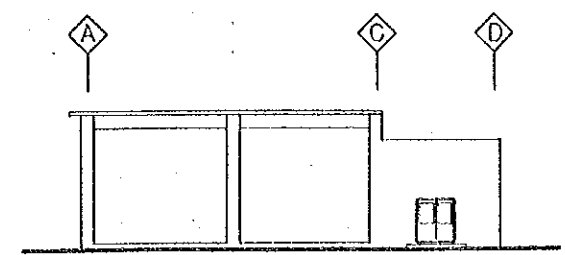
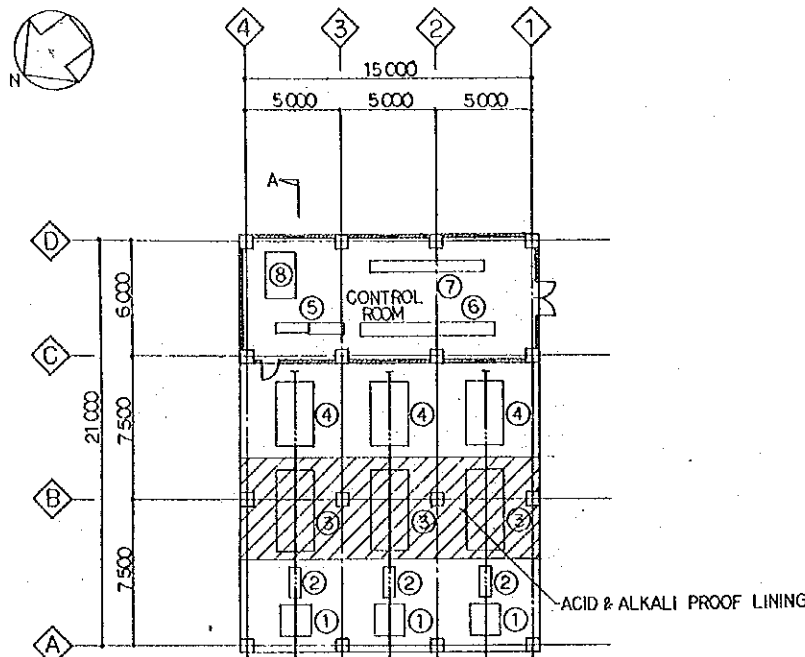
FOUNDATION LIST					
MARK	F1		F2		F3
	THROUGH	END	CENTER	IN END	END
SECTION					
TOP	7-#4	13-#4	13-#4	13-#4	13-#4
BOTTOM	7-#4	13-#5	13-#5	13-#5	13-#5
STIRRUP	#3@150	#3@200	#3@200	#3@200	#3@200

PIL	
MARK	RC PILE
	550φ
SECTION	
	HOOP #4@300
	8-#5



GRAPHIC SCALE
 0 50 100 250 cm
 SCALE 1:50

PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
AUXILIARY BLDG. & OUTDOOR EQUIP. FOUNDATIONS			
WARE HOUSE			
SHT-2			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY	REVIEWED BY	CHECKED BY	DRAWN BY
DRAWING NO	SCALE	DATE	
WAT-1610	1:50	10 JAN. 1990	

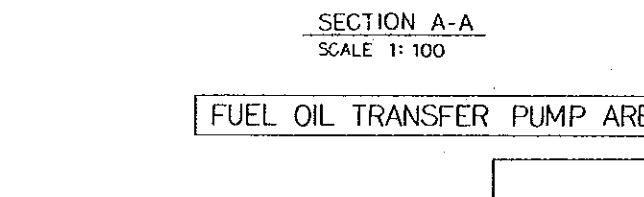
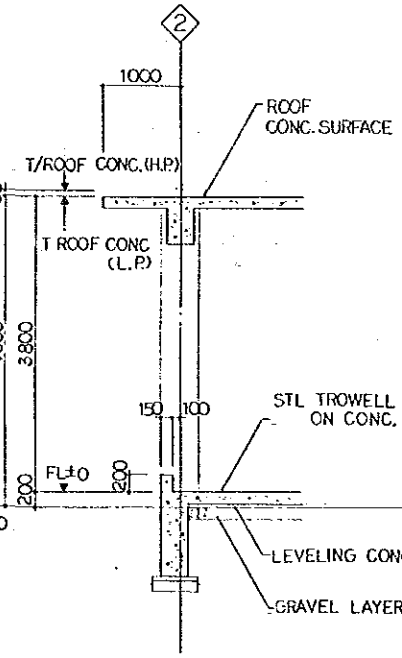
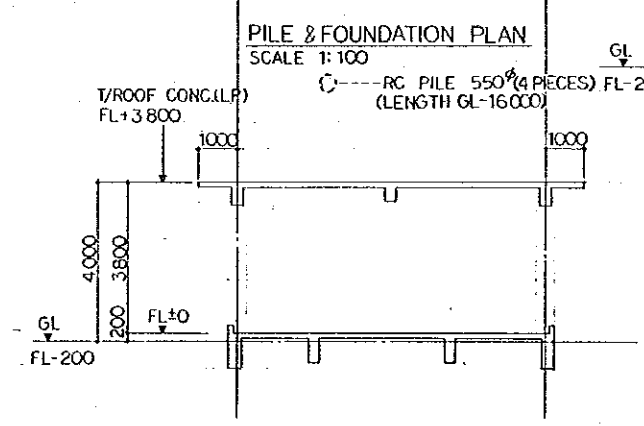
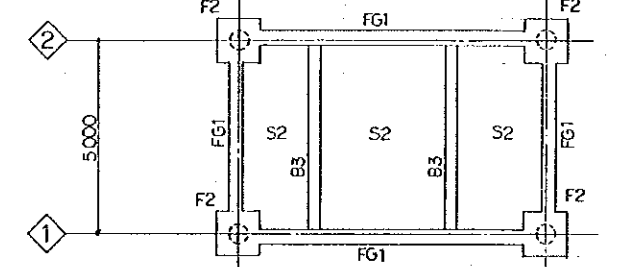
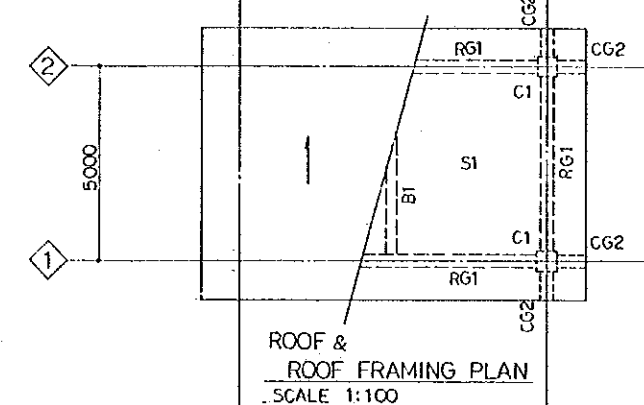
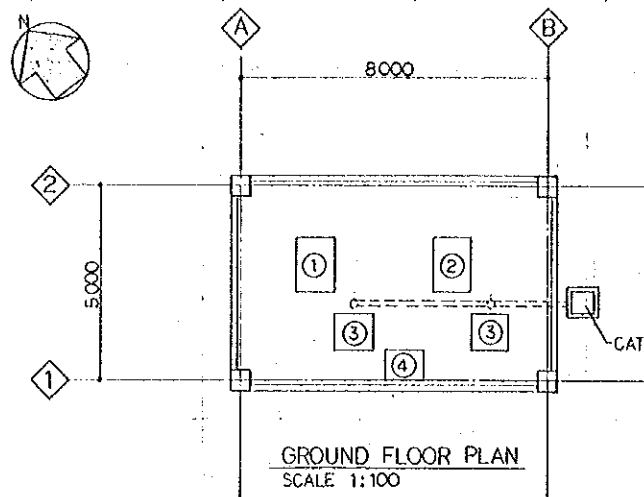


EQUIPMENT LIST

NO.	ITEM	TON
①	DE-GAS TANK AND BLOWER	10/E
②	INJECTION PUMP	0.3/E
③	GENERATOR	1.5/E
④	OIL-IMMERSED POWER SUPPLY	6.0/E
⑤	CHLO. CONTROL PANEL	
⑥	NO.1,2 SCREEN CONTROL PANEL	
⑦	NO.1,2 SCREEN AND CHLO. C/C	
⑧	GKV M/C	

EQUIPMENT LIST

NO.	ITEM	TON
①	NO.1 R.O. TRANSFER P	1.2
②	NO.2 R.O. TRANSFER P	1.2
③	R.O. STRAINER	10/E
④	AIR CHAMBER	1.0



GRAPHIC SCALES

0 1 5 10m
SCALE 1:200

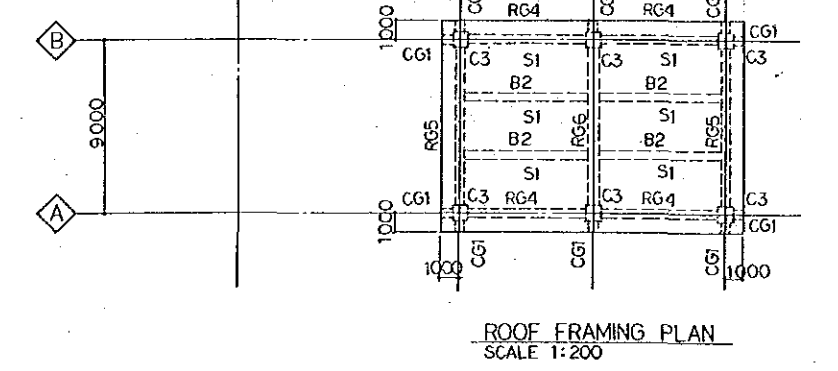
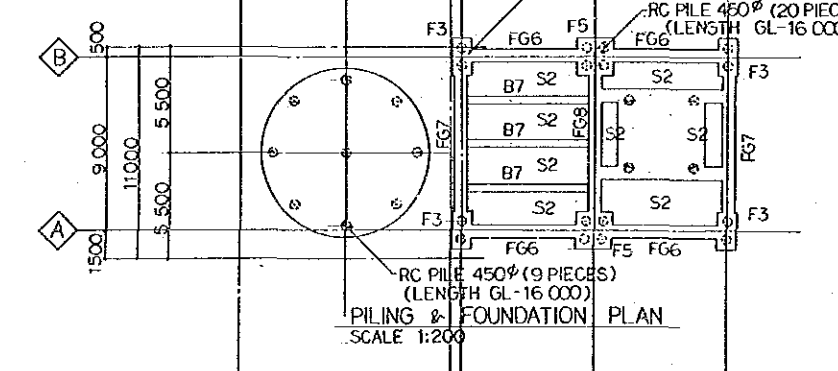
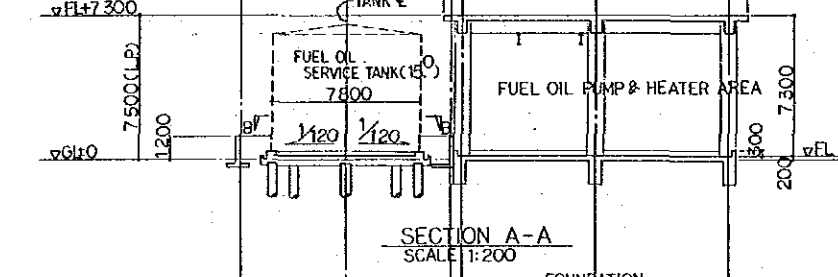
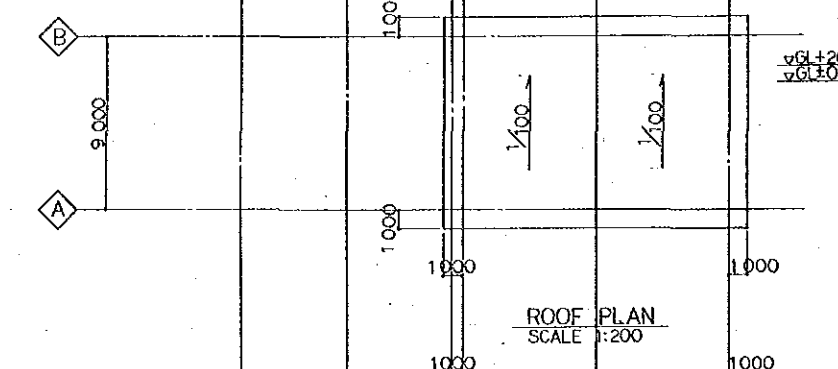
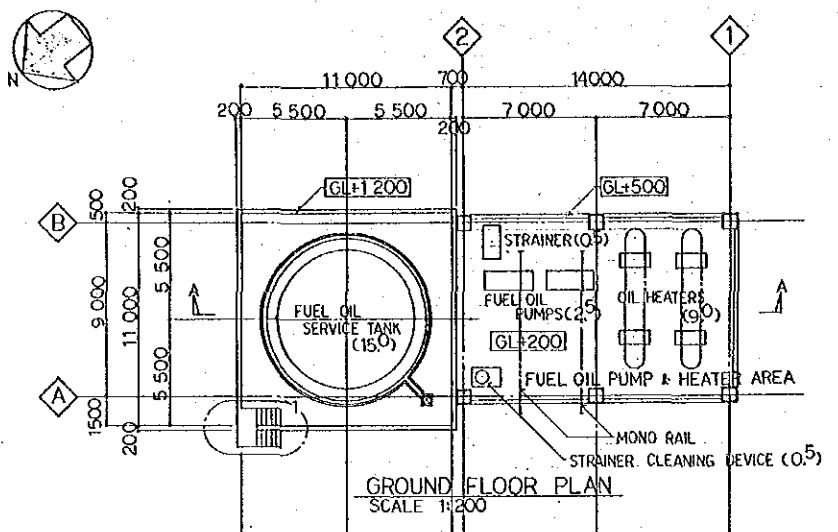
0 1 5m
SCALE 1:100

0 50 100 250cm
SCALE 1:50

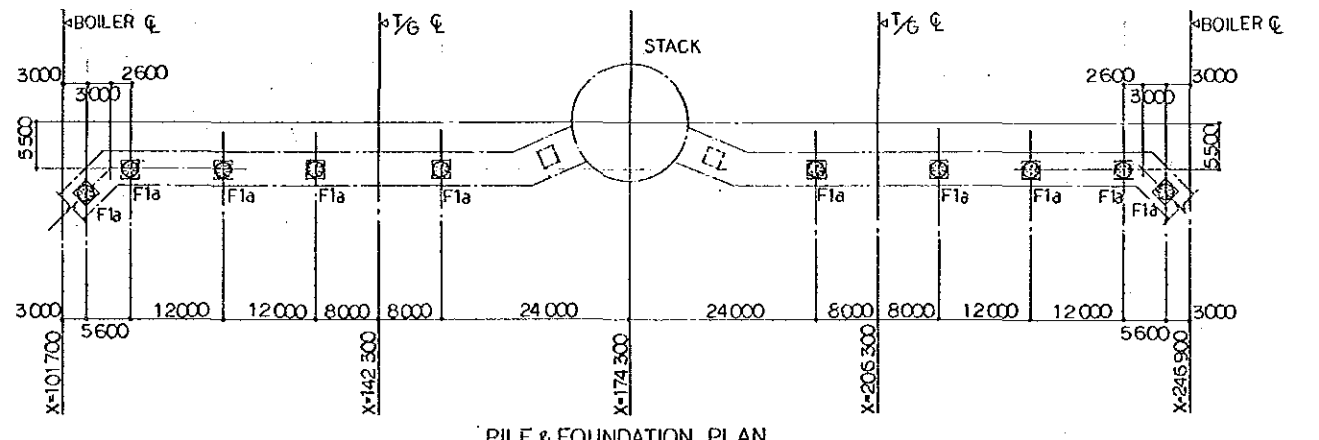
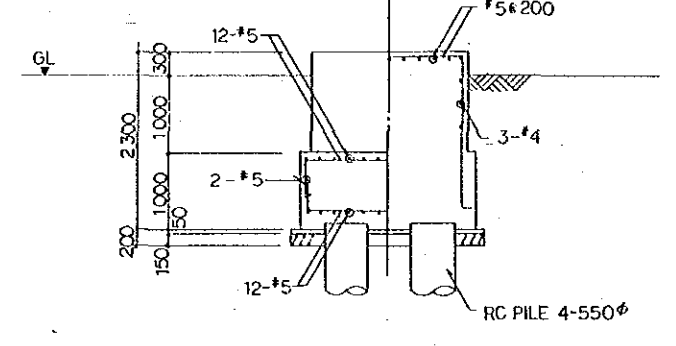
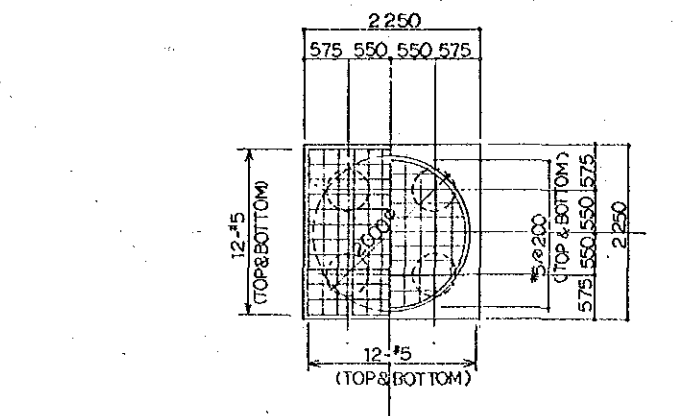
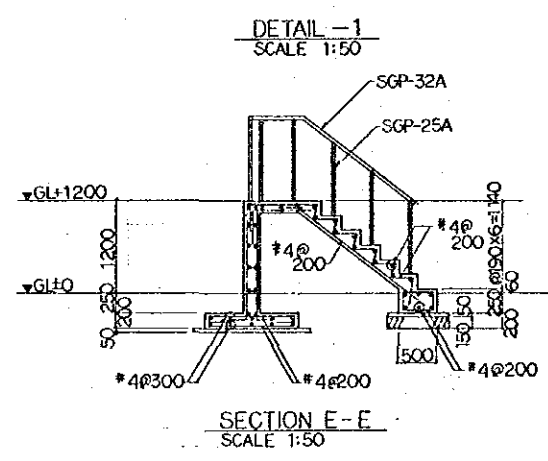
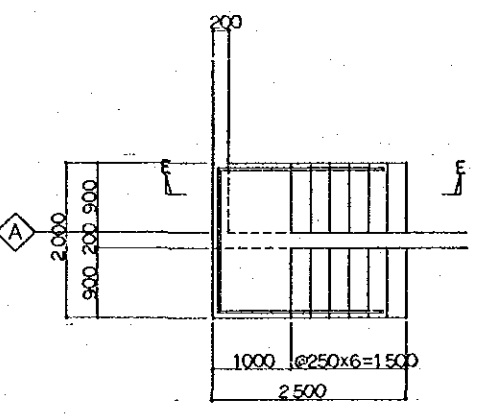
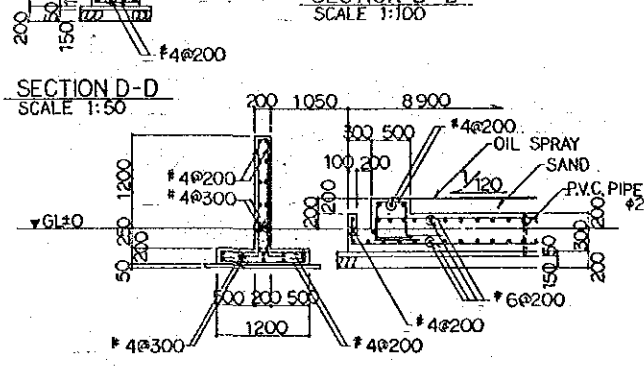
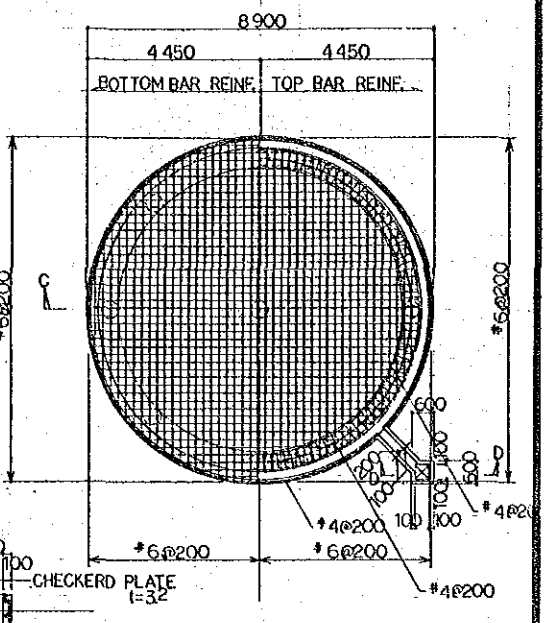
PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION
WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
AUXILIARY BLDG. & OUTDOOR EQUIP. FOUNDATIONS
CHLORINATION EQUIP. AREA &
FUEL OIL TRANSFER PUMP AREA
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

APPROVED BY: [Signature]
REVIEWED BY: [Signature]
CHECKED BY: [Signature]
DRAWN BY: [Signature]

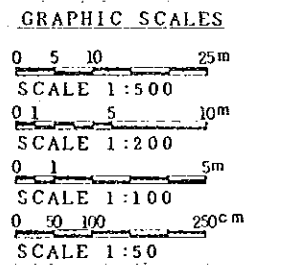
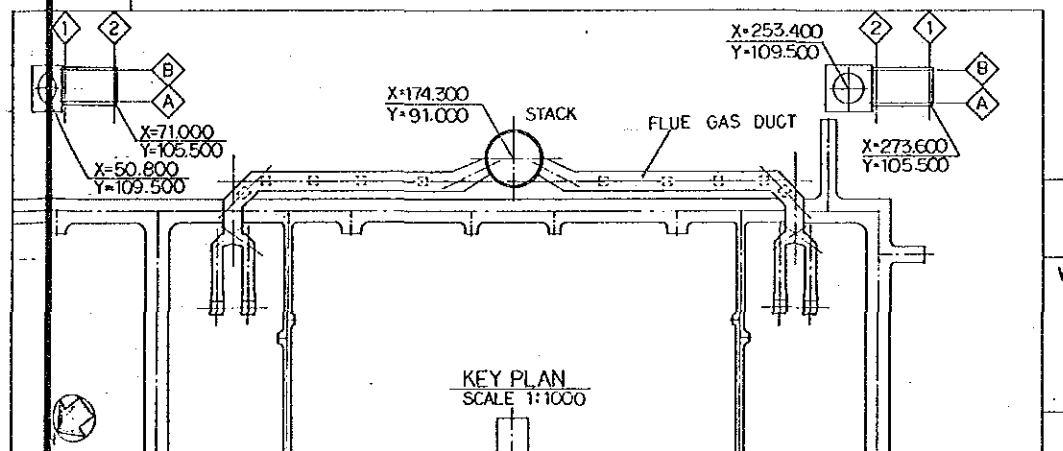
DATE: 10 JAN. 1990
SCALE: 1:200
DRAWING NO: WAT-1611



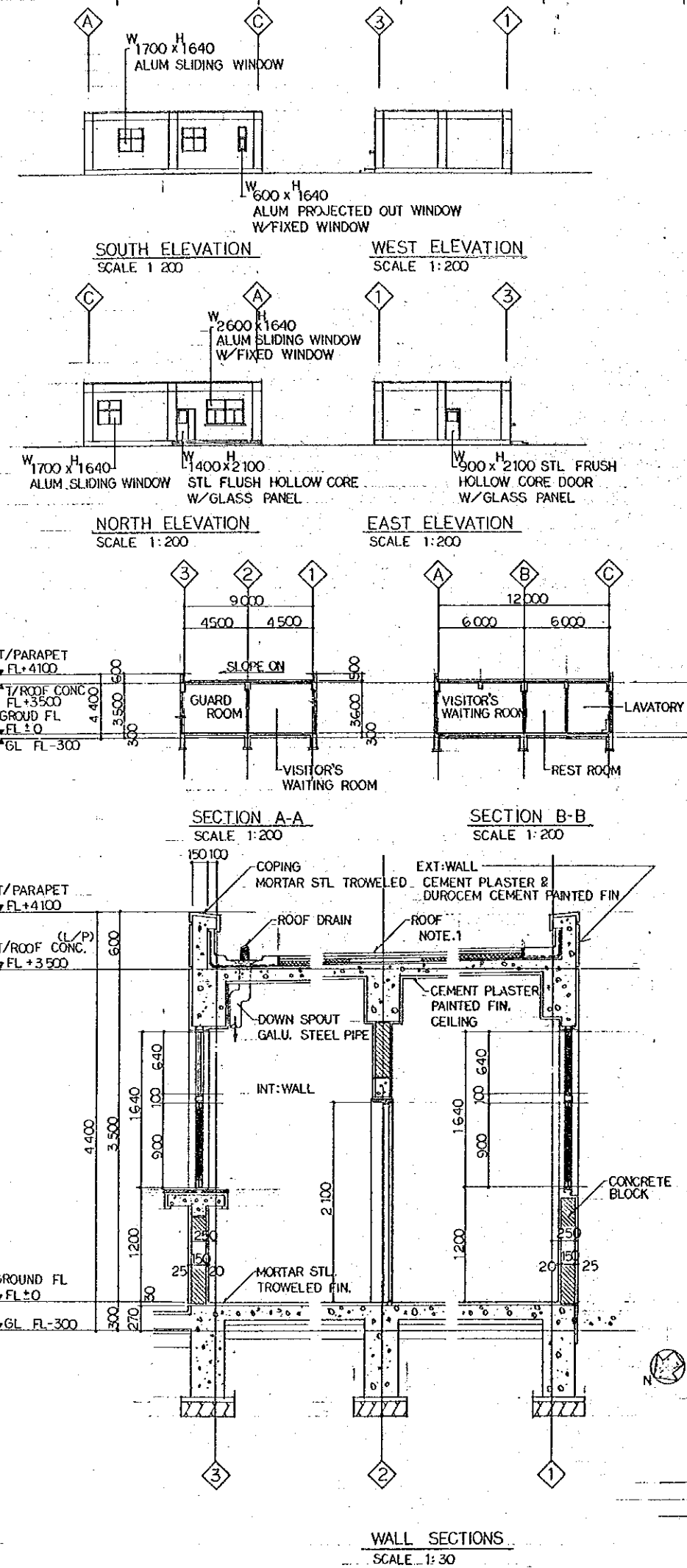
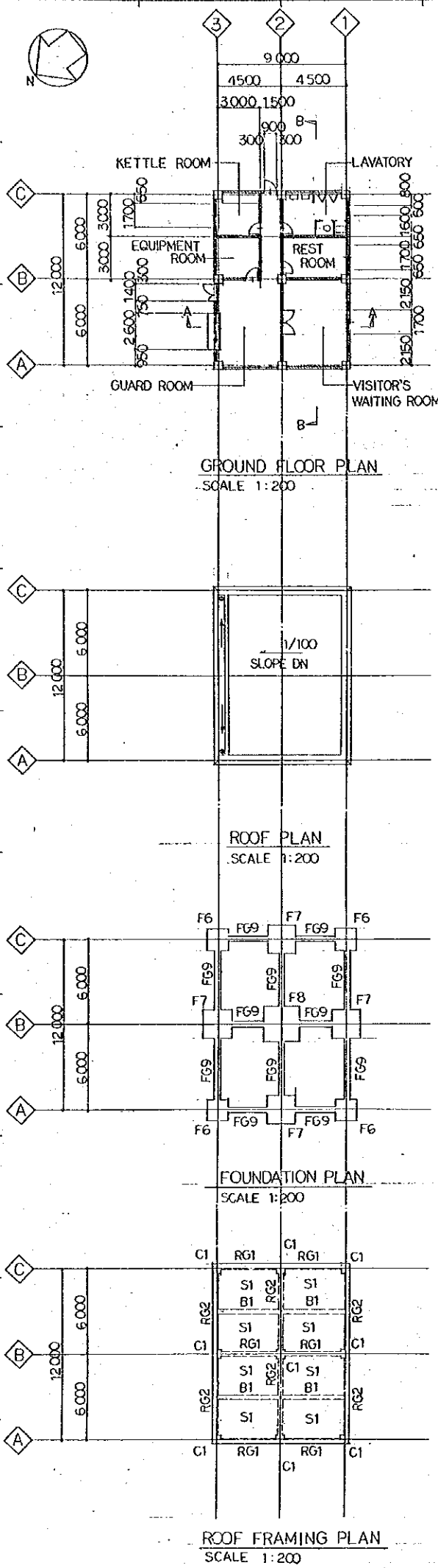
FUEL OIL PUMP, HEATER AREA & SERVICE TANK



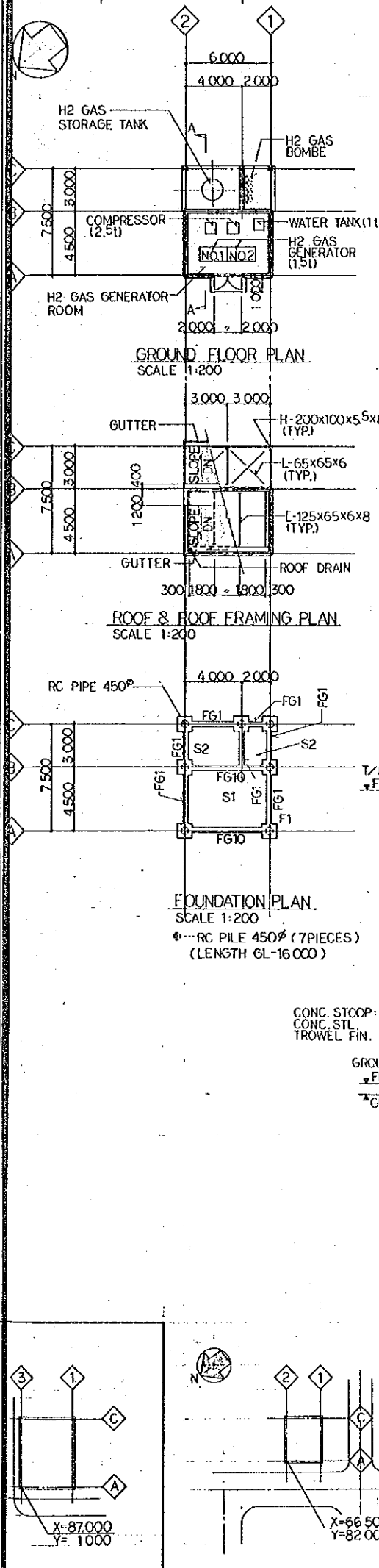
FLUE GAS DUCT FOUNDATION



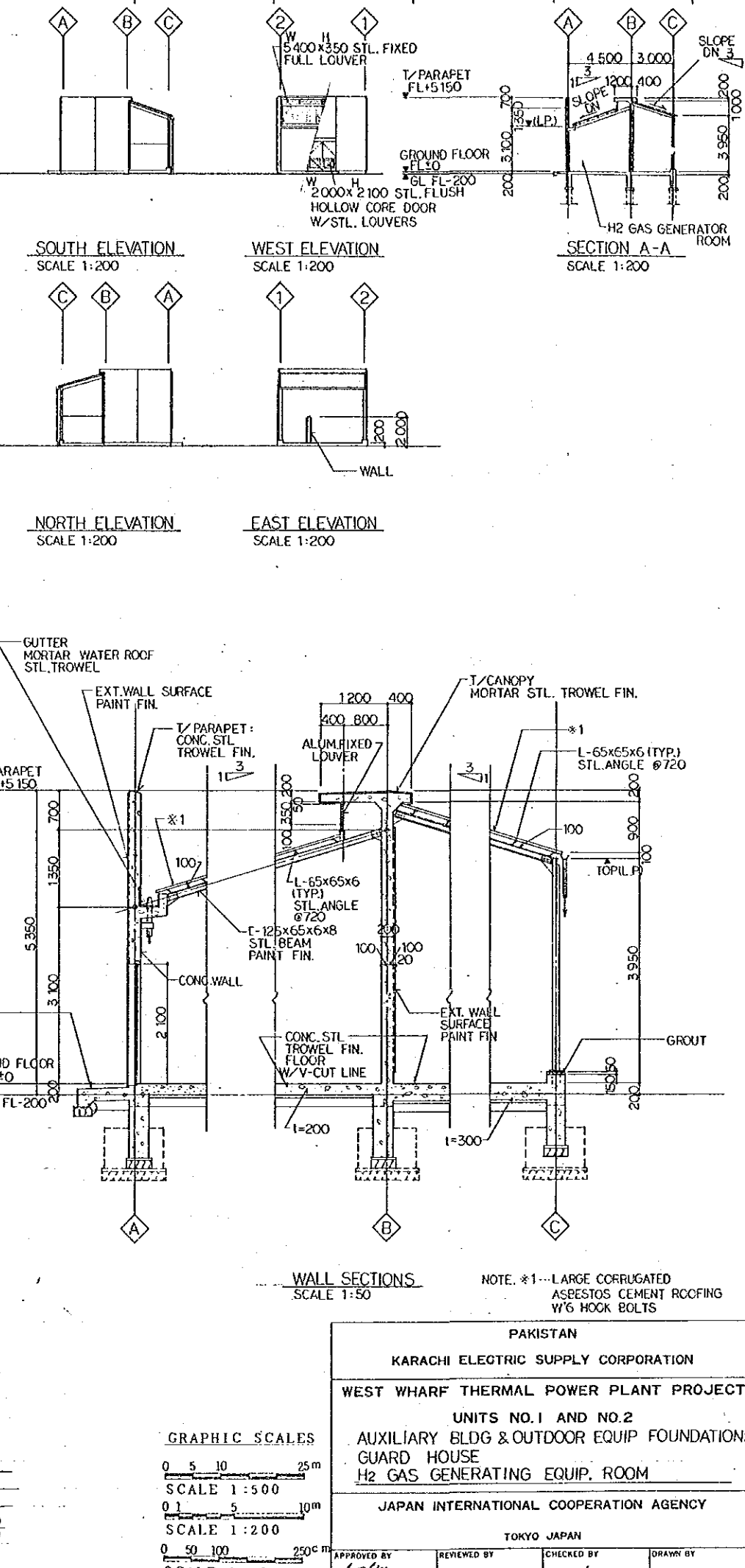
PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
AUXILIARY BLDG. & OUTDOOR EQUIP. FOUNDATION			
FUEL OIL PUMP, HEATER AREA & SERVICE TANK			
FLUE GAS DUCT FOUNDATION			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY	REVIEWED BY	CHECKED BY	DRAWN BY
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
DRAWING NO.	SCALE	DATE	
WAT-1612	1:200	10 JAN. 1990	



GUARD HOUSE
 SCALE 1:200
 NOTE 1 BLACK TILE PAVING FIN. W/SAND CUSHION BUILT-UP ROOFING



H2 GAS GENERATING EQUIP. ROOM
 SCALE 1:200
 X=87.000 Y=1000
 X=86.500 Y=82.000



H2 GAS GENERATING EQUIP. ROOM
 SCALE 1:200
 GRAPHIC SCALES
 0 5 10 25m SCALE 1:500
 0 1 5 10m SCALE 1:200
 0 50 100 250cm SCALE 1:50
 0 10 50 100 150cm SCALE 1:30

PAKISTAN
 KARACHI ELECTRIC SUPPLY CORPORATION
 WEST WHARF THERMAL POWER PLANT PROJECT
 UNITS NO.1 AND NO.2
 GUARD HOUSE & OUTDOOR EQUIP FOUNDATIONS
 H2 GAS GENERATING EQUIP. ROOM
 JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO JAPAN
 APPROVED BY: [Signature] REVIEWED BY: [Signature] CHECKED BY: [Signature] DRAWN BY: [Signature]
 DRAWING NO. WAT-1613 SCALE 1:200 DATE 10 JAN 1990

GIRDER LIST																
MARK	RG1		RG2		RG3		RG4		RG5		RG6		RG6			
	END	CENTER	OUT END	CENTER	IN END	OUT END	CENTER	IN END	OUT END	CENTER	IN END	END	CENTER	END	CENTER	
SECTION																
TOP	3-#7	2-#7	3-#7	3-#7	5-#7	3-#7	4-#7	8-#7	3-#7	2-#7	4-#7	4-#7	2-#7	6-#7	6-#7	
WEB	2-#3		2-#3		2-#3		2-#3		2-#3		2-#3		2-#3		2-#3	
BOTTOM	2-#7	3-#7	3-#7	4-#7	4-#7	2-#7	4-#7	8-#7	2-#7	3-#7	2-#7	2-#7	4-#7	4-#7	6-#7	6-#7
STIRRUP	#3 @ 200		#3 @ 200		#3 @ 100		#3 @ 200		#3 @ 200		#4 @ 150		#4 @ 100		#4 @ 100	

BEAM LIST												
MARK	B1		B2		B3		B4		B4			
	END	CENTER	OUT END	CENTER	IN END	END	CENTER	END	CENTER	END	CENTER	
SECTION												
TOP	5-#6	2-#6	3-#7	3-#7	7-#7	3-#6	2-#6	3-#6	2-#6	3-#6	2-#6	
WEB	2-#3		2-#3		2-#3		2-#3		2-#3		2-#3	
BOTTOM	2-#6	3-#6	3-#7	5-#7	5-#7	2-#6	3-#6	2-#6	3-#6	2-#6	3-#6	
STIRRUP	#3 @ 200		#3 @ 100		#3 @ 200		#3 @ 200		#3 @ 200		#3 @ 200	

GIRDER LIST						COLUMN LIST					
MARK	2G1		2G2		CG1	CG2	MARK	C1	C2	C3	C3
	END	CENTER	END	CENTER							
SECTION							SECTION				
TOP	3-#7	2-#7	3-#7	2-#7	3-#7	3-#7	MAIN BAR	10-#7	10-#7	12-#7	12-#7
WEB	2-#3		2-#3		2-#3	2-#3	HOOP	#4 @ 150	#4 @ 150	#4 @ 150	#4 @ 150
BOTTOM	2-#7	3-#7	2-#7	4-#7	2-#7	2-#7	TIE BAR	#3 @ 600	#3 @ 600	#3 @ 600	#3 @ 600
STIRRUP	#3 @ 200		#3 @ 200		#3 @ 200	#3 @ 200					

BEAM LIST								
MARK	B5		B6		B7		B7	
	OUT END	CENTER	IN END	END	CENTER	OUT END	CENTER	IN END
SECTION								
TOP	3-#6	3-#6	5-#6	5-#6	3-#6	4-#7	4-#7	7-#7
WEB	2-#3		2-#3		2-#3		2-#3	
BOTTOM	2-#6	5-#6	3-#6	3-#6	4-#6	2-#7	4-#7	5-#7
STIRRUP	#3 @ 200		#3 @ 200		#3 @ 100		#3 @ 100	

FOUNDATION GIRDER LIST																
MARK	FG1		FG2		FG3		FG4 (FG4a)		FG5		FG6		FG6			
	END	CENTER	OUT END	CENTER	IN END	END	CENTER	OUT END	CENTER	IN END	OUT END	CENTER	IN END	END	CENTER	
SECTION																
TOP	4-#7	2-#7	3-#7	3-#7	5-#7	5-#7	3-#7	3-#7	4-#7 (3-#7)	8-#7 (5-#7)	8-#7	4-#7	5-#7	4-#8	3-#8	
WEB	2-#3		2-#3		2-#3		2-#3		2-#3		2-#3		2-#3		2-#3	
BOTTOM	2-#7	4-#7	2-#7	3-#7	3-#7	3-#7	3-#7	2-#7	4-#7 (3-#7)	6-#7 (3-#7)	6-#7	5-#7	3-#7	3-#8	4-#8	
STIRRUP	#3 @ 200		#3 @ 200		#3 @ 200		#3 @ 200		#3 @ 200		#3 @ 200		#4 @ 200		#4 @ 200	

SLAB LIST								
MARK	THICKNESS	POSITION	TRANSVERSAL BAR			LONGITUDINAL BAR		
			END	CENTER	CORNER	END	CENTER	CORNER
S1	120	TOP	#3 #4 @ 200	#4 @ 400	#3 @ 250	#3 @ 200	#3 @ 400	#3 @ 250
		BOTTOM	#3 @ 400	#3 @ 200	#3 @ 250	#3 @ 400	#3 @ 200	#3 @ 250
S2	150	TOP	#3 #4 @ 200			#3 @ 200		
		BOTTOM	#3 #4 @ 200			#3 @ 200		
S3	200	TOP	#3 #4 @ 150			#3 #4 @ 200		
		BOTTOM	#3 #4 @ 150			#3 #4 @ 200		
S4	300	TOP	#5 @ 200			#4 @ 200		
		BOTTOM	#5 @ 200			#4 @ 200		

FOUNDATION GIRDER LIST						PILE					
MARK	FG7		FG8		FG9		FG10		RC PILE 450 φ	RC PILE 550 φ	
	END	CENTER	END	CENTER	THROUGH	END	CENTER	END	CENTER		
SECTION											
TOP	3-#8	3-#8	6-#8	6-#8	3-#7	5-#7	3-#7	5-#7	3-#7	3-#7	
WEB	6-#3		6-#3		2-#3	4-#3		4-#3		4-#3	
BOTTOM	5-#8	6-#8	6-#8	10-#8	3-#7	3-#7	6-#7	3-#7	6-#7	6-#7	
STIRRUP	#4 @ 200		#4 @ 100		#4 @ 200	#3 @ 100		#3 @ 100		#3 @ 100	

WALL LIST				
MARK	THICKNESS	HORIZONTAL	VERTICAL	SECTION
				VERTICAL
W15	150	#3 @ 200	#3 @ 200	
W20	200	#3 @ 200 2 LAYERS	#3 @ 200 2 LAYERS	

F1 (F2)	F3	F4	F5	F6	F7	F8
F1 RC PILE 1-450 F2 RC PILE 1-550	RC PILE 2-450	RC PILE 3-450	RC PILE 4-450			

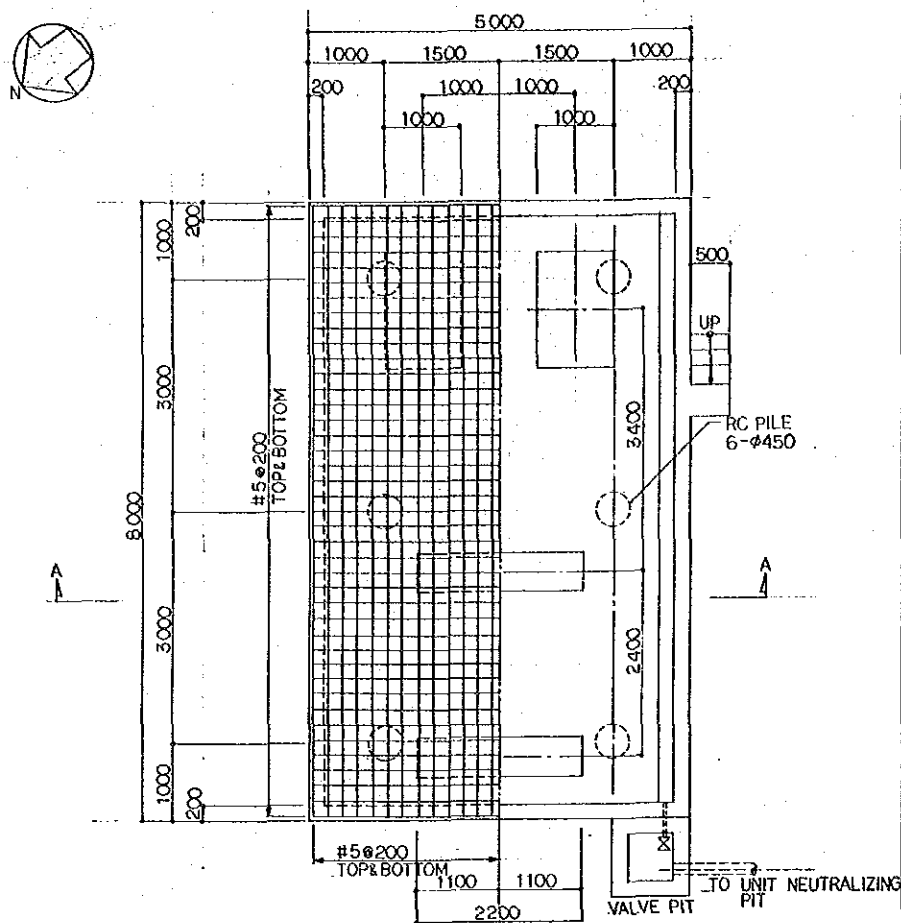
GRAPHIC SCALE
0 50 100 250 cm
SCALE 1:50

PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION
WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
AUXILIARY BLDG & OUTDOOR EQUIP. FOUNDATION
STRUCTURAL DRAWING
(COMMON FOR WAT 1611~1613)

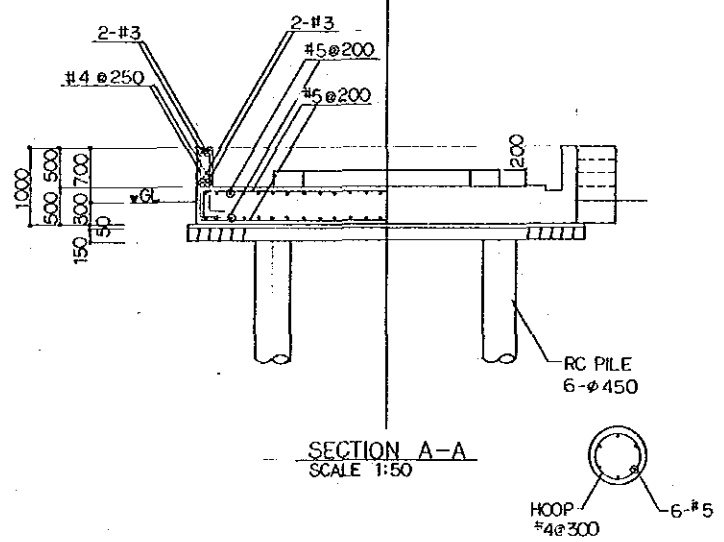
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

APPROVED BY:
REVIEWED BY:
CHECKED BY:
DRAWN BY:

WAT-1614 1:50 10 JAN, 1990



REINFORCING PLAN
SCALE 1:50

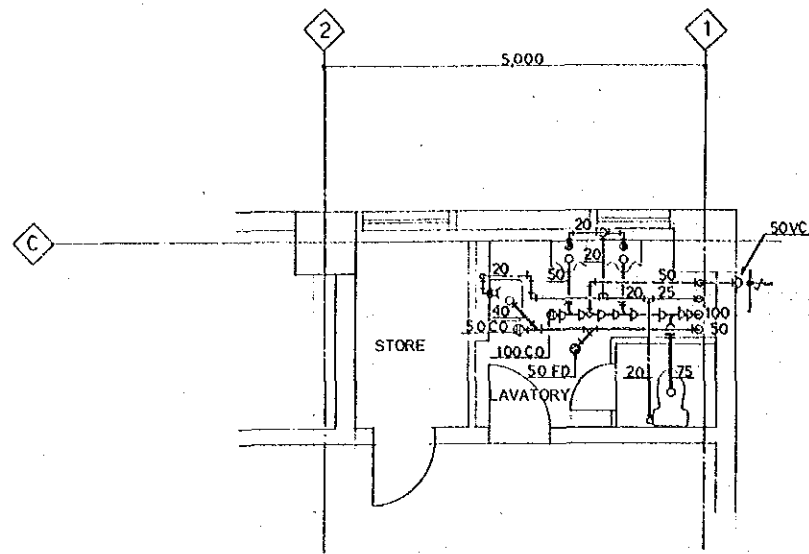


SECTION A-A
SCALE 1:50

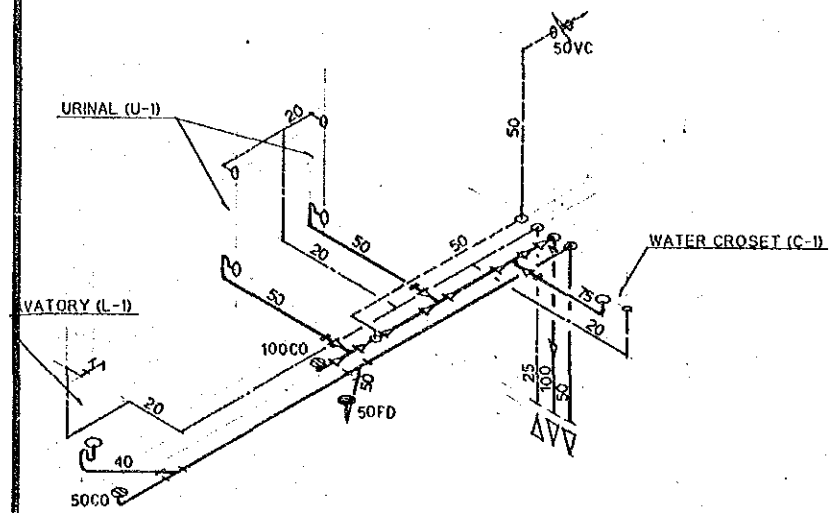
TURBINE OIL STORAGE TANK FOUNDATION

GRAPHIC SCALE
0 50 100 250 cm
SCALE 1:50

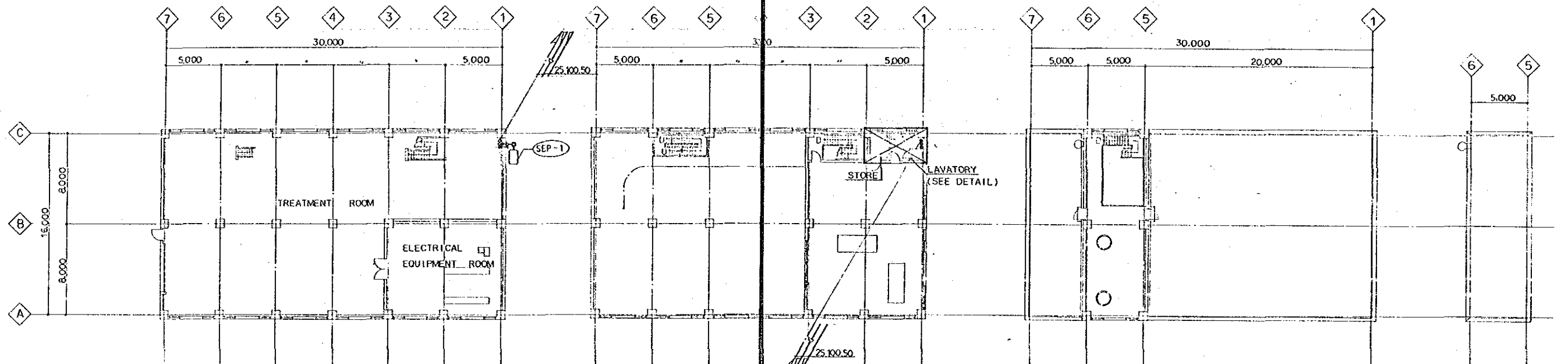
PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT UNITS NO.1 AND NO.2			
TURBINE OIL STORAGE TANK			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY <i>[Signature]</i>	REVIEWED BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>
DRAWING NO. WAT-1617		SCALE 1:50	DATE 10 JAN. 1990



LAVATORY DETAIL PLAN



SCHEMATIC DIAGRAM



GROUND FLOOR PLAN

MEZANINE FLOOR PLAN

1ST FLOOR & ROOF PLAN

HIGH ROOF PLAN

PLUMBING EQUIPMENT SCHEDULE

NO.	MACHINE NAME	SPECIFICATION	Qty	NOTES
SEP-1	SEPTIC TANK	F.R.P. CAPACITY: 1.01 cu	1	

PLUMBING AND SANITARY FIXTURES SCHEDULE

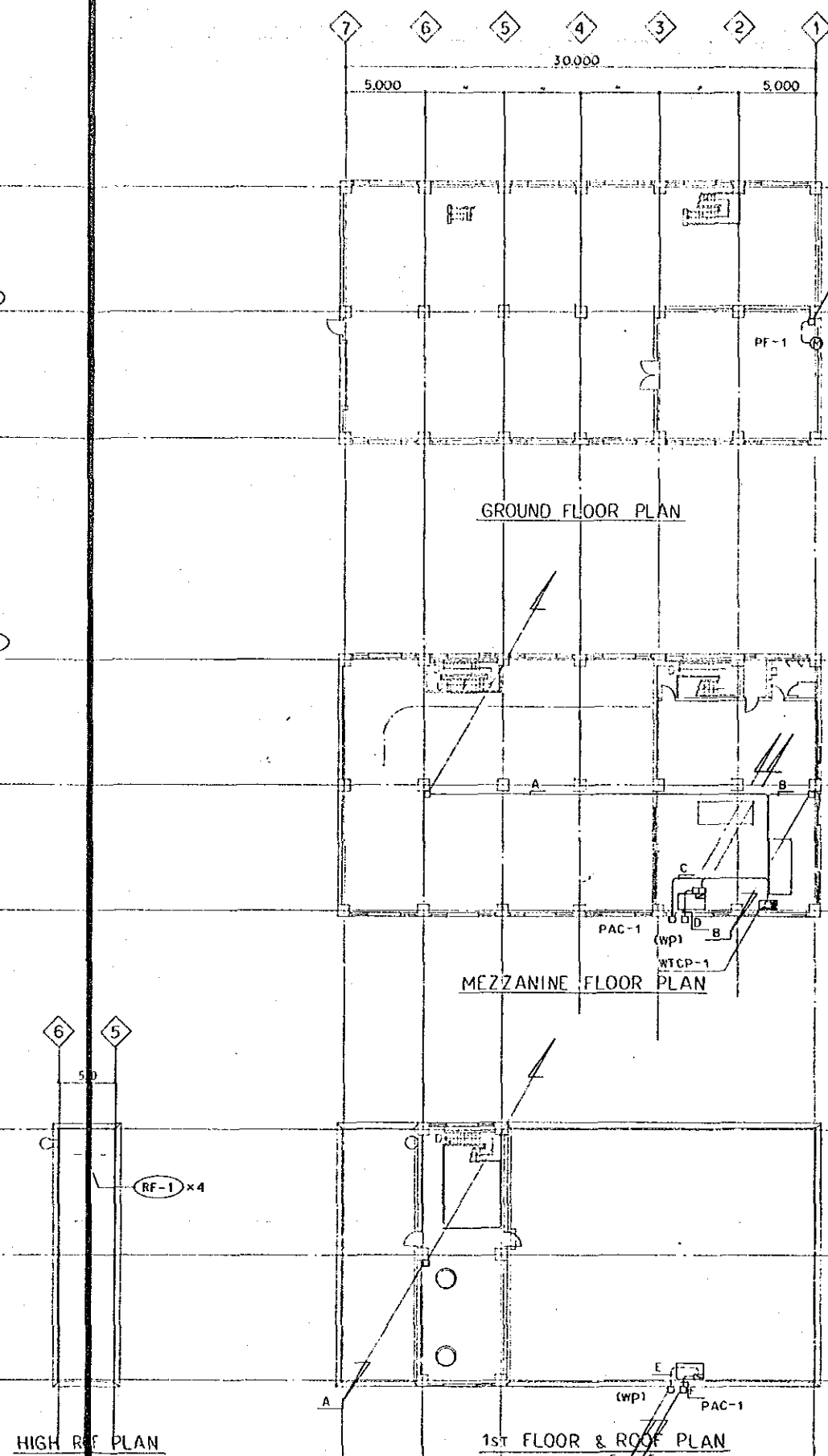
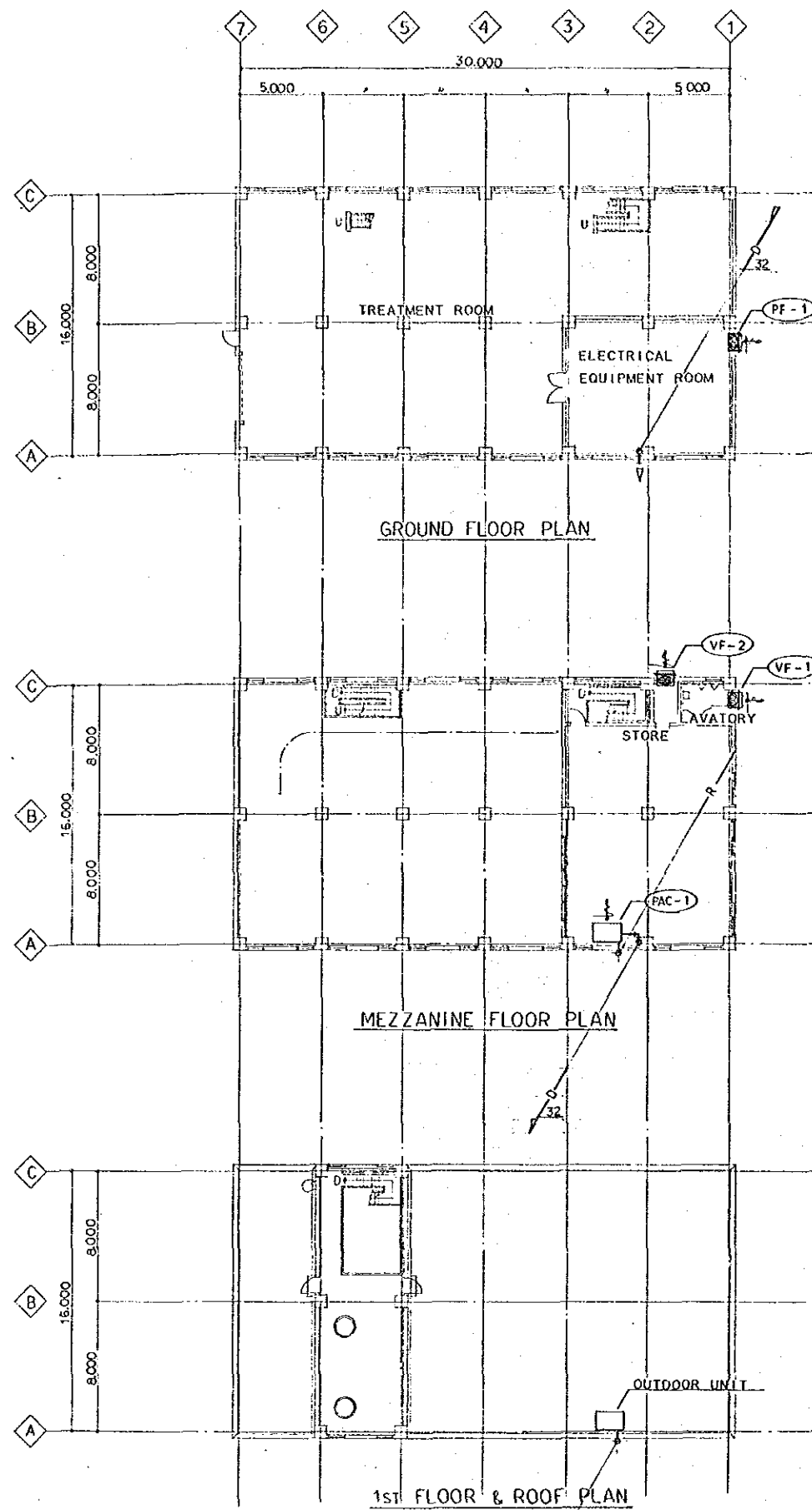
NO.	FIXTURE NAME	SPECIFICATION	ACCESSORIES	Qty	NOTES
C-1	WATER CLOSET	VITREOUS CHINA, WAS-DOWN CLOSED COUPLED	LOW TANK W/INSULATING LINE AND HAND WASHING LID, TANK TRIP SEAT AND COVER	1	
	ROLL PAPER HOLDER	PLASTIC MADE			
U-1	URINAL	V.C WALL HUNG	INTEGRAL TRAP, FLUSH-VALVE INLET SPUD	2	
L-1	LAVATORY	V.C WALL HUNG	LAVATORY FAUCET, WALL SUPP W/STOP POP-UP WASTE W/P-TRAP, PEDAL	1	
	LIQUID SOAP HOLDER				
	MIRROR				

PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION

WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
WATER TREATMENT
PLUMBING EQUIPMENT, SANITARY FIXTURES SCHEDULE
GROUND, MEZZANINE, 1st FLOOR & ROOF, HIGH ROOF PLAN
AND LAVATORY DETAIL PLAN

JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

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DRAWING NO. WAT-1623	SCALE 1/200 1/50	DATE DEC 1989	



LEGEND

NAME	CAPACITY	WIRING	PIPING
WTCP-1	3#380V		
PAC-1 (I. D. U)	2.2KW	1V2 ⁰	x 3 E2 ⁰ (25)
PAC-1 (O. D. U)	14.2KW	1V14 ⁰	x 3 E5.5 ⁰ (28)
PF-1	0.4KW	1V2 ⁰	x 3 E2 ⁰ (25)
RF-1 (x4)	2.2KW	1V2 ⁰	x 3 E2 ⁰ (25)

-A-
1V2⁰ x 3 E2⁰ (25) x4 RF-1x4

-B-
1V2⁰ x 3 E2⁰ (25) PF-1

-C-
1V14⁰ x 3 E5.5⁰ (31) PAC-1 (O. D. U)

-D-
1V2⁰ x 5 (25) IN DOOR UNIT

-E-
1V14⁰ x 3 E5.5⁰ (28) PAC-1 (O. D. U)

-F-
1V2⁰ x 5 (22) IN DOOR UNIT

VENTILATION WORKS EQUIPMENT SCHEDULE

MARK	EQUIPT NAME	DESCRIPTION	Qty	POWER	VOLT	REMARKS
PAC-1	PACKAGED AIR CONDITIONER	AIR COOLED, FLOOR TYPE COOLING LOAD: 39,000kcal/H FAN: AIR FLOW: 11,216CMH POWER OUTPUT: IN/OUT COMP:	1	37kw/0.3kw 23.2kw	3φ-380v	

VENTILATION WORKS EQUIPMENT SCHEDULE

MARK	EQUIPT NAME	DESCRIPTION	Qty	POWER	VOLT	REMARKS
VF-1	PROPELLER FAN	DIAMETER: φ200 AIR VOLUME: 300m ³ /H W/SHUTTER, WEATHER COVER	1	18w	1φ-220v	
VF-2	PROPELLER FAN	DIAMETER: φ200 AIR VOLUME: 150m ³ /H W/SHUTTER, WEATHER COVER	1	18w	1φ-220v	
PF-1	PROPELLER FAN	φ550, AIR VOLUME: 4,350m ³ /H SP: 5mmAq	1	0.4kw	3φ-380v	
RF-1	ROOF FAN	φ1,050, AIR VOLUME: 15,350m ³ /H SP: 10mmAq	4	2.2kw	3φ-380v	

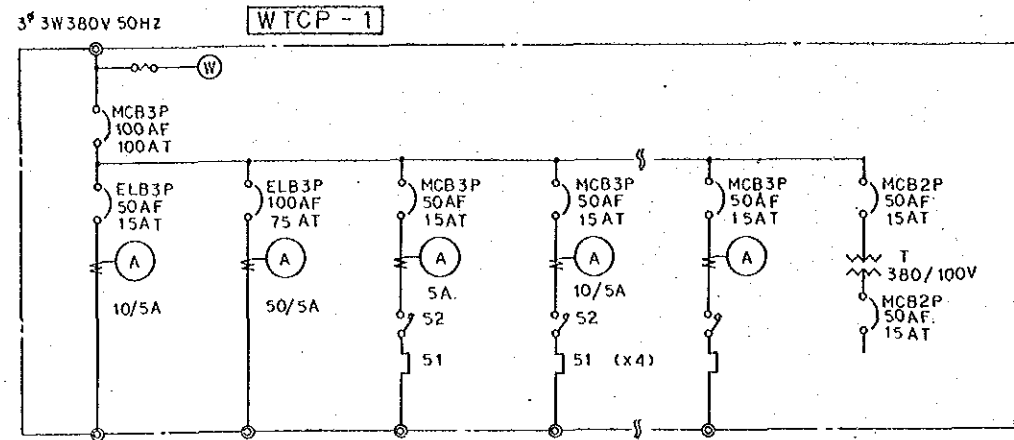
PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION

WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
WATER TREATMENT CONTROL ROOM
A/C AND VENTILATION
AUTOMATIC CONTROL & SECONDARY WIRING
FLOOR PLAN

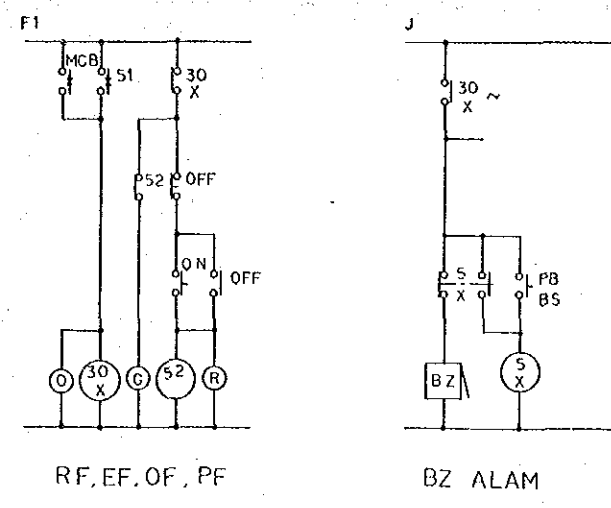
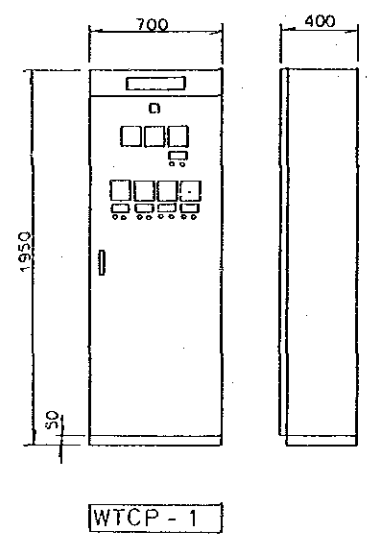
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

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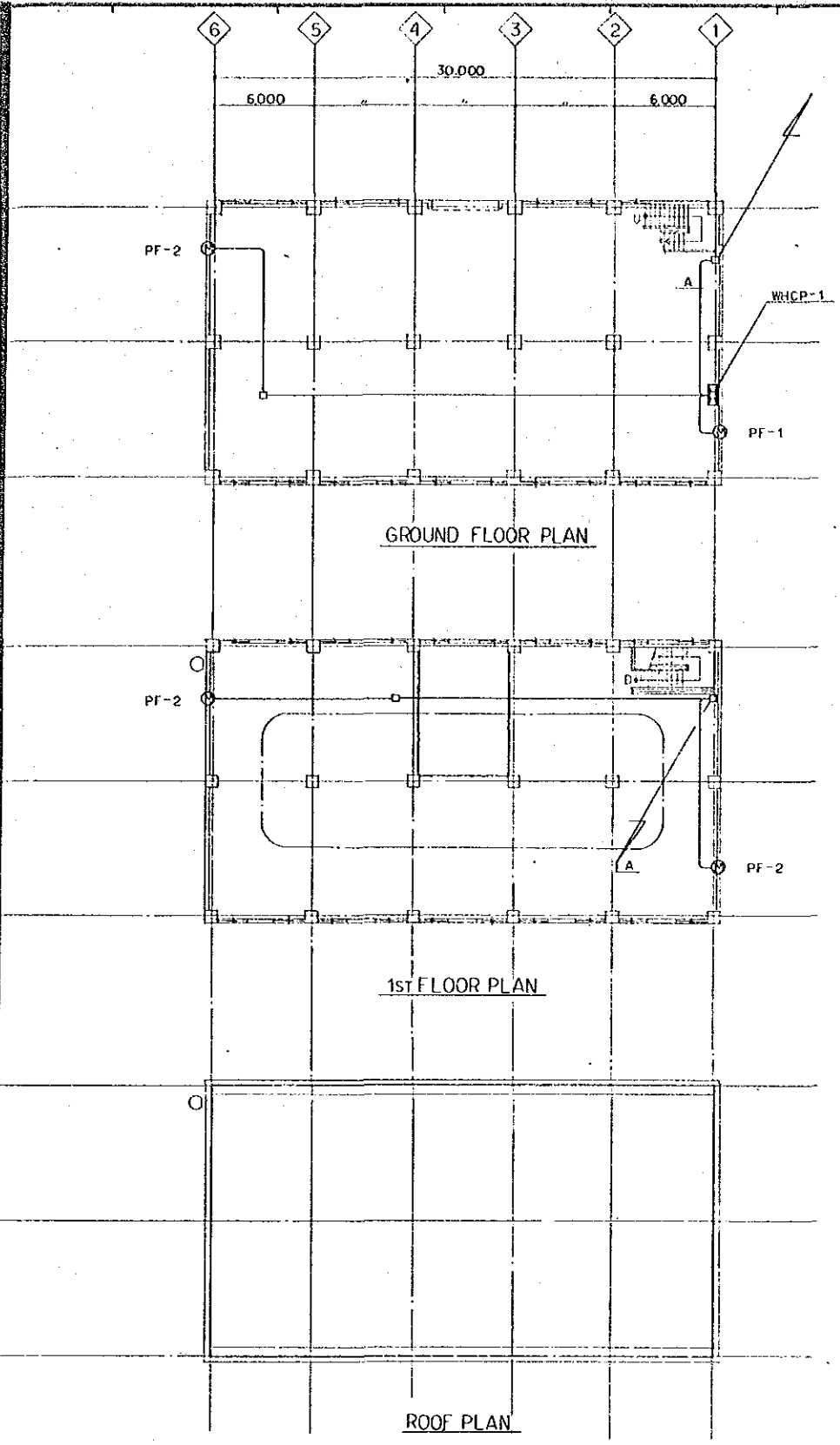
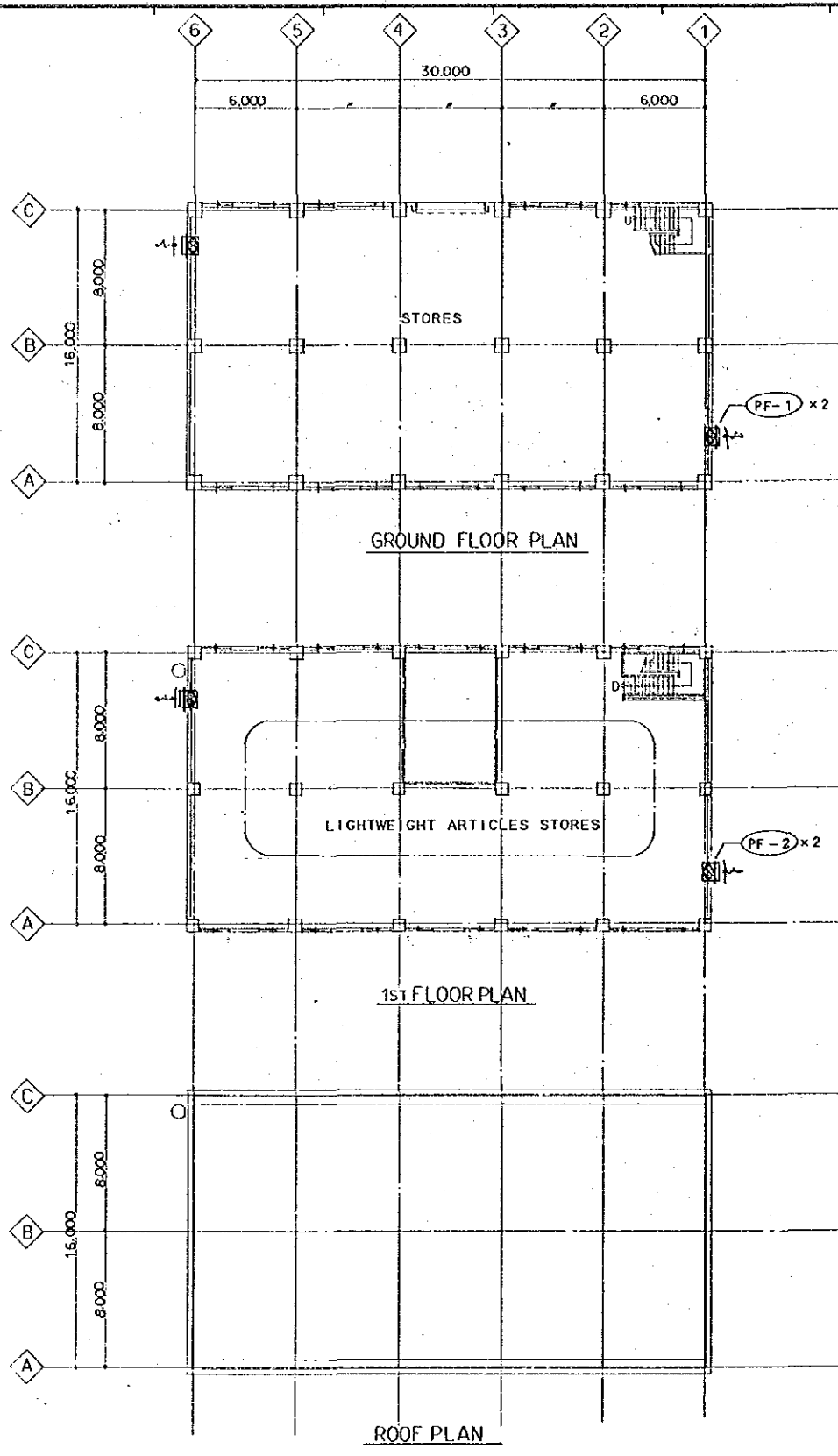
DRAWING NO. WAT-1624 SCALE 1:200 DATE DEC 1989



SYMBOL	PAC - 1	PF - 1	RF - 1		
CAPACITY(KW)	2.2	14.2	0.4	2.2 x 4	
CIRCUIT DIAGRAM			F1	F1 (x 4)	J



PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
WATER TREATMENT CONTROL ROOM			
A/C AND VENTILATION			
SECONDARY WIRING DIAGRAM			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
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DRAWING NO. WAT-1625	SCALE not to scale	DATE DEC 1989	



LEGEND

NAME	CAPACITY	WIRING	PIPING
WHCP-1	3Ø380V		
PF-1(x2)	0.75KW	1V2 ⁰	x 3 E2 ⁰ (25)
PF-2(x2)	0.75KW	1V2 ⁰	x 3 E2 ⁰ (25)

-A-

1V2 ⁰	x 3 E2 ⁰ (25)	x 2	PF-2x2
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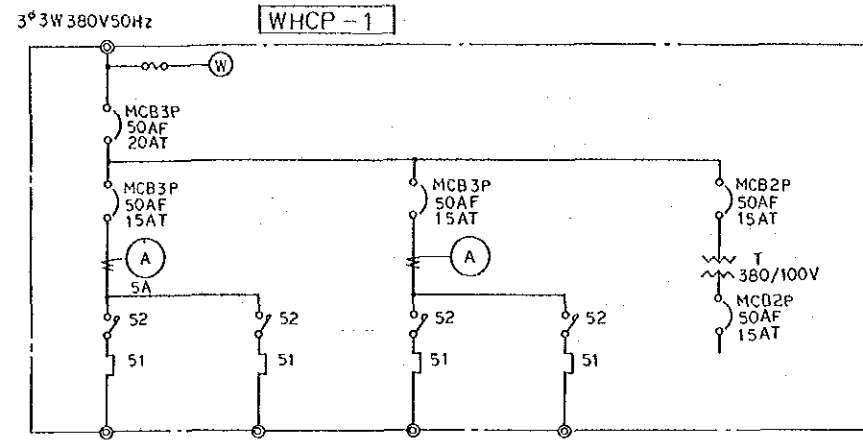
VENTILATION WORKS EQUIPMENT SCHEDULE

MARK	EQUIPT NAME	DESCRIPTION	Qty	POWER	VO	REMARKS
PF-1	PROPELLER FAN	φ600 AIR VOLUME:6,350m ³ /H SP:5mmAq W/SUS WEATHER COVER,SHUTTER	2	0.75kw	3φ	
PF-2	PROPELLER FAN	φ600 AIR VOLUME:6,350m ³ /H SP:5mmAq W/SUS WEATHER COVER,SHUTTER	2	0.75kw	3φ	

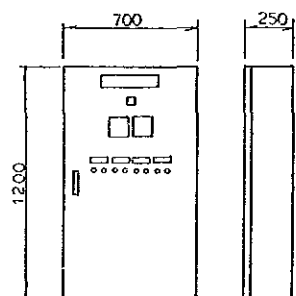
PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION
WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
WARE HOUSE
VENTILATION AND
SECONDARY WIRING
FLOOR PLAN

JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

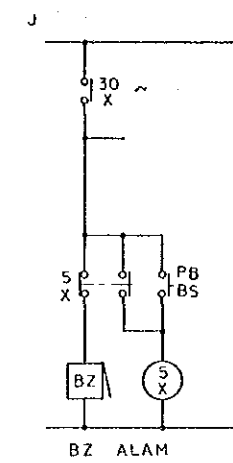
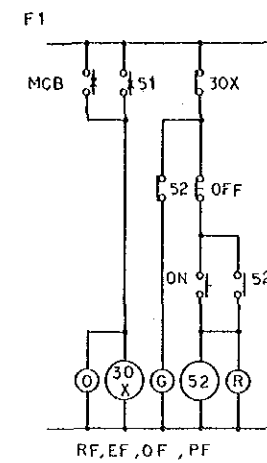
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DRAWING NO. WAT-1626	SCALE 1/200	DATE DEC 1989	



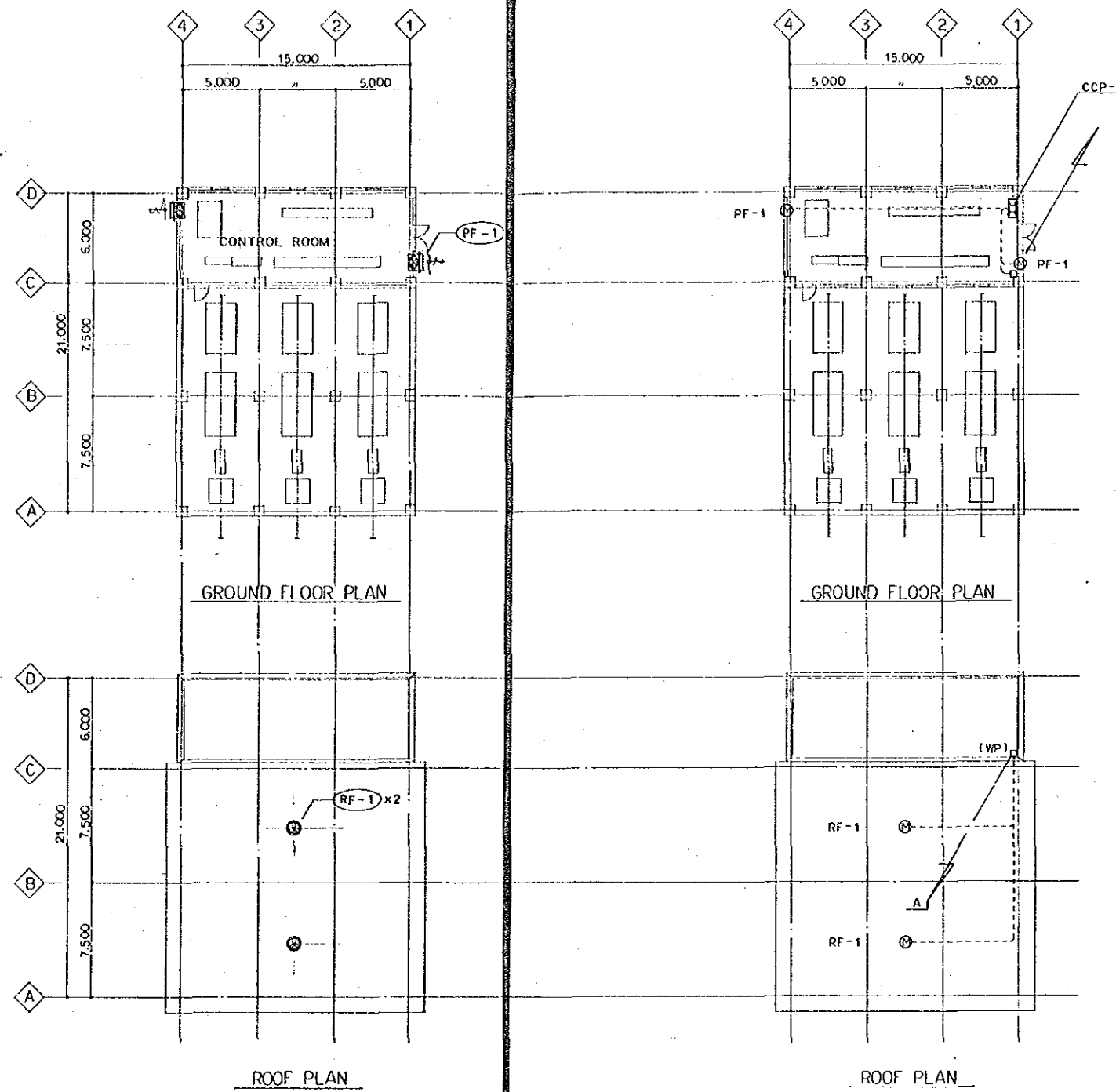
SYMBOL	P F - 1	P F - 2		
CAPACITY (KW)	0.75 x 2	0.75 x 2		
CIRCUIT DIAGRAM	F 1 (x 2)	F 1 (x 2)	J	



WHCP-1



PAKISTAN			
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WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
WARE HOUSE			
VENTILATION AND			
SECONDARY WIRING DIAGRAM			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY <i>[Signature]</i>	REVIEWED BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>
DRAWING NO. WAT-1627		SCALE not to scale	DATE DEC 1989



LEGEND

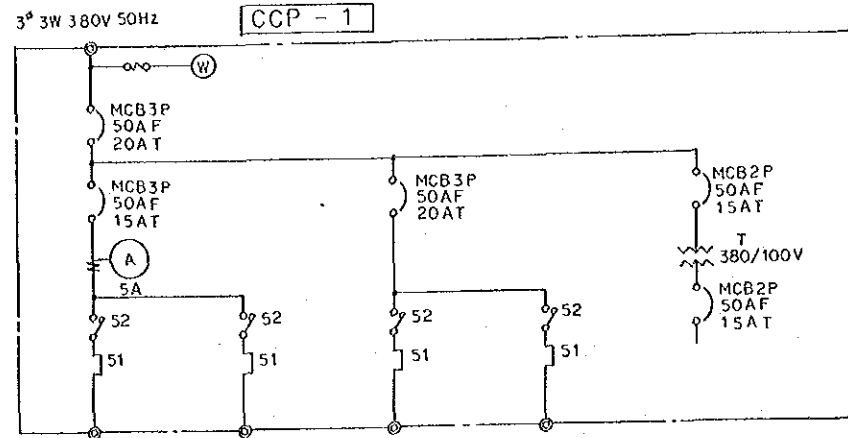
NAME	CAPACITY	WIRING	PIPING
CCP-1	3Ø380V		
RF-1(x2)	0.4KW	1V2 ^Ø x 3 E2 ^Ø	(16)
PF-1(x2)	0.1KW	1V2 ^Ø x 3 E2 ^Ø	(25)

-A-

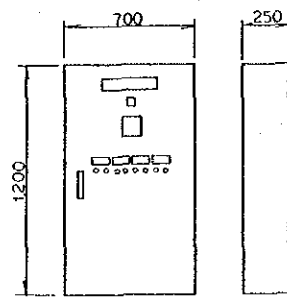
(1V2 ^Ø x 3 E2 ^Ø (25))x2	RF-1x2
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VENTILATION WORKS EQUIPMENT SCHEDULE						
MARK	EQUIPT NAME	DESCRIPTION	Qty	POWER	VOLT	REMARKS
RF-1	ROOF VENTILATOR	φ500.AIR VOLUME:3.770m ³ /H SP:5mmAq	2	0.4kw	3φ-380V	
PF-1	PROPELLER FAN	φ400.AIR VOLUME:2.120m ³ /H SP:5mmAq W/SUS WEATHER COVER,SHUTTER	2	0.1kw	3φ-380V	

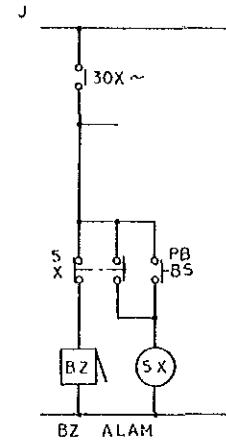
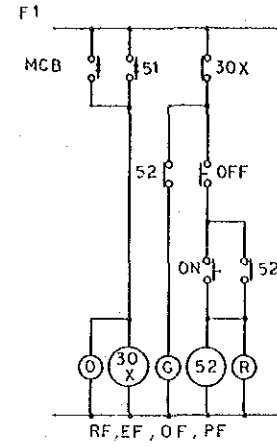
PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
CHLORINATION EQUIP. CONTROL ROOM			
VENTILATION AND			
SECONDARY WIRING			
FLOOR PLAN			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY	REVIEWED BY	CHECKED BY	DRAWN BY
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DRAWING NO.	SCALE	DATE	
WAT-1628	1:200	DEC 1989	



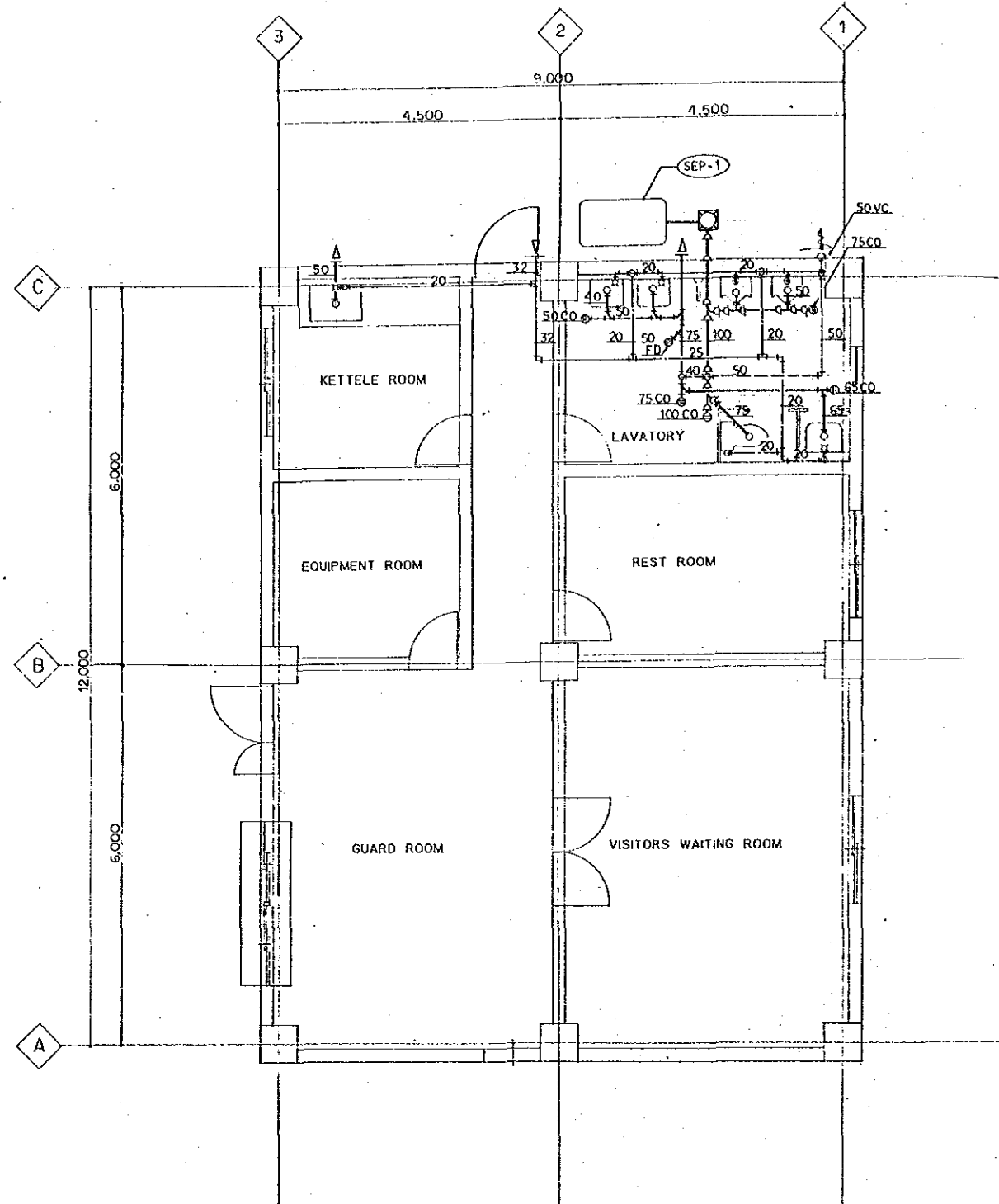
SYMBOL	RF - 1	PF - 1	J
CAPACITY (KW)	0.4 x 2	0.1 x 2	
CIRCUIT DIAGRAM	F1(x 2)	F1(x 2)	J



CCP - 1



PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
CHLORINATION EQUIP. CONTROL ROOM			
VENTILATION AND			
SECONDARY WIRING DIAGRAM			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY <i>[Signature]</i>	REVIEWED BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>
DRAWING NO. WAT-1629		SCALE not to scale	DATE DEC 1989



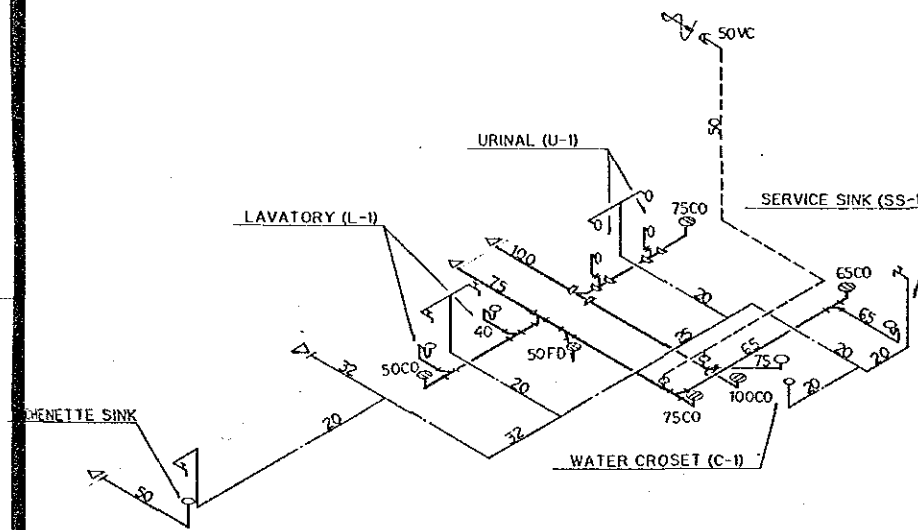
GROUND FLOOR DETAIL PLAN

PLUMBING EQUIPMENT SCHEDULE

NO.	MACHINE NAME	SPECIFICATION	QTY	NOTES
SEP-1	SEPTIC TANK	F.R.P. CAPACITY: 1.0100	1	

PLUMBING AND SANITARY FIXTURES SCHEDULE

NO.	FIXTURE NAME	SPECIFICATION	ACCESSORIES	QTY	NOTES
C-1	WATER CLOSET	VITREOUS CHINA. WAS-DOWN CLOSED COUPLED	LOW TANK W/INSULATING LINER AND HAND WASHING LID. TANK TRIM. SEAT AND COVER	1	
	ROLL PAPER HOLDER	PLASTIC MADE			
U-1	URINAL	V.C WALL HUNG.	INTEGRAL TRAP. FLUSH VALVE. INLET SPUD	2	
L-1	LAVATORY	V.C WALL HUNG.	LAVATORY FAUCET. WALL SUPPLY W/STOP POP-UP WASTE W/P-TRAP. PEDESTAL	2	
	LIQUID SOAP HOLDER MIRROR				
SS-1	SERVICE SINK	V.C HIGH HUNG.	WALL FAUCET. W/ADJUSTABLE FLANGE RM COVER WASTE W/CAST. IRON S-TRAP	1	
	WALL FAUCET	FOR KITCHIEN AND KITCHENETTE SINK SWING SPOUT		1	



SCHEMATIC DIAGRAM

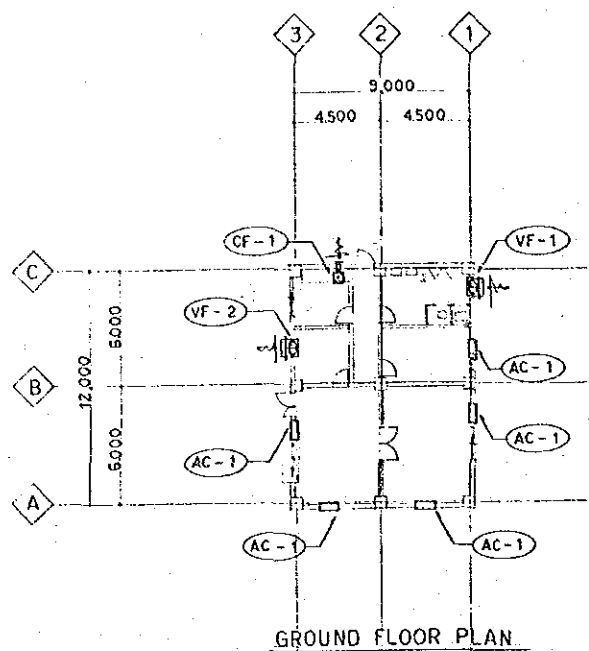
PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION

WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
GUARD HOUSE
PLUMBING FLOOR PLAN
AND SANITARY FIXTURES SCHEDULE

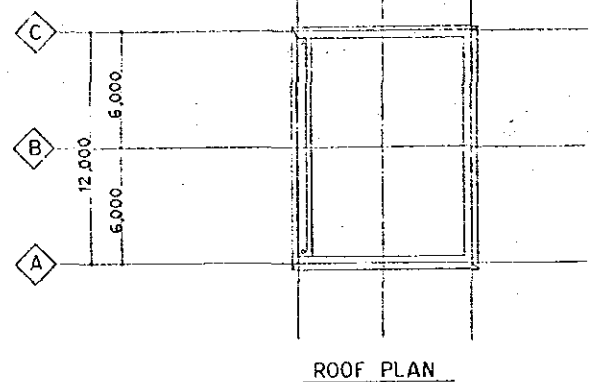
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

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DATE	SCALE 1:50	DATE	DATE

WAT-1630

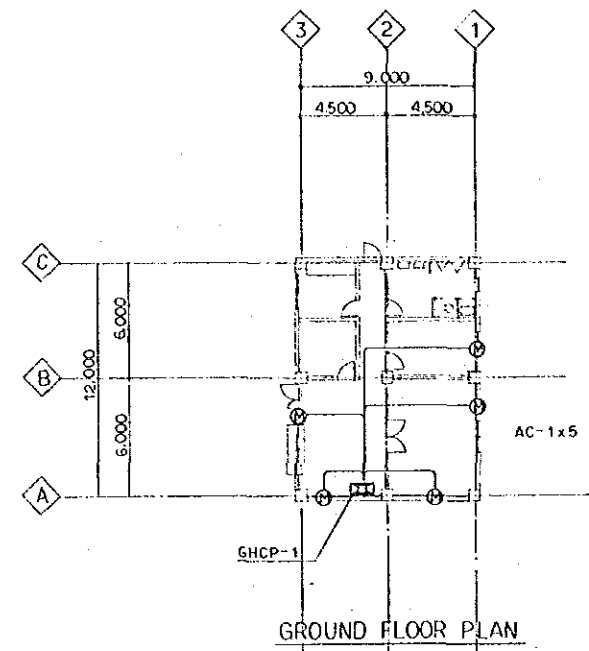


GROUND FLOOR PLAN

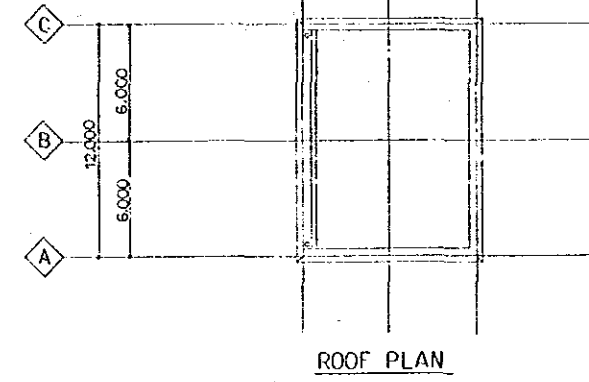


ROOF PLAN

AIR CONDITION AND VENTILATION WORKS EQUIPMENT SCHEDULE						
MARK	EQUIPT NAME	DESCRIPTION	Qty	MOTIVE	POWER	REMARKS
AC-1	AIR CONDITIONER	WINDOW MOUNTED	5			
		COOLING CAPACITY: 3250kcal/Hr				
		AIR FLOW RATE : 780CMH				
		COMPRESSOR:		1.5kw	3φ-380v	



GROUND FLOOR PLAN



ROOF PLAN

LEGEND

NAME	CAPACITY	WIRING	PIPING
GHCP-1	38380V		
AC-1(x5)	1.5KW	1V2 ⁰	x 3 E2 ⁰ (25)

AIR CONDITION AND VENTILATION WORKS EQUIPMENT SCHEDULE						
MARK	EQUIPT NAME	DESCRIPTION	Qty	MOTIVE	POWER	REMARKS
CF-1	CEILING	150φ × 320CMH × 5mmAq	1	43w	1φ-220v	W/150φ VENT CAP
VF-1	PROPELLER	250φ × 500CMH	1	25w	1φ-220v	W/SUS WEATHER COVER
VF-2	-do-	200φ × 200CMH	1	18w	1φ-220v	W/ -do-

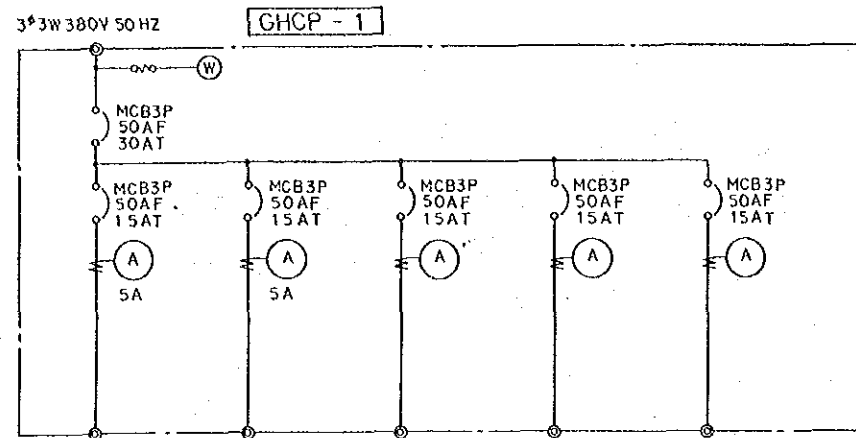
PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION

WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2

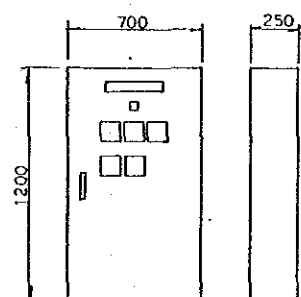
GUARD HOUSE
A/C AND VENTILATION
SECONDARY WIRING
FLOOR PLAN

JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

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DRAWING NO. WAT-1631	SCALE 1:200	DATE DEC 1989	



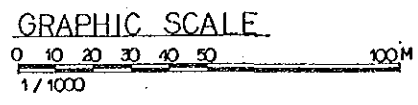
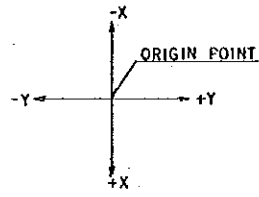
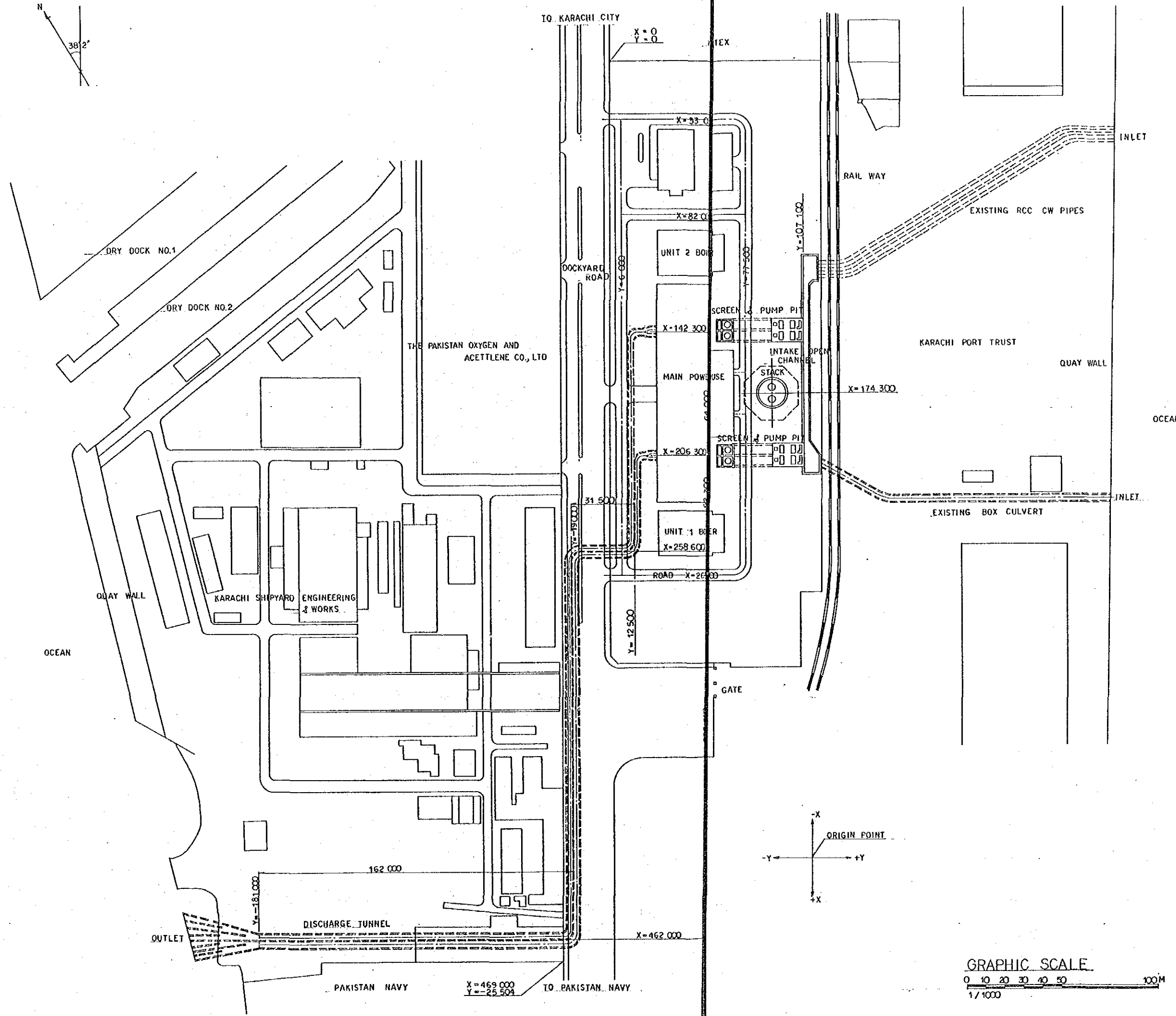
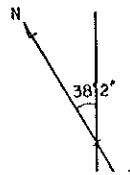
SYMBOL	A C - 1		
CAPACITY (KW)	1.5 x 5		
CIRCUIT DIAGRAM			



GHCP - 1

PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
GUARD HOUSE A/C AND VENTILATION SECONDARY WIRING DIAGRAM			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY <i>[Signature]</i>	REVIEWED BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>
DRAWING NO. WAT-1632	SCALE not to scale	DATE DEC 1989	

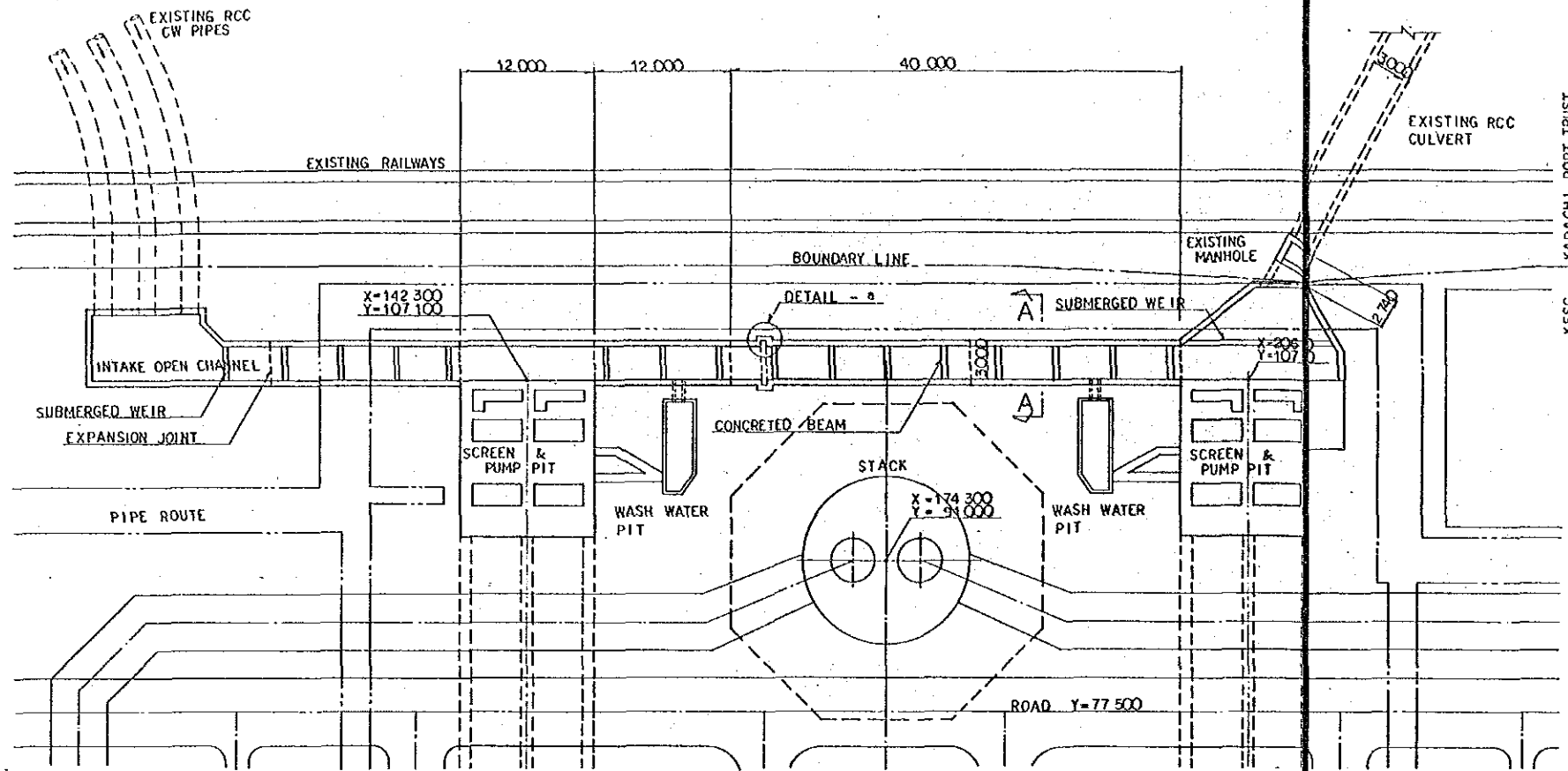
P L A N
S = 1/1000



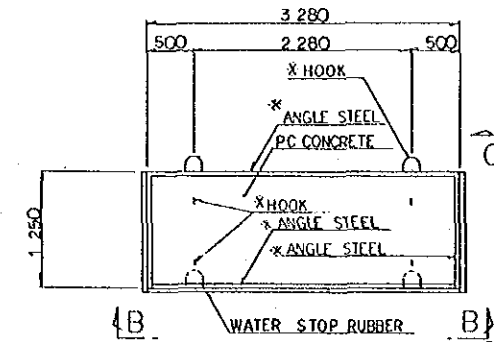
PAKISTAN KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT UNITS NO.1 AND NO.2			
COOLING WATER WAY			
JAPAN INTERNATIONAL COOPERATION AGENCY TOKYO JAPAN			
APPROVED BY <i>[Signature]</i>	REVIEWED BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>
DRAWING NO. WCT-1101	SCALE AS SHOWN	DATE 10TH JAN, 1990	

STOP LOG

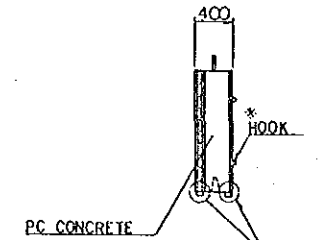
PLAN
s=1/300



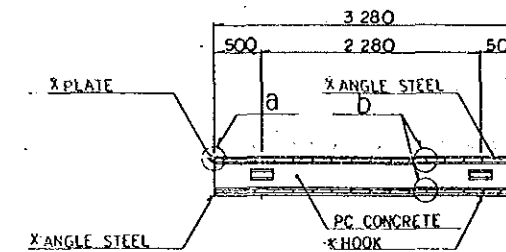
FRONT VIEW
s=1/40



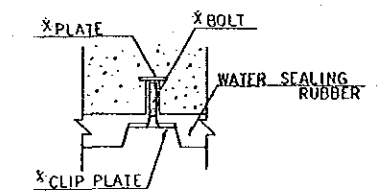
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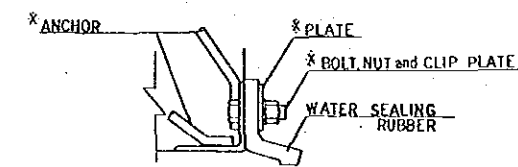
SECTION B - B
s=1/40



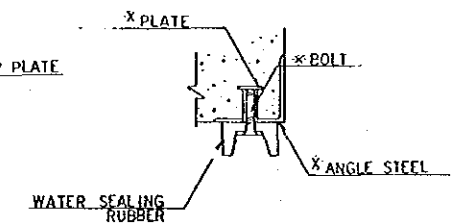
DETAIL b
s=1/4



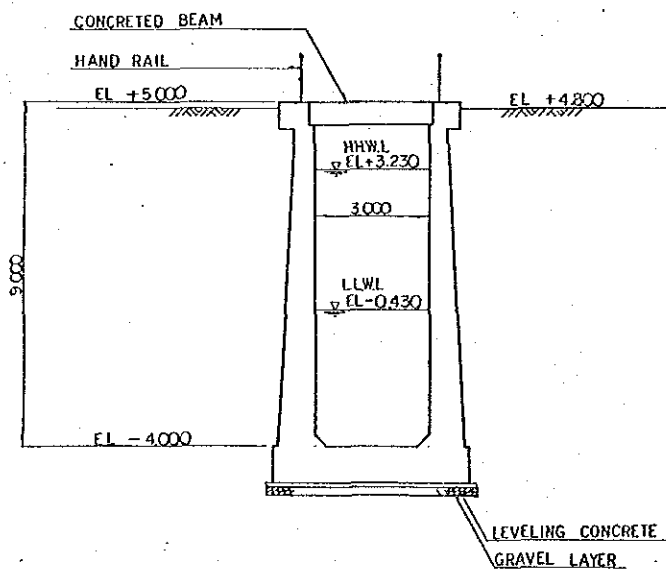
DETAIL - c
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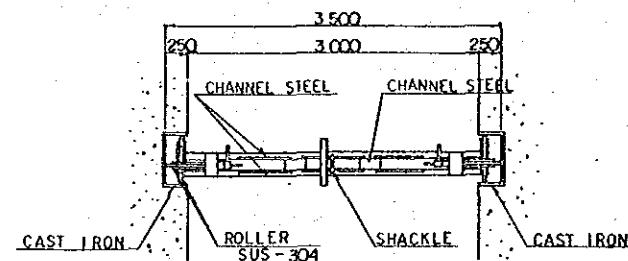
DETAIL - d
s=1/4



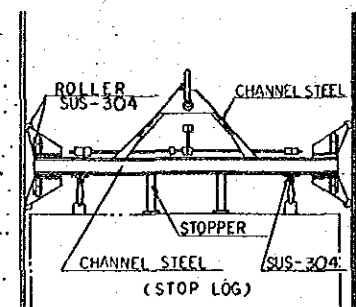
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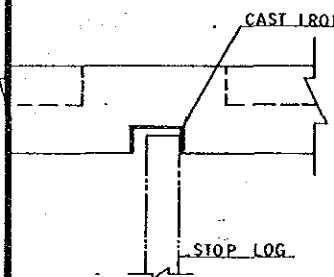
LIFTING BEAM
s=1/40



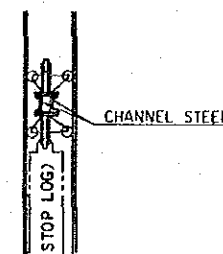
FRONT VIEW
s=1/40



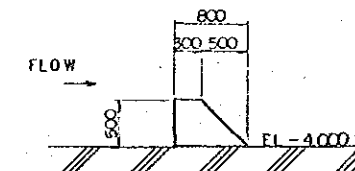
DETAIL - a
s=1/4



SOE VIEW
s=1/40

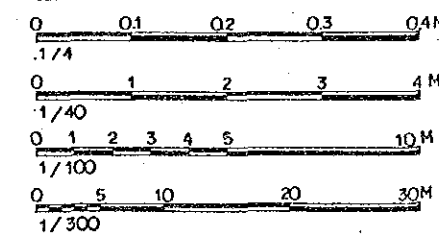


DETAIL OF SUBMERGED WEIR
s=1/40



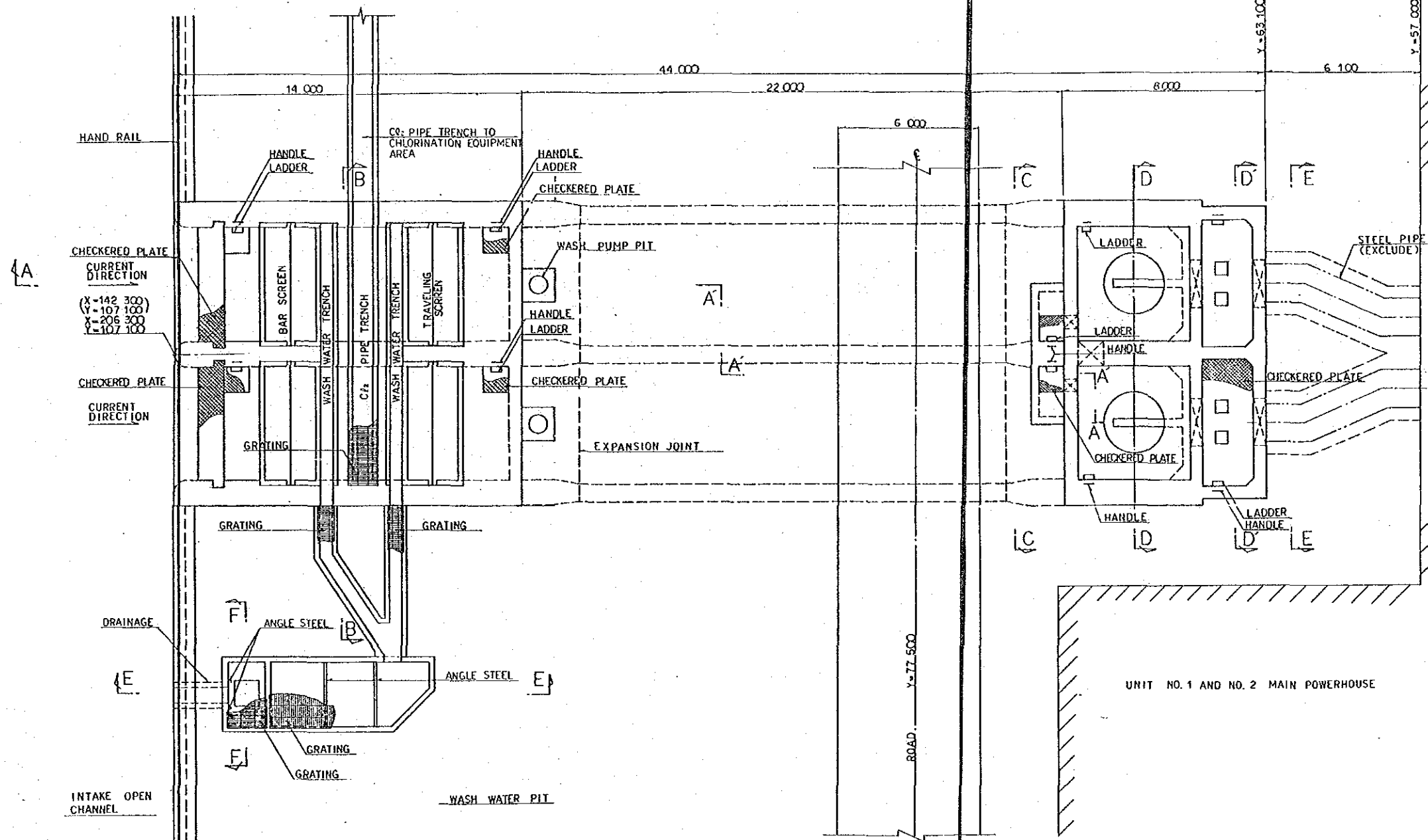
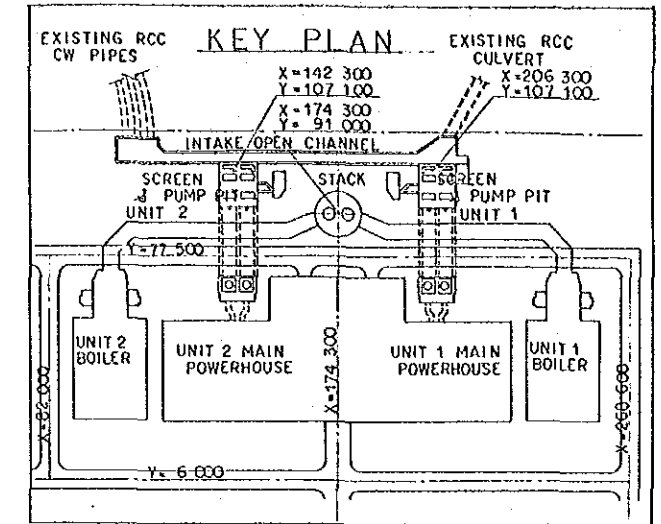
NOTE: THE MATERIALS WITH MARK(*) SHALL BE STAINLESS STEEL (SUS-304)

GRAPHIC SCALES

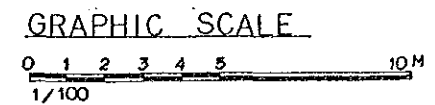


PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
INTAKE OPEN CHANNEL			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY	REVIEWED BY	CHECKED BY	DRAWN BY
<i>K. A. Kijina</i>	<i>A. Kijina</i>	<i>J.P.</i>	<i>J. J.</i>
DRAWING NO.	SCALE	DATE	
WCT-1102	AS SHOWN	10TH JAN, 1990	

PLAN
S = 1/100

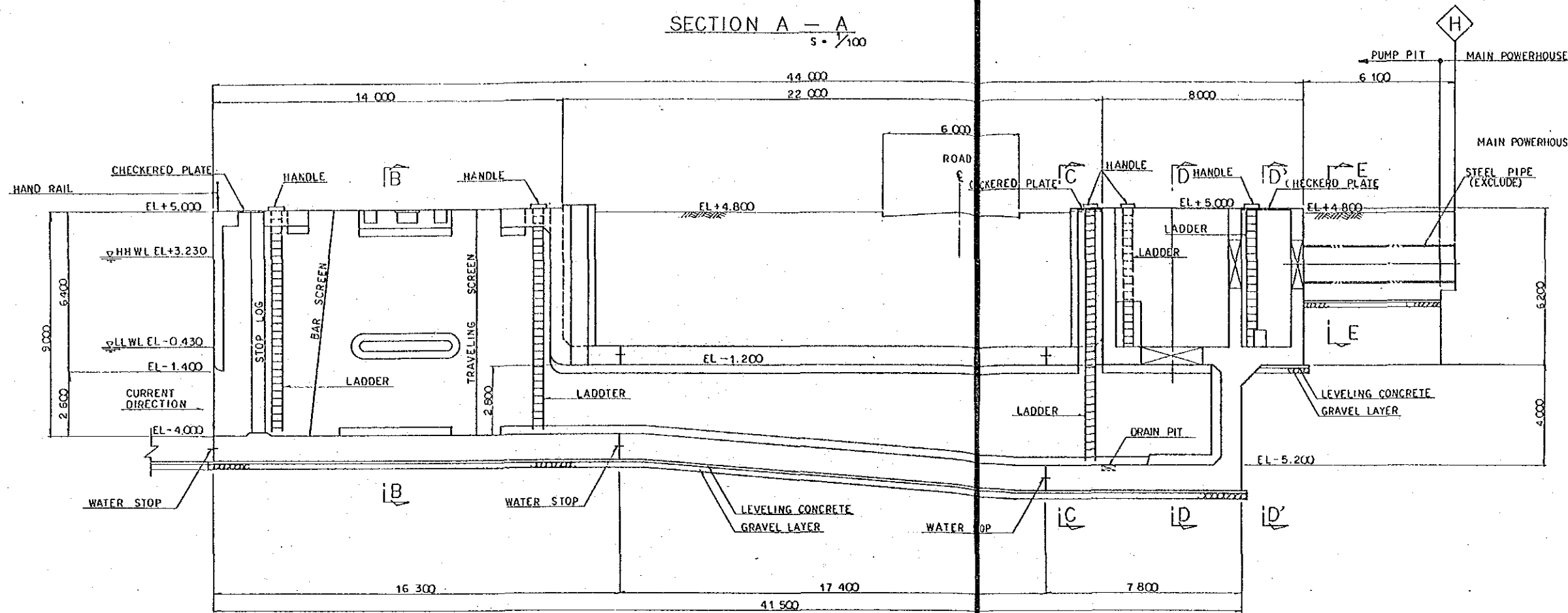


NOTE: 1. () INDICATES UNIT 2.
 2. FOR THE SECTION A-A, B-B, C-C, D-D AND E-E SEE DWG NO. WCT-1104 (PUMP PIT 2).
 3. FOR THE SECTION E-E AND F-F SEE DWG NO. WCT-1105 (PUMP PIT - 3).

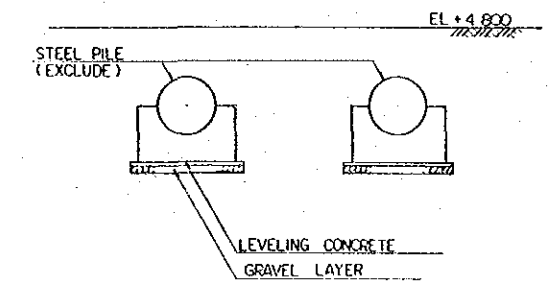


PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
PUMP PIT - 1			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY	REVIEWED BY	CHECKED BY	DRAWN BY
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
DRAWING NO.	SCALE	DATE	
WCT-1103	AS SHOWN	10TH JAN. 1990	

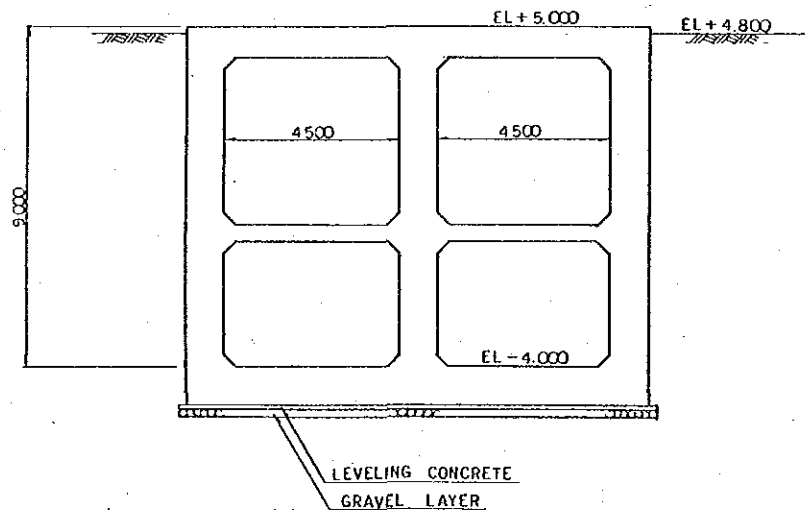
SECTION A - A
S = 1/100



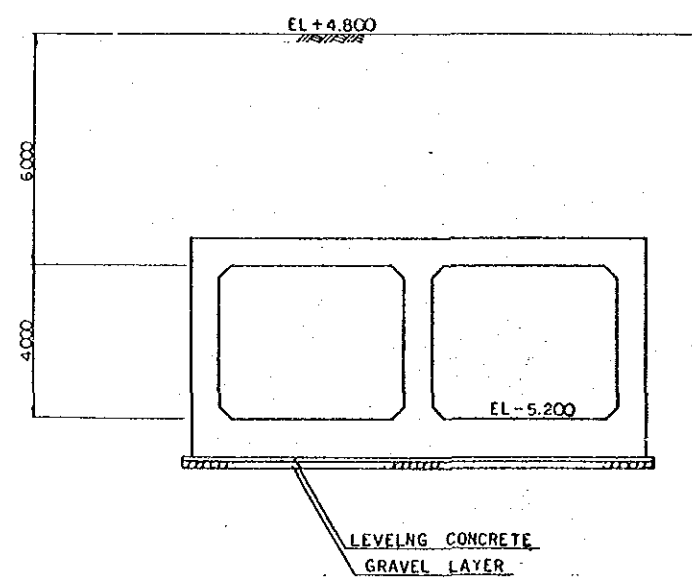
SECTION E-E
S = 1/100



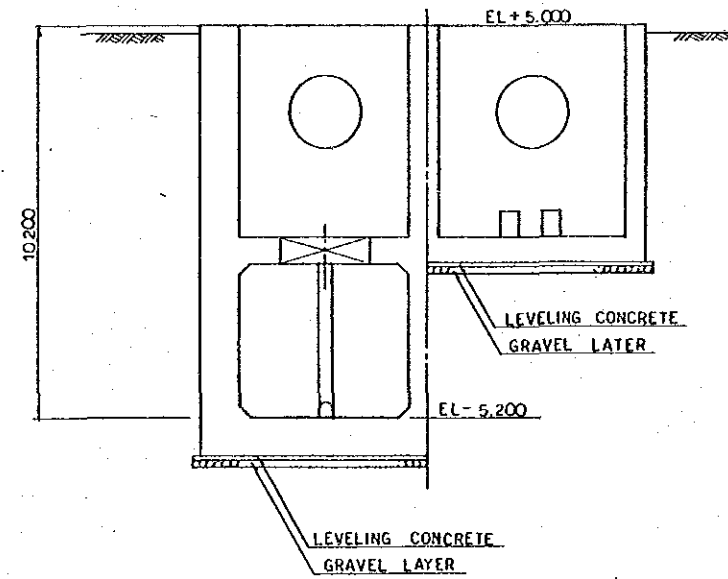
SECTION B - B
S = 1/100



SECTION C - C
S = 1/100

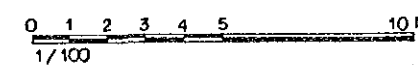


SECTION D - D SECTION D' - D'
S = 1/100 S = 1/100



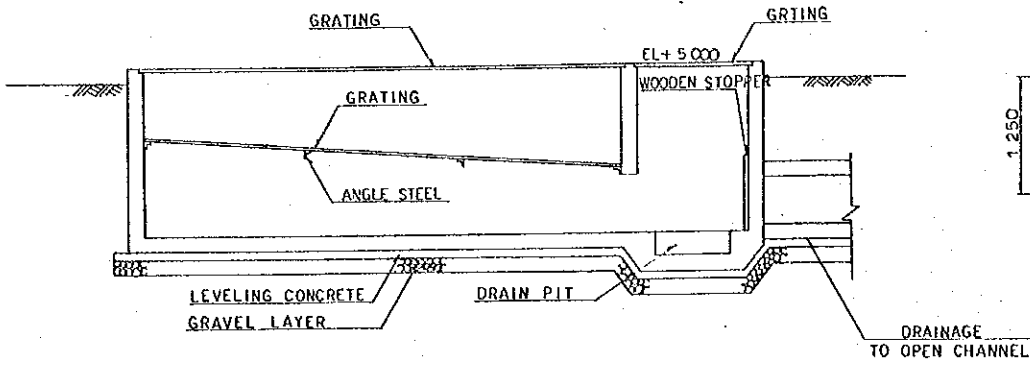
NOTE: 1, FOR THE LOCATION OF SECTION A-A, B-B, C-C, D-D AND D'-D', SEE DWG NO. WCT-1103 (PUMP PIT-1)

GRAPHIC SCALE

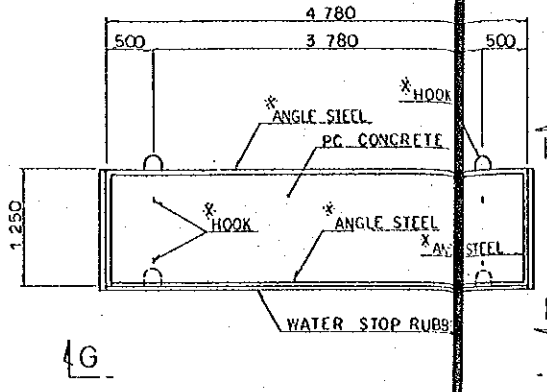


PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
PUMP PIT-2			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY	REVIEWED BY	CHECKED BY	DRAWN BY
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
DRAWING NO.	SCALE	DATE	
WCT-1104	AS SHOWN	10TH JAN, 1990	

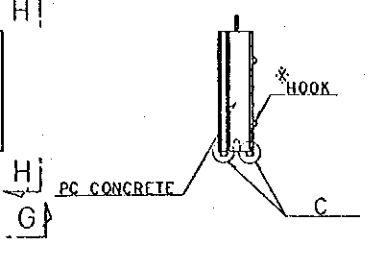
SECTION E - E
S = 1/50



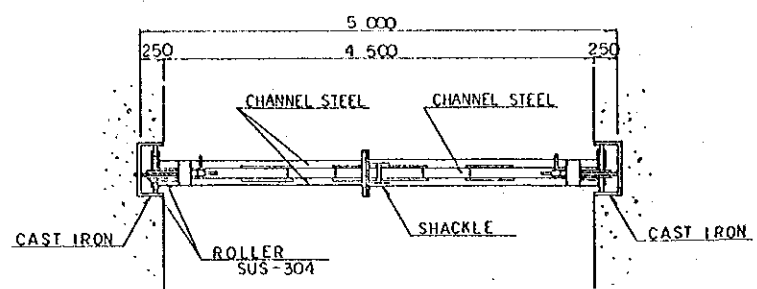
STOP LOG
S = 1/40



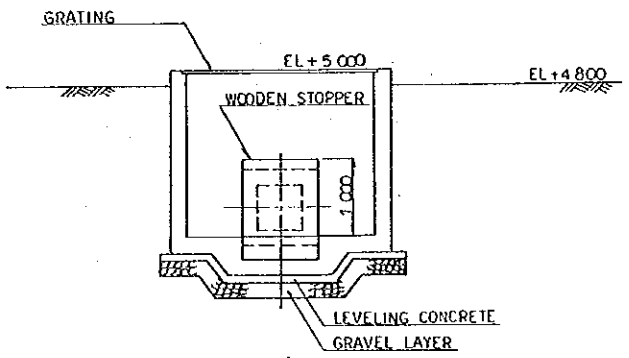
SECTION H - H
S = 1/40



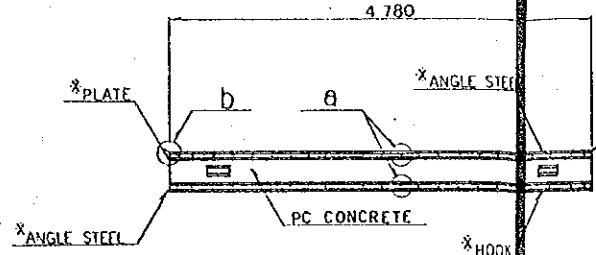
LIFTING BEAM
S = 1/40



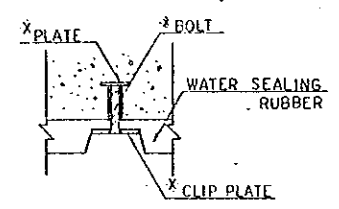
SECTION F - F
S = 1/50



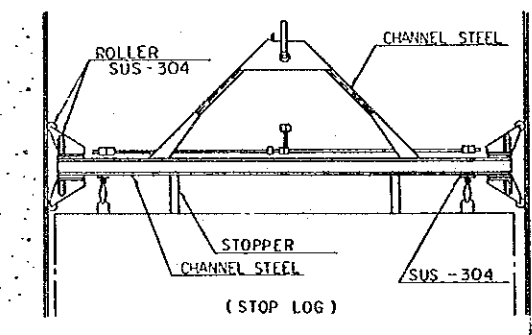
SECTION G - G
S = 1/40



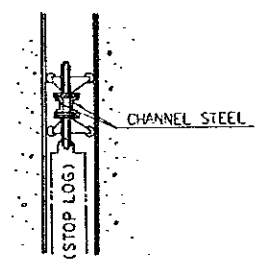
DETAIL a
S = 1/4



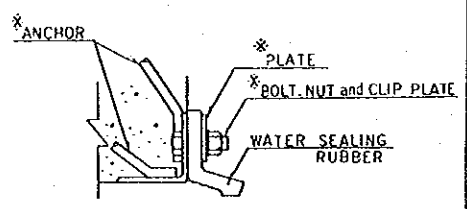
FRONT VIEW
S = 1/40



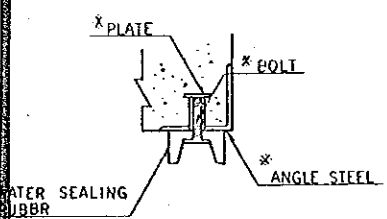
SIDE VIEW
S = 1/40



DETAIL b
S = 1/4

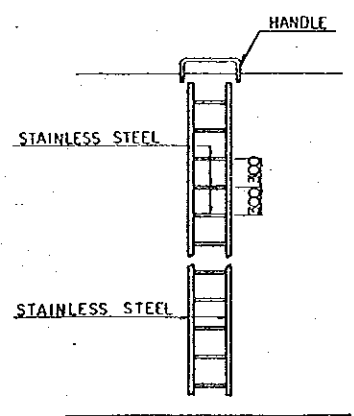


DETAIL c
S = 1/4

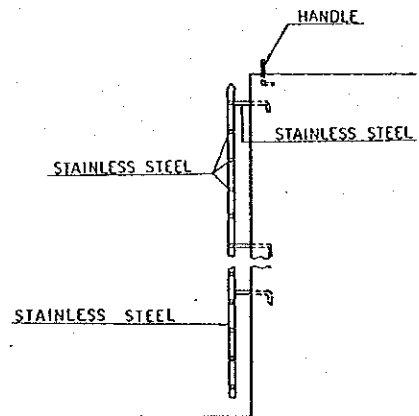


LADDER

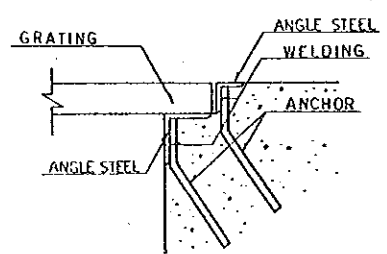
FRONT VIEW
S = 1/40



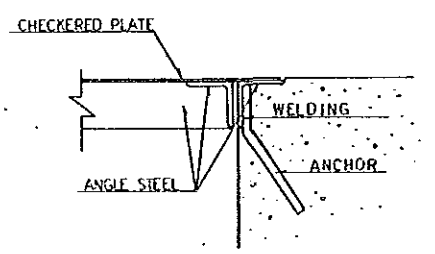
SIDE VIEW
S = 1/40



GRATING CORNER
S = 1/4



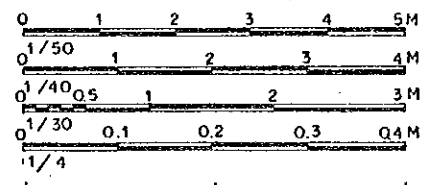
CHECKER PLATE CORNER
S = 1/4



NOTES:

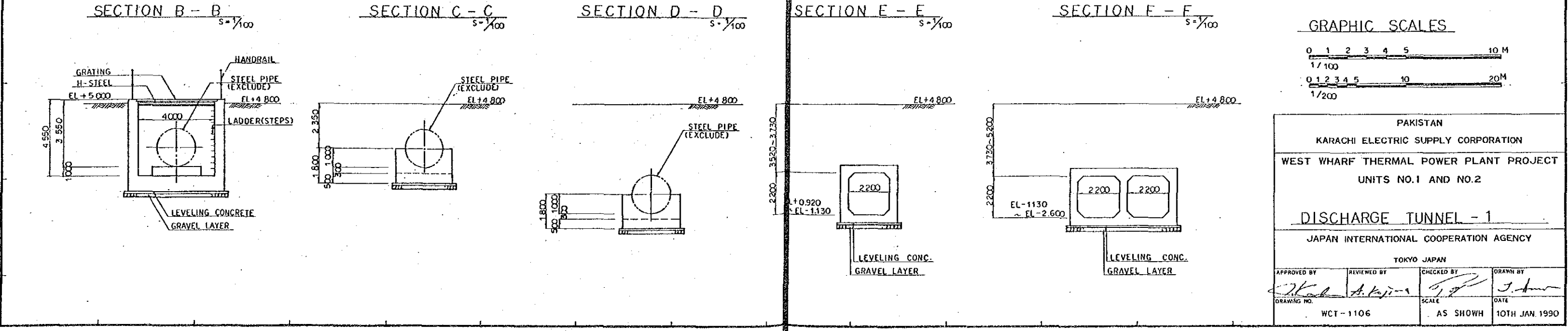
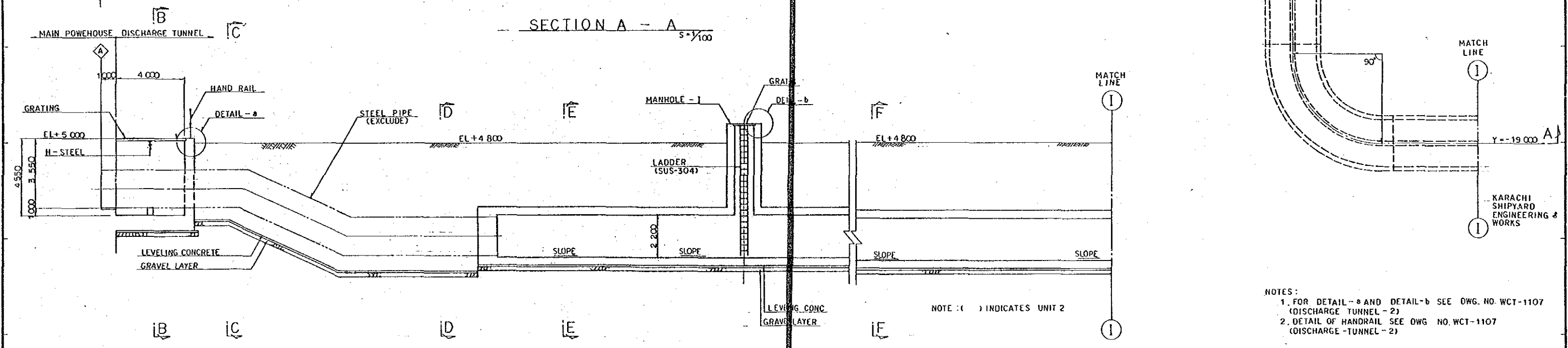
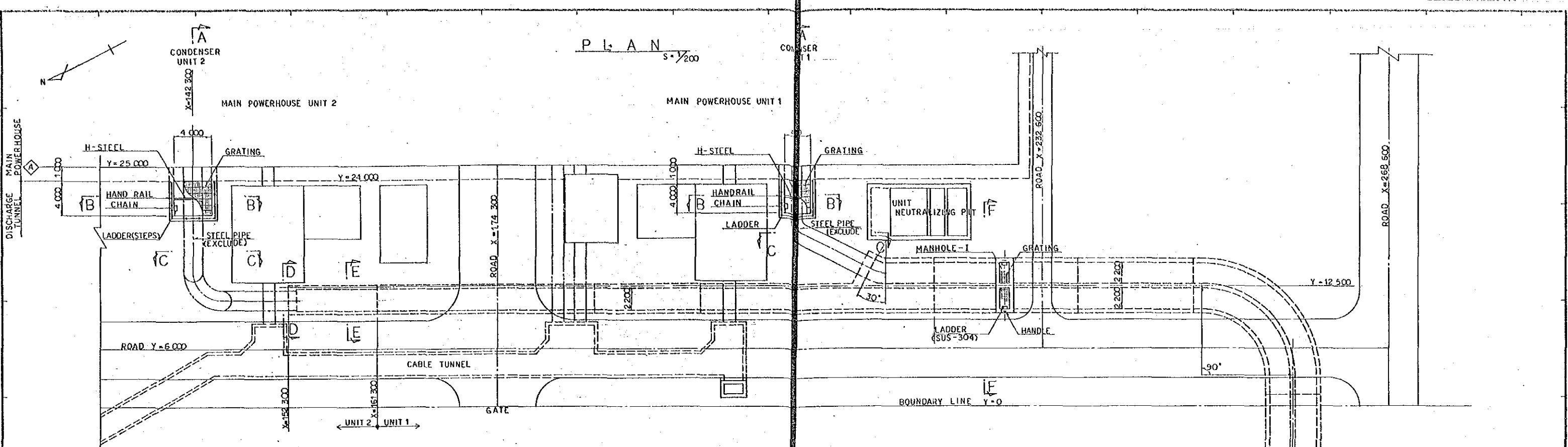
- FOR THE LOCATION OF SECTION E-E AND F-F, SEE DWG. NO. WCT-1103 (PUMP PIT-2)
- THE MATERIALS WITH MARK(*) SHALL BE STAINLESS STEEL (SUS-304).

GRAPHIC SCALES

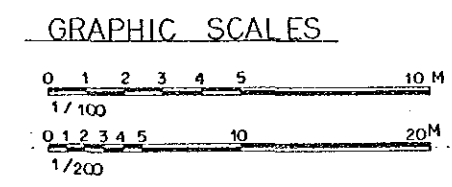


PAKISTAN
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WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
PUMP PIT - 3
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TOKYO JAPAN

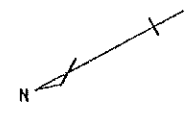
APPROVED BY <i>[Signature]</i>	REVIEWED BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>
DRAWING NO. WCT-1105		SCALE AS SHOWN	DATE 10TH JAN, 1990



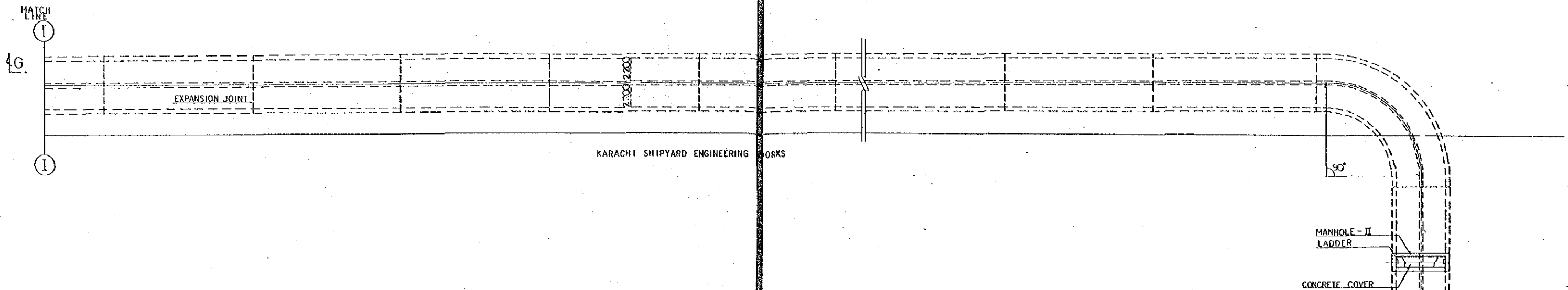
NOTES:
1. FOR DETAIL - a AND DETAIL - b SEE DWG. NO. WCT-1107 (DISCHARGE TUNNEL - 2)
2. DETAIL OF HANDRAIL SEE DWG. NO. WCT-1107 (DISCHARGE TUNNEL - 2)



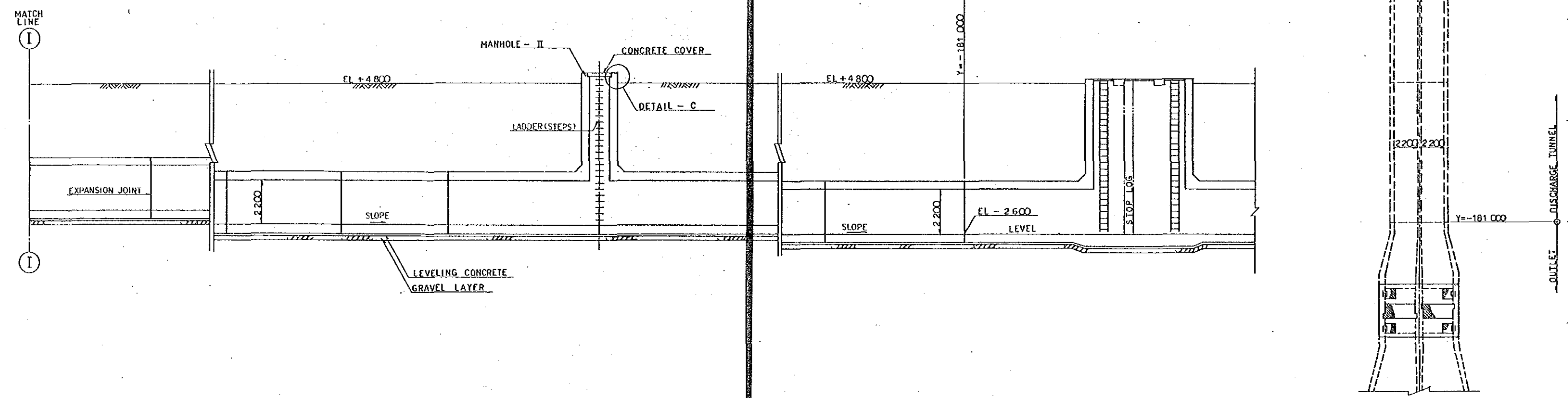
PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
DISCHARGE TUNNEL - 1			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY	REVIEWED BY	CHECKED BY	DRAWN BY
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DRAWING NO.	SCALE	DATE	
WCT-1106	AS SHOWN	10TH JAN 1990	



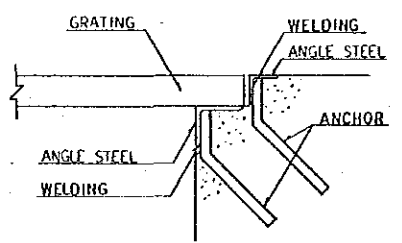
PLAN
S=1/200



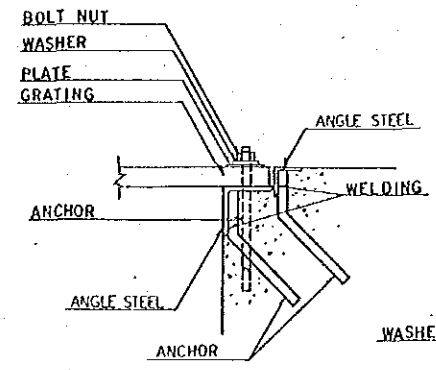
SECTION G - G
S=1/100



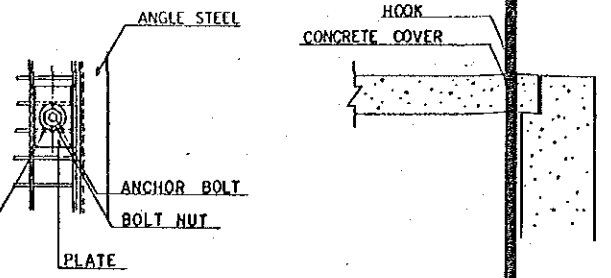
DETAIL - a
S=1/4



DETAIL - b
S=1/4

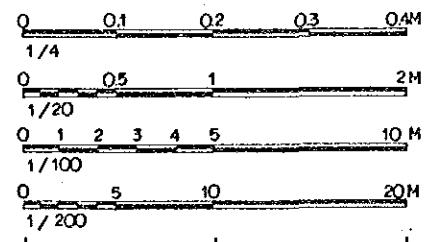


DETAIL - c
S=1/20



NOTES:
1. FOR THE LOCATION OF DETAIL - a AND DETAIL - b SEE DWG NO. WCT-1106 (DISCHARGE TUNNEL - 1).

GRAPHIC SCALES



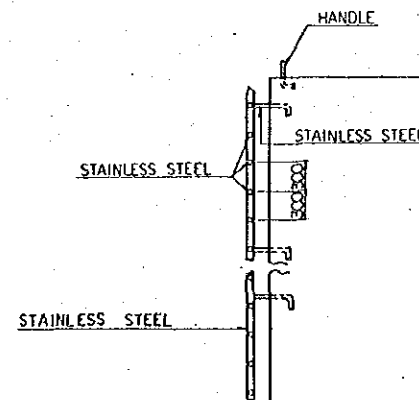
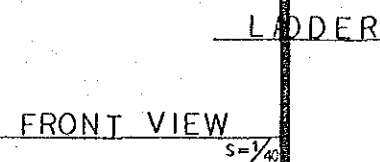
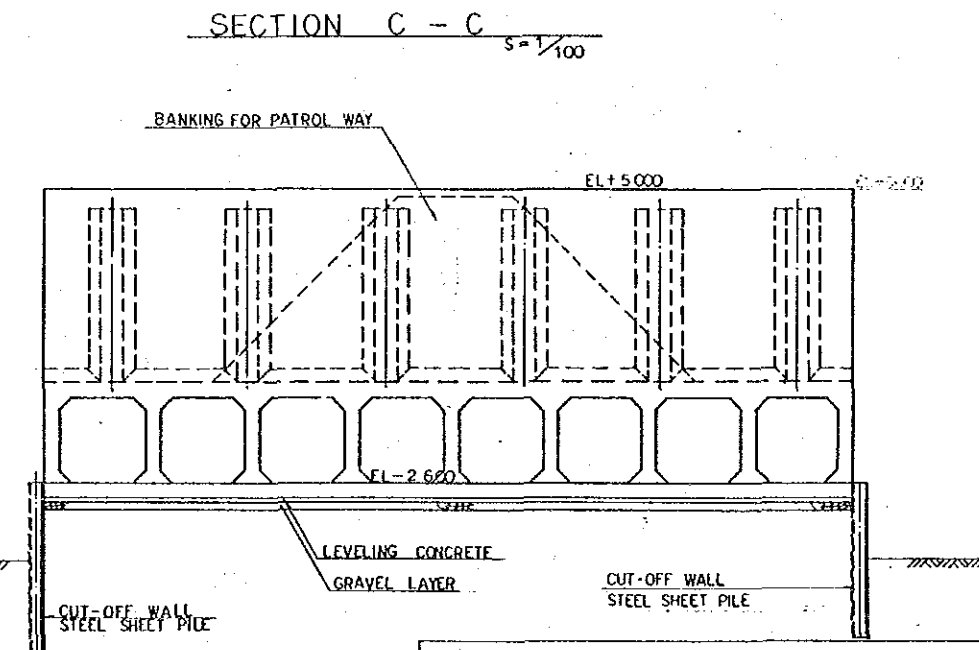
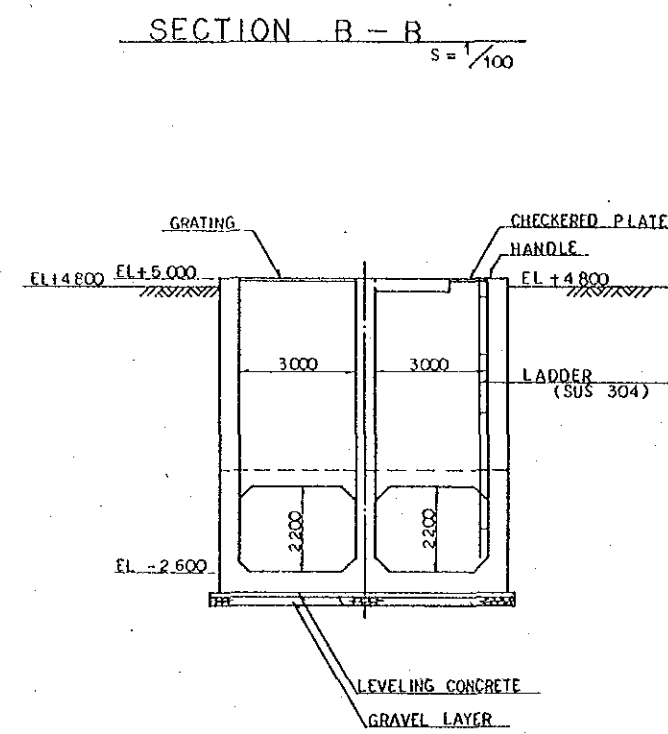
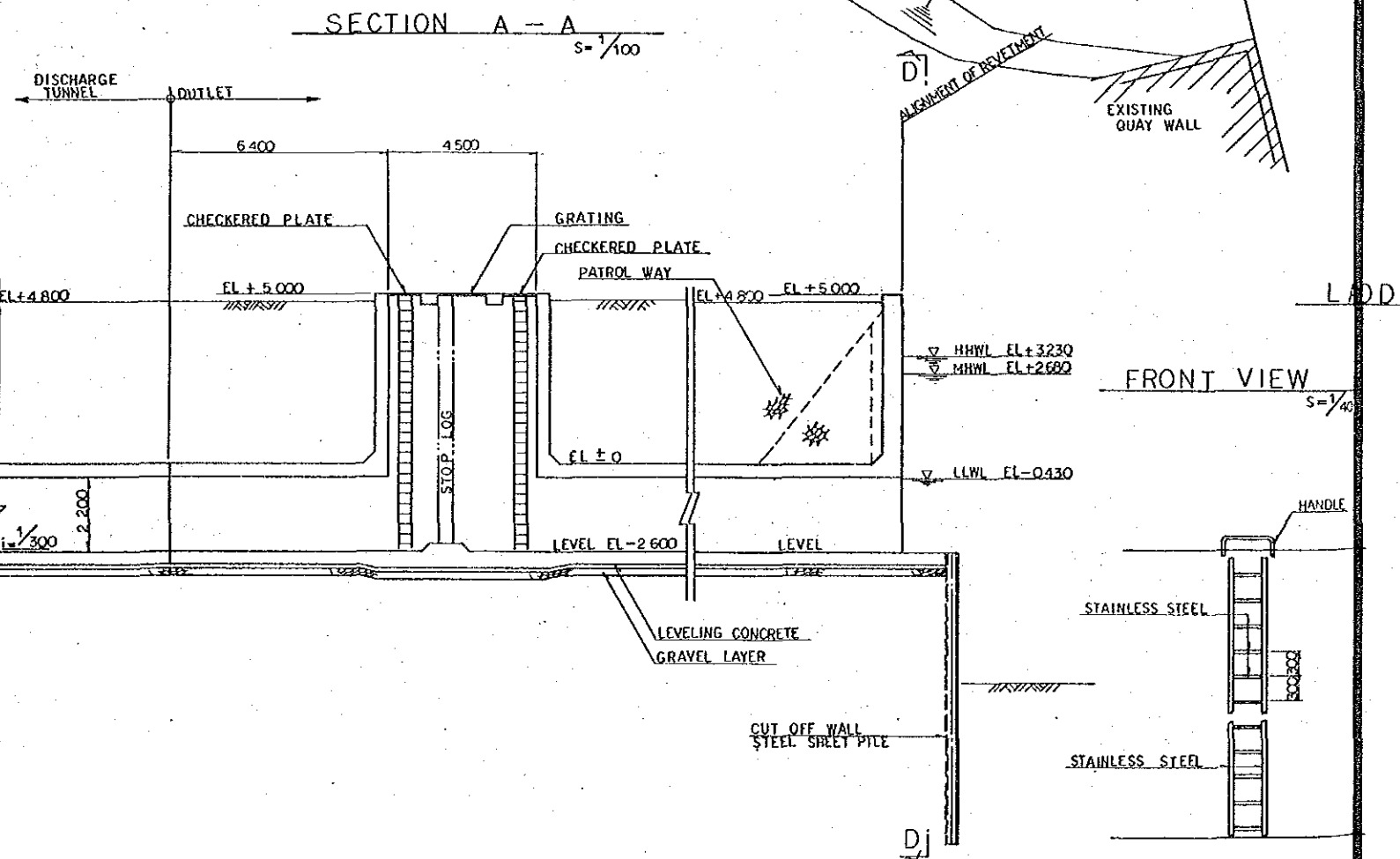
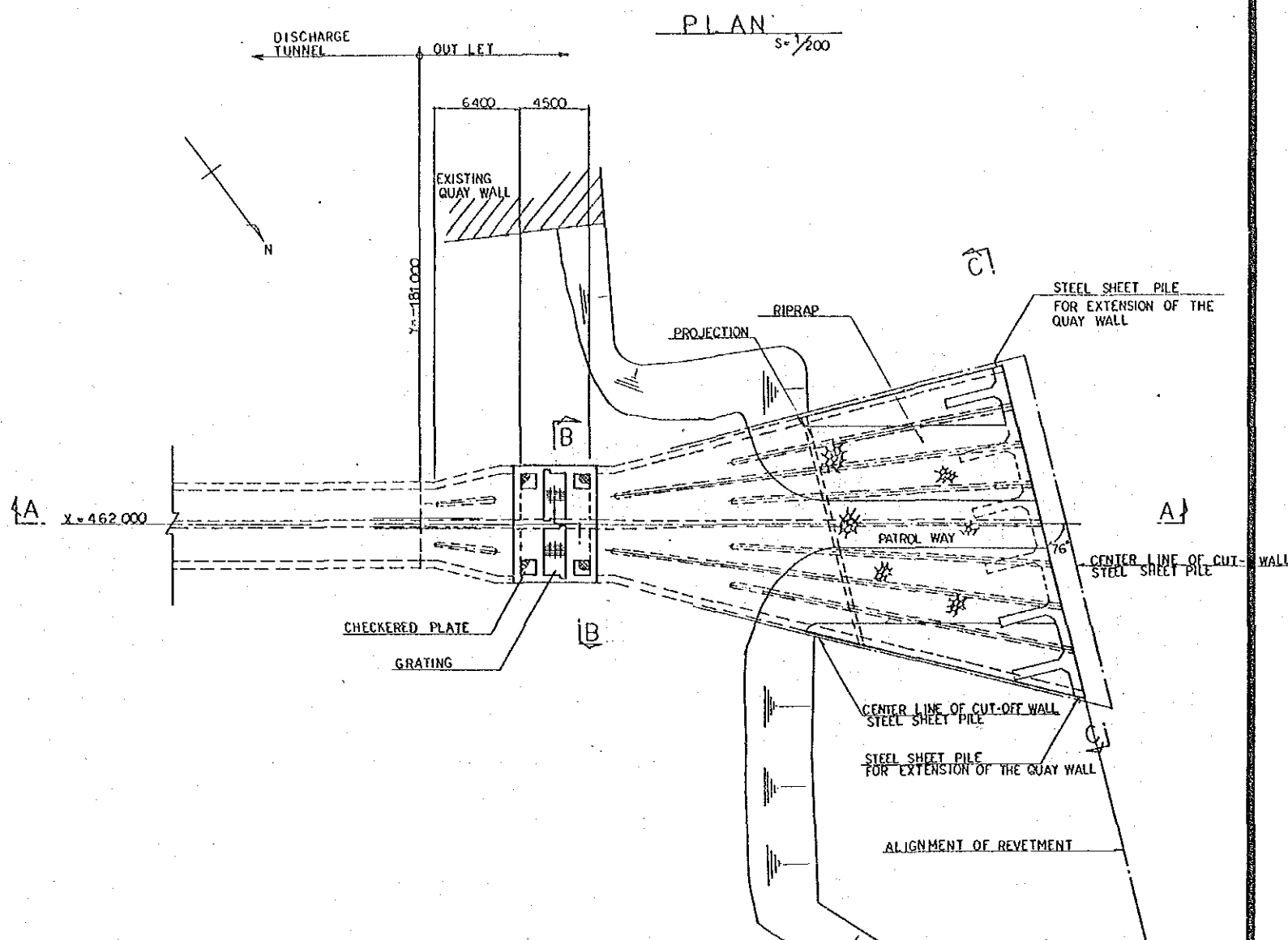
PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION

WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2

DISCHARGE TUNNEL - 2

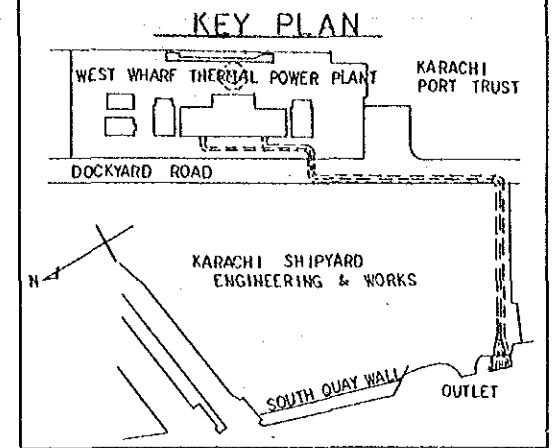
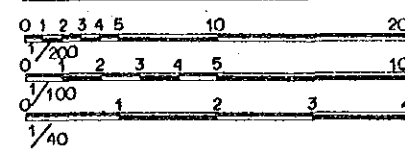
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

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DRAWING NO. WCT-1107		SCALE AS SHOWN	
		DATE 10TH JAN. 1990	



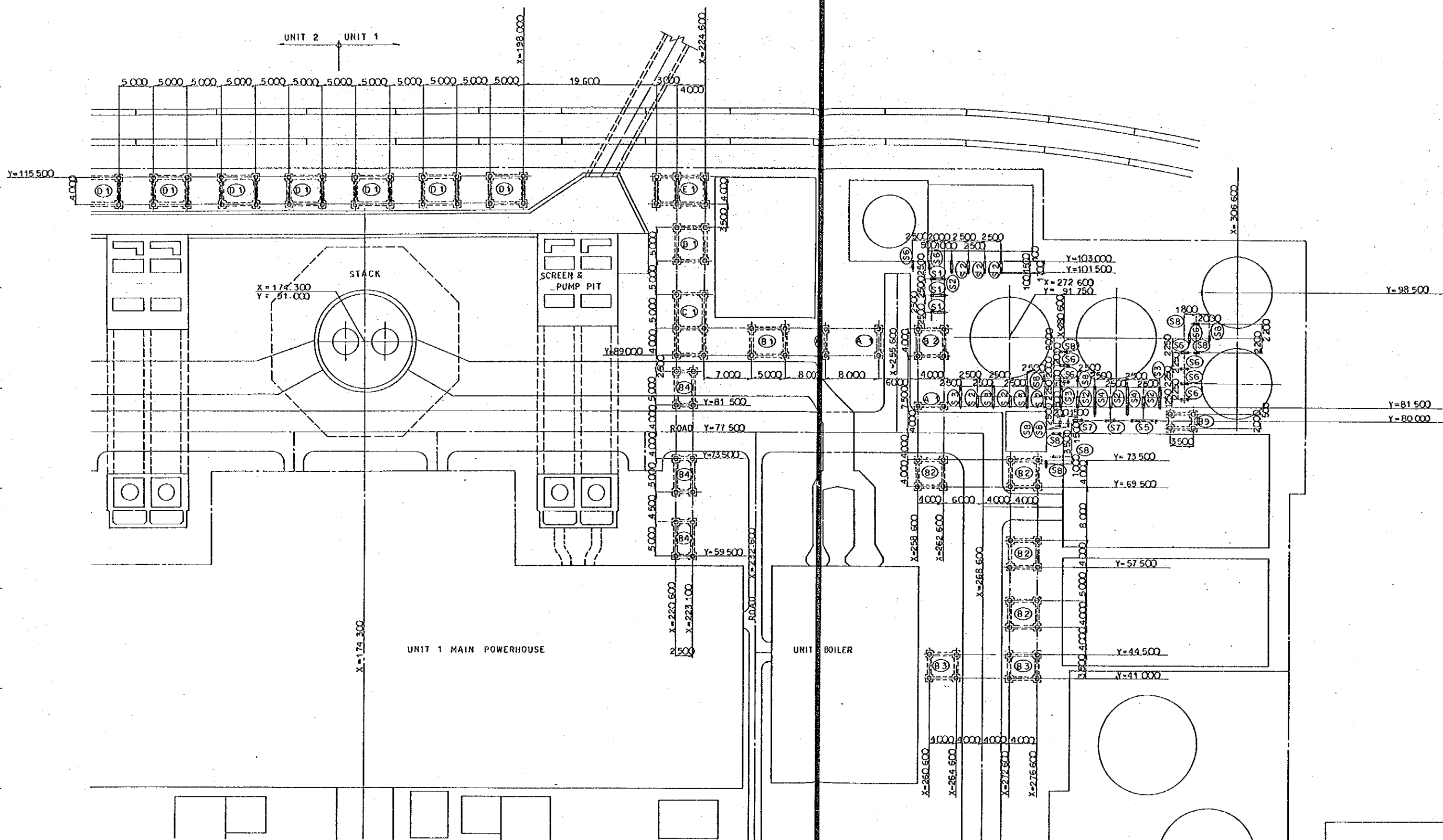
- NOTE:
1. DETAIL OF GRATING CORNER SEE DWG NO. WCT-1103 (PUMP PIT - 3).
 2. DETAIL OF CHECKERED PLATE CORNER SEE DWG NO. WCT-1103 (PUMP PIT - 3).

GRAPHIC SCALES

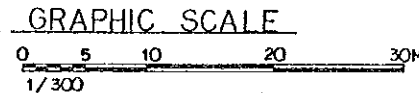


PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
OUTLET			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY	REVIEWED BY	CHECKED BY	DRAWN BY
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
DRAWING NO.	SCALE	DATE	
WCT-1108	AS SHOWN	10TH JAN. 1990	

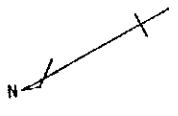
PLAN
S=1/300



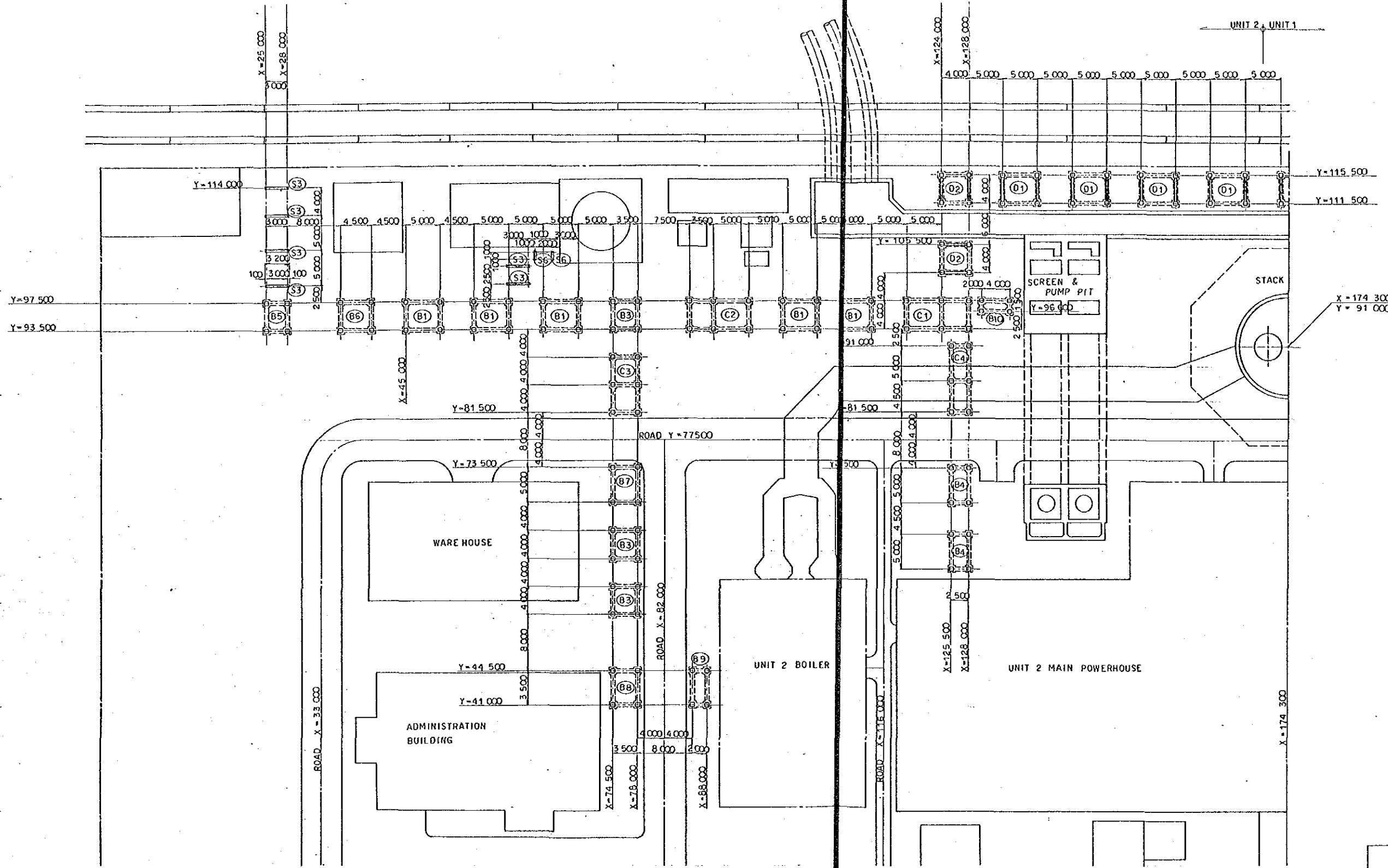
- NOTE 1. SHOW TYPE OF OUTDOOR PIPE SUPPORT FOUNDATION.
2. THE RACK FOUNDATION SHALL BE PROVIDED THE PILE AT EACH OF PEDESTAL.



PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
OUTDOOR PIPE SUPPORT FOUNDATION - 1			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY <i>[Signature]</i>	REVIEWED BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>
DRAWING NO. WCT-1201	SCALE AS SHOWN	DATE 10TH JAN. 1990	



PLAN
S-1/300



NOTE: 1. SHOW TYPE OF OUTDOOR PIPE SUPPORT FOUNDATION.

2. THE RACK FOUNDATION SHALL BE PROVIDED THE PILE AT EACH OF PEDESTAL.

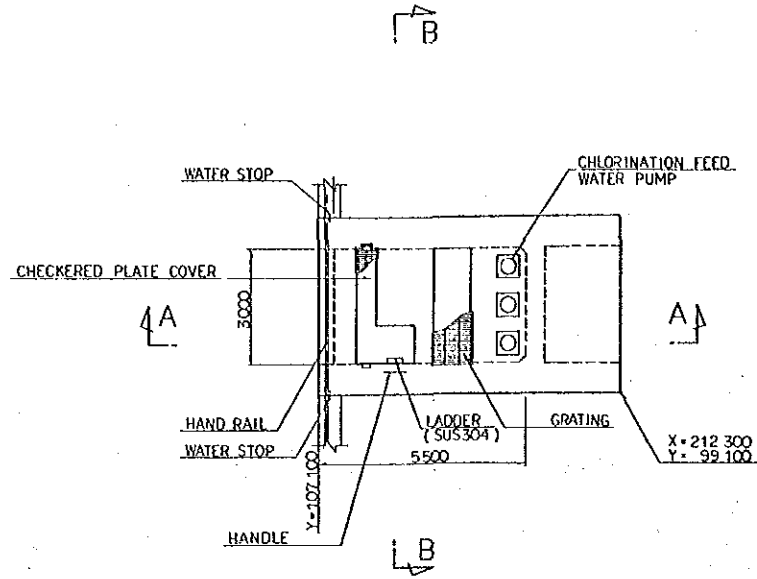
GRAPHIC SCALE



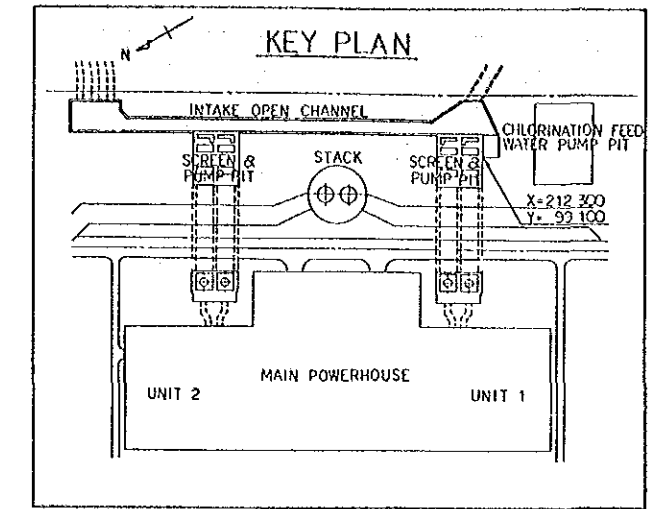
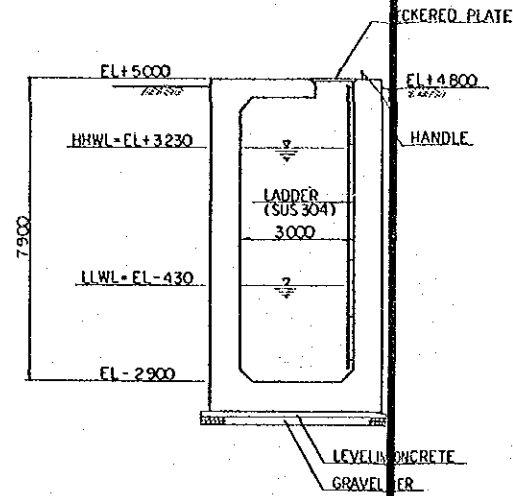
PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
OUTDOOR PIPE			
SUPPORT FOUNDATION - 2			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY 	REVIEWED BY 	CHECKED BY 	DRAWN BY
DRAWING NO. WCT-1202	SCALE AS SHOWN	DATE 10TH JAN, 1990	

CHLORINATION FEED WATER PUMP PIT
S = 1/100

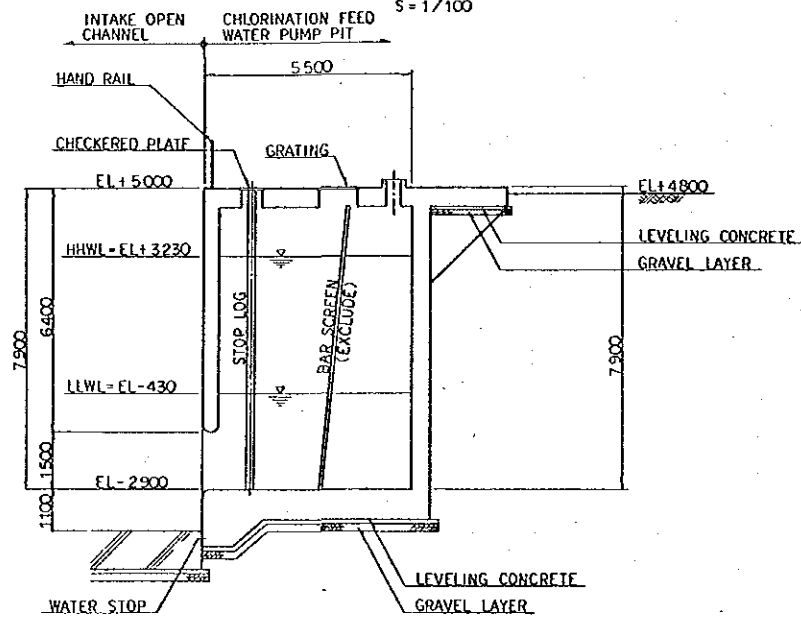
PLAN
S = 1/100



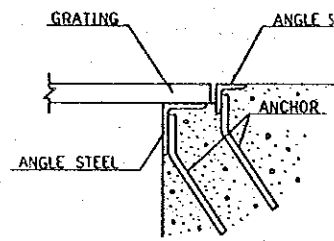
SECTION B-B
S = 1/100



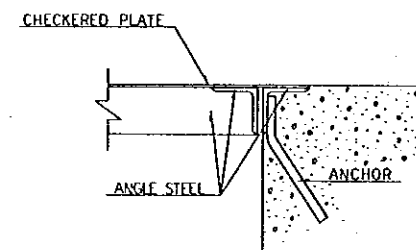
SECTION A-A
S = 1/100



GRATING CORNER
S = 1/4

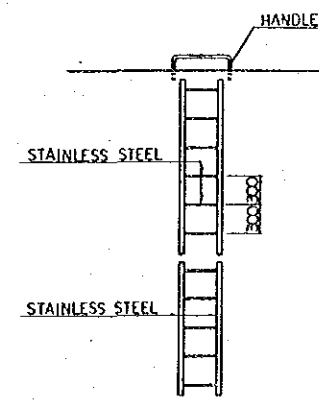


CHECKERED PLATE CORNER
S = 1/4

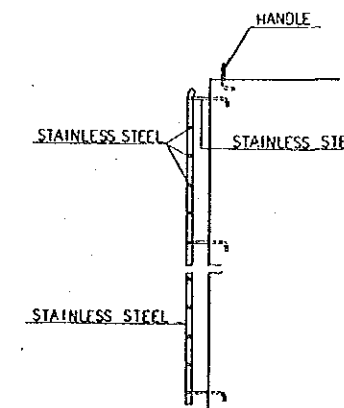


LADDER

FRONT VIEW
S = 1/40

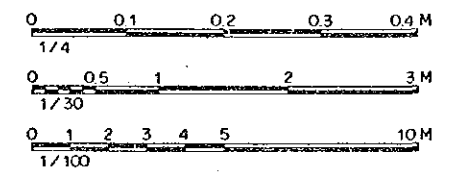


SIDE VIEW
S = 1/40



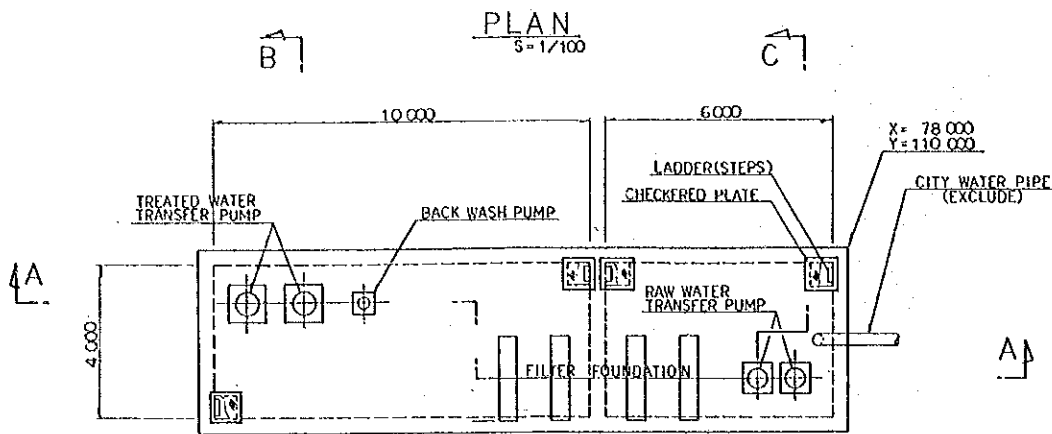
NOTE: 1. THE MATERIALS WITH MARK (X) SHALL BE STAINLESS STEEL (SUS-304).

GRAPHIC SCALES



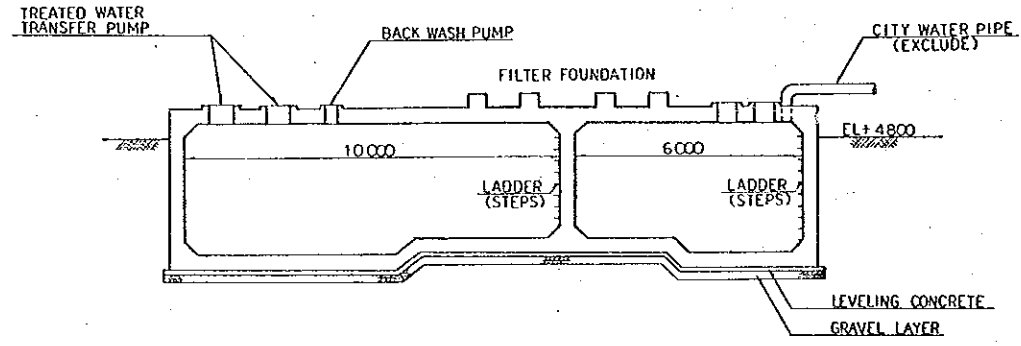
PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
CHLORINATION FEED WATER PUMP PIT			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY <i>[Signature]</i>	REVIEWED BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>
DRAWING NO. WCT-1203	SCALE AS SHOWN	DATE 10TH JAN, 1990	

RAW WATER RECEIVING POND

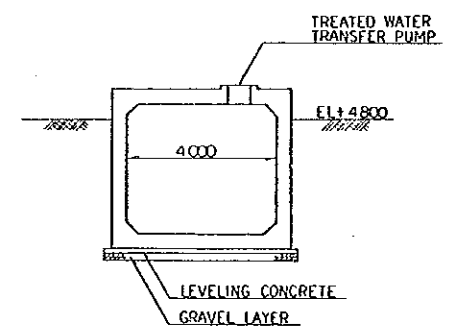


PLAN
S=1/100

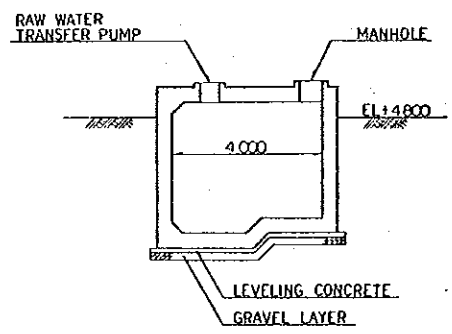
SECTION A-A
S=1/100



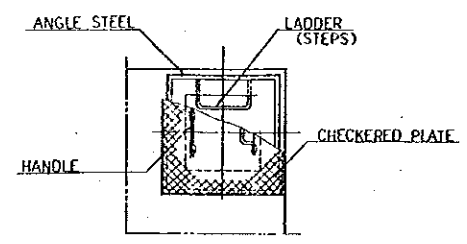
SECTION B-B
S=1/100



SECTION C-C
S=1/100

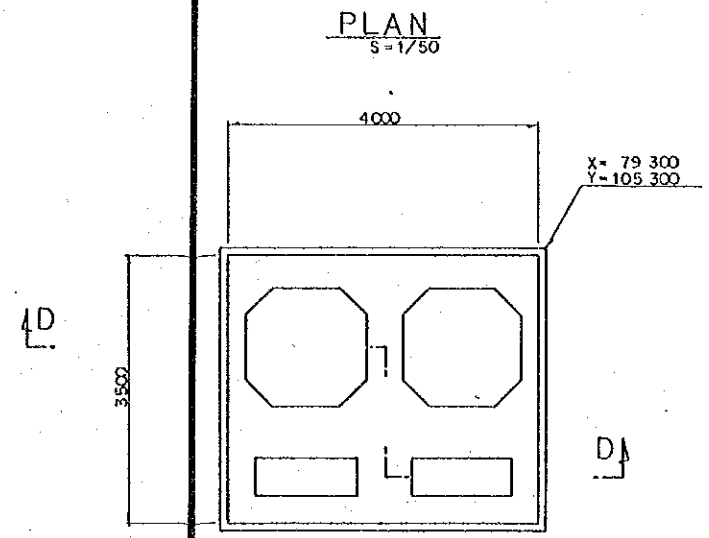


DETAIL OF CHECKERED PLATE



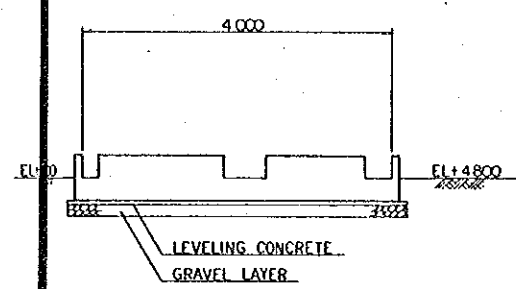
S=1/30

CHEMICAL TANK AND PUMP FOUNDATION

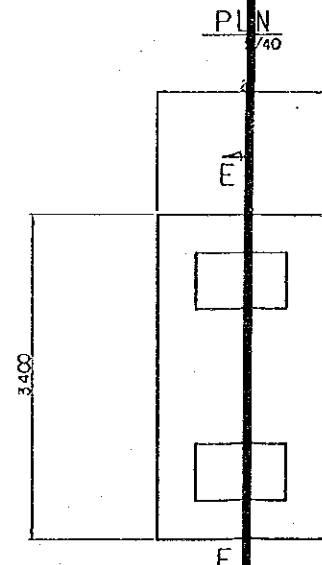


PLAN
S=1/50

SECTION D-D
S=1/50

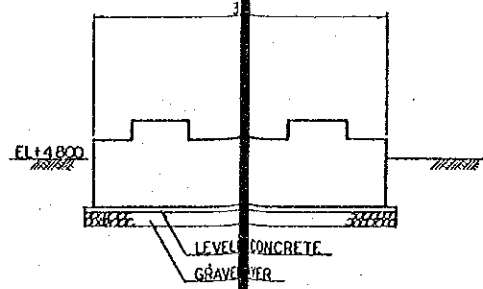


DRINKING WATER PUMP FOUNDATION

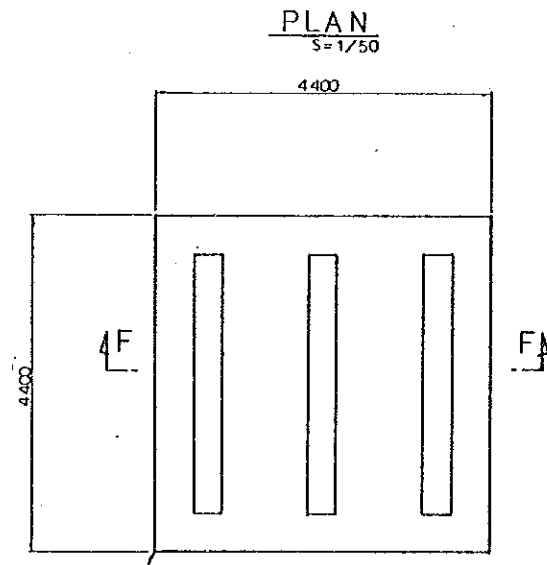


PLAN
S=1/40

SECTION E-E
S=1/40

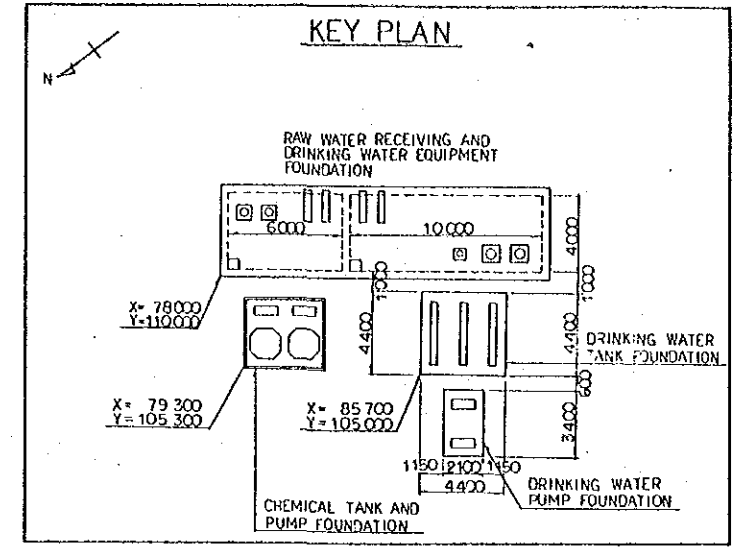
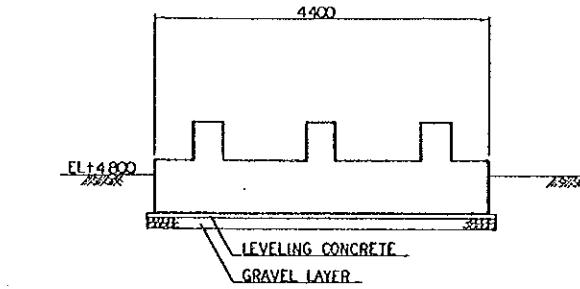


DRINKING WATER TANK FOUNDATION



PLAN
S=1/50

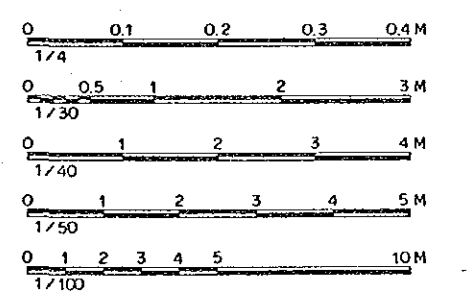
SECTION F-F
S=1/50



KEY PLAN

- NOTE: 1. THE INSIDE CONCRETE SURFACE OF THE CHEMICAL TANK AND PUMP FOUNDATION SHALL BE APPLIED ACID AND ALKALI PROOF LINING.
2. THE INSIDE CONCRETE SURFACE OF THE RAW WATER RECEIVING POND SHALL BE APPLIED WATER PROOF COATING.

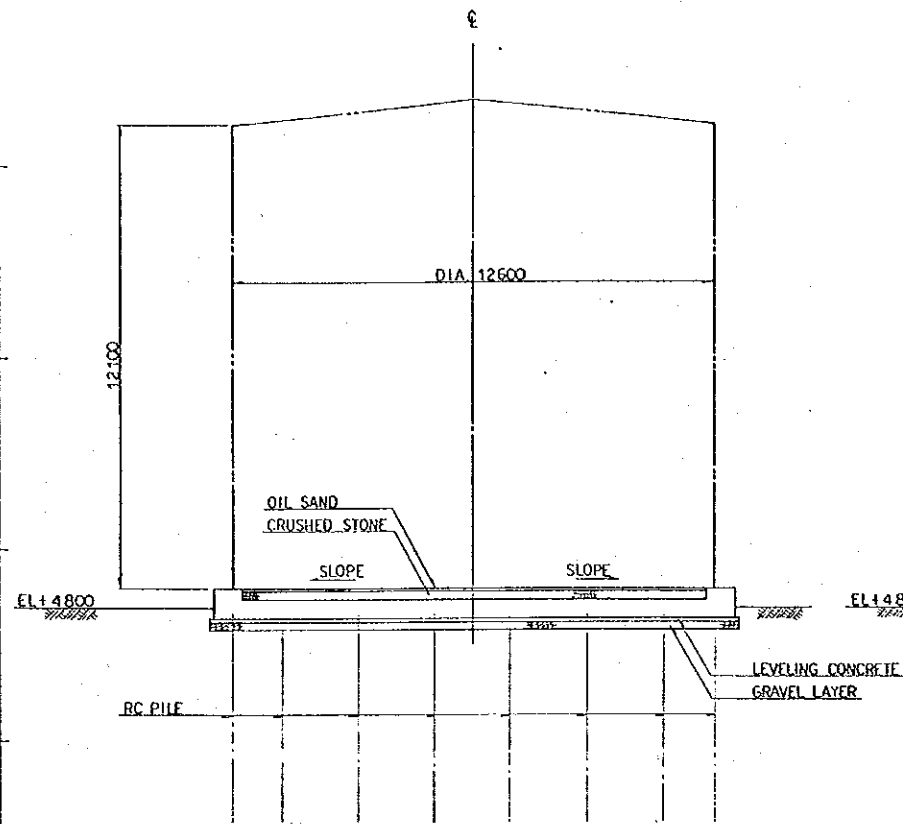
GRAPHIC SCALES



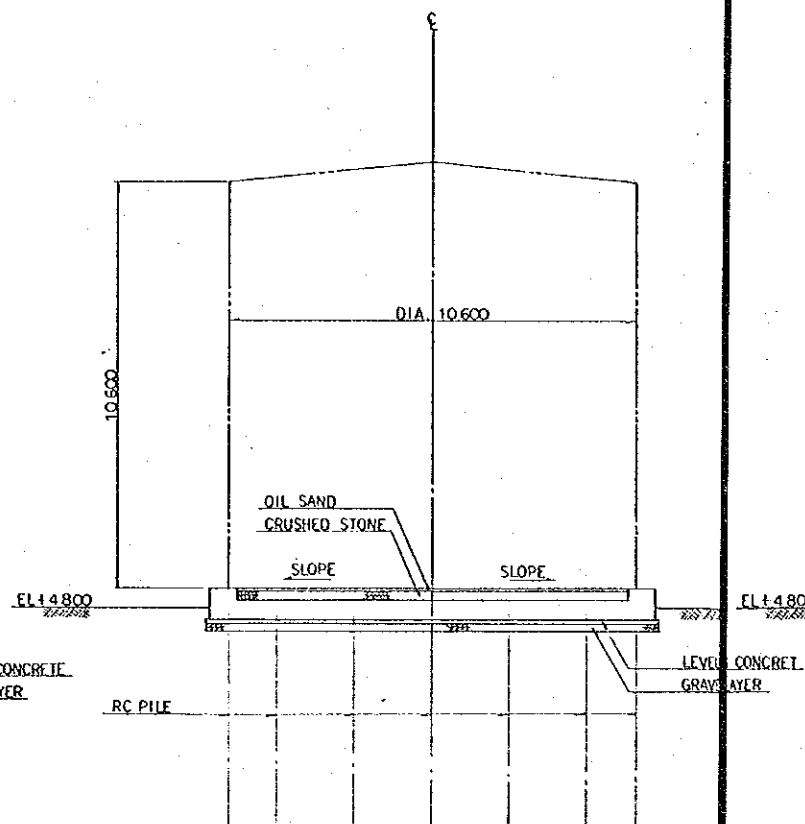
PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
RAW WATER RECEIVING AND DRINKING WATER EQUIPMENT FOUNDATION			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY	REVIEWED BY	CHECKED BY	DRAWN BY
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
DRAWING NO.	SCALE	DATE	
WCT-1204	AS SHOWN	10TH JAN. 1990	

SECTION OF WATER TANKS
S=1/100

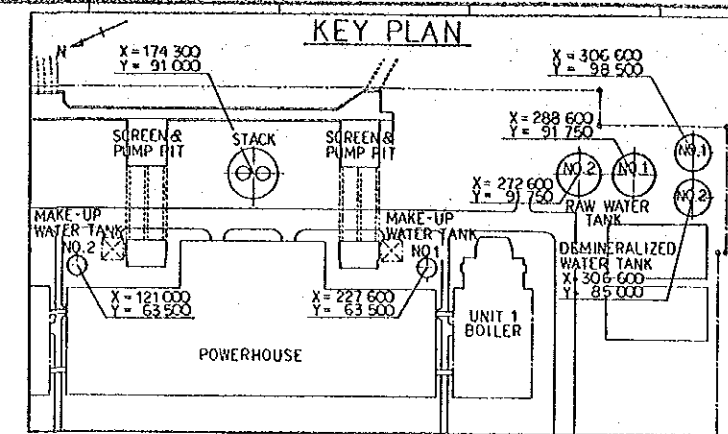
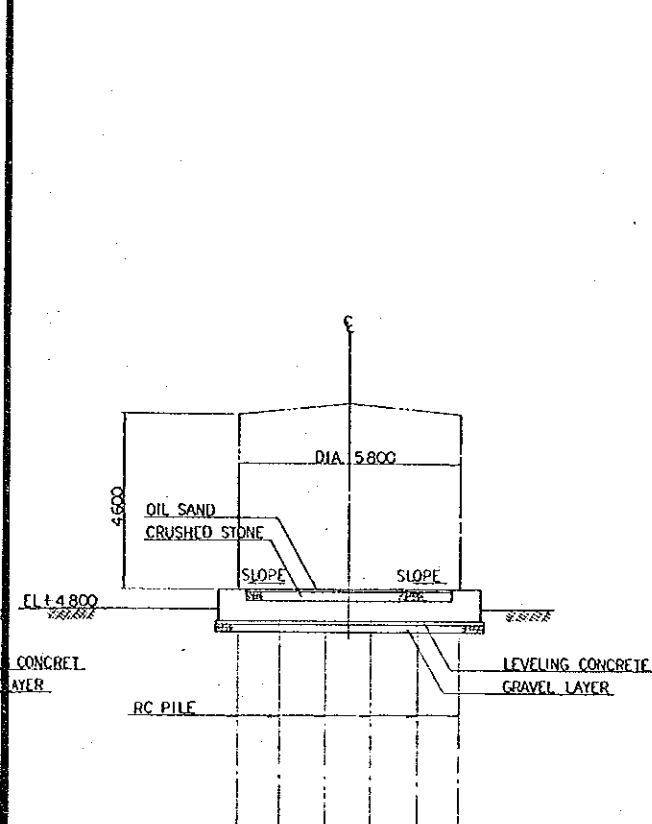
NO.1 & 2 RAW WATER TANKS



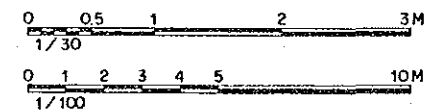
NO.1 & 2 DEMINERALIZED WATER TANKS



NO.1 & 2 MAKE-UP WATER TANKS



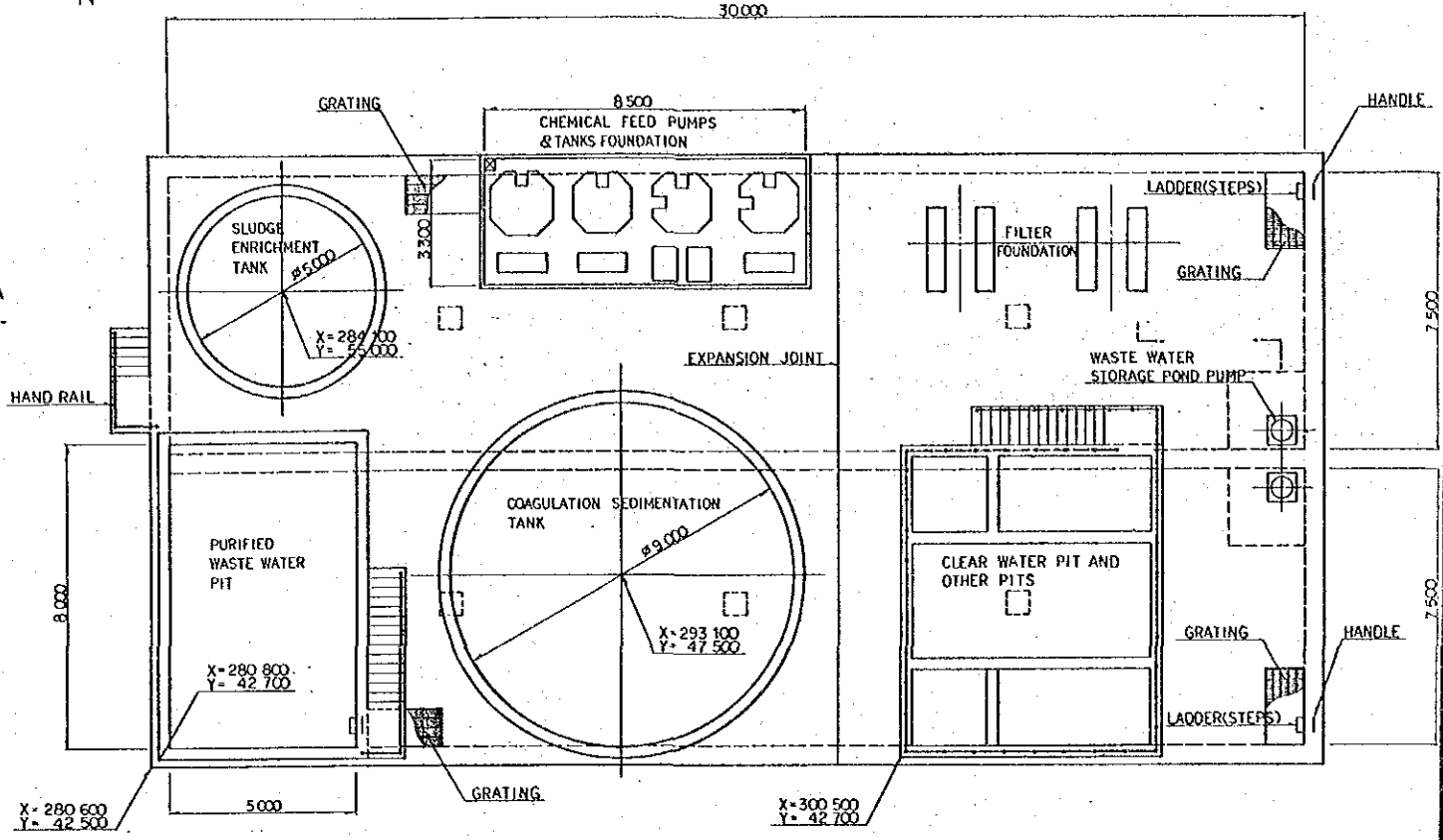
GRAPHIC SCALES



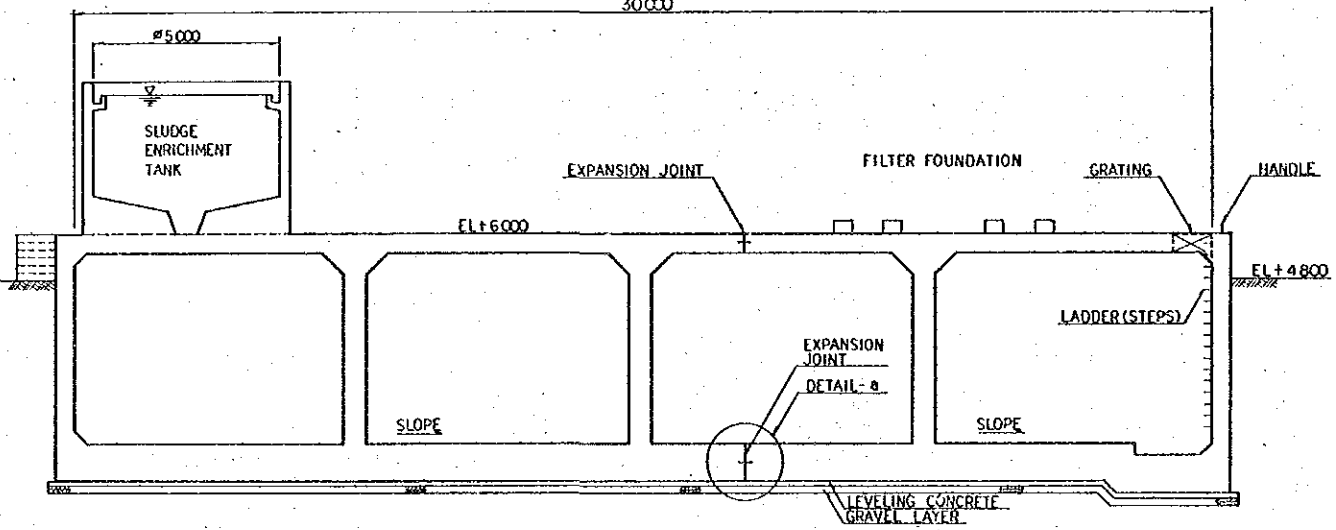
PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
RAW WATER, DEMINERALIZED WATER AND MAKE-UP WATER TANK FOUNDATION			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY	REVIEWED BY	CHECKED BY	DRAWN BY
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
DRAWING NO.	SCALE	DATE	
WCT-1205	AS SHOWN	10TH JAN, 1990	

WASTE WATER STORAGE POND

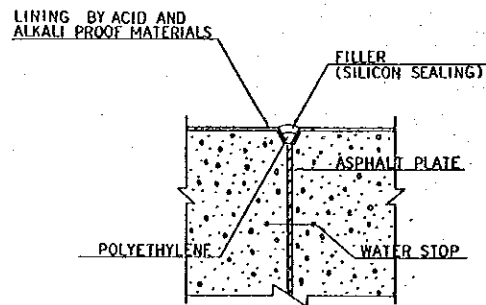
PLAN
S=1/100



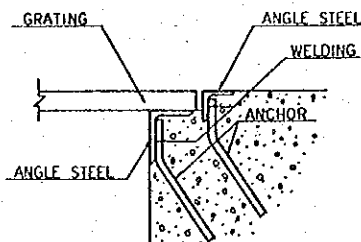
SECTION A-A
S=1/100



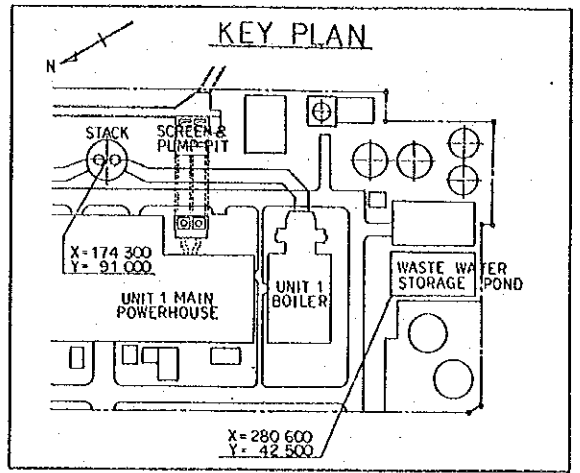
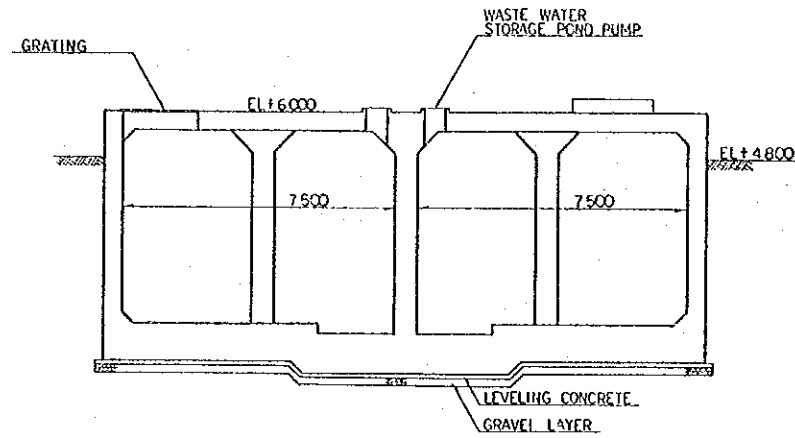
DETAIL - a
S=1/20



GRATING CORNER
S=1/4

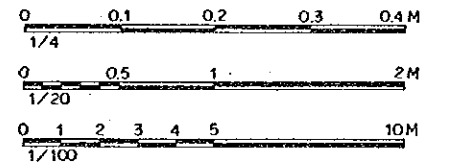


SECTION B-B
S=1/100



- NOTE: 1. THE INSIDE CONCRETE SURFACE OF THE WASTE WATER STORAGE POND SHALL BE APPLIED ACID AND ALKALI PROOF LINING.
2. FOR DETAIL OF THE COAGULATION SEDIMENTATION TANK, THE SLUDGE ENRICHMENT TANK AND THE PURIFIED WASTE WATER PIT SEE DWG NO. WCT-1207 (WASTE WATER TREATMENT FACILITIES-2).
3. FOR DETAIL OF THE CLEAR WATER PIT AND OTHER PITS AND THE CHEMICAL FEED PUMPS & TANKS FOUNDATION SEE DWG NO. WCT-1208 (WASTE WATER TREATMENT FACILITIES-3).

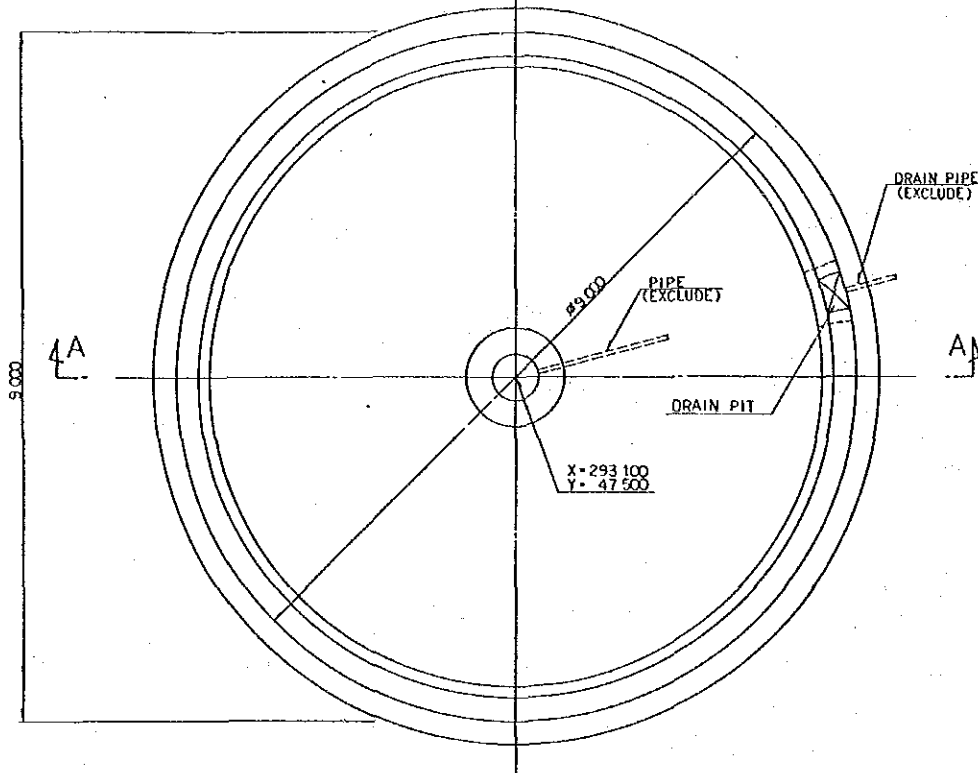
GRAPHIC SCALES



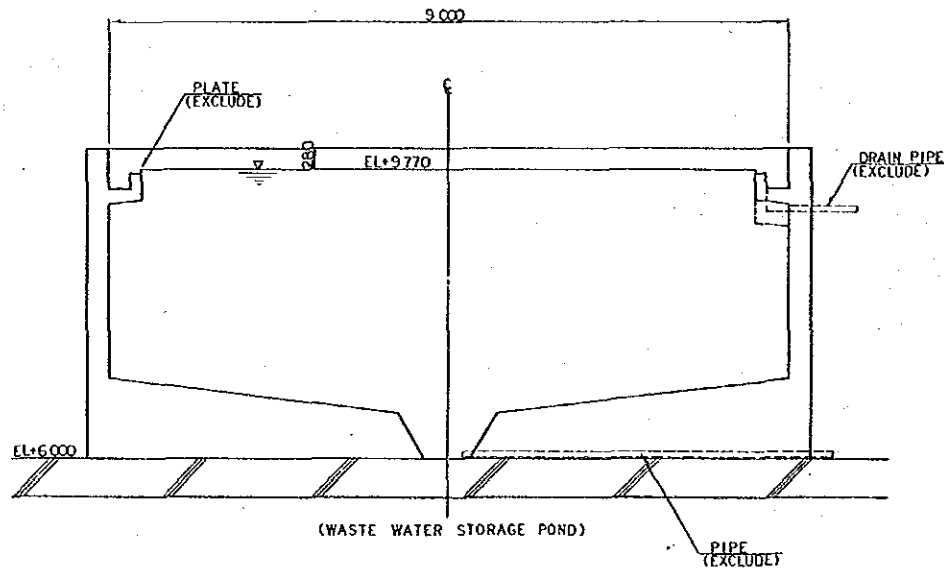
PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
WASTE WATER TREATMENT FACILITIES - 1			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY <i>[Signature]</i>	REVIEWED BY <i>A. Kajima</i>	CHECKED BY <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>
DRAWING NO. WCT-1206		SCALE AS SHOWN	DATE 10TH JAN. 1990

COAGULATION SEDIMENTATION TANK

PLAN
S=1/50

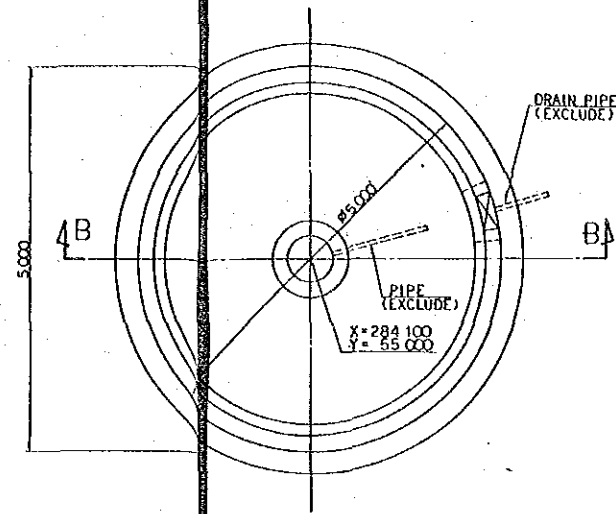


SECTION A-A
S=1/50

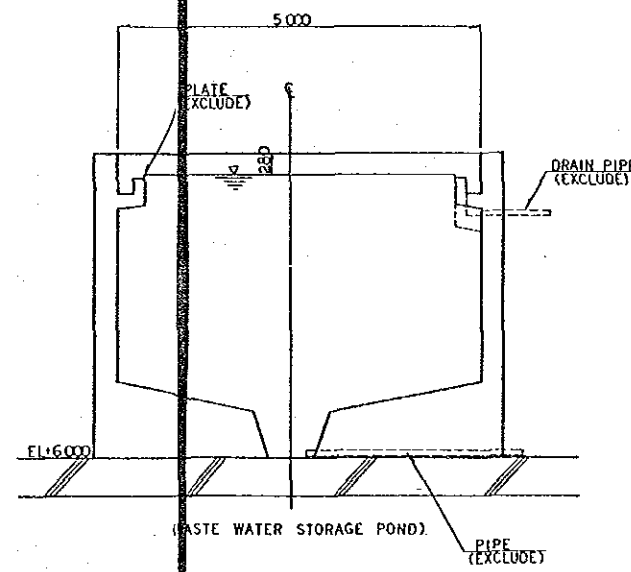


SLUDGE ENRICHMENT TANK

PLAN
S=1/50

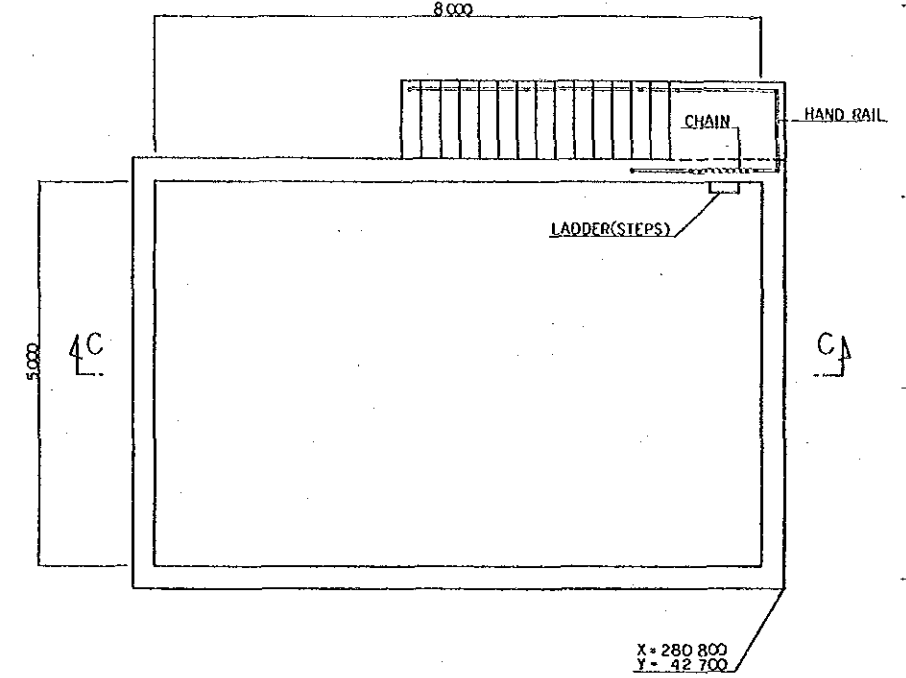


SECTION B-B
S=1/50

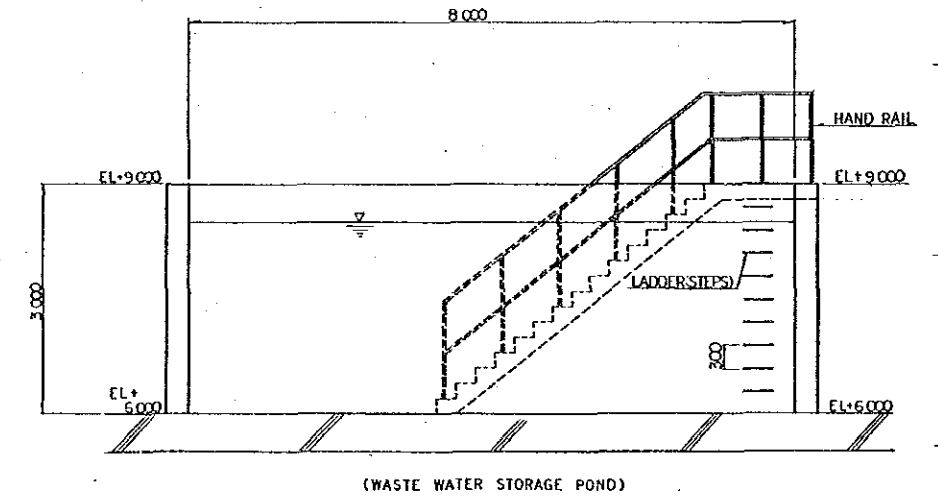


PURIFIED WASTE WATER PIT

PLAN
S=1/50

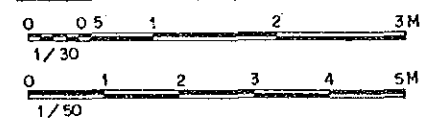


SECTION C-C
S=1/50



- NOTE: 1. THE INSIDE CONCRETE SURFACE OF THE COAGULATION SEDIMENTATION TANK, THE SLUDGE ENRICHMENT TANK AND THE PURIFIED WASTE WATER PIT SHALL BE APPLIED ACID AND ALKALI PROOF LINING.
2. LOCATION OF THE COAGULATION SEDIMENTATION TANK, THE SLUDGE ENRICHMENT TANK AND THE PURIFIED WASTE WATER PIT SHOW DRAWING NO. WCT-1206 (WASTE WATER TREATMENT FACILITIES-1)

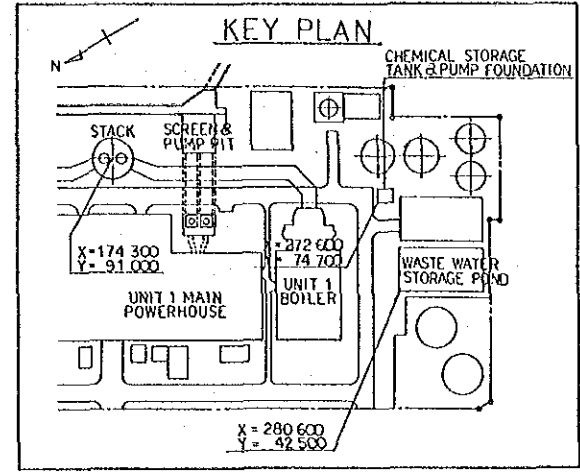
GRAPHIC SCALES



PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
WASTE WATER TREATMENT FACILITIES - 2			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY	REVIEWED BY	CHECKED BY	DRAWN BY
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
DRAWING NO.	SCALE	DATE	
WCT - 1207	AS SHOWN	10TH JAN. 1990	

CLEAR WATER PIT AND OTHER PITS

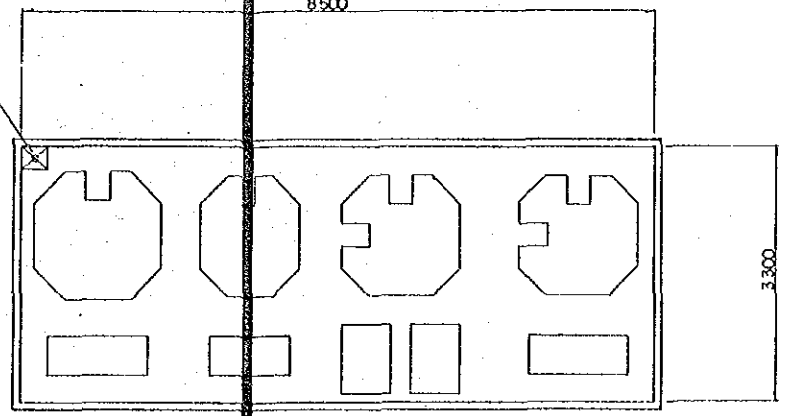
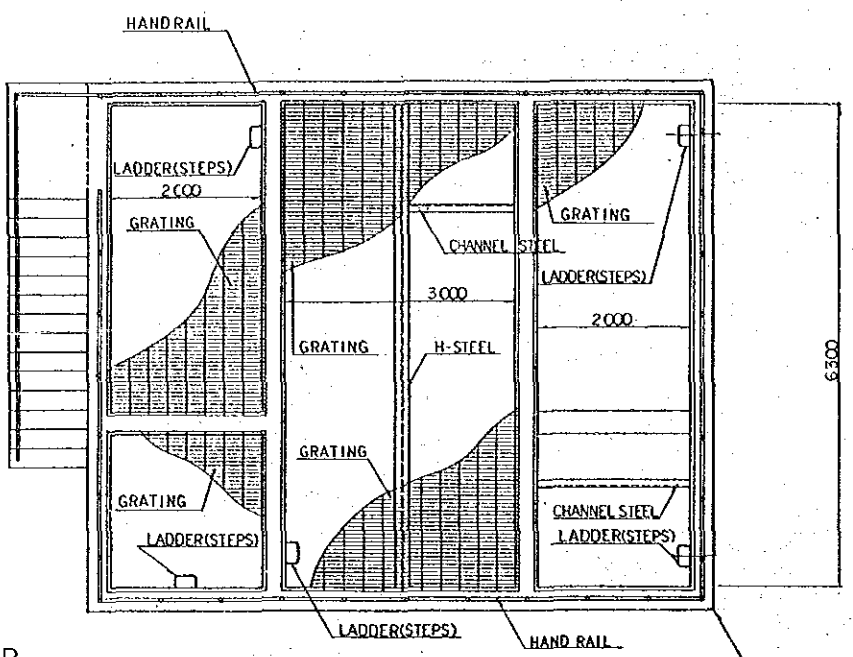
CHEMICAL FEED PUMPS & TANKS FOUNDATION



PLAN
S=1/50

PLAN
S=1/50

PLAN
S=1/50

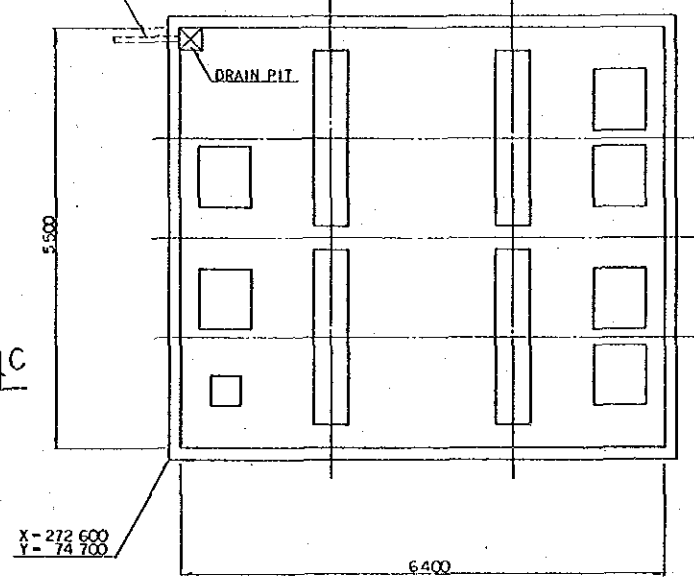
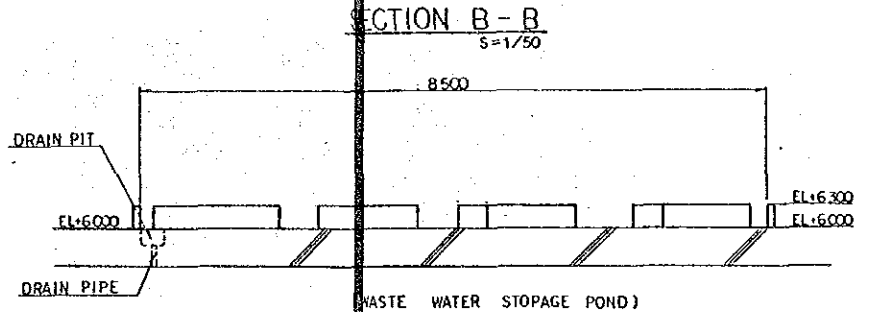


PLAN
S=1/50

SECTION B-B
S=1/50

SECTION C-C
S=1/50

SECTION A-A
S=1/50

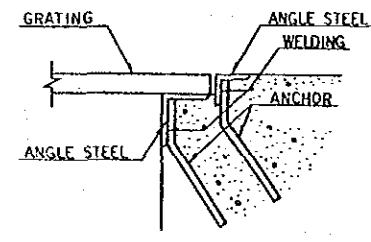


WASTE WATER STORAGE POND

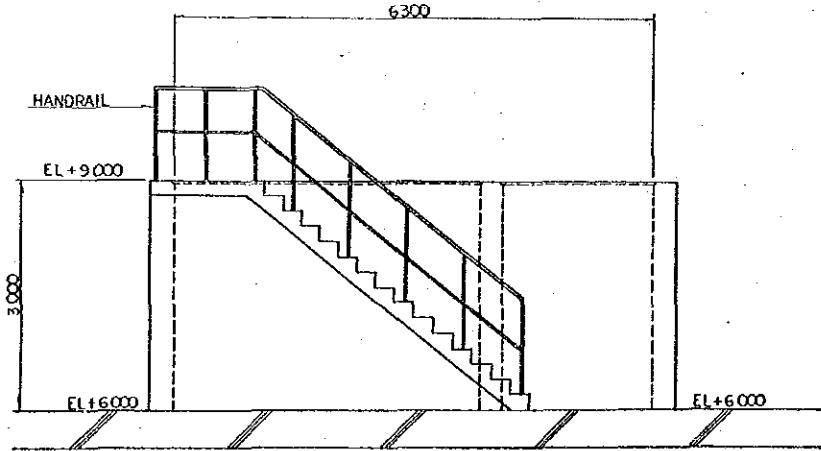
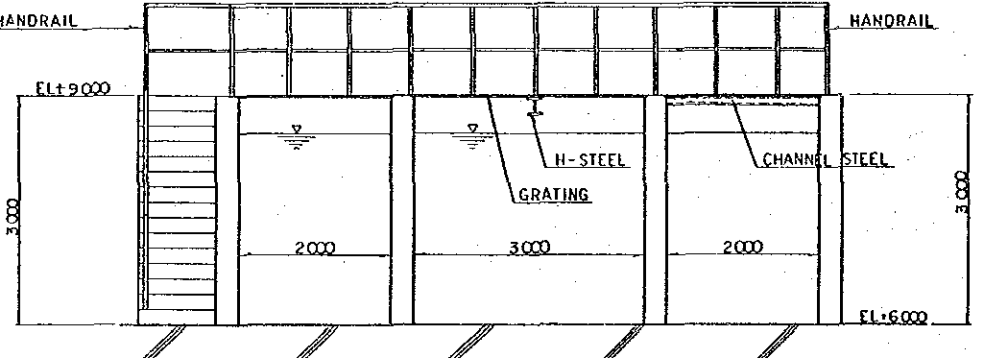
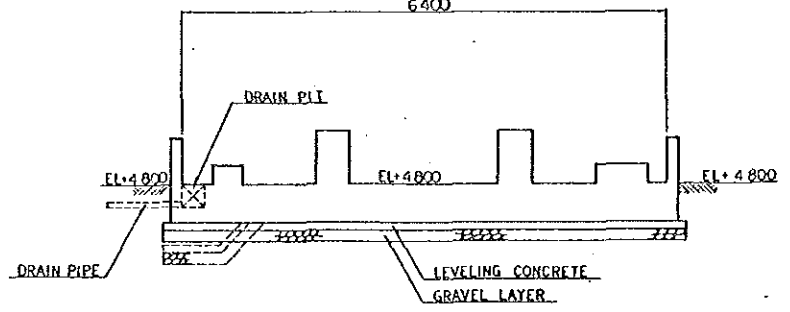
(WASTE WATER STORAGE POND)

SECTION B-B
S=1/50

GRATING CORNER
S=1/4



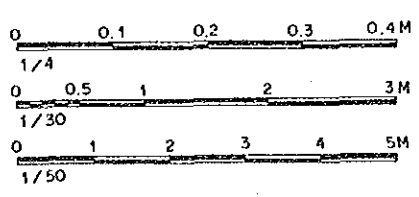
SECTION C-C
S=1/50



(WASTE WATER STORAGE POND)

- NOTE: 1. THE INSIDE CONCRETE SURFACE OF THE CLEAR WATER PIT AND OTHER PITS, THE CHEMICAL FEED PUMPS & TANKS FOUNDATION AND THE CHEMICAL STORAGE TANK & PUMP FOUNDATION SHALL BE APPLIED ACID AND ALKALI PROOF LINING.
2. LOCATION OF THE CLEAR WATER PIT AND OTHER PITS AND CHEMICAL FEED PUMPS & TANKS FOUNDATION SHOW DWG NO. WCT-1206 (WASTE WATER TREATMENT FACILITIES - 11).

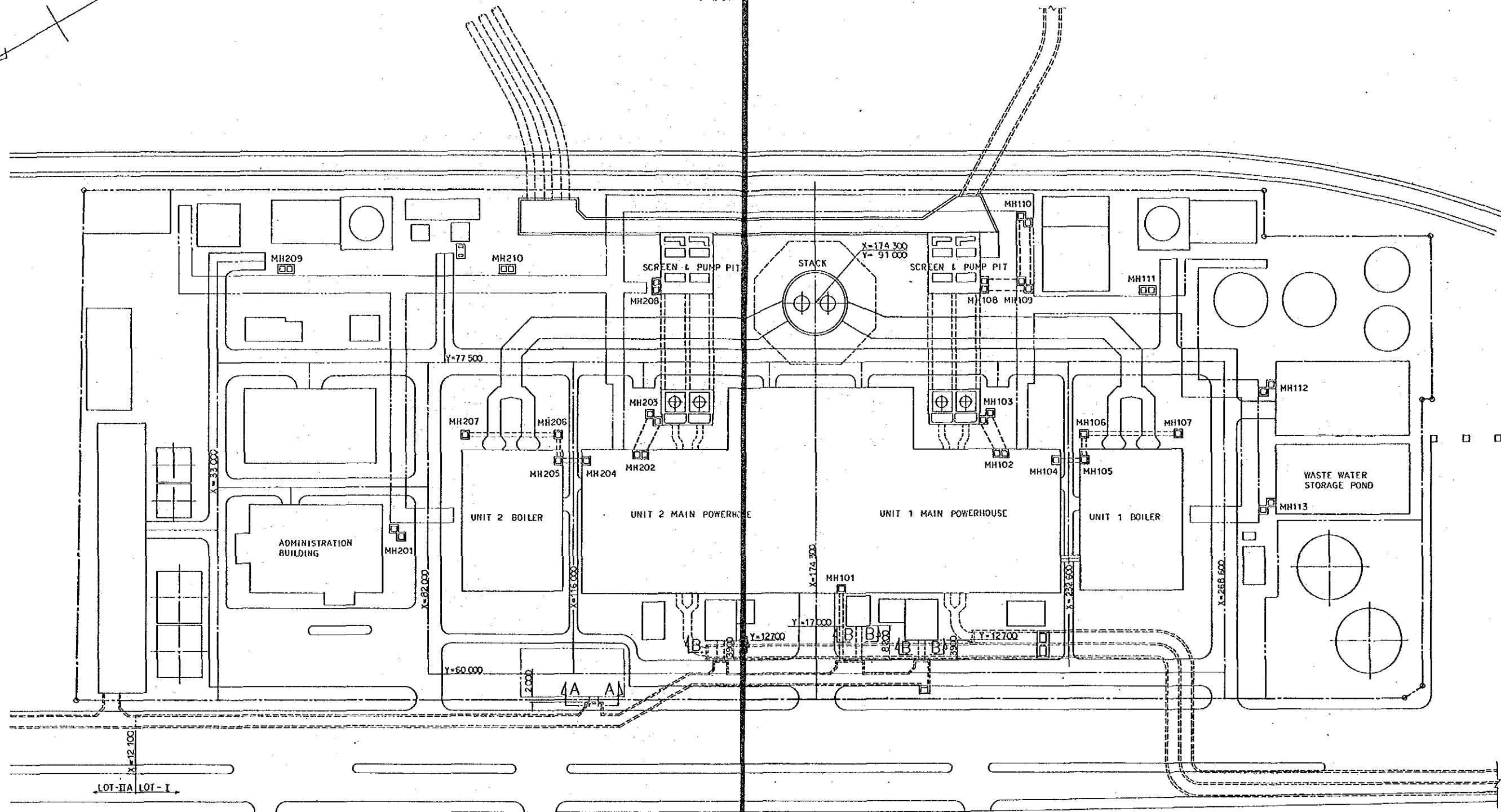
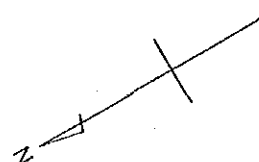
GRAPHIC SCALES



PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION
WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
WASTE WATER TREATMENT FACILITIES - 3
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

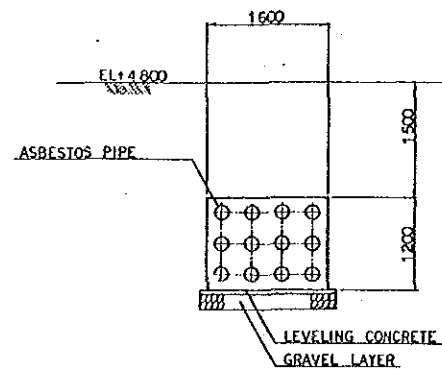
APPROVED BY <i>[Signature]</i>	REVIEWED BY <i>A. Kijima</i>	CHECKED BY <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>
DRAWING NO. WCT-1208	SCALE AS SHOWN	DATE 10TH JAN. 1990	

PLAN
S=1/500

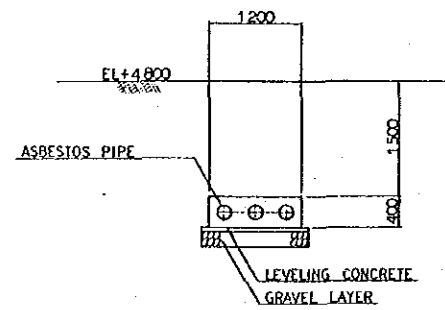


STANDARD SECTION OF C.V. CABLE DUCT

SECTION A - A
S=1/50

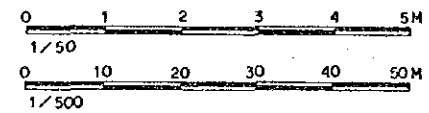


SECTION B - B
S=1/50



NOTE: 1 SHOWS UNIT 1 AND 2, SCOPE OF WORK.

GRAPHIC SCALES



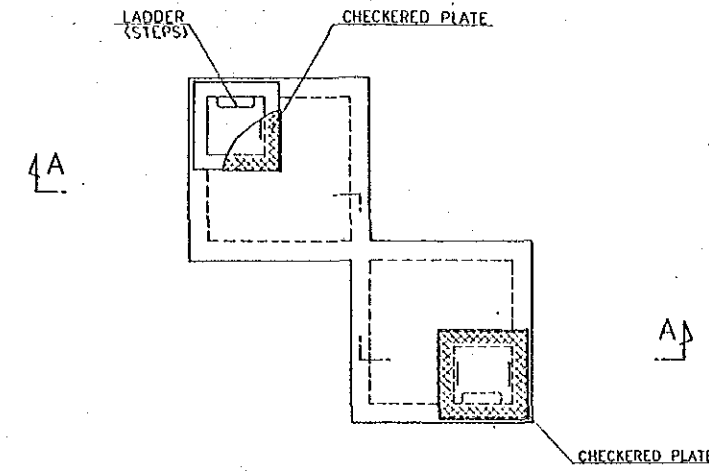
PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
CABLE DUCT FOUNDATION - 1			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY <i>[Signature]</i>	REVIEWED BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>
DRAWING NO. WCT - 1209	SCALE AS SHOWN	DATE 10TH JAN. 1990	

DEMENSION TABLE OF CABLE DUCT

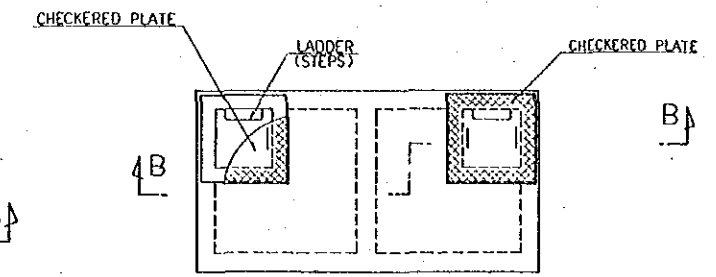
FOR POWER CABLE DUCT						FOR CONTROL CABLE DUCT					
SECTION	DISTANCE(m)	ARRANGEMENT OF PIPING	DIMENSION (mm)			SECTION	DISTANCE(m)	ARRANGEMENT OF PIPING	DIMENSION (mm)		
			b	h	d				b	h	d
MH 102-MH 103	7.5	○○○ ○○○ ○○○	700	700	600	MH 102-MH 103	9.0	○○○ ○○○	700	500	600
MH 108-MH 109	9.5	○○○ ○○○	700	500	800	MH 108-MH 109	8.0	○○ ○○	500	500	800
MH 109-MH 110	14.0	○○○ ○○○	700	500	800	MH 109-MH 110	14.0	○○ ○○	500	500	800
MH 202-MH 203	7.5	○○○ ○○○ ○○○	700	700	600	MH 202-MH 203	9.0	○○○ ○○○	700	500	600
						MH CABLE 101-TUNNEL	16.5	○○○○○○ ○○○○○○ ○○○○○○ ○○○○○○ ○○○○○○ ○○○○○○	1300	1300	1500

MANHOLE
S=1/740

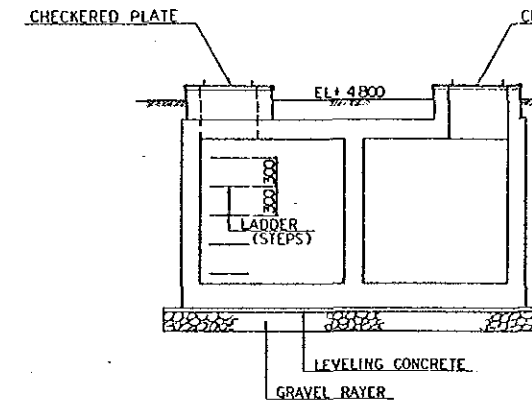
TYPE I
PLAN



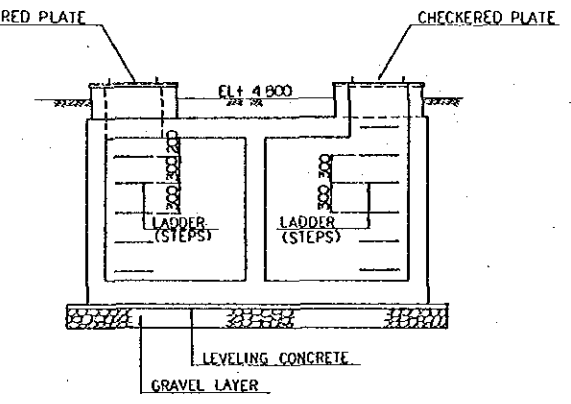
TYPE II
PLAN



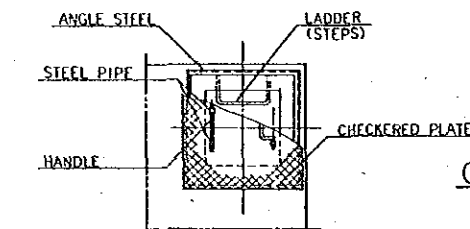
SECTION A-A



SECTION B-B

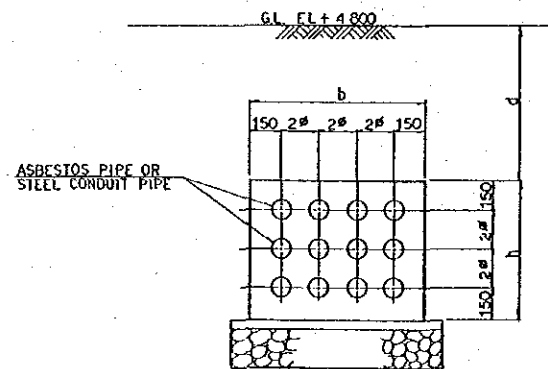


DETAIL OF CHECKERED PLATE
S=1/30



NOTE: OPEN AREA SHALL BE INFORMED LATER ON

CABLE DUCT STANDARD SECTION



NOTE
ASBESTOS PIPE SHALL BE USED FOR POWER CABLE DUCT (JIS A 5405 OR EQUIVALENT).
STEEL CONDUIT PIPES SHALL BE USED FOR CONTROL CABLE DUCT PIPES (JIS C-8305 OR EQUIVALENT).

CONNECTION BETWEEN MANHOLE AND PIPE
S=1/70

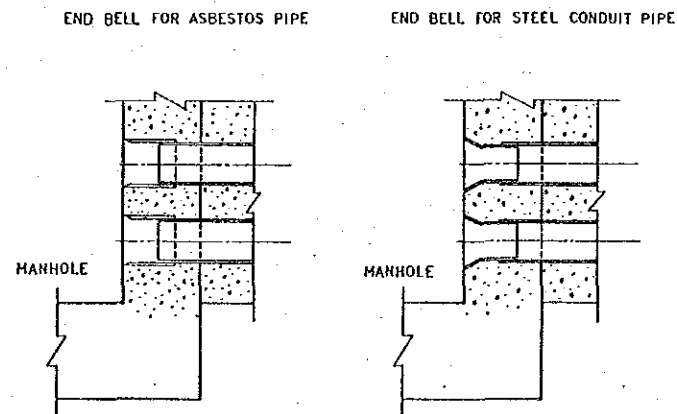
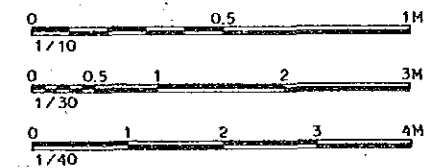


TABLE OF MANHOLE TYPE

MANHOLE NO.	TYPE	MANHOLE NO.	TYPE	MANHOLE NO.	TYPE	MANHOLE NO.	TYPE	
101	EXCLUDE	108	P C	II	201	P C	I	
102	EXCLUDE	109	P C	I	202	(EXCLUDE)	209	P C
103	P C	I	110	P C	I	203	P C	I
104	(EXCLUDE)	111	P C	II	204	(EXCLUDE)		
105	(EXCLUDE)	112	P C	I	205	(EXCLUDE)		
106	(EXCLUDE)	113	P C	I	206	(EXCLUDE)		
107	(EXCLUDE)				207	(EXCLUDE)		

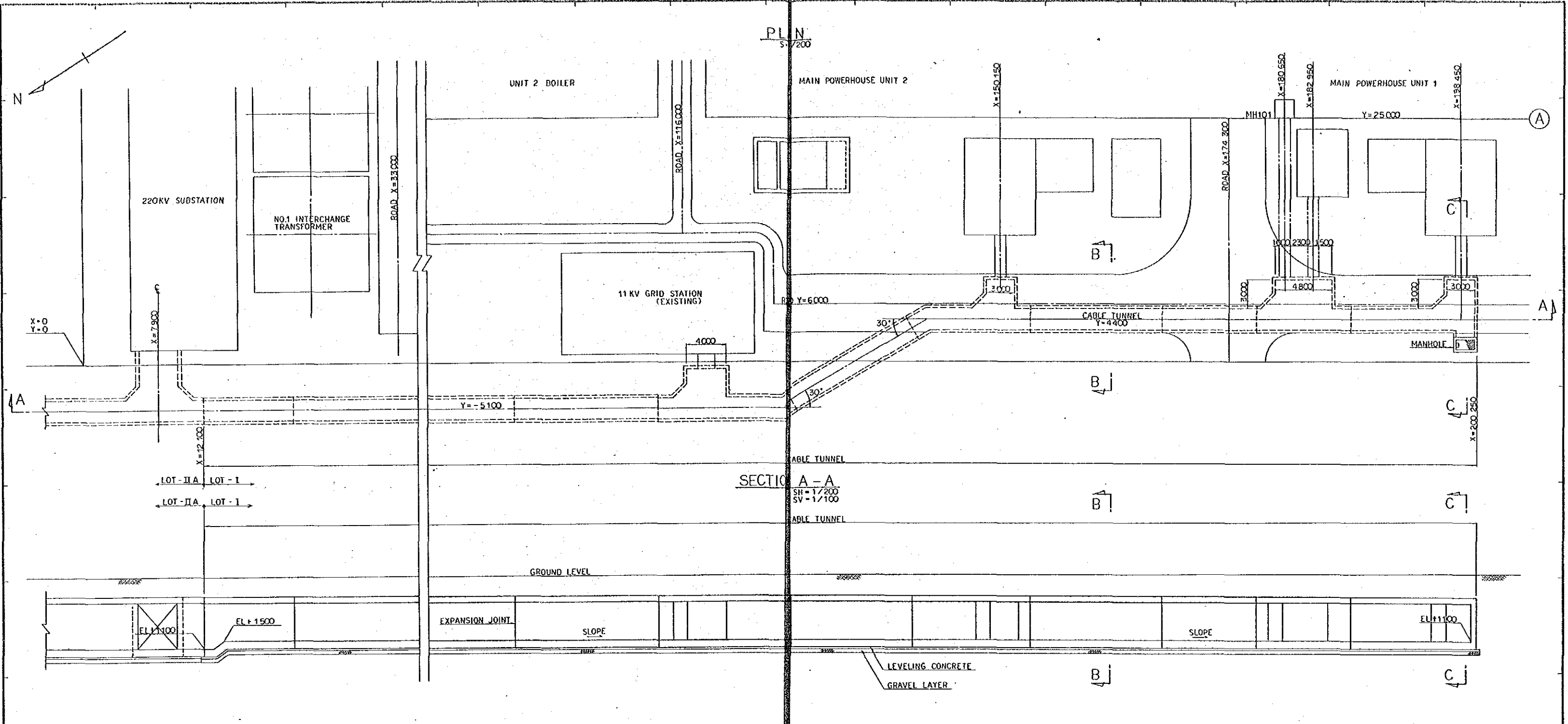
NOTE : P: FOR POWER CABLE
C: FOR CONTROL CABLE

GRAPHIC SCALES

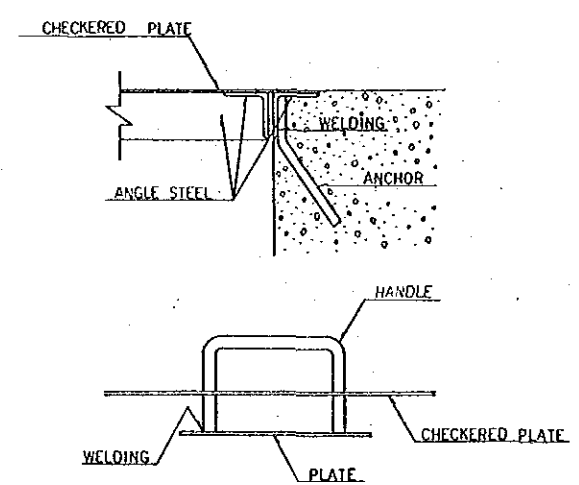


PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION
WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
CABLE DUCT FOUNDATION - 2
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

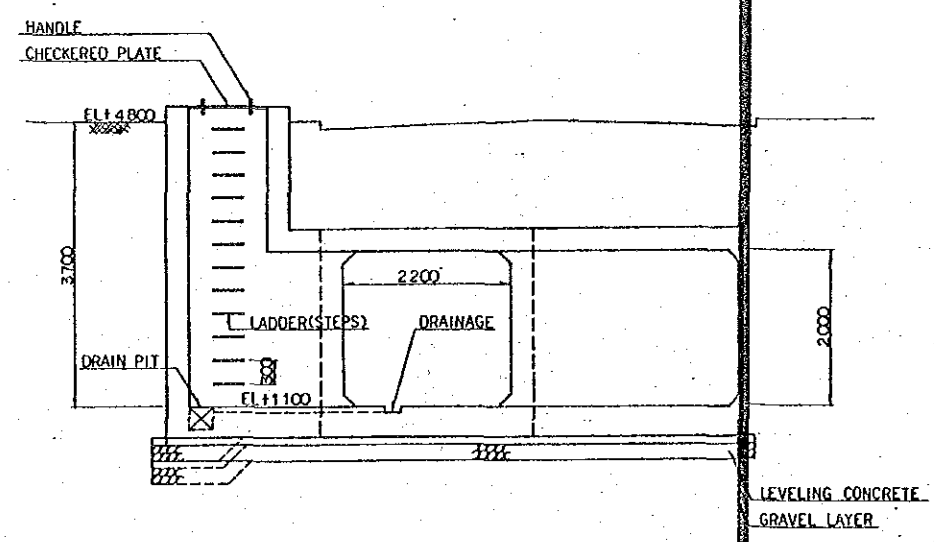
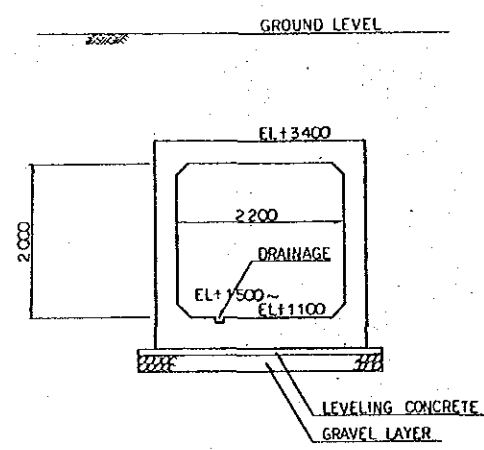
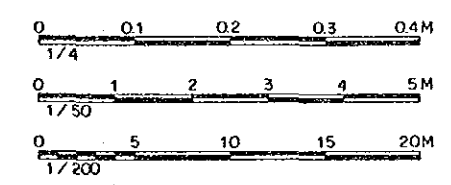
APPROVED BY <i>[Signature]</i>	REVIEWED BY <i>A. Kijun</i>	CHECKED BY <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>
DRAWING NO. WCT-1210	SCALE AS SHOWN	DATE 10TH JAN. 1990	



CHECKERED PLATE CORNER AND HANDLE
S=1/4



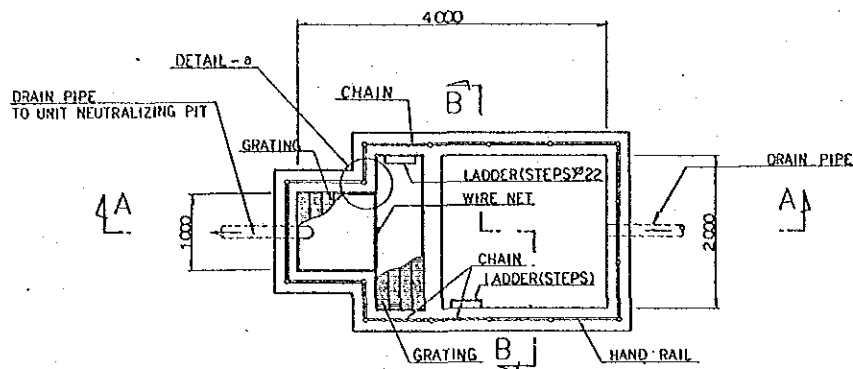
GRAPHIC SCALES



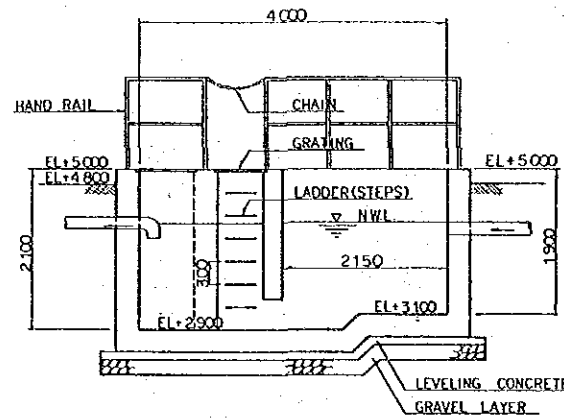
PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
CABLE DUCT FOUNDATION - 3			
(CABLE TUNNEL)			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY	REVIEWED BY	CHECKED BY	DRAWN BY
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
DRAWING NO	SCALE	DATE	
WCT-1211	AS SHOWN	10TH JAN. 1990	

OIL SEPARATOR
 FOR SERVICE OIL TANK NO. 1 AREA
 FOR SERVICE OIL TANK NO. 2 AREA
 FOR FUEL OIL STORAGE TANK AREA

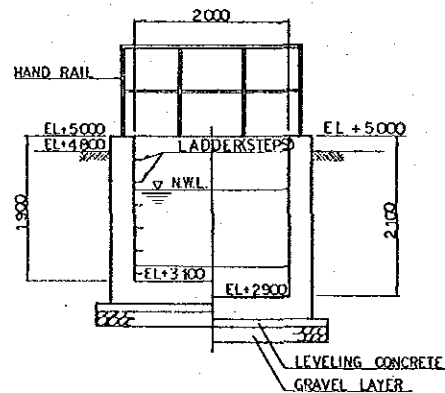
PLAN
 S=1/50



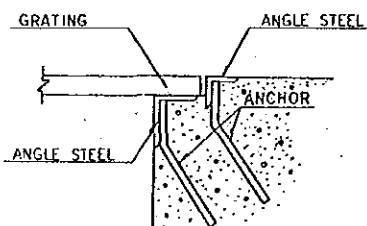
SECTION A-A
 S=1/50



SECTION B-B
 S=1/50

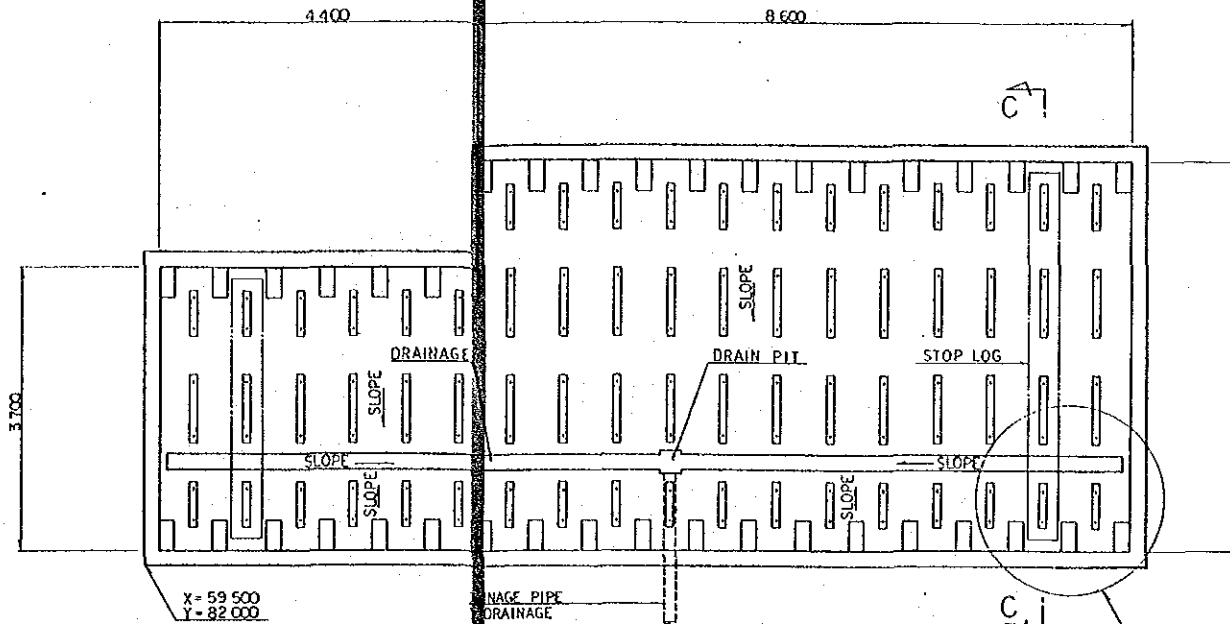


GRATING CORNER
 S=1/4

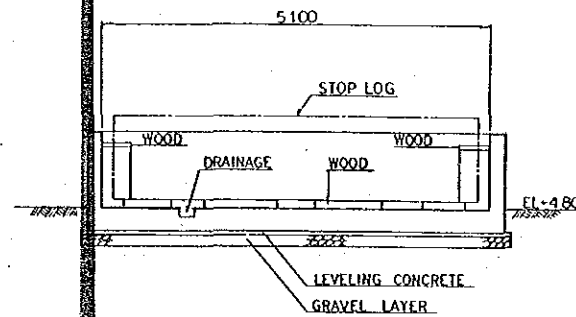


STORAGE BOX FOR STOP LOG

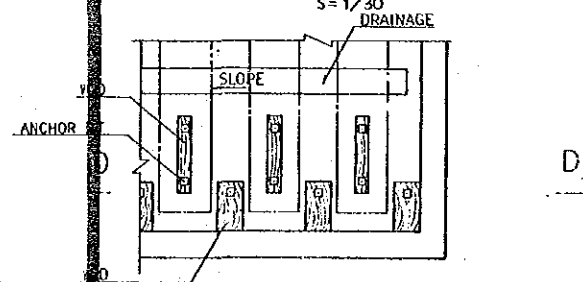
PLAN
 S=1/50



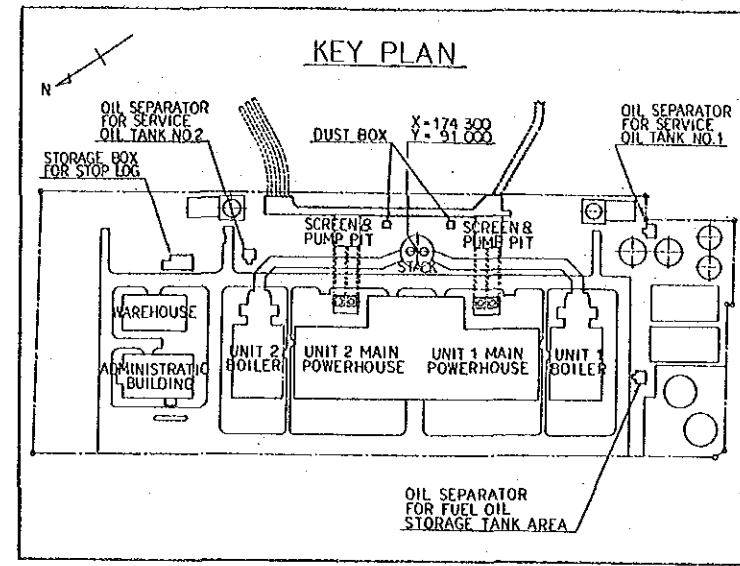
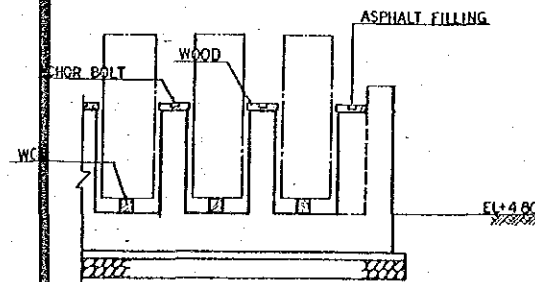
SECTION C-C
 S=1/50



DETAIL - b
 S=1/30

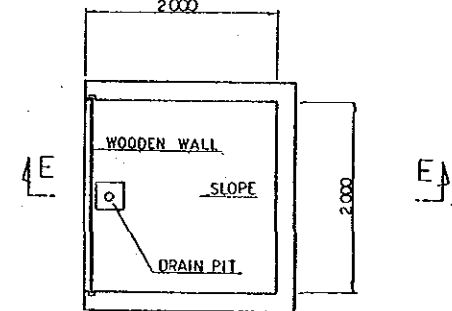


SECTION D-D
 S=1/30

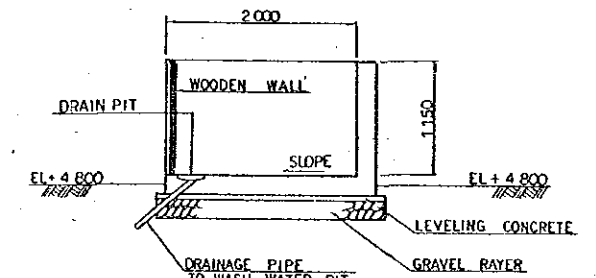


DUST BOX

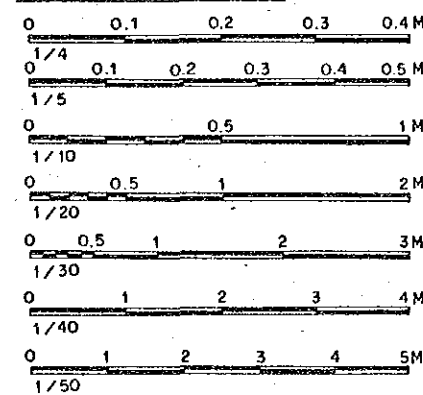
PLAN
 S=1/40



SECTION E-E
 S=1/40



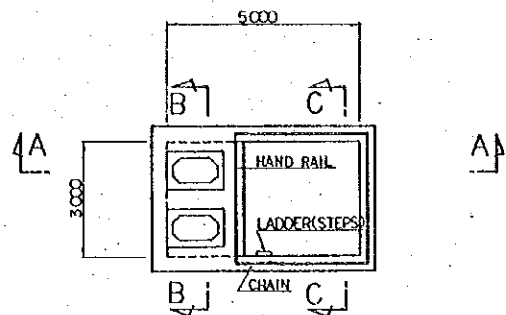
GRAPHIC SCALES



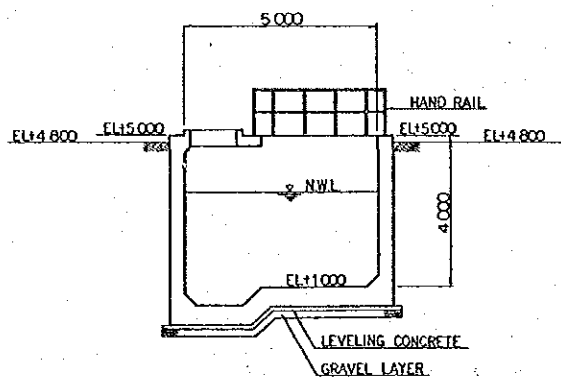
PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
OTHER FOUNDATIONS - 1			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY	REVIEWED BY	CHECKED BY	DRAWN BY
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
DRAWING NO.	SCALE	DATE	
WCT-1212	AS SHOWN	10TH JAN 1990	

WASTE WATER PIT FOR STACK

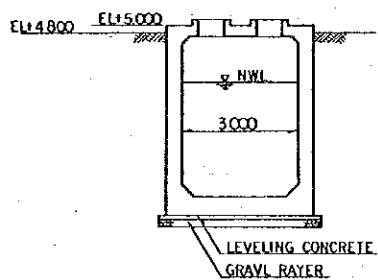
PLAN
S=1/100



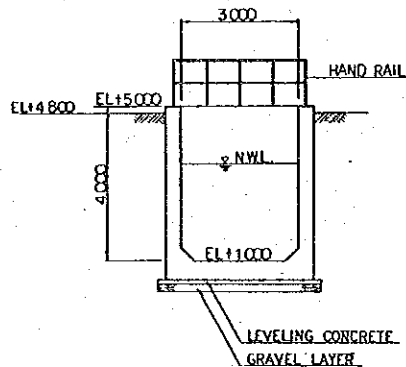
SECTION A-A
S=1/100



SECTION B-B
S=1/100

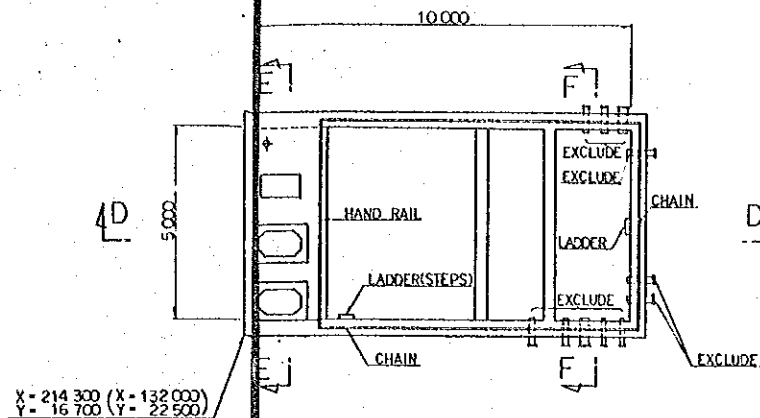


SECTION C-C
S=1/100

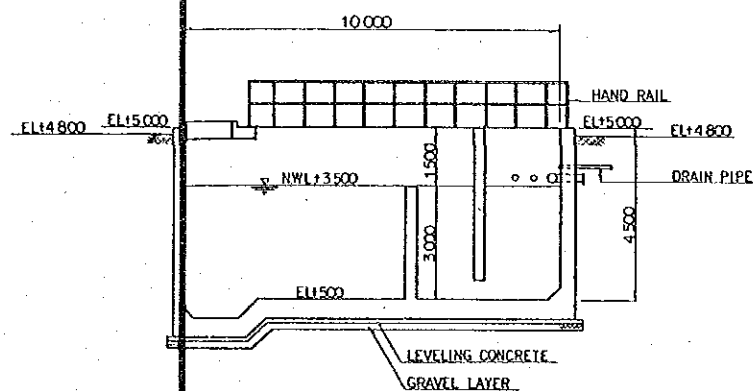


UNIT NEUTRALIZING PIT

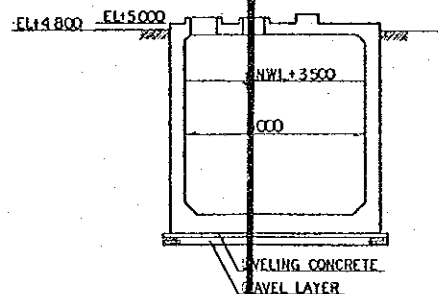
PLAN
S=1/100



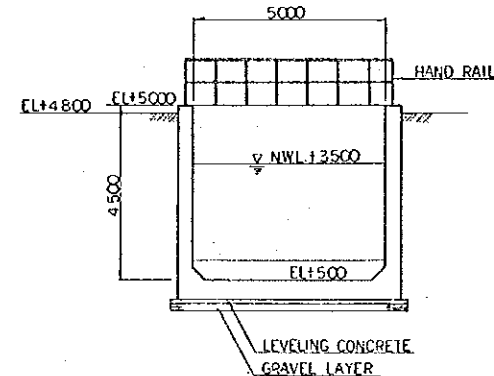
SECTION D-D
S=1/100



SECTION E-E
S=1/100

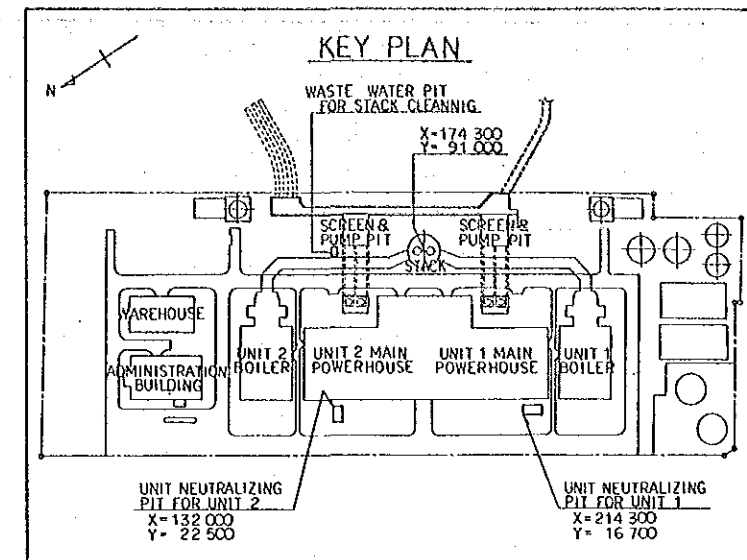


SECTION F-F
S=1/100



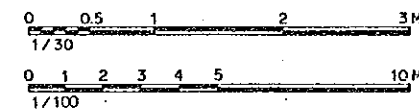
X = 214 300 (X = 132 000)
Y = 16 700 (Y = 22 500)

NOTE: () INDICATE UNIT 2.



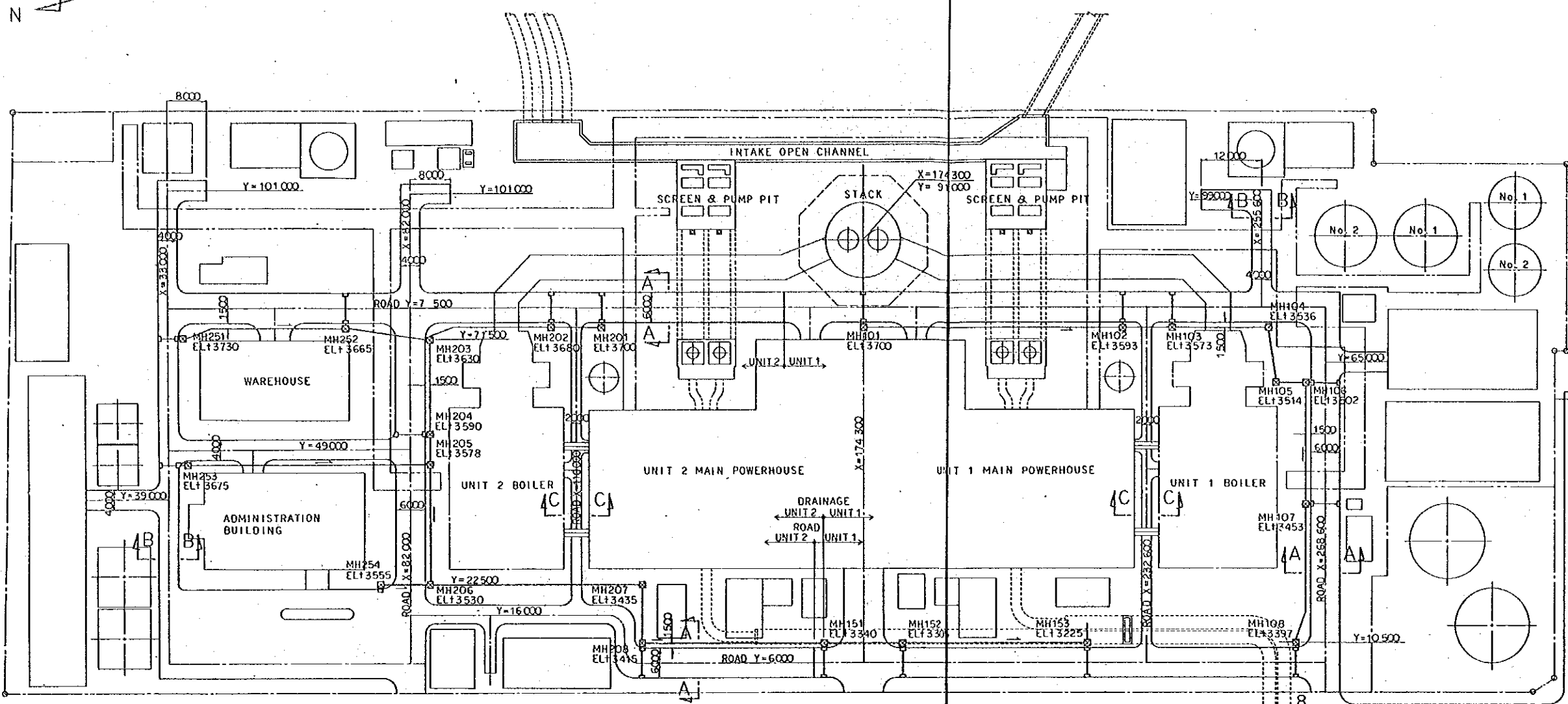
NOTE: THE INSIDE CONCRETE SURFACE OF THE WASTE WATER PIT FOR STACK CLEANING AND THE UNIT NEUTRALIZING PIT SHALL BE APPLIED ACID AND ALKAL PROOF LINING.

GRAPHIC SCALES



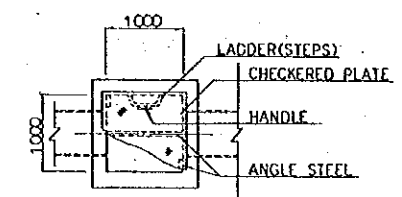
PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
OTHER FOUNDATIONS - 2			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY	REVIEWED BY	CHECKED BY	DRAWN BY
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DRAWING NO.	SCALE	DATE	
WCT - 1213	AS SHOWN	10TH JAN. 1990	

PLAN
S=1/500

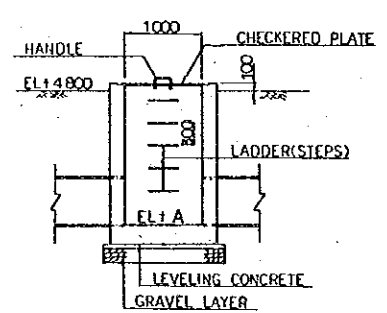


- NOTES
- SCOPE OF THIS WORK FOR ROAD
 - SCOPE OF THIS WORK
 - MANHOLE (1000 x 1000)
 - CATCH BASIN
 - INDICATED OF ELEVATIONS SHOW ELEVATION OF MANHOLE BOTTOM SLAB "A".

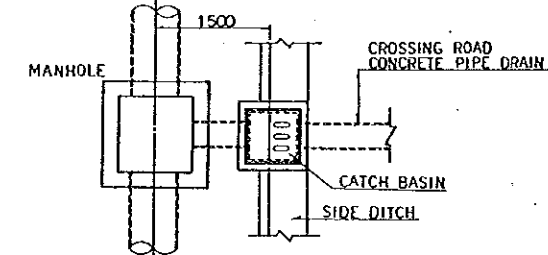
MANHOLE
S=1/50
PLAN



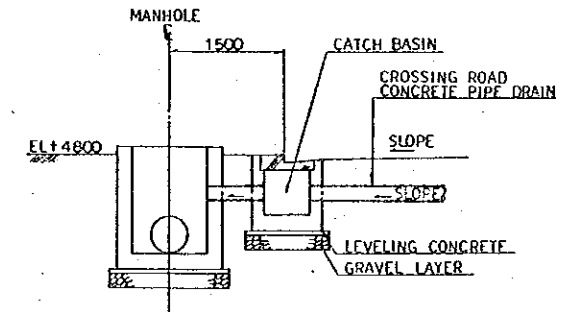
SECTION



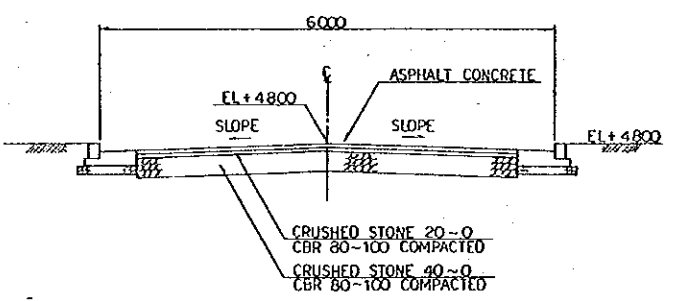
CATCH BASIN
S=1/50
PLAN



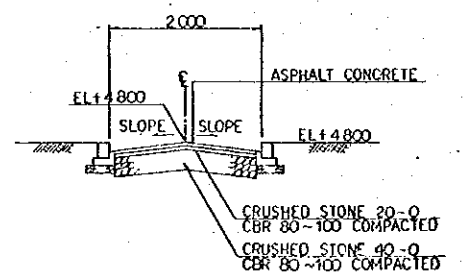
SECTION



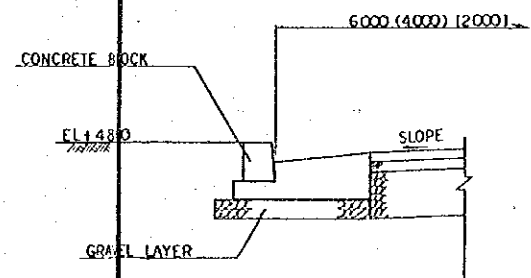
SECTION A-A (6m ROAD)
S=1/50



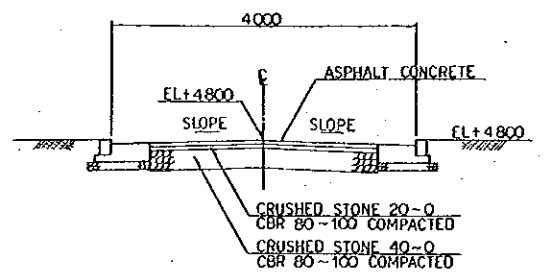
SECTION C-C (2m ROAD)
S=1/50



DETAIL OF SIDE DITCH
S=1/20

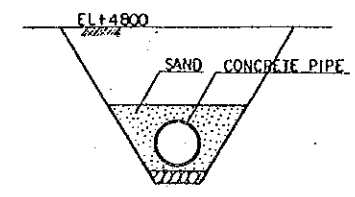


SECTION B-B (4m ROAD)
S=1/50

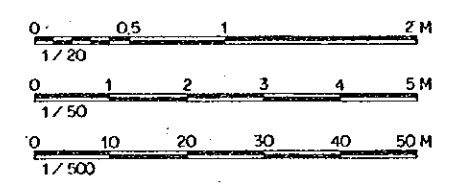


- NOTE:
- THE EXPANSION JOINT (ASPHALT PLATE 1-10mm) OF SIDE DITCH SHALL BE CONSTRUCTED EVERY 25m.
 - () INDICATE ROAD OF 4m WIDTH
 - [] INDICATE ROAD OF 2m WIDTH

STANDARD SECTION ORDINARY DRAINAGE PIPE
S=1/50



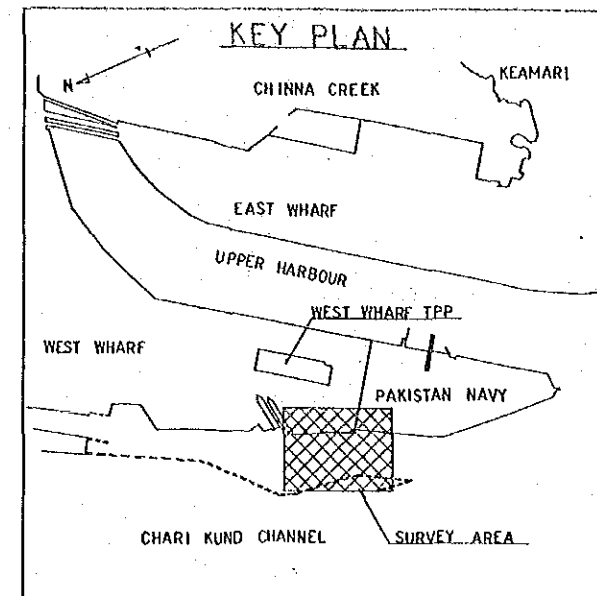
GRAPHIC SCALES



PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION
WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
ROAD AND DRAINAGE SYSTEM
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

APPROVED BY <i>[Signature]</i>	REVIEWED BY <i>A. Kojima</i>	CHECKED BY <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>
DRAWING NO. WCT-1214		SCALE AS SHOWN	DATE 10TH JAN. 1990

PLAN
S = 1/1000

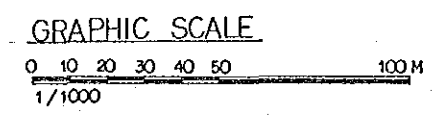


NOTE: 1 DEPTHS ARE IN METRES AND ARE REDUCED TO CHART DATUM, WHICH IS THE SAME AS THE ZERO OF THE TIDAL PREDICTIONS.

2. THIS DRAWING IS BASED ON DATA OF SEA WATER DEPTH, WHICH IS SURVEYED BY PAKISTAN NAVY ON AUG. - SEP., 1968.

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PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
SEA WATER DEPTH			
IN FRONT OF OUTLET			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY	REVIEWED BY	CHECKED BY	DRAWN BY
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DRAWING NO.	SCALE	DATE	
WCT - 1301	1/1000	10TH JAN, 1990	



33 @ 15,000 = 495,000

