

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SECONDARY POWER LINE DIAGRAM FOR SECONDARY AFE SUB-STATION (2/6)	
SCALE: NON SCALE	CH02-E16
JAPAN INTERNATIONAL COOPERATION AGENCY	

PANEL NO.	NO.1						NO.2						NO.3					
(1)	380V																	
DIAGRAM																		
NO.	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
OBJECT	CCR	CCR	CCR	CCR	CCR	CCR	CCR	CCR	CCR	CCR	CCR	SPARE	CCR	CCR	CCR	CCR	CCR	CCR
LOAD (KVA)	25KVA (SPARE)	25KVA	25KVA	10KVA (SPARE)	10KVA	10KVA	15KVA (SPARE)	15KVA	15KVA	4KVA (SPARE)	4KVA		7.5KVA (SPARE)	7.5KVA	7.5KVA	10KVA (SPARE)	10KVA	10KVA
LOAD NAME	PALS-5~6	PALS-5	PALS-6	PALS-7~8	PALS-7	PALS-8	STBL-3~4	STBL-3	STBL-4	PAPI-2	PAPI-2		RTHL-3~4	RTHL-3	RTHL-4	RTZL-3~4	RTZL-3	RTZL-4
CABLE SIZE	600V XLPE/PVC 16mm ² -2c	600V XLPE/PVC 16mm ² -2c	600V XLPE/PVC 16mm ² -2c	600V XLPE/PVC 6mm ² -2c	600V XLPE/PVC 6mm ² -2c	600V XLPE/PVC 6mm ² -2c	600V XLPE/PVC 10mm ² -2c	600V XLPE/PVC 10mm ² -2c	600V XLPE/PVC 10mm ² -2c	600V XLPE/PVC 4mm ² -2c	600V XLPE/PVC 4mm ² -2c		600V XLPE/PVC 6mm ² -2c	600V XLPE/PVC 6mm ² -2c	600V XLPE/PVC 6mm ² -2c	600V XLPE/PVC 6mm ² -2c	600V XLPE/PVC 6mm ² -2c	600V XLPE/PVC 6mm ² -2c
																		FROM SWITCHGEAR PANEL NO.21

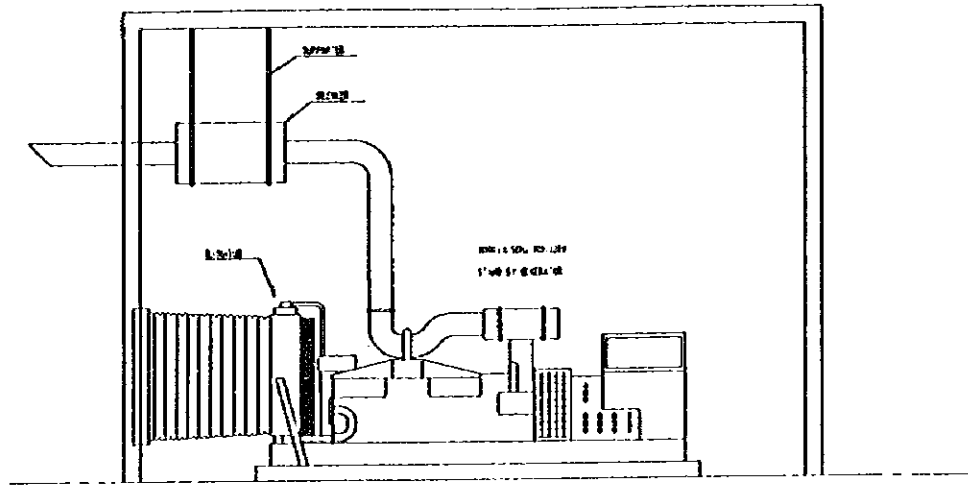
PANEL NO	NO.4						NO.5					NO.6					NO.7					NO.8										
(D)	III						380V																									
DIAGRAM																																
NO.	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	FROM SWITCHGEAR PANEL NO.16
OBJECT	CCR	CCR	CCR	CCR	CCR	SPARE	CCR	CCR	CCR	CCR	CCR	SPARE	SPARE	CCR	CCR	CCR	CCR	SPARE	SPARE	CCR	CCR	CCR	CCR	SPARE	SPARE	CCR	CCR	CCR	CCR	SPARE	SPARE	
LOAD (KVA)	30KVA (SPARE)	30KVA	30KVA	30KVA	30KVA		30KVA (SPARE)	30KVA	30KVA	30KVA	30KVA			15KVA (SPARE)	15KVA	15KVA	15KVA			15KVA (SPARE)	15KVA	15KVA	15KVA			15KVA (SPARE)	15KVA	15KVA	15KVA			
LOAD NAME	TCLL-8~11	TCLL-8	TCLL-9	TCLL-10	TCLL-11		TCLL-12~14 +TXGS-2	TCLL-12	TCLL-13	TCLL-14	TXGS-2			TWYL-7~9	TWYL-7	TWYL-8	TWYL-9			TWYL-10~12	TWYL-10	TWYL-11	TWYL-12			HSTCLL-1~6	HSTCLL-4	HSTCLL-5	HSTCLL-6			
CABLE SIZE	600V XLPE/PVC 25mm ² - 2c	600V XLPE/PVC 25mm ² - 2c	600V XLPE/PVC 25mm ² - 2c	600V XLPE/PVC 25mm ² - 2c	600V XLPE/PVC 25mm ² - 2c		600V XLPE/PVC 25mm ² - 2c	600V XLPE/PVC 25mm ² - 2c	600V XLPE/PVC 25mm ² - 2c	600V XLPE/PVC 25mm ² - 2c	600V XLPE/PVC 25mm ² - 2c			600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c			600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c			600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c			(600V XLPE/PVC 240mm ² - 3c) x 2

PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997
 SECONDARY POWER LINE DIAGRAM FOR SECONDARY AFL SUB-STATION (1/6)
 SCALE: NON SCALE | DWG2-E18
 JAPAN INTERNATIONAL COOPERATION AGENCY

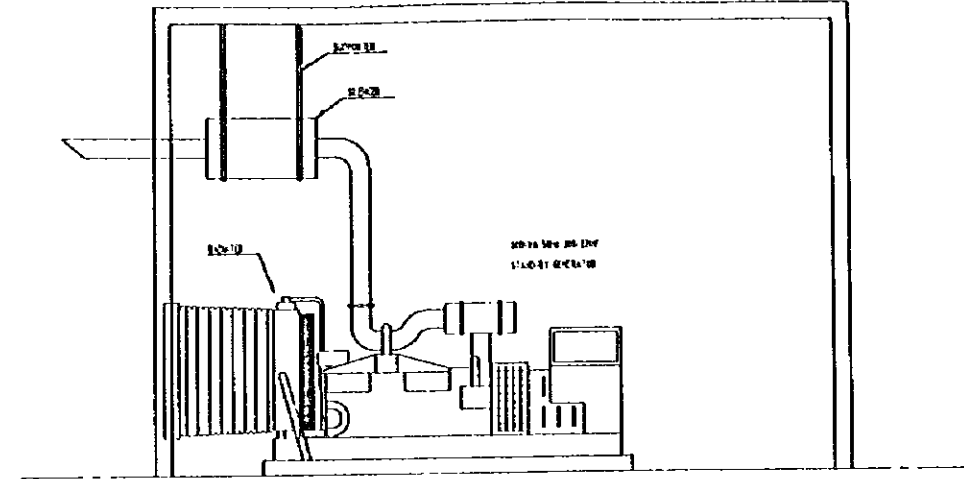
PANEL NO.	NO.9						NO.10						NO.11						
(ID)	I																		
DIAGRAM																			
NO	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	
OBJECT	CCR	CCR	CCR	CCR	CCR	CCR	CCR	CCR	CCR	CCR	CCR	SPARE	CCR	CCR	CCR	CCR	CCR	CCR	FROM SWITCHGEAR PANEL NO.21
LOAD (KVA)	25KVA (SPARE)	25KVA	25KVA	10KVA (SPARE)	10KVA	10KVA	15KVA (SPARE)	15KVA	15KVA	4KVA (SPARE)	4KVA		7.5KVA (SPARE)	7.5KVA	7.5KVA	10KVA (SPARE)	10KVA	10KVA	
LOAD NAME	PALS-5~6	PALS-5	PALS-6	PALS-7~8	PALS-7	PALS-8	STBL-3~4	STBL-3	STBL-4	PAPI-2	PAPI-2		RTHL-3~4	RTHL-3	RTHL-4	RTZL-3~4	RTZL-3	RTZL-4	
CABLE SIZE	600V XLPE/PVC 16mm ² - 2c	600V XLPE/PVC 16mm ² - 2c	600V XLPE/PVC 16mm ² - 2c	600V XLPE/PVC 6mm ² - 2c	600V XLPE/PVC 6mm ² - 2c	600V XLPE/PVC 6mm ² - 2c	600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 4mm ² - 2c	600V XLPE/PVC 4mm ² - 2c		600V XLPE/PVC 6mm ² - 2c	600V XLPE/PVC 6mm ² - 2c	600V XLPE/PVC 6mm ² - 2c	600V XLPE/PVC 6mm ² - 2c	600V XLPE/PVC 6mm ² - 2c	600V XLPE/PVC 6mm ² - 2c	1600V XLPE/PVC 95mm ² - 3c) x 2

PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997
 SECONDARY POWER LINE DIAGRAM FOR SECONDARY AFL SUB-STATION (5/6)
 SCALE: NON SCALE | DWG2-E19
 JAPAN INTERNATIONAL COOPERATION AGENCY

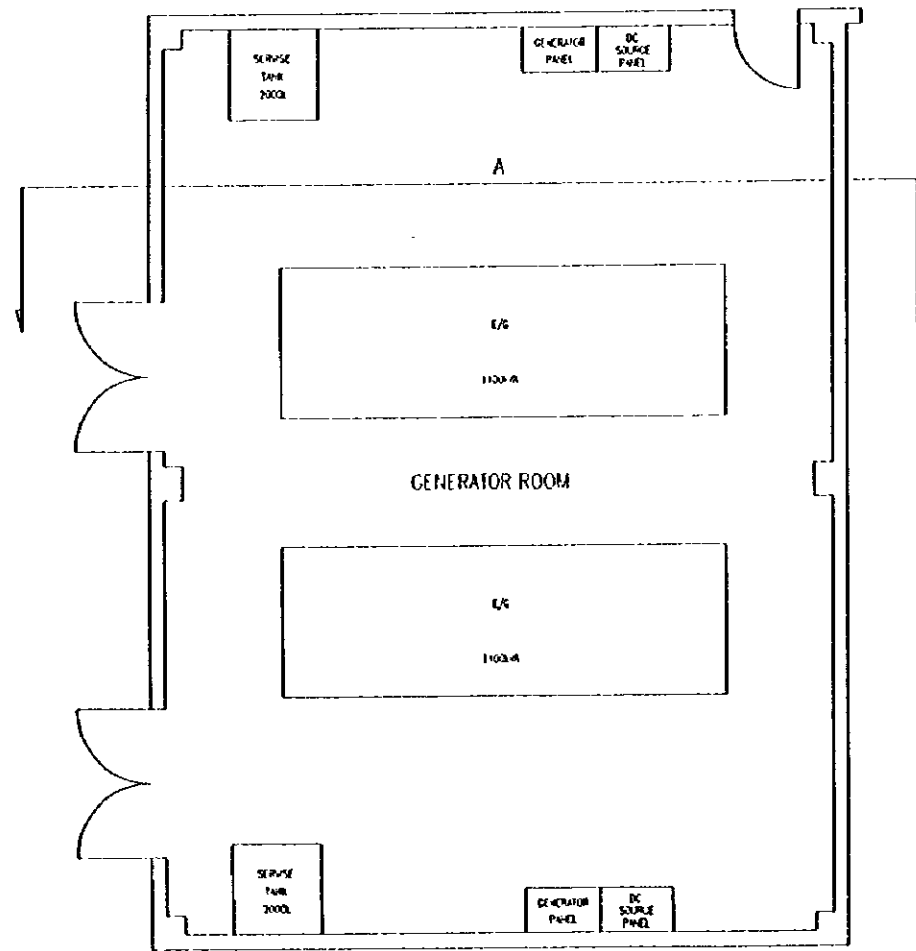
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(D)	IV						380V																										
DIAGRAM																																	
NO.	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	FROM SWITCHGEAR PANEL NO.21	
OBJECT	CCR	CCR	CCR	CCR	CCR	SPARE	CCR	CCR	CCR	CCR	CCR	SPARE	SPARE	CCR	CCR	CCR	CCR	SPARE	SPARE	CCR	CCR	CCR	CCR	SPARE	SPARE	CCR	CCR	CCR	CCR	SPARE	SPARE		
LOAD (KVA)	30KVA (SPARE)	30KVA	30KVA	30KVA	30KVA		30KVA (SPARE)	30KVA	30KVA	30KVA	30KVA			15KVA (SPARE)	15KVA	15KVA	15KVA				15KVA	15KVA	15KVA			15KVA (SPARE)	15KVA	15KVA	15KVA				
LOAD NAME	TCLL-8~11	TCLL-8	TCLL-9	TCLL-10	TCLL-11		TCLL-12~14 + TXGS-2	TCLL-12	TCLL-13	TCLL-14	TXGS-2			TWYL-7~9	TWYL-7	TWYL-8	TWYL-9				TWYL-10	TWYL-10	TWYL-11	TWYL-12			HSTCLL-4~6	HSTCLL-4	HSTCLL-5	HSTCLL-6			
CABLE SIZE	600V XLPE/PVC 25mm ² - 2c	600V XLPE/PVC 25mm ² - 2c	600V XLPE/PVC 25mm ² - 2c	600V XLPE/PVC 25mm ² - 2c	600V XLPE/PVC 25mm ² - 2c		600V XLPE/PVC 25mm ² - 2c	600V XLPE/PVC 25mm ² - 2c	600V XLPE/PVC 25mm ² - 2c	600V XLPE/PVC 25mm ² - 2c	600V XLPE/PVC 25mm ² - 2c			600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c				600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c			600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c	600V XLPE/PVC 10mm ² - 2c			(600V XLPE/PVC 240mm ² - 3c) x 2



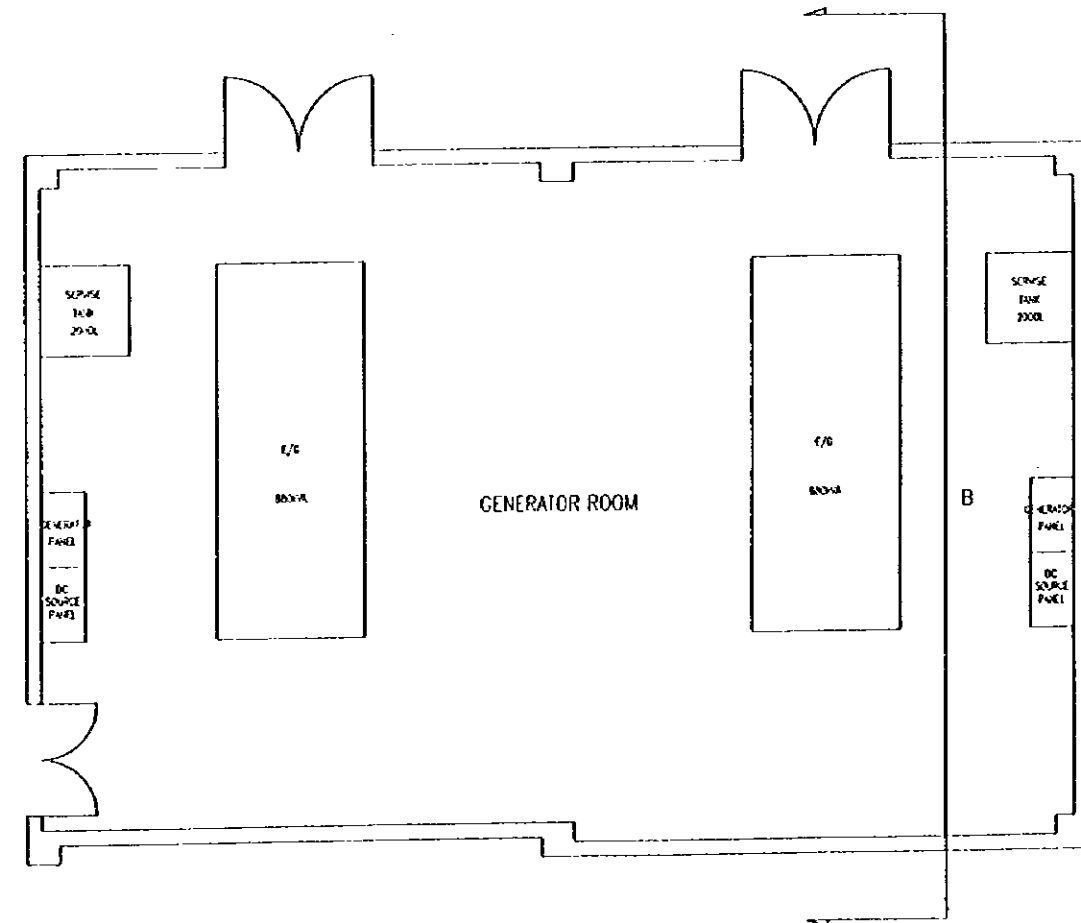
SECTION-A



SECTION-B

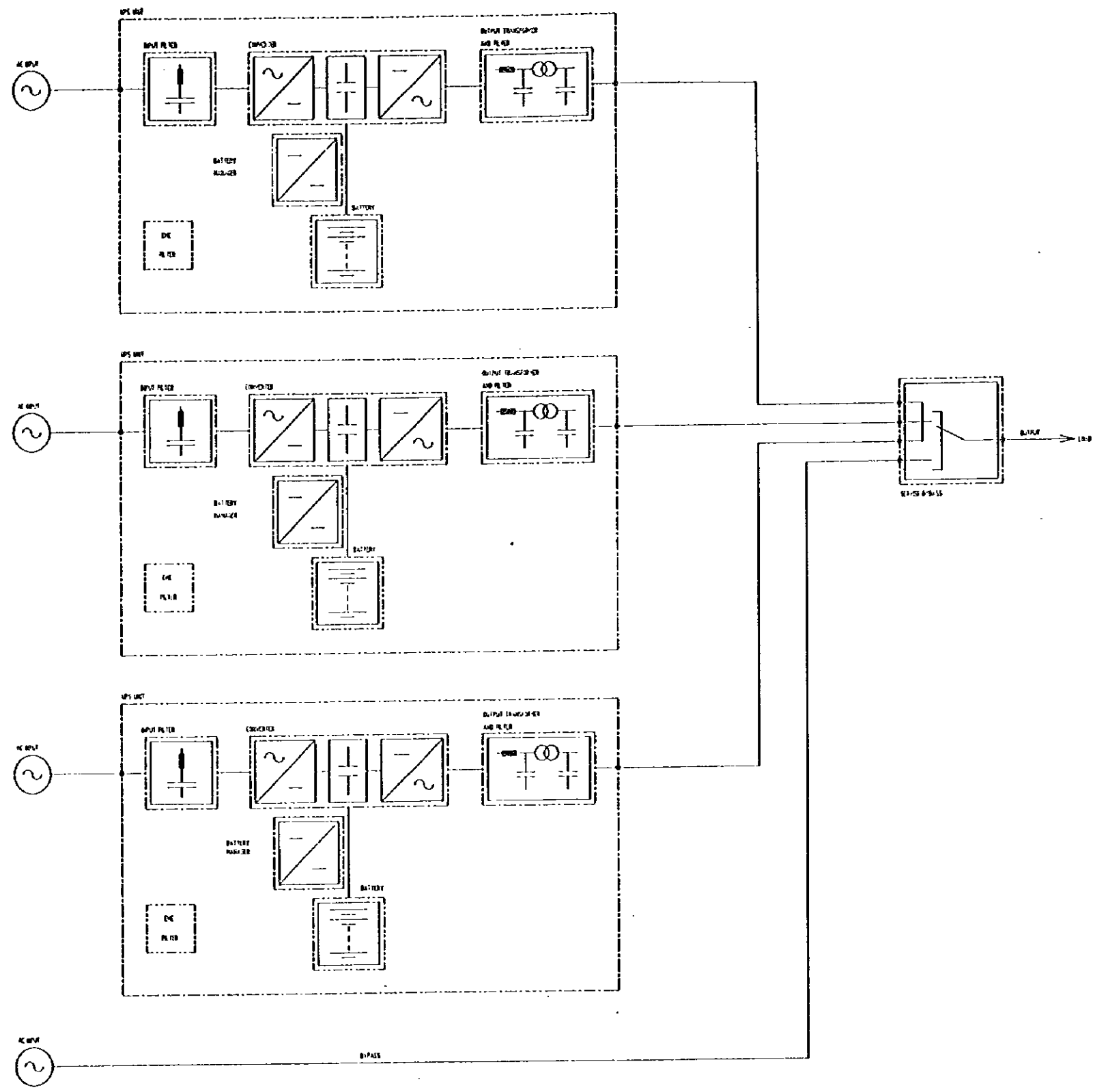


MAIN AFL SUB-STATION



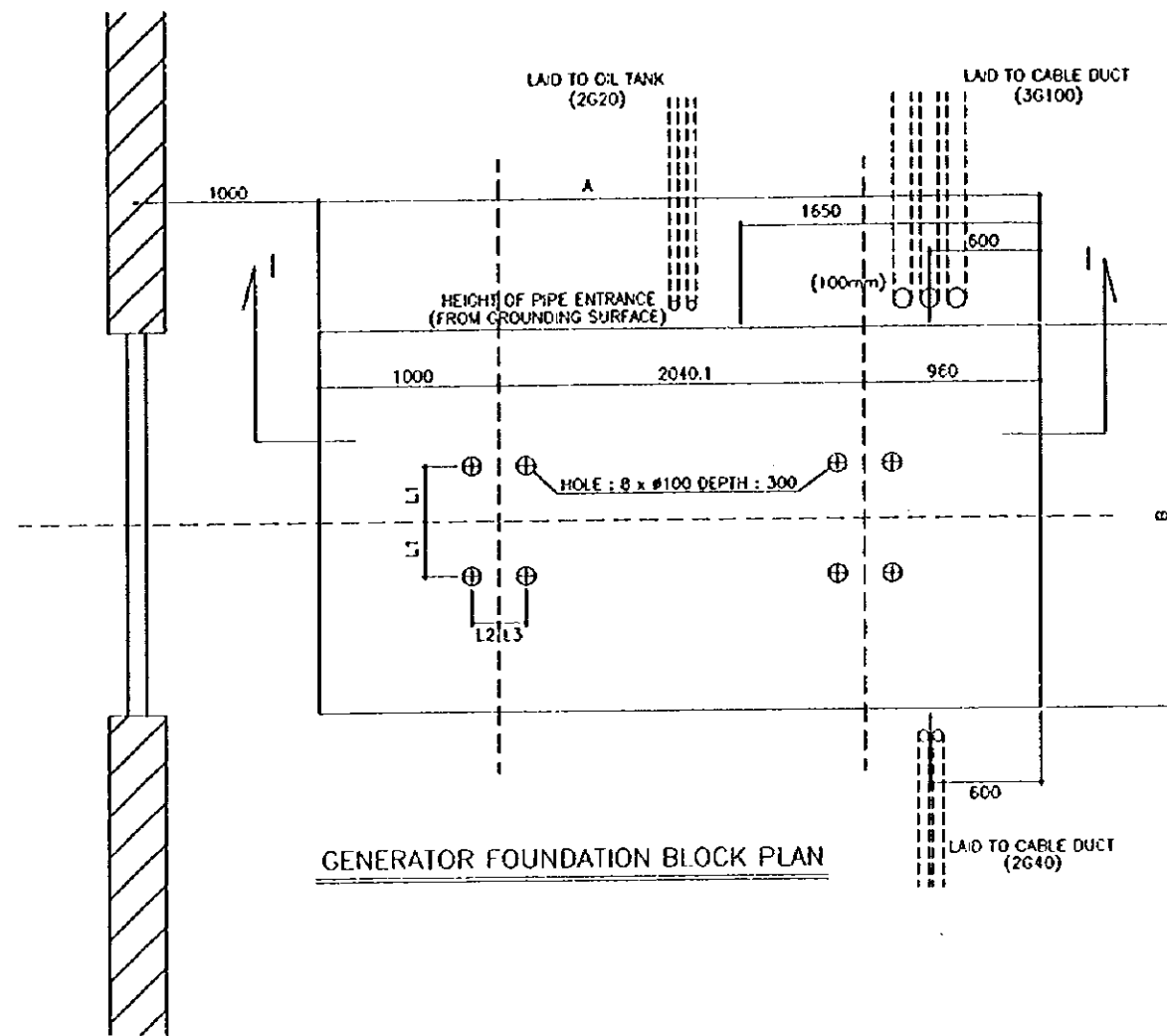
SECONDARY AFL SUB-STATION

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
STAND-BY GENERATOR SET LAYOUT OF MAIN AND SECONDARY AFL SUB-STATION	
SCALE 1/50	DWG-121
JAPAN INTERNATIONAL COOPERATION AGENCY	

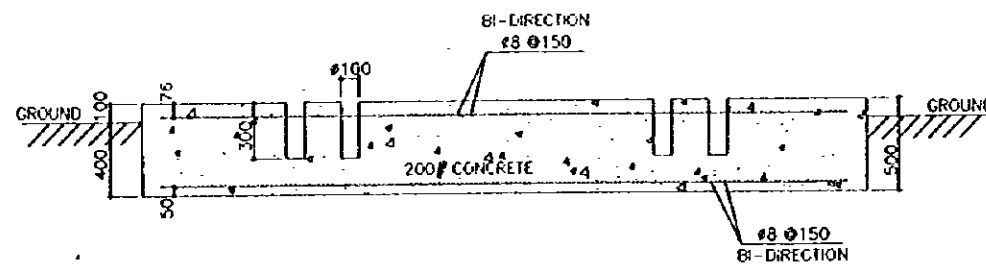


MAIN AC SUB STATION - B0140
 SECONDARY AC SUB STATION - B0140

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SCHEMATIC CONNECTION DIAGRAM OF UPS	
SCALE NON SCALE	DWG2-E22
JAPAN INTERNATIONAL COOPERATION AGENCY	

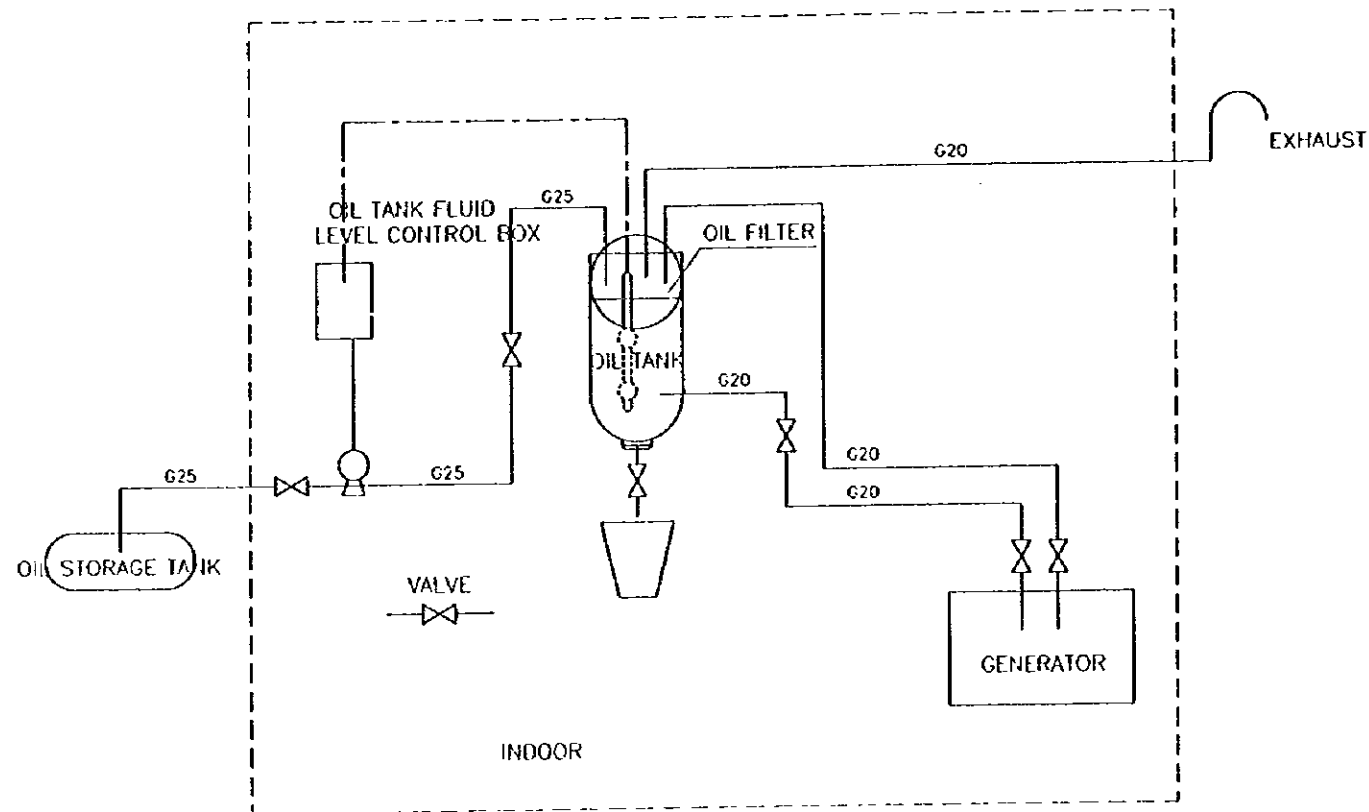


GENERATOR FOUNDATION BLOCK PLAN

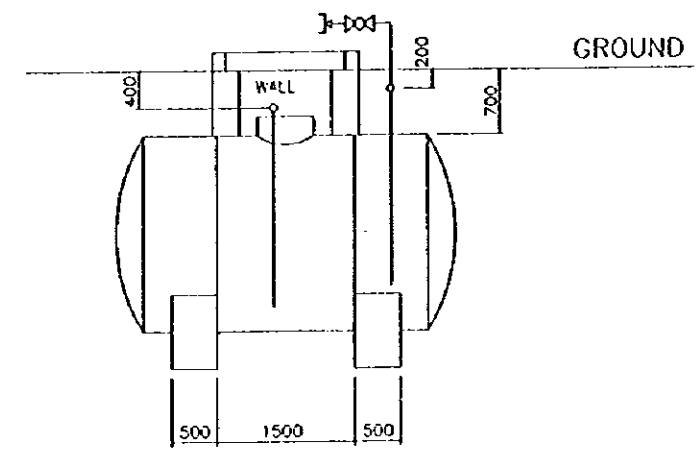
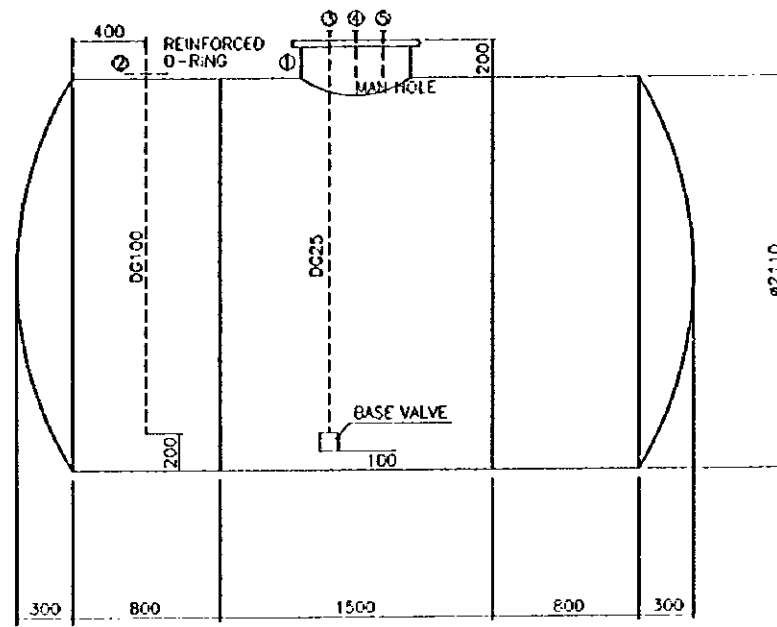


I-I CROSS SECTION DIAGRAM

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
FOUNDATION DRAWING OF DIESEL GENERATOR SET	
SCALE NON SCALE	DWG2-E23
JAPAN INTERNATIONAL COOPERATION AGENCY	

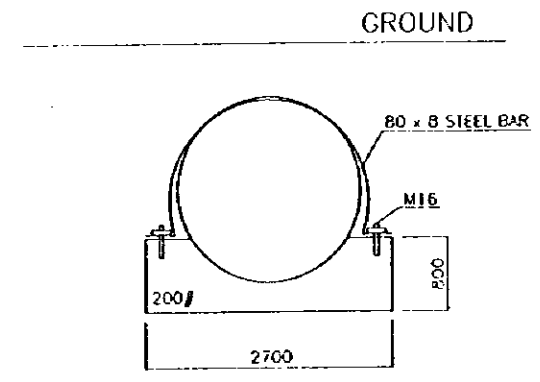


PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
PIPING SYSTEM DRAWING OF OIL TANK	
SCALE: NON SCALE	DWG2-E24
JAPAN INTERNATIONAL COOPERATION AGENCY	



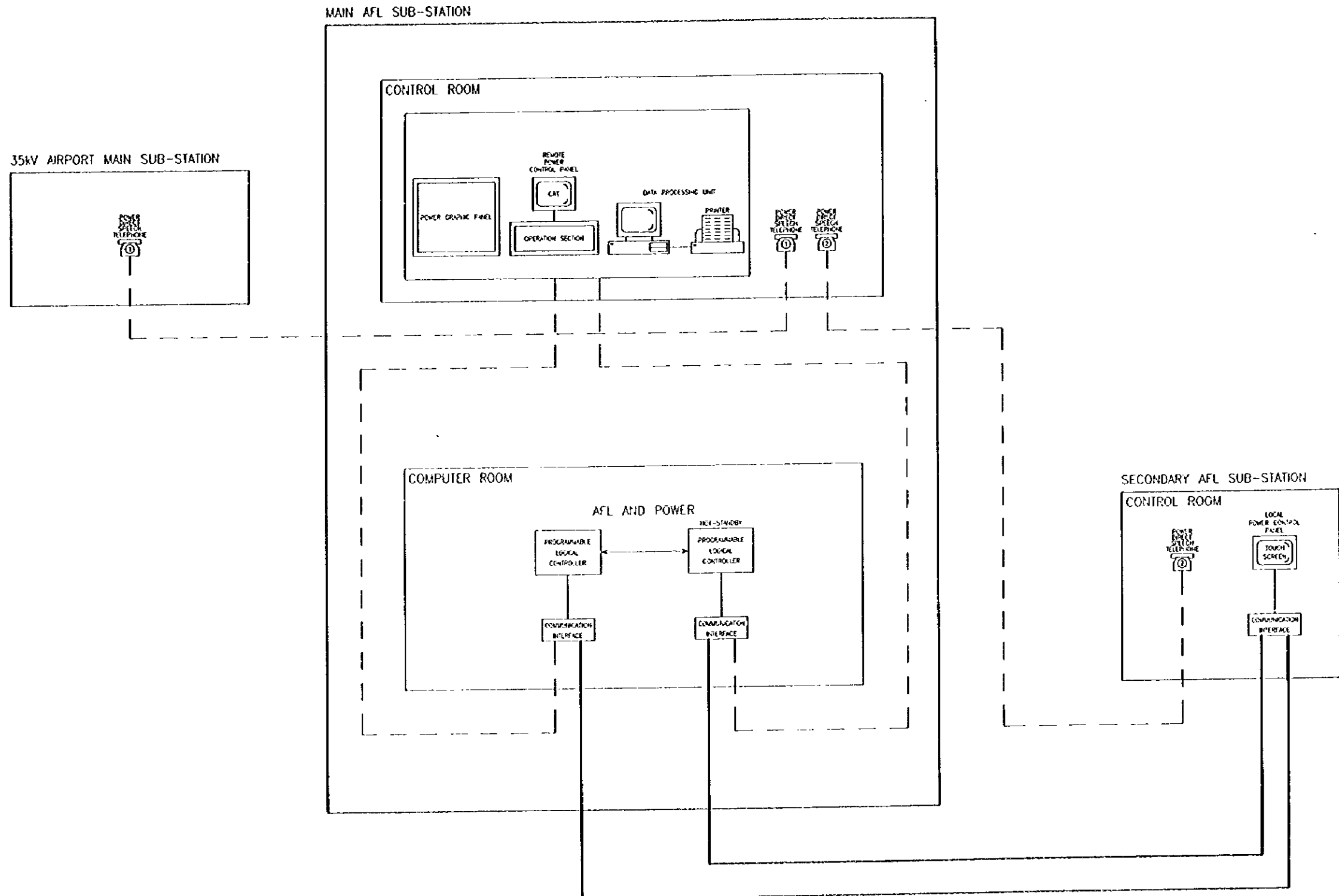
A-A CROSS SECTION

DIRECTION						
NO.	NAME	QUANTITY	DG(mm)	PG(mm)	CONNECTING PIPE LENGTH(mm)	REMARKS
①	MAN HOLE	1	600	10	200	
②	OIL IN	1	100	10	200	
③	OIL OUT	1	25	10	100	
④	EXHAUST	1	50	10	100	
⑤	OIL MEASURE	1	100	10	200	



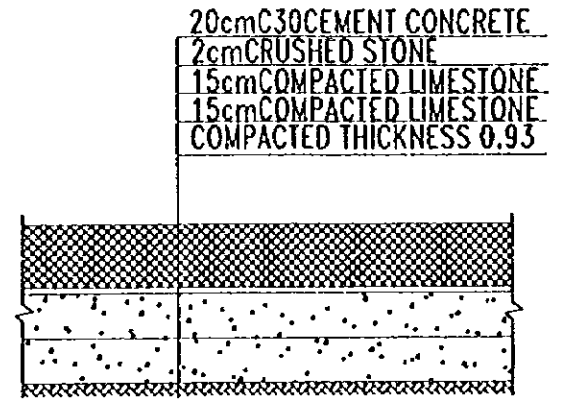
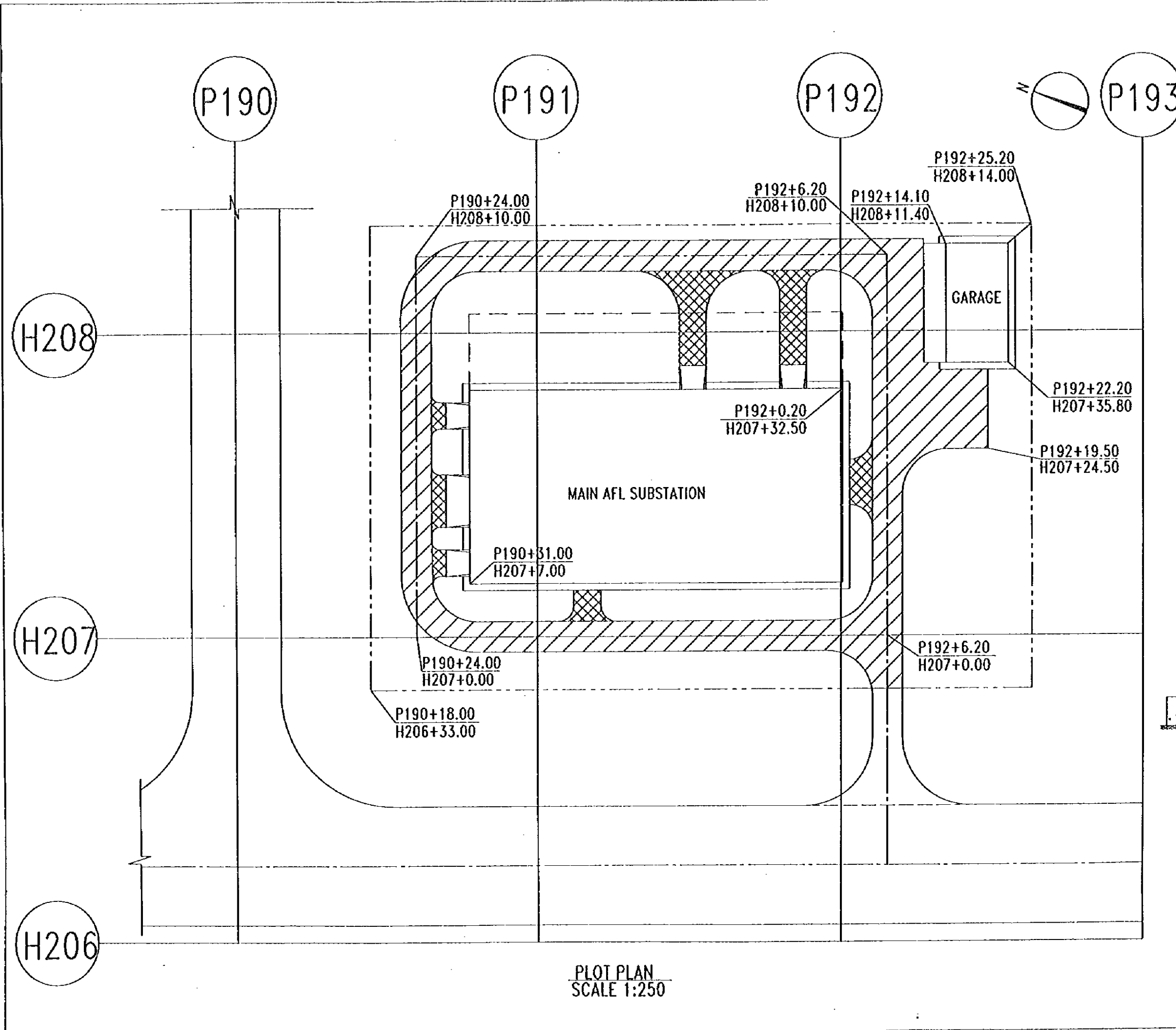
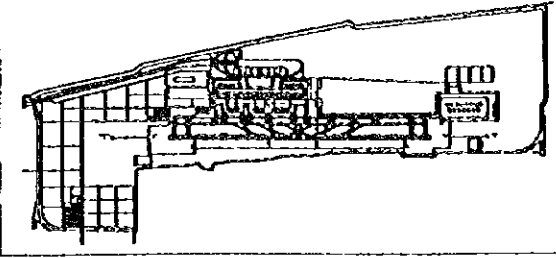
B-B CROSS SECTION

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
DIMENSION AND INSTALLATION DETAIL DRAWING OF HORIZONTAL OIL TANK	
SCALE NON SCALE	DWG2-E25
JAPAN INTERNATIONAL COOPERATION AGENCY	

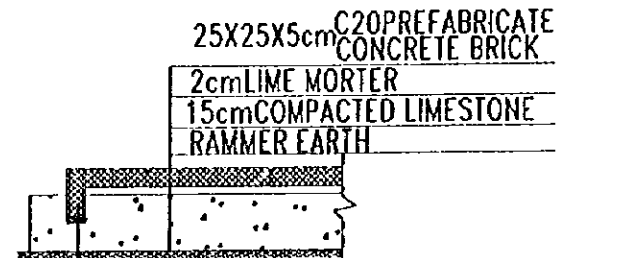
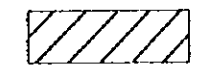


- - - - : COMMUNICATION CABLE
 ————— : OPTICAL FIBER CABLE

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SCHEMATIC CONNECTION DIAGRAM OF POWER CONTROL AND MONITORING SYSTEM	
SCALE NON SCALE	DWG2-E26
JAPAN INTERNATIONAL COOPERATION AGENCY	



PAVEING FOR ROAD



PAVEING FOR SIDEWALK



PLOT PLAN
SCALE 1:250

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN AFL SUBSTATION	
PLOT PLAN AND PAVING DETAIL	
SCALE	0 5 10 15 DWG2-A0
JAPAN INTERNATIONAL COOPERATION AGENCY	

DOOR & WINDOW TABLE

Name	Type	Opening Size	Standard Dwg.	Number		Remark
				1st F	2nd F	
C1	Aluminum alloy sliding window	1200x1800	# 91J604-TC1218	10	20	white aluminum alloy, 5+6+5 double-layer sandwich glass
C2	Aluminum alloy sliding window	1200x900	# 91J604-TC1209	2	2	white aluminum alloy, 5+6+5 double-layer sandwich glass
C3	Aluminum alloy sliding window	1500x1800	# 91J604-TC1518	1		white aluminum alloy
C4	Aluminum alloy sliding window	1200x1800	# 91J604-TC1218	8		white aluminum alloy
C5	Aluminum alloy sliding window	3250x1800	# 91J604-TC1518		4	white aluminum alloy, 5+6+5 double-layer sandwich glass
C6	Aluminum alloy sliding window	1200x900	# 91J604-TC1209	7	2	white aluminum alloy
C7	Louver window	1200x500	J652 C3-1206	5		
C8	Louver window	1500x500	J652 C3-1506	2		
C9	Louver window	1200x600	J652 C3-1206	4		
C10	Louver window	900x900	J652 C3-0909	2		
C11	Fixed window	1200x1800	# 91J604-GC1518	7		white aluminum alloy window, 5 thick wire glass fire window
M1	Steel door	2100x3000	J652 M3-2130	1		
M2	Wooden door	1500x2100	JH(A)M13-1521	10		
M3	Aluminum alloy door	1500x3000	# 91J604-PM1530	2		white aluminum alloy, 8+6+8 double-layer sandwich glass
M4	Wooden door	900x2100	JH(A)M13-0921	1		
M5	Wooden door	1500x2100	JH(A)M43-1521	1	6	
M6	Wooden door	900x2100	JH(A)M43-0921	4	10	
M7	Wooden door	900x2100	JH(A)M45-0921	3	4	
M8	Aluminum alloy door	900x2100			1	
M9	Steel door	1500x3000	J652 M3-1530	2		
M10	Aluminum alloy door	1500x2250	# 91J604-PM1530		1	8+6+8 double-layer sandwich glass
M11	Wooden door	1500x3000	JH(A)M13-1530	1		fire door, section >=41mm, wrapped in galvanized iron
M12	Wooden door	1500x2100	JH(A)M13-1521	2		fire door, section >=41mm, wrapped in galvanized iron
M13	Wooden door	1500x2100	JH(A)M43-1521		2	fire door, section >=41mm, mineral wool filling in leaf
M14	Wooden door	900x2100	JH(A)M43-0921		1	fire door, section >=41mm, mineral wool filling in leaf
M15	Aluminum alloy door	1500x2700	# 91J604-PM1527		1	8+6+8 double-layer sandwich glass
M16	Steel door	1500x3000	J652 M4-1530	1		
1. Auto door closer shall be provided for fire door. 2. Fire door & window Fire-resisting limit: >=0.5 hour Negative pressure resistance: >=1200Pa.						

BUILDING CONSTRUCTION TABLE

Name	Floor	Interior Wall	Skirt	Ceiling	Roof		
	Topping/Construction	Topping/Construction	Topping/Construction	Topping/Construction			
151	Lobby	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1		
	Corridor	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2	Roof2	
	Guard Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2		
	Maint Person Rest Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2		
	HV Switchboard Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1	Roof2	
	CCR Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2	Roof2	
	UPS Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2	Roof2	
	Battery Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1	Roof2	
	Transformer Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1		
	LV Switchboard Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1		
	Hot Water Room	Brick/Floor 2	Coating/Interior Wall	Brick/ Skirt 2	Coating/Ceiling1		
	Storage Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1		
	Testing Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2		
	Locker Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2		
	Generator Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1	Roof2	
	Repair Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2		
	Toilet	Brick/Floor 2	Brick/Interior Wall 2	Brick/ Skirt 2	Coating/Ceiling2		
	Duty Room	Terrazzo/Floor	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1		
	152	Office Room	Terrazzo/B.F. 1	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1	Roof1
		CPU Room	Plastic/B.F.2	Coating/Interior Wall	Plastic/Skirt3	Coating/Ceiling1	Roof1
Manager Room		Terrazzo/B.F. 1	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1	Roof1	
Conference Room		Terrazzo/B.F. 1	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1	Roof1	
Records Storage Room		Plastic/B.F.2	Coating/Interior Wall	Plastic/Skirt3	Coating/Ceiling1	Roof1	
Special Fire-fighting Equipment Room		Terrazzo/B.F. 1	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2	Roof1	
Corridor		Terrazzo/B.F. 1	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1	Roof1	
Hot Water Room		Brick/B.F.3	Coating/Interior Wall	Brick/ Skirt 2	Coating/Ceiling1	Roof1	
Control and Monitor Room		Plastic/B.F.2	Coating/Interior Wall	Plastic/Skirt3	Coating/Ceiling1	Roof1	
Warehouse		Terrazzo/B.F. 1	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2	Roof1	
Control and Monitor Duty Room		Plastic/B.F.2	Coating/Interior Wall	Plastic/Skirt3	Coating/Ceiling1	Roof1	
Locker Room		Terrazzo/B.F. 1	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling1	Roof1	
Data Room		Terrazzo/B.F. 1	Coating/Interior Wall	Plastic/Skirt3	Coating/Ceiling1	Roof1	
Woman's Toilet		Brick/B.F.3	Brick/Interior Wall 2		Coating/Ceiling1	Roof1	
Man's Toilet		Brick/B.F.3	Brick/Interior Wall 2		Coating/Ceiling1	Roof1	
Bed Room		Terrazzo/B.F. 1	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2	Roof1	
Corridor	Terrazzo/B.F. 1	Coating/Interior Wall	Terrazzo/ Skirt	Coating/Ceiling2	Roof1		

DESIGN INTRODUCTION

- This project is Main Lighting Substation of aviation lighting works of Shanghai Pudong International Airport, its general positions and outdoor elevations refer to General Drawing.
Floor area: 1969.92m²
- CO2 protective room enclosure structure:
Fire-resisting limit: not less than 0.5 hour,
Negative-pressure-resisting: not less than 1200Pa

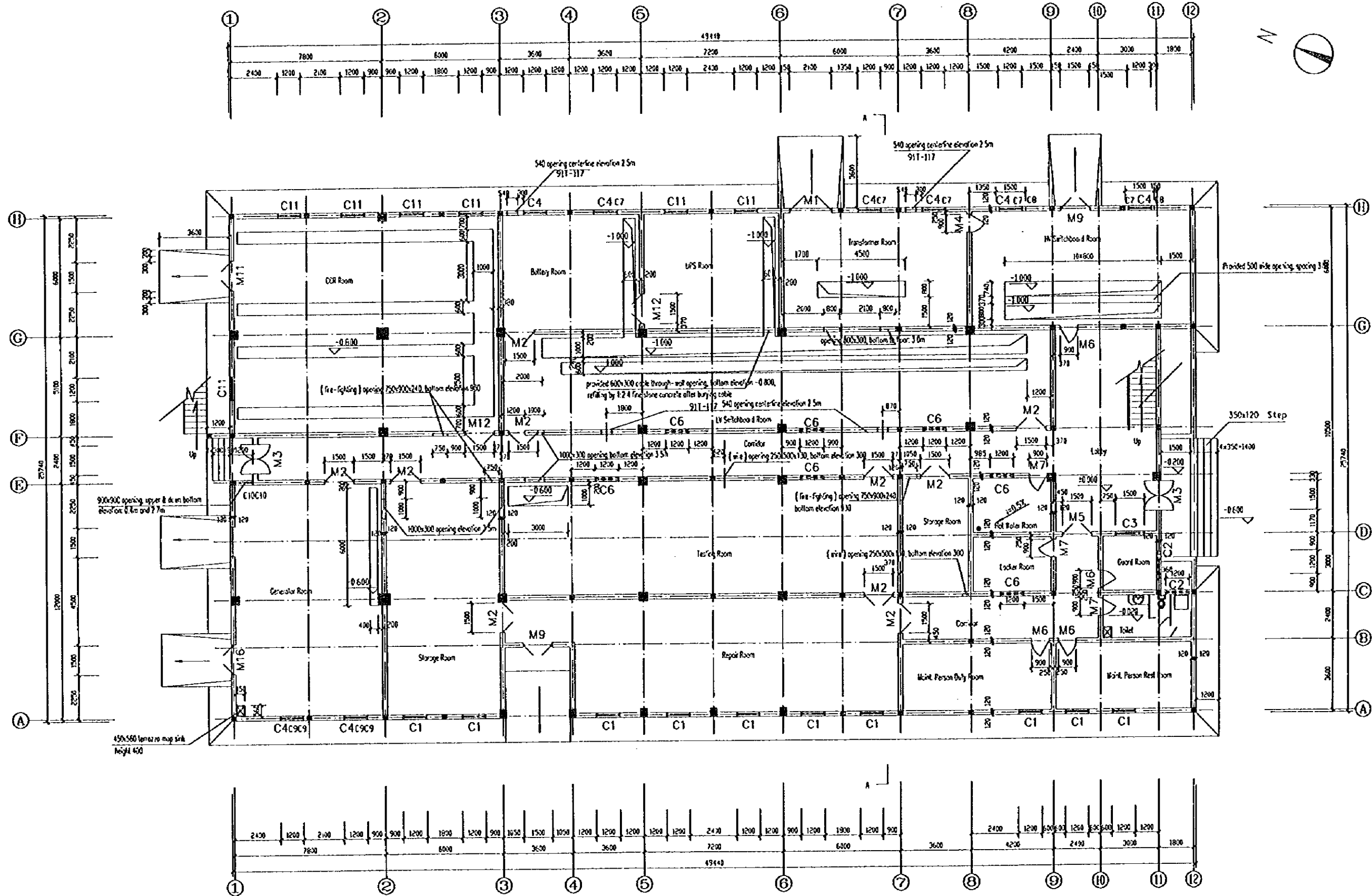
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN AFL SUBSTATION	
DOOR & WINDOW TABLE, BUILDING CONSTRUCTION TABLE AND DESIGN INTRODUCTION	
SCALE	NON SCALE
DWG2-A1	
JAPAN INTERNATIONAL COOPERATION AGENCY	

No.	Topping	Construction
Floor 1	Terrazzo	1. 450x450x25 light green pre-cast terrazzo board, white cement pointing; 2. Spread plain cement (with appropriate water); 3. 30 thick 1:4 hard cement mortar binder course; 4. One coat of plain wet cement; 5. 110 thick C15 concrete; 6. 150 thick pebble, grouting M2.5 mixed mortar; 7. Soil tamping.
Floor 2	Floor Brick (with water-proof layer)	1. 10 thick Floor brick pavement, dry cement pointing; 2. Spread plain cement (with appropriate water); 3. 30 thick 1:4 hard cement mortar binder course; 4. One coat of plain wet cement; 5. 60 thick (highest point) 1:2.4 fine stone concrete flashing from door to drain, lowest point: not less than 30 thick; 6. One-felt-two-asphalt water-proof layer, rolling up to 150 high all around, pasting coarse sand; 7. 150 thick pebble, grouting M2.5 mixed mortar; 8. Soil tamping.
Apron 1	Concrete	1. 50 thick C15 concrete 1:1 cement mortar, tamping & polishing; 2. 150 thick pebble, grouting M2.5 mixed mortar; 3. Soil tamping, pitch to outside 4%.
Step 1	Terrazzo	1. 450x450x25 light green pre-cast terrazzo board, white cement pointing; 2. Spread plain cement (with appropriate water); 3. 30 thick 1:4 hard cement mortar binder course; 4. One coat of plain wet cement; 5. 60 thick C15 concrete (thickness not include triangle part of tread), tread surface pitch to outside: 1%; 6. 150 thick pebble, grouting M2.5 mixed mortar; 7. Soil tamping (pitch as per engineering design).
Interior Wall 1	Coating	1. Paint interior wall coating; 2. 2 thick grummet finish coat; 3. 8 thick 1:3 lime putty mortar; 4. 13 thick 1:3 lime putty mortar priming.
Interior Wall 2	Facing Brick 3300 high	1. White cement pointing; 2. Paste 5 thick white glazed brick; 3. 8 thick 1.0:1:2.5 cement lime putty mortar binder course; 4. 12 thick 1:3 cement mortar priming, deburring or scratching.
Building Floor 1	Terrazzo	1. 450x450x25 light green pre-cast terrazzo board, white cement pointing; 2. Spread plain cement (with appropriate water); 3. 30 thick 1:4 hard cement mortar binder course; 4. One coat of plain wet cement; 5. 60 thick cement breeze binder course; 6. Cast-in-situ R.C. slab.

No.	Topping	Construction
Building Floor 2	Floor brick (with water-proof layer)	1. 10 thick floor brick pavement, dry cement pointing; 2. Spread plain cement (with appropriate water); 3. 30 thick 1:4 hard cement mortar binder course; 4. One coat of plain wet cement; 5. 50 thick (highest point) 1:2.4 fine stone concrete flashing from door to drain, lowest point: not less than 30 thick; 6. Two-felt-three-asphalt water-proof layer, rolling up to 150 high all around, pasting coarse sand, 300 wide pavement of entrance; 7. 20 thick 1:3 cement mortar levelling course, brushed one coat of asphalt oil; 8. One coat of plain wet cement binder course; 9. Cast-in-situ R.C. slab.
Building Floor 3	Plastic	1. 300 high light-green electrostatic-resisting movable floor; 2. 20 thick 1:2.5 cement mortar levelling course; 3. One coat of plain wet cement binder course; 4. Cast-in-situ R.C. slab.
Building Floor 4	Terrazzo	1. 450x450x25 light-green pre-cast terrazzo board, white cement pointing; 2. Spread plain cement (with appropriate water); 3. 30 thick 1:4 hard cement mortar binder course.
Skirt 1	Terrazzo 120 high	1. White cement pointing; 2. Paste 15 thick black terrazzo board; 3. 12 thick 1:3 cement mortar.
Skirt 2	Floor brick 120 high	1. Dry cement pointing; 2. 10 thick floor brick pavement; 3. 8 thick 1:2.5 cement mortar binder course; 4. 12 thick 1:3 cement mortar priming, deburring or scratching.
Skirt 3	Plastic	1. 78 deep-green assembly-type plastic skirt; 2. Metal skirt card to be fixed by plastic expanded clip.
Ceiling 1	Coating	1. Paint white scrubbing-resisting coating; 2. 2 thick grummet finish coat; 3. 6 thick 1:3.9 cement lime putty mortar; 4. 2 thick 1:0.5:1 cement lime putty mortar priming; 5. R.C. slab bottom to be brushed one coat of plain wet cement (mixing 107 glue with water 3%~5%).
Ceiling 2	Gypsum Board Ceiling	1. Paint white scrubbing-resisting coating; 2. Full claircolle making & levelling; 3. Brush one coat of emulsified oil; 4. Double-layer 900x3000x9 paper-faced gypsum board, to be fixed by self-attached bolt; 5. Small metal lath concave 19x25x0.5x3000 6. Small metal lath concave 19x25x0.5x900;

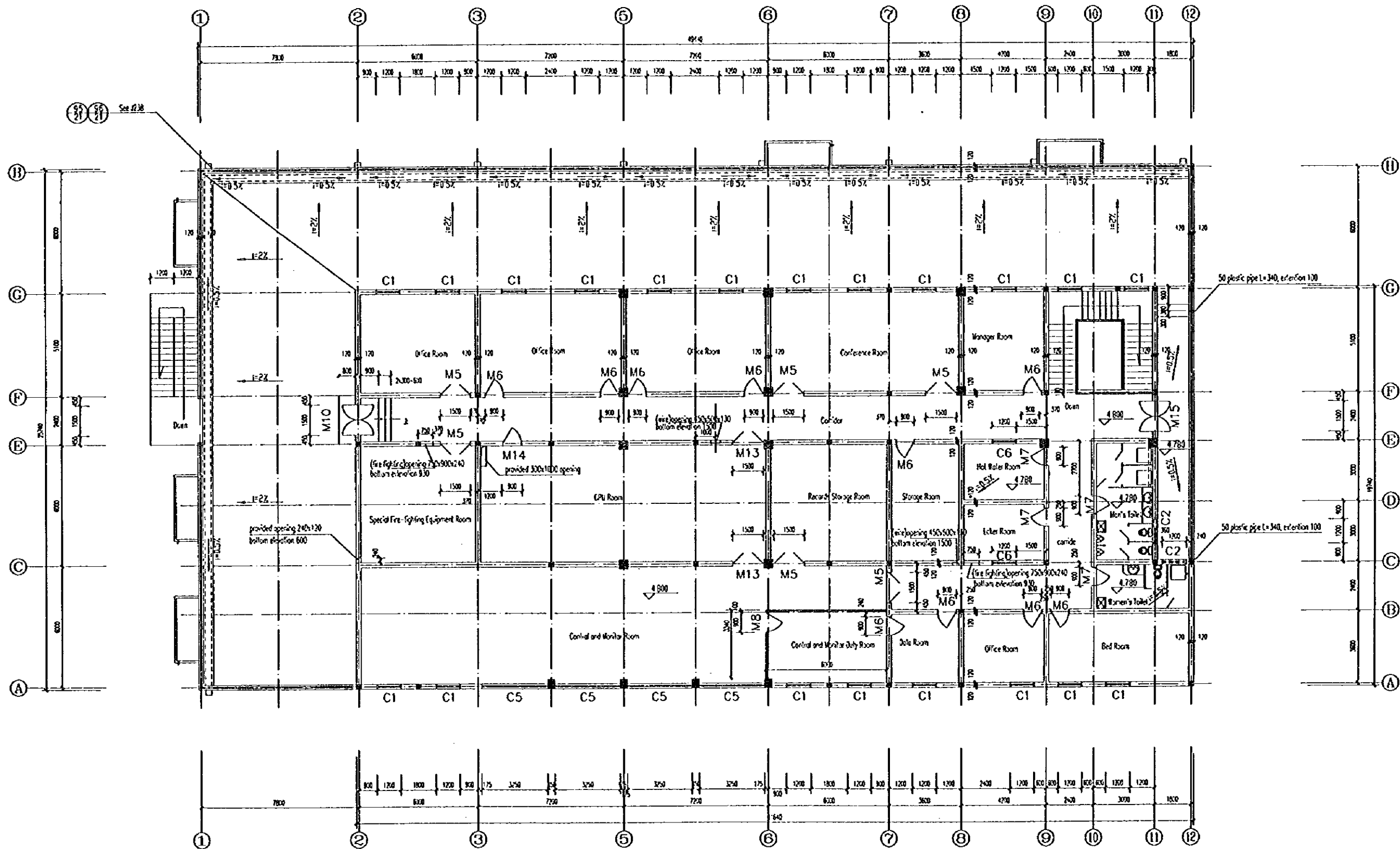
No.	Topping	Construction
		7. Medium-sized metal lath concave 19x50x0.5x900; 8. Big metal lath concave 45x15x0.1.2x1200; 9. 8 hanger bar two-way arrangement, 900--1200x12 expanded bolt fixing
Roof 1	Small Stone Protection Layer (without persons)	1. Pave one layer of binded peastone of 3~6 in portical size; 2. Ternary ethylene-propylene rubber rolled material water-proof layer; 3. 20 thick 1:2.5 cement mortar levelling course; 4. Pave 1.8 cement perlite thermal insulation layer, lowest point: 30, 2% pitch, vibrating & tamping, polishing (exhaust channel, PVC exhaust dust to be provided with vent spacing of not more than 6 ms as per Codes); 5. 20 thick 1:3 cement mortar levelling course; 6. R.C.slab.
Roof 2	Cement brick (with persons)	1. 20 thick cement brick; 2. Spread plain cement (with appropriate water); 3. 20 thick 1:2.5 hard cement mortar protection layer; 4. Ternary ethylene-propylene rubber rolled material water-proof layer; 5. 20 thick 1:2.5 cement mortar levelling course; 6. Pave 1.8 cement perlite thermal insulation layer, lowest point: 30, 2% pitch, vibrating & tamping, polishing (exhaust channel, PVC exhaust dust to be provided with vent spacing of not more than 6 ms as per Codes); 7. 20 thick 1:3 cement mortar levelling course; 8. R.C.slab.
Exterior Wall 1	Facing Brick	1. 1:1 cement mortar (fine sand) pointing; 2. Paste 10 thick facing brick (as pasting as brushing one coat of Yj-302 type concrete interface treatment agent to increase binding force); 3. 12 thick 1:0.2:2 cement lime putty mortar binder course; 4. Brush one coat of plain wet cement (mixing 107 glue with water 3%~5%); 5. 8 thick 1:3 cement mortar priming, deburring or scratching; 6. Brush one coat of YJ-302 type concrete interface treatment agent (as brushing as plastering).
Ramp 1	Concrete	1. 20 thick 1:2 cement mortar mopping, 15 wide emery anti-slip strip, spacing 80, convex to ramp surface; 2. One coat of plain wet cement binder course; 3. 50 thick C15 concrete; 4. 300 thick pebble, grouting M2.5 mixed mortar; 5. Soil tamping (levelling as per plan & section dimensions).
Painting 1	Paint	1. Polishing; 2. Three coats of acrylic acid; 3. One coat of alcohol acid coating; 4. One coat of full claircolle making; 5. One of lubricating powder.
Painting 3		1. Two coats of antirusting point.
Painting 2		1. Two coats of dark-green mixed point; 2. Claircolle making; 3. One coat of antirusting point.

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN AFL SUBSTATION	
FINISHING TECHNICAL SPECIFICATIONS	
SCALE	NON SCALE DWG2-A2
JAPAN INTERNATIONAL COOPERATION AGENCY	



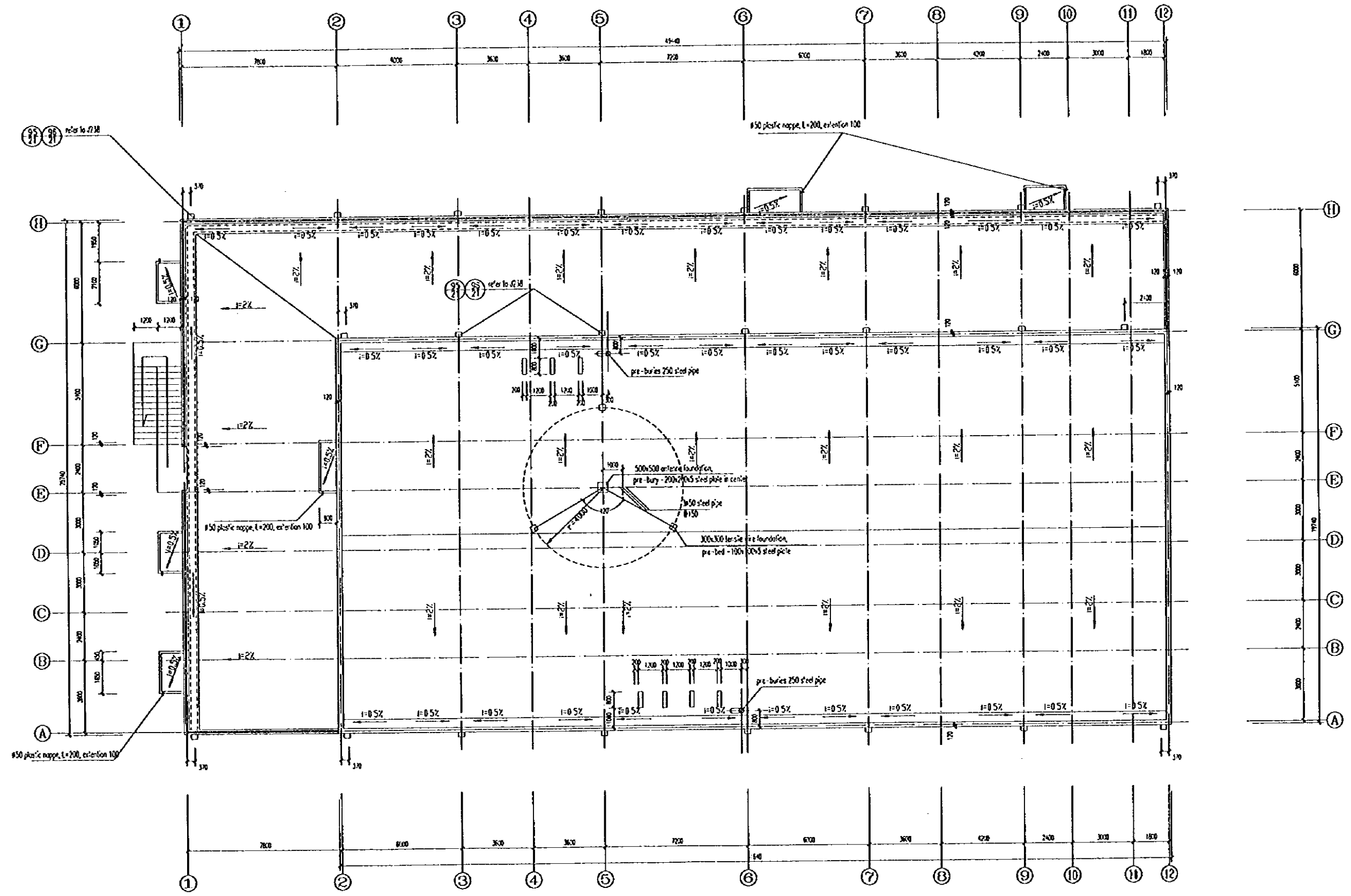
1ST FLOOR PLAN 1:100

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN AFL SUBSTATION	
1ST FLOOR PLAN	
SCALE $\frac{1}{100}$	CWG2-A3
JAPAN INTERNATIONAL COOPERATION AGENCY	



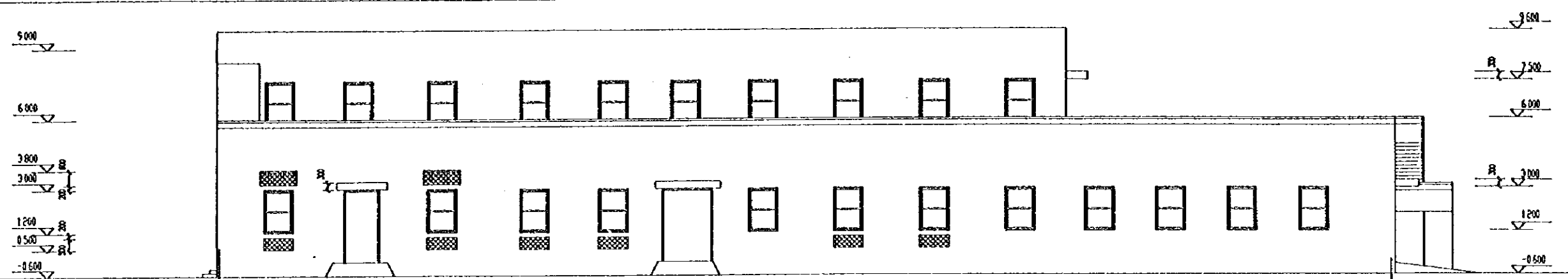
2ND FLOOR PLAN 1:100

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN A/L SUBSTATION	
2ND FLOOR PLAN	
SCALE	DWG2-A1
JAPAN INTERNATIONAL COOPERATION AGENCY	

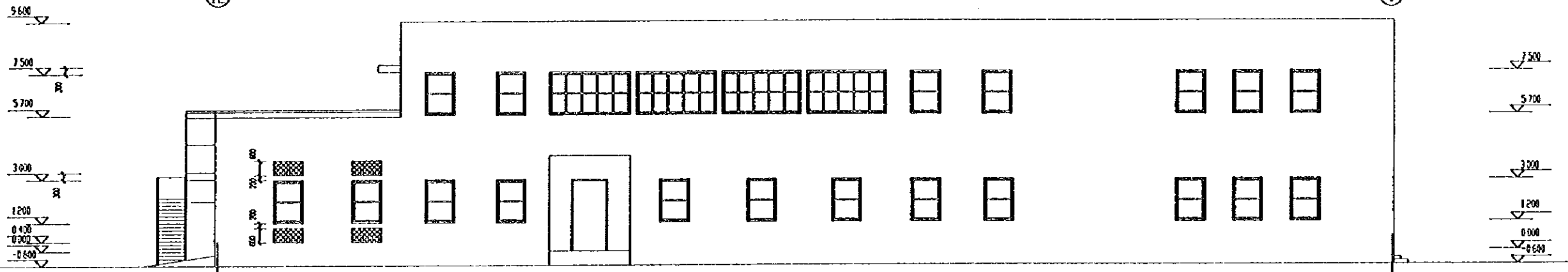


ROOF PLAN 1:100

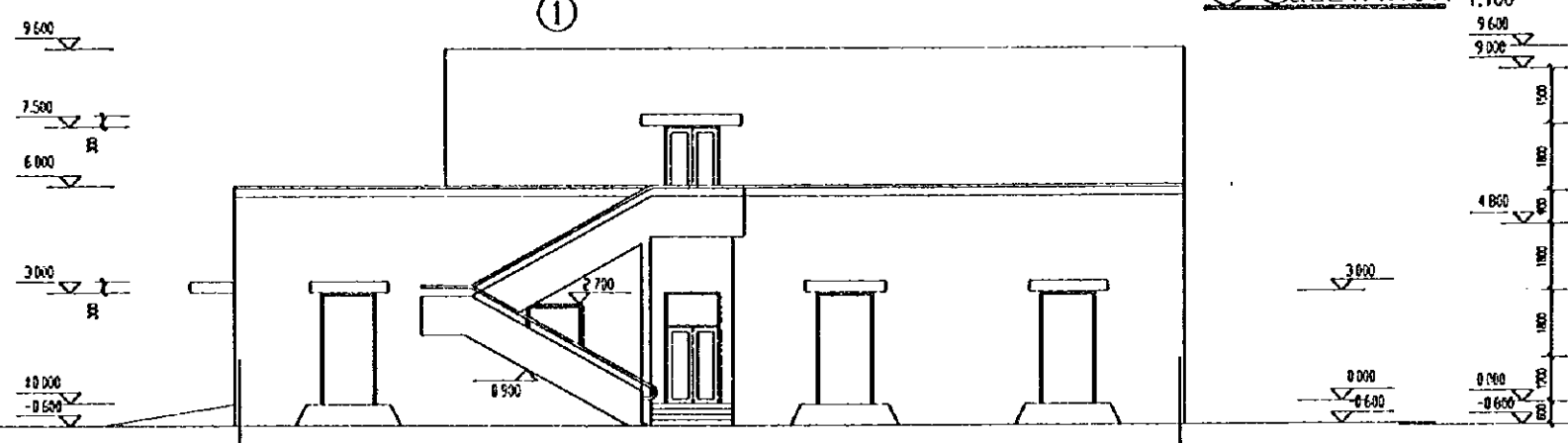
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN A11 SUBSTATION	
ROOF PLAN	
SCALE	DWG2-A5
JAPAN INTERNATIONAL COOPERATION AGENCY	



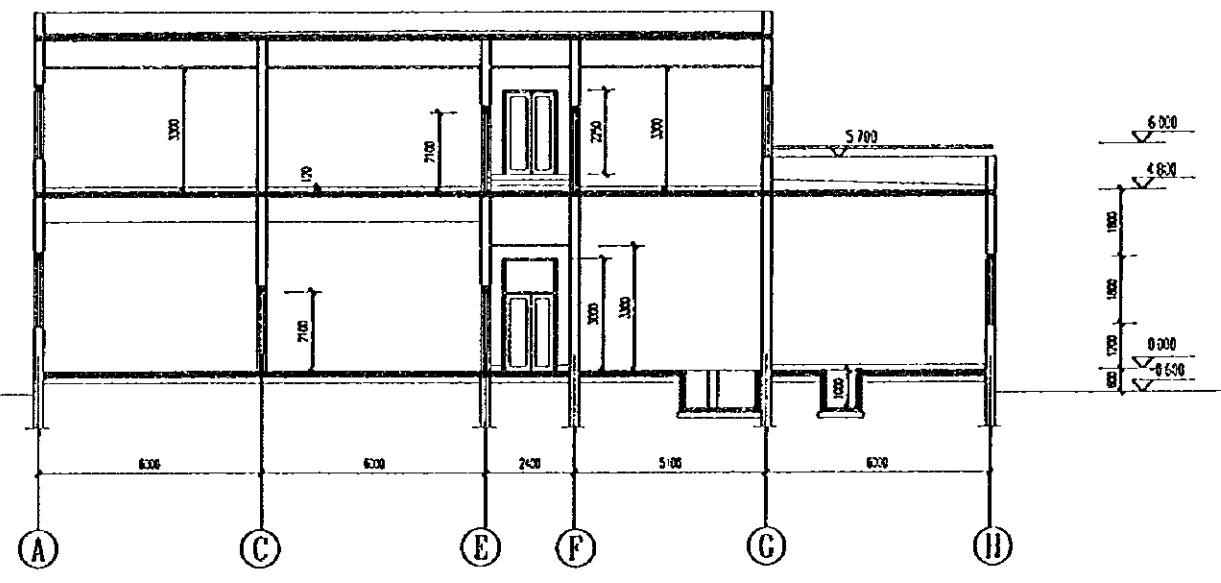
12-1 ELEVATION 1:100



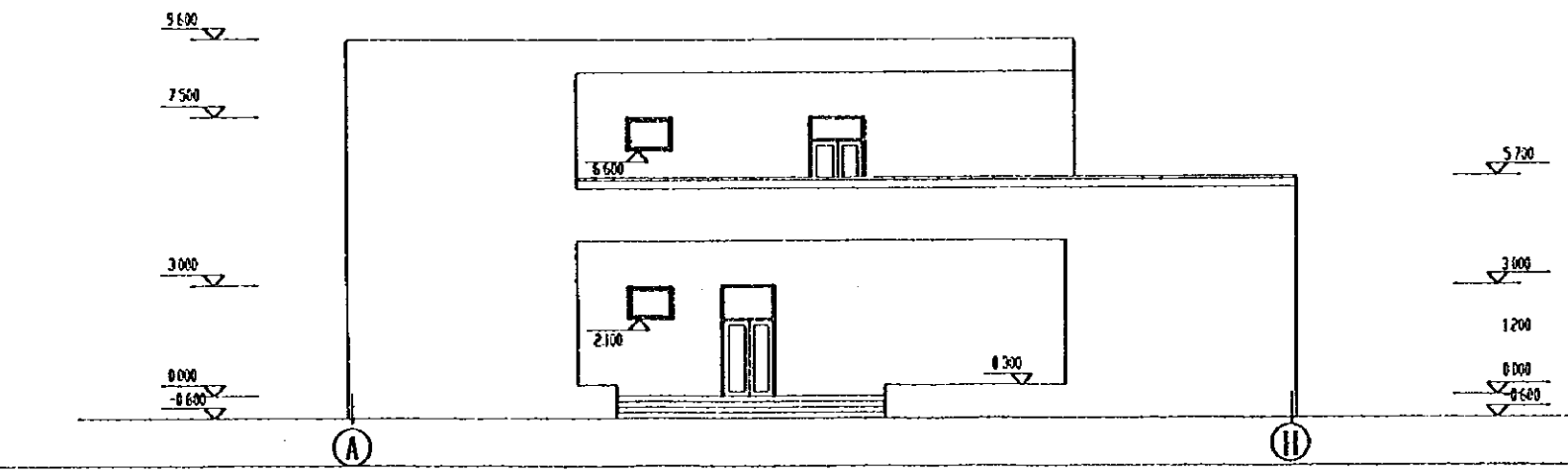
1-12 ELEVATION 1:100



H-A ELEVATION 1:100

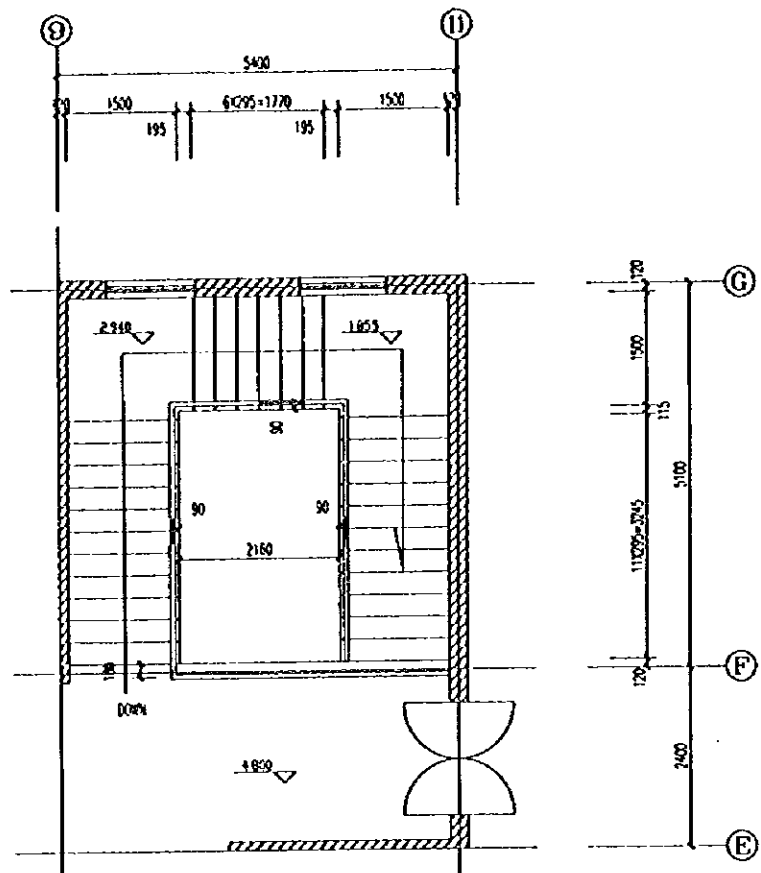


A-A SECTION 1:100 Note Exterior Wall 1 Post's grey 50:200 facing both horizontally with joint width of 5

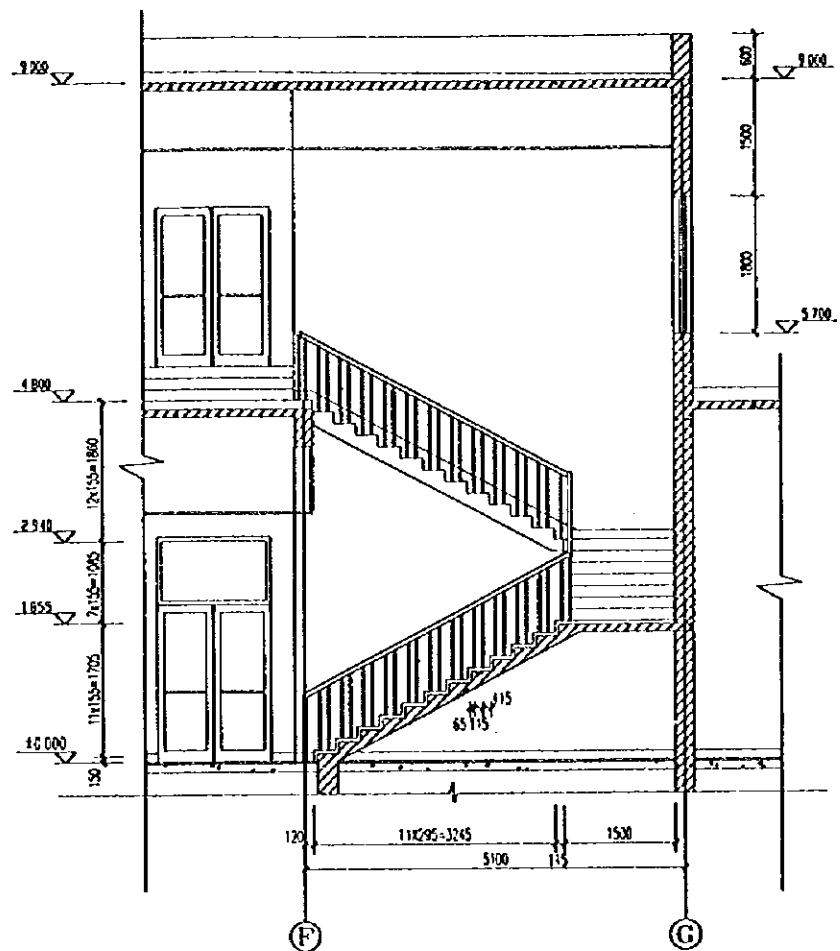


A-A ELEVATION 1:100

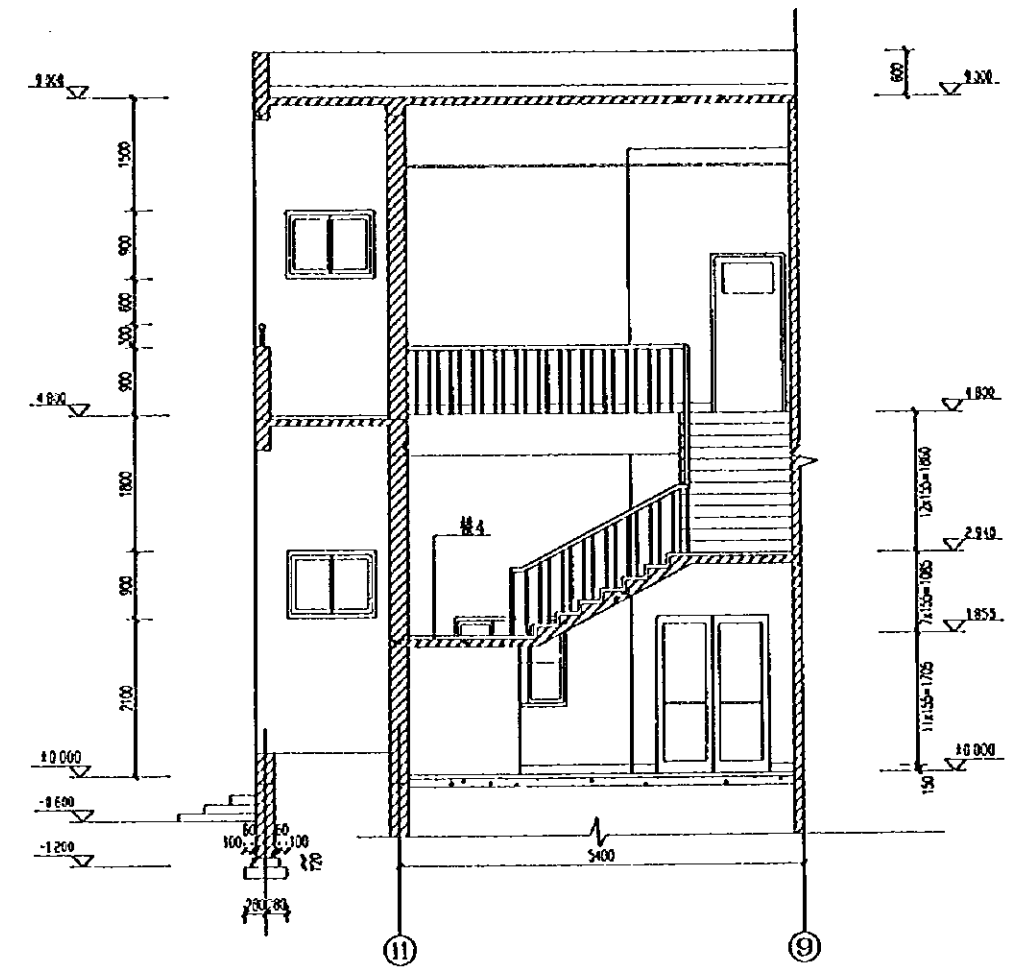
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN AFE SUBSTATION	
ELEVATION AND A-A SECTION	
SCALE	CWG2-A6
JAPAN INTERNATIONAL COOPERATION AGENCY	



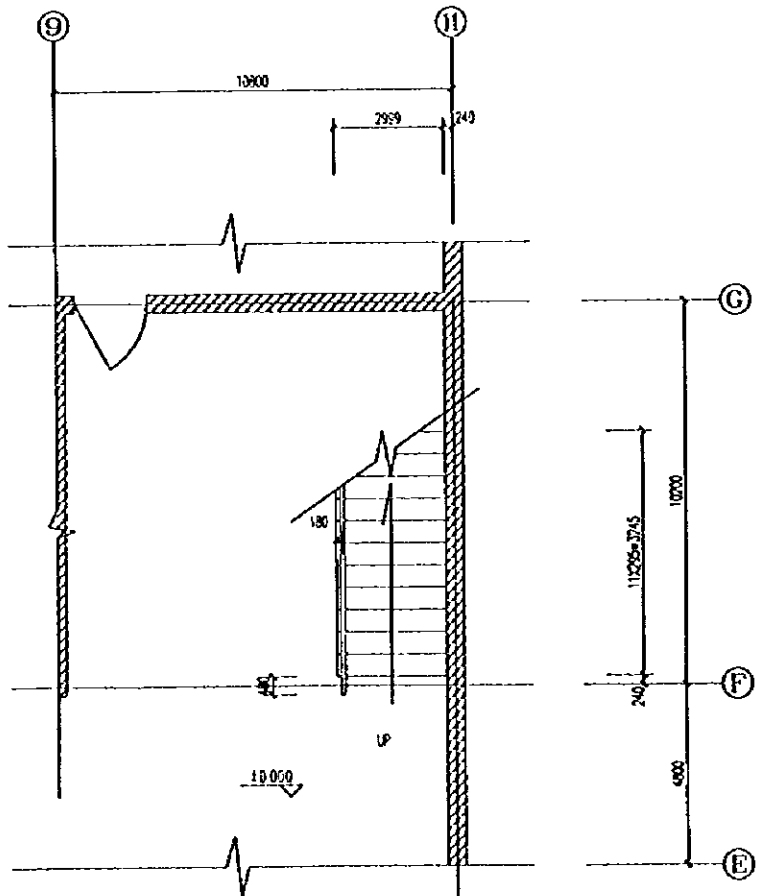
2ND FLOOR PLAN FOR NO.2 1:50



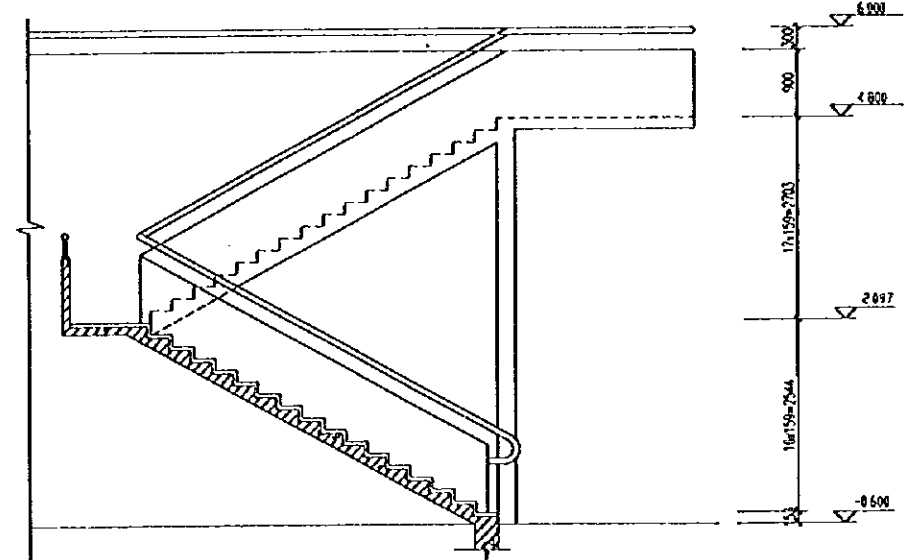
I-I SECTION 1:50



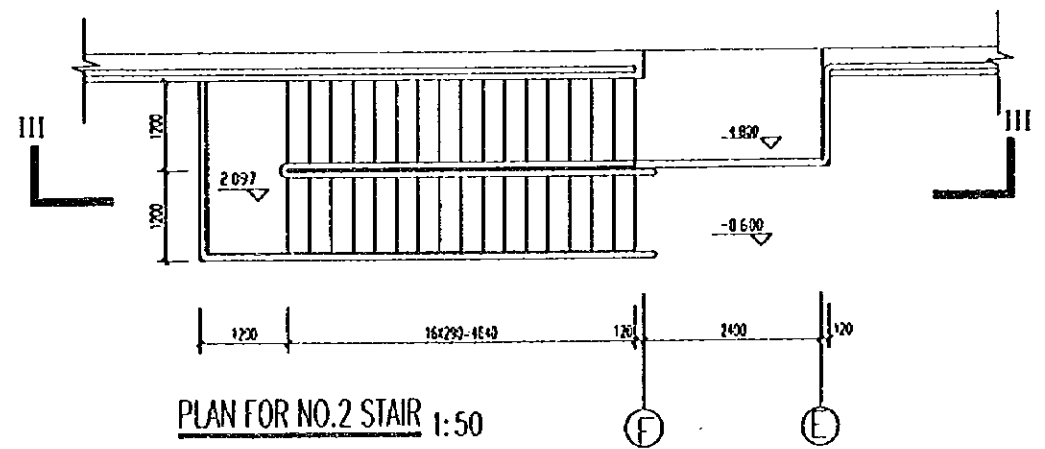
II-II SECTION 1:50



1ST FLOOR PLAN FOR NO.2 1:50

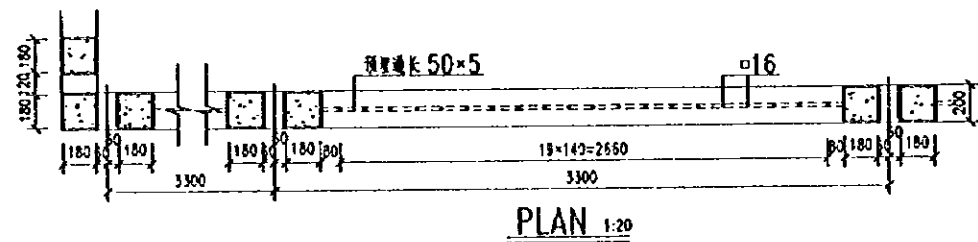
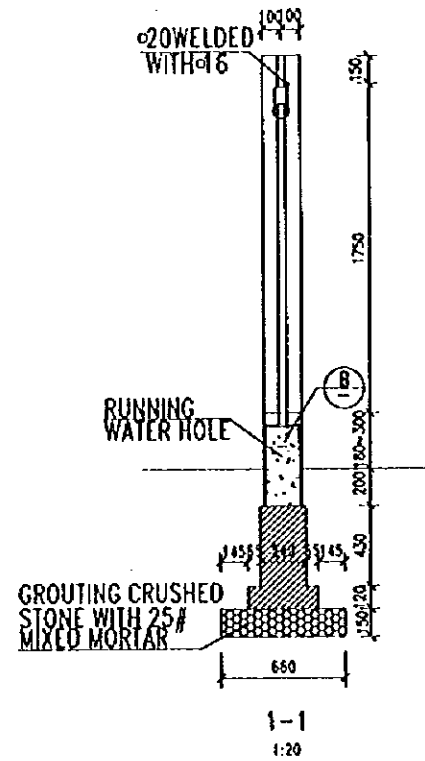
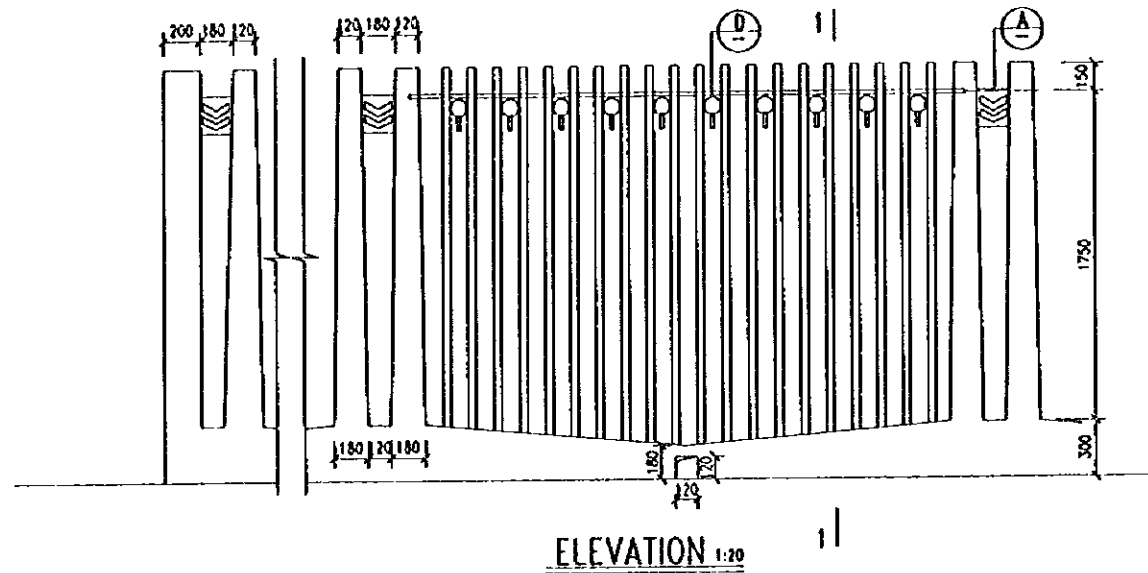


III-III SECTION 1:50



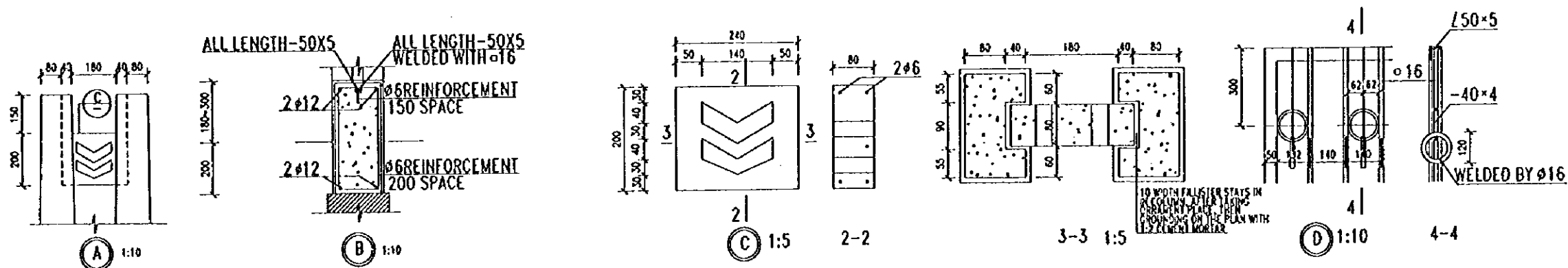
PLAN FOR NO.2 STAIR 1:50

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN A/E SUBSTATION	
STAIR DETAILS	
SCALE	DWG2-A7
JAPAN INTERNATIONAL COOPERATION AGENCY	

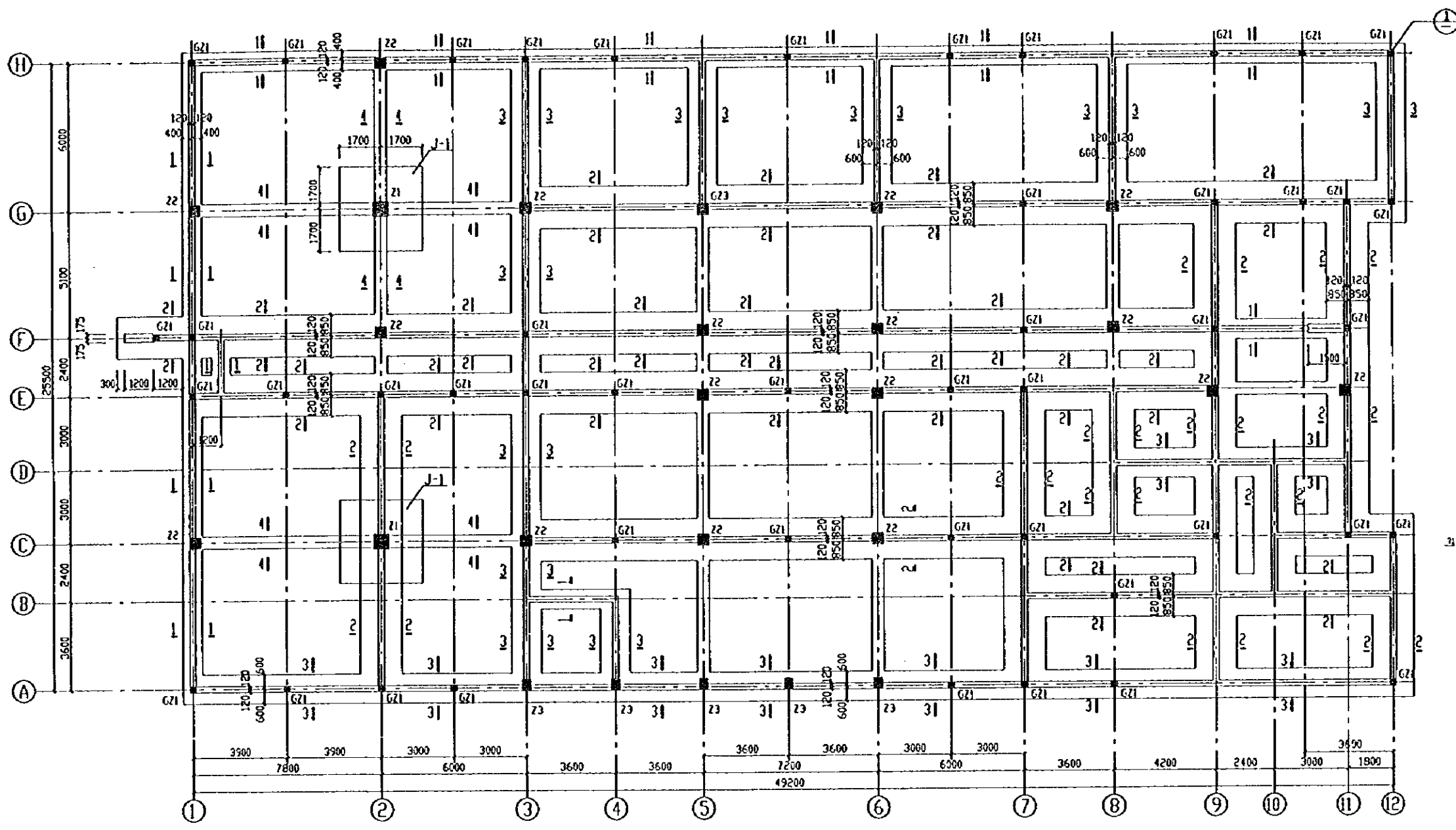


GATE SELECT LIST

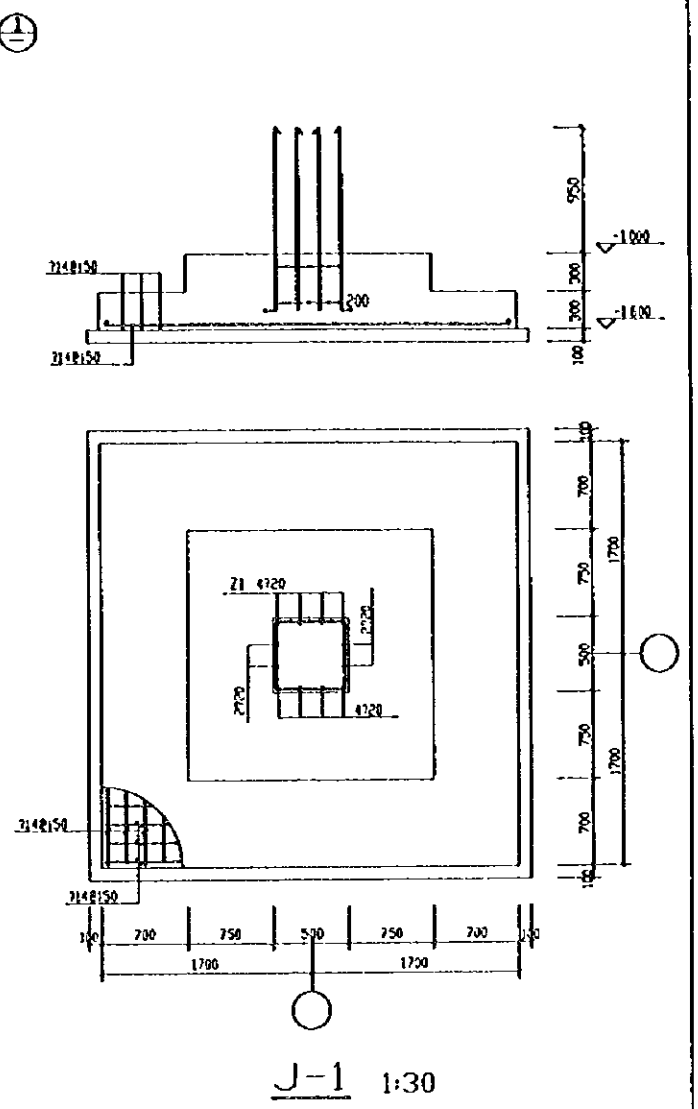
CODE	GATE TYPE	NUMBER	STANDARD DRAWING
M-1	M-3021	1	NATIONAL STANDARD 807.6011-1



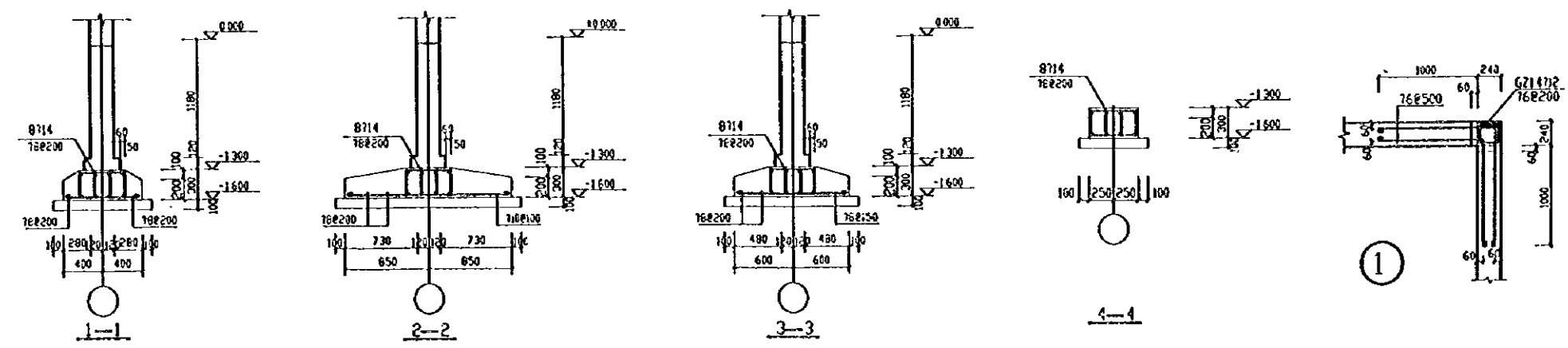
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MSN AFL SUB-STATION	
FENCE AND GATE DETAILS	
SCALE 1:10	OWG2-A3
JAPAN INTERNATIONAL COOPERATION AGENCY	



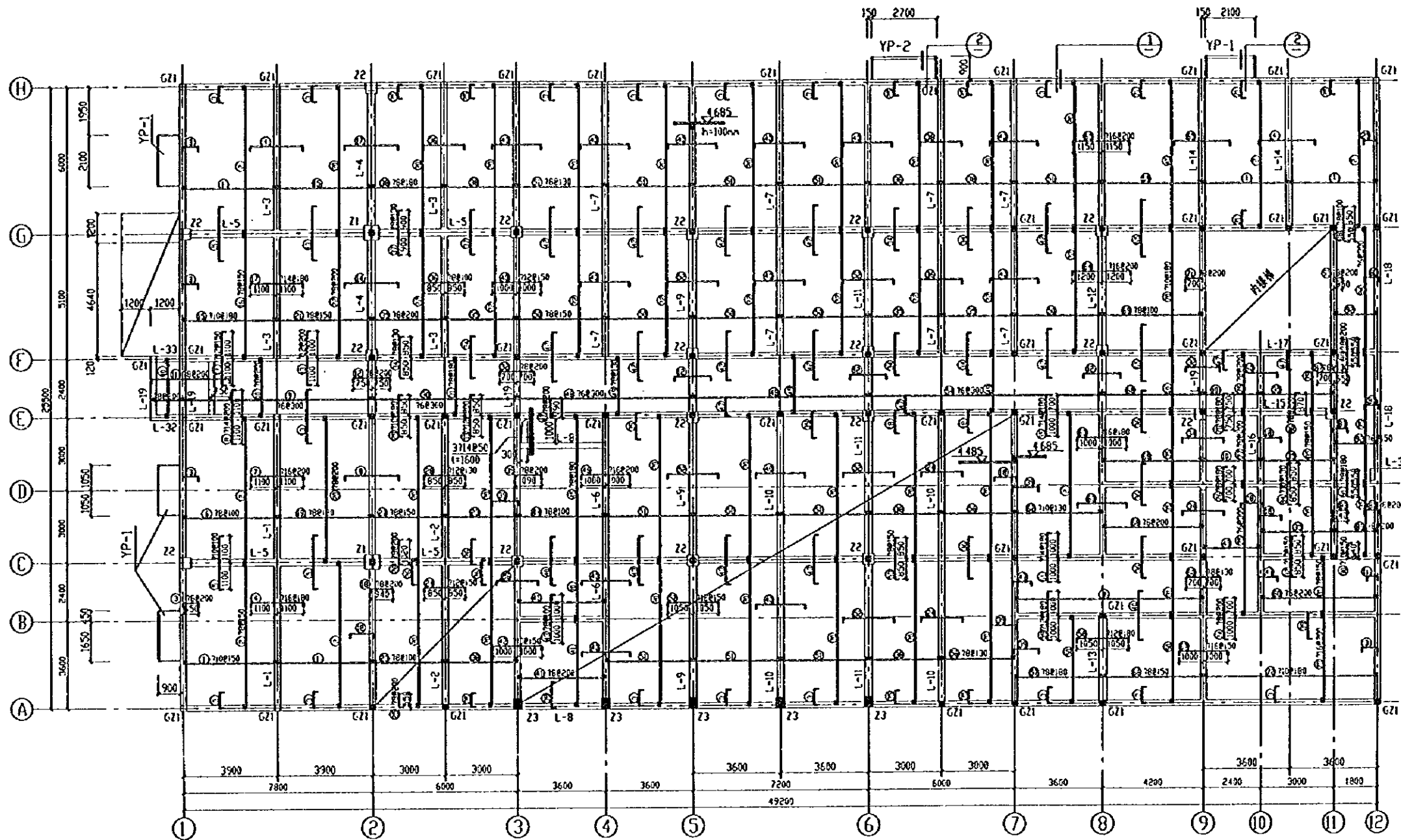
FOUNDATION PLAN



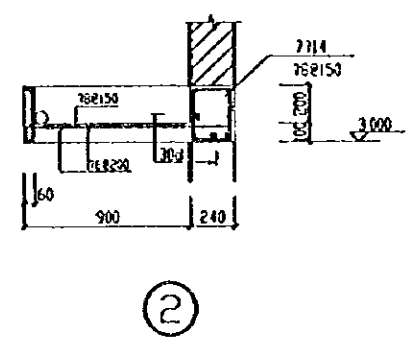
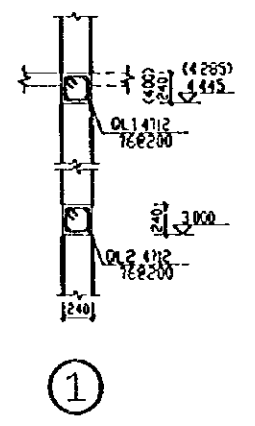
J-1 1:30



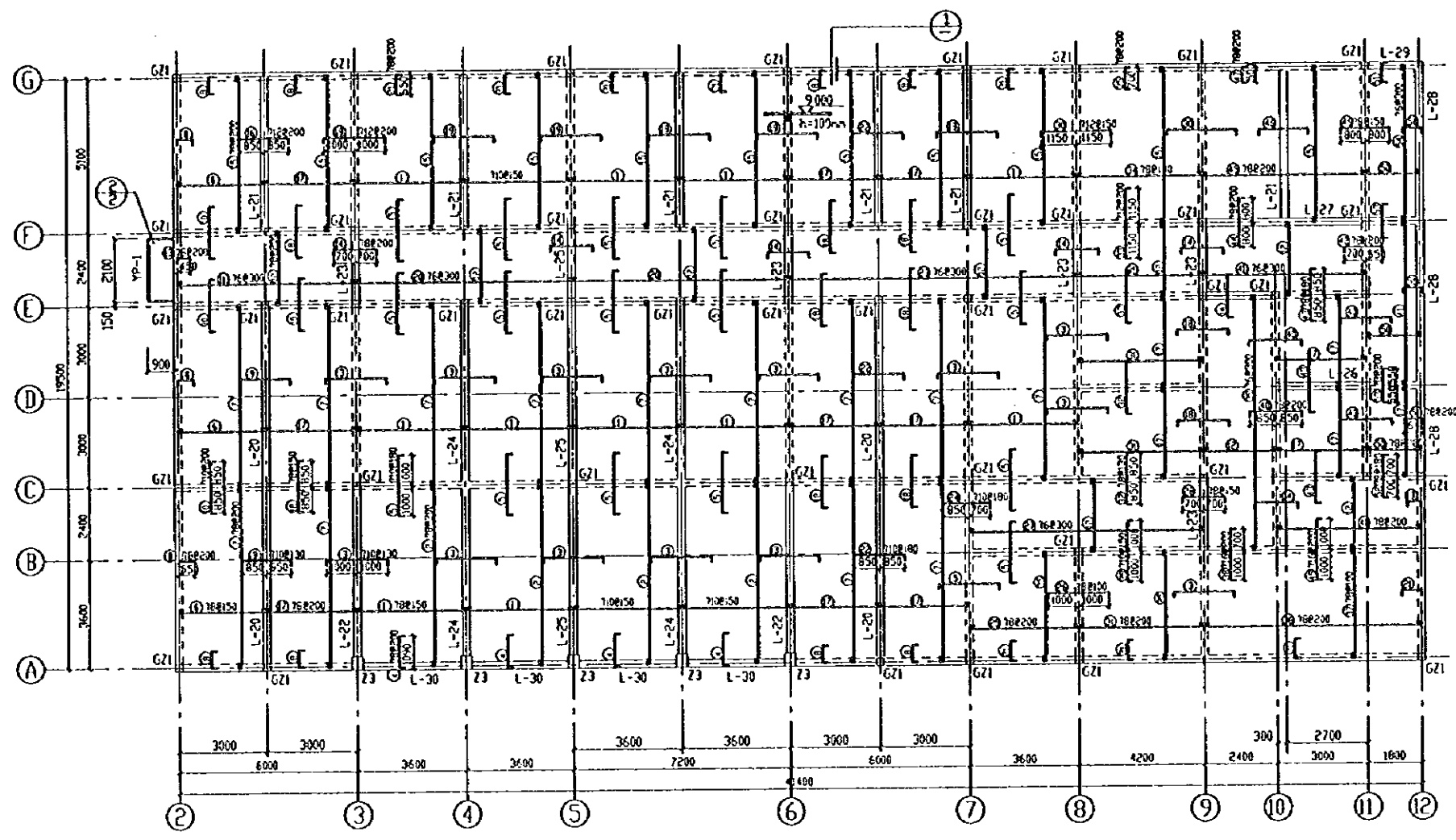
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MANAFI SUBSTATION	
FOUNDATION PLAN	
SCALE	DWG2-S1
JAPAN INTERNATIONAL COOPERATION AGENCY	



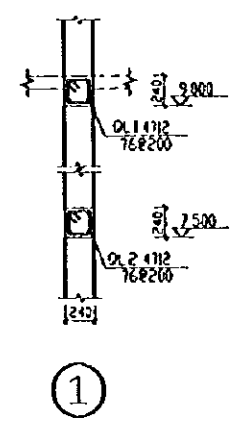
2ND FLOOR REINFORCEMENT PLAN



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN A/F SUBSTATION	
2ND FLOOR REINFORCEMENT PLAN	
SCALE	DWG-2-S2
JAPAN INTERNATIONAL COOPERATION AGENCY	

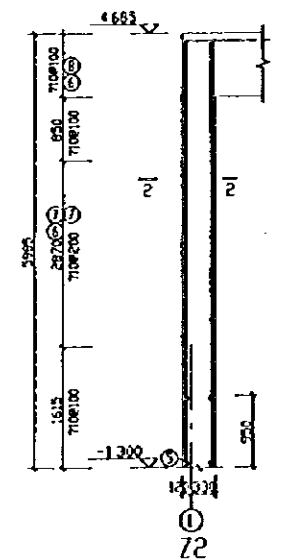
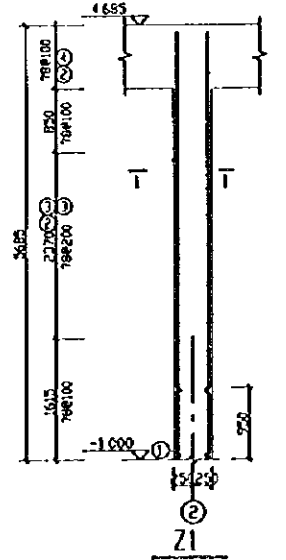
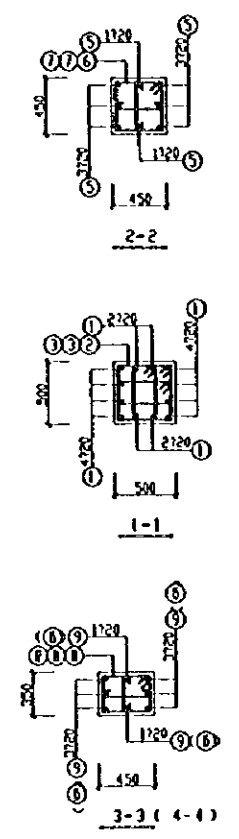
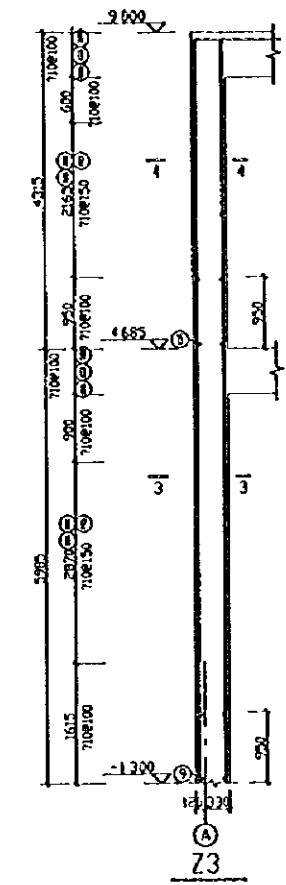


ROOF REINFORCEMENT PLAN

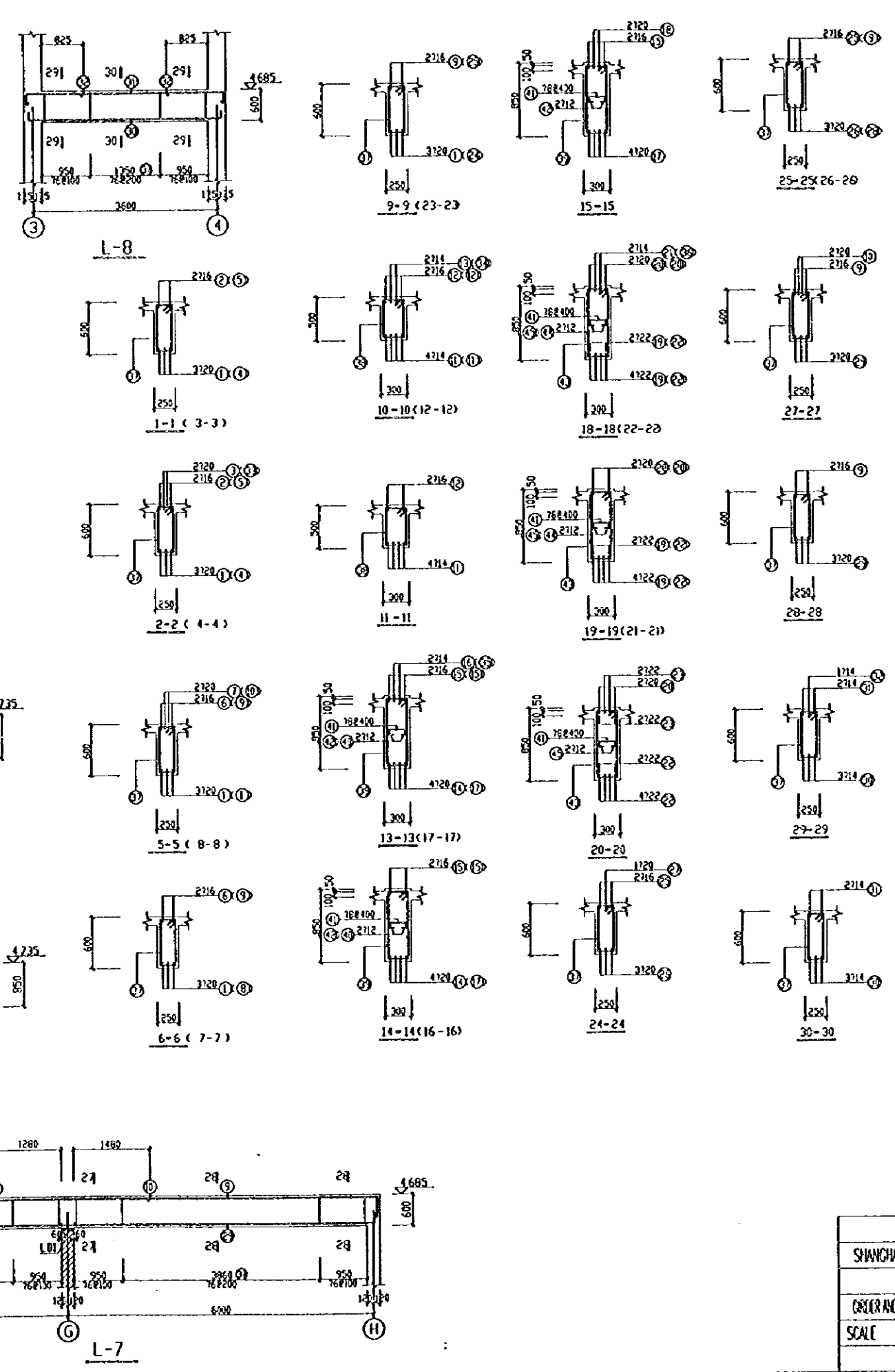
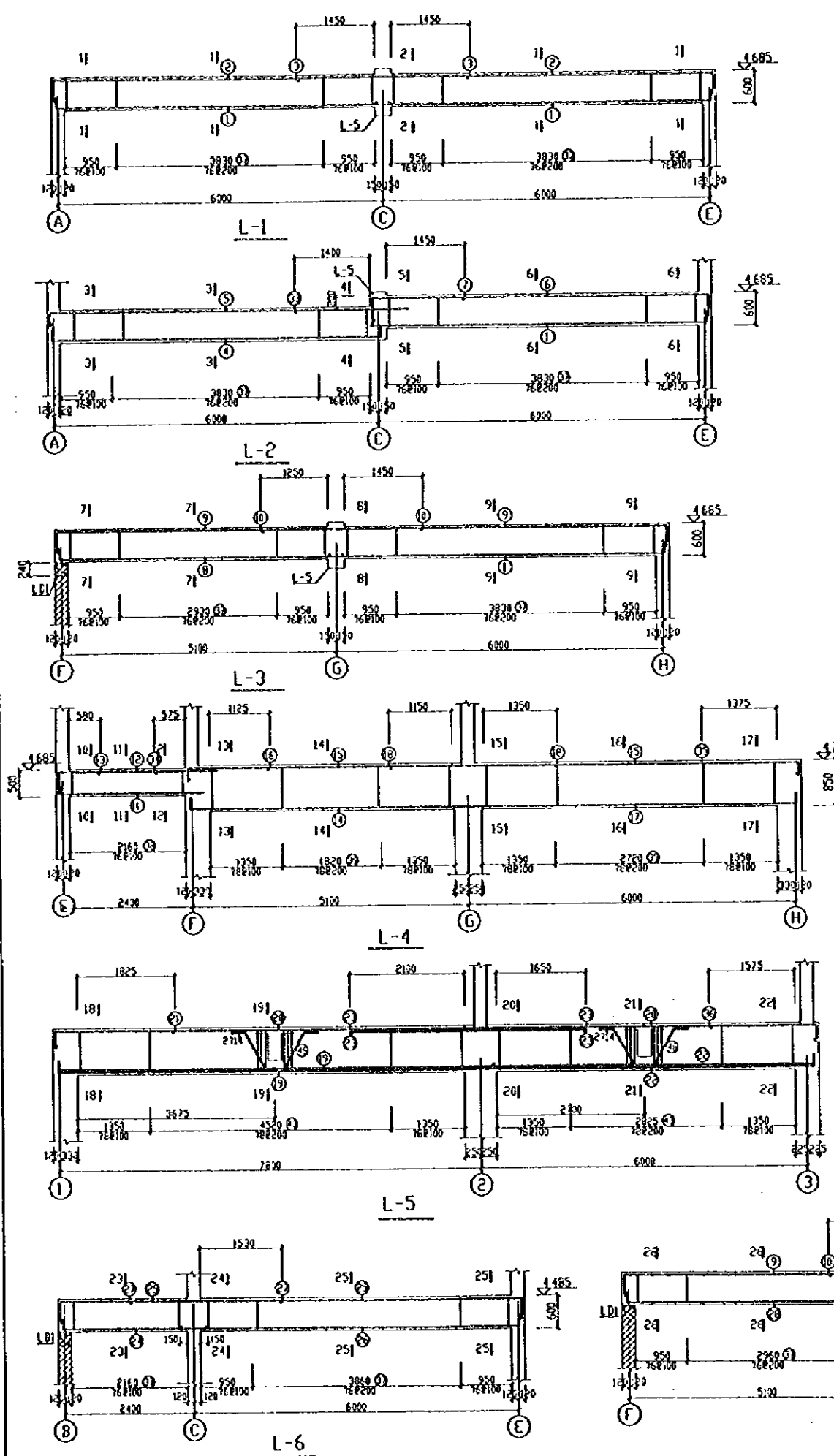


Column Reinforcing Steel Table

No.	Steel Sketch	Specifier	Length	Number	Weight
①	5955	120	5955	12	
②	450	70	2640	54	
③	450	70	1490	90	
④	450	70	550	36	
⑤	5955	120	6755	8	
⑥	400	710	1840	54	
⑦	400	710	526	90	
⑧	400	710	526	36	
⑨	6935	120	6935	8	
⑩	400	710	1640	54	
⑪	400	710	526	90	
⑫	400	710	426	36	
⑬	400	710	426	36	
⑭	400	710	526	90	
⑮	4265	120	5085	8	



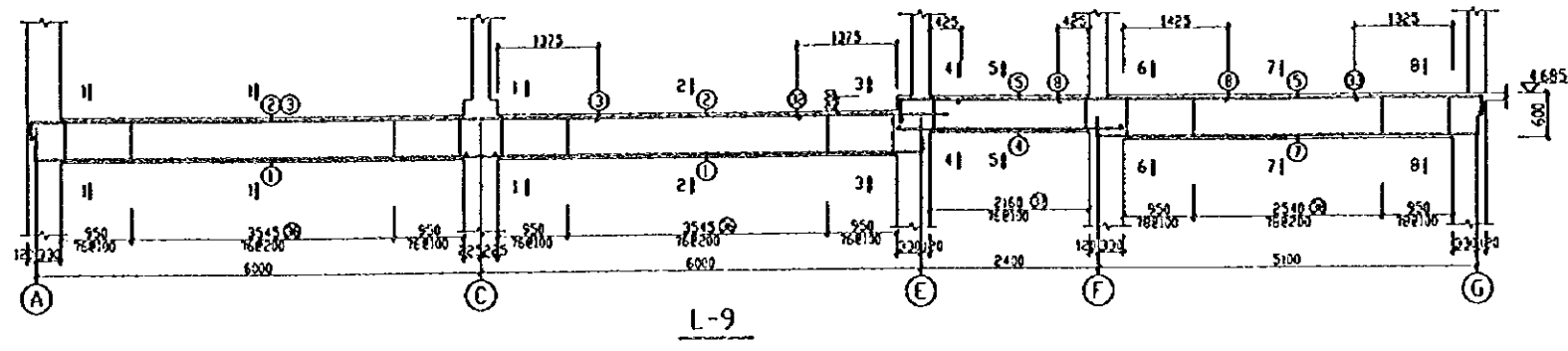
PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997
 WAN AF1 SUBSTATION
 ROOF REINFORCEMENT PLAN
 SCALE: 1:200 | DWG2-S3
 JAPAN INTERNATIONAL COOPERATION AGENCY



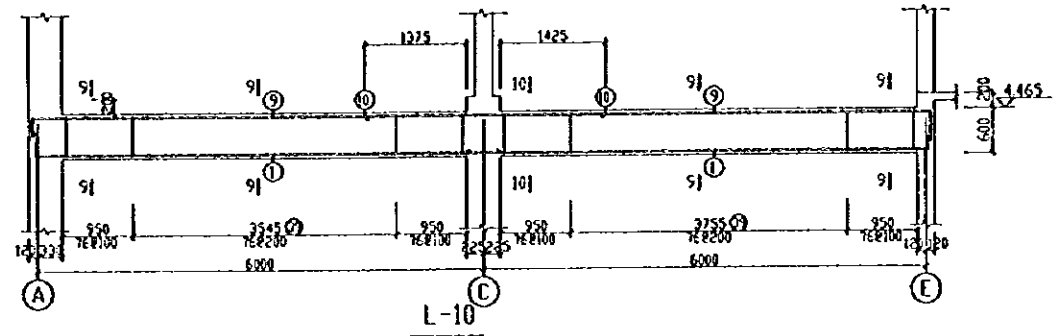
Beam Reinforcing Steel Table

No.	Steel Sketch	Specification	Length	Number	Weight	
1	[Sketch]	6200	120	6400	12	189
2	[Sketch]	12180	116	13060	2	41
3	[Sketch]	3030	120	3200	2	16
4	[Sketch]	6120	120	6530	3	48
5	[Sketch]	6540	116	6780	2	21
6	[Sketch]	6210	116	7130	2	23
7	[Sketch]	1720	120	2150	2	11
8	[Sketch]	5320	120	5500	3	41
9	[Sketch]	11280	116	12160	4	77
10	[Sketch]	3000	120	3000	4	30
11	[Sketch]	2710	114	2850	4	14
12	[Sketch]	2970	116	3360	2	11
13	[Sketch]	790	114	1180	2	3
14	[Sketch]	3780	120	5580	4	55
15	[Sketch]	11280	116	11820	2	37
16	[Sketch]	1540	114	1780	2	4
17	[Sketch]	6280	120	6480	4	64
18	[Sketch]	3100	120	3100	2	15
19	[Sketch]	9100	122	8320	6	149
20	[Sketch]	14080	120	14710	2	73
21	[Sketch]	2240	114	2540	2	6
22	[Sketch]	6410	122	6630	6	119
23	[Sketch]	4350	122	4390	4	52
24	[Sketch]	2710	120	2910	3	22
25	[Sketch]	8580	116	9460	2	30
26	[Sketch]	6310	120	6510	3	48
27	[Sketch]	2850	120	2850	1	7
28	[Sketch]	5330	120	5530	3	41
29	[Sketch]	6230	120	6430	3	48
30	[Sketch]	3810	114	4090	3	13
31	[Sketch]	3930	114	4310	2	10
32	[Sketch]	1140	114	1330	2	3
33	[Sketch]	2100	120	2100	2	10
34	[Sketch]	1230	114	1230	2	3
35	[Sketch]	1790	114	2030	2	5
36	[Sketch]	1970	114	2290	2	6
37	[Sketch]	350	76	1740	375	145
38	[Sketch]	450	76	1640	21	8
39	[Sketch]	85	78	2340	25	69
40	[Sketch]	4830	112	4830	2	9
41	[Sketch]	250	78	350	58	8
42	[Sketch]	5730	112	5730	2	18
43	[Sketch]	125	78	2290	97	88
44	[Sketch]	7530	112	7530	2	13
45	[Sketch]	5830	112	5830	2	18
46	[Sketch]	2830	114	2690	4	13

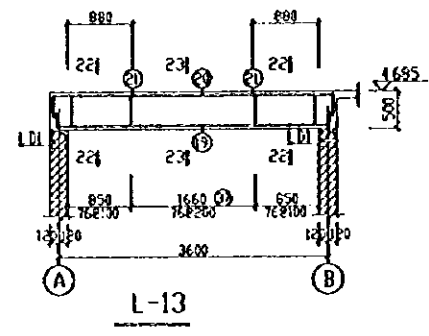
PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997
 MAIN AFL SUBSTATION
 ORDER AND BEAM REINFORCEMENT DETAILS (I) AND BEAM REINFORCEMENT STEEL TABLE
 SCALE: NON SCALE | DWG2-S4
 JAPAN INTERNATIONAL COOPERATION AGENCY



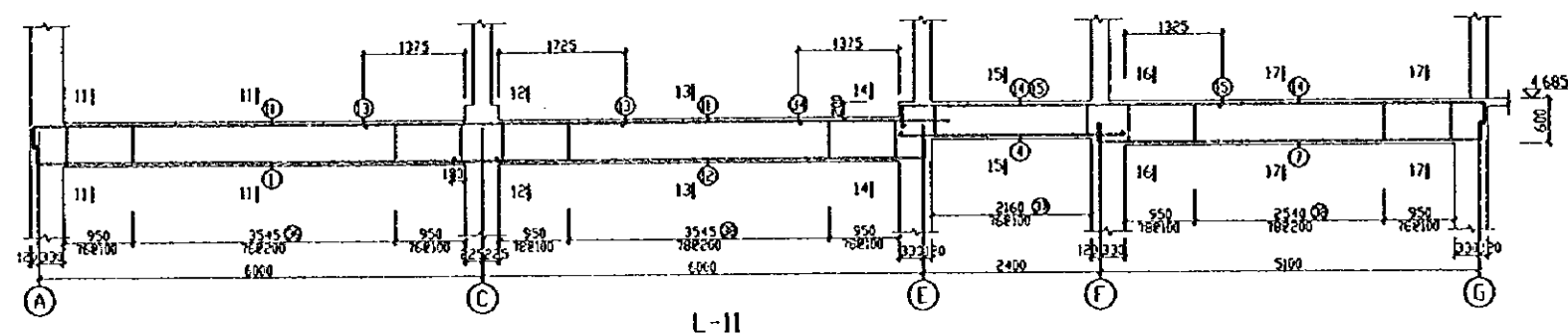
L-9



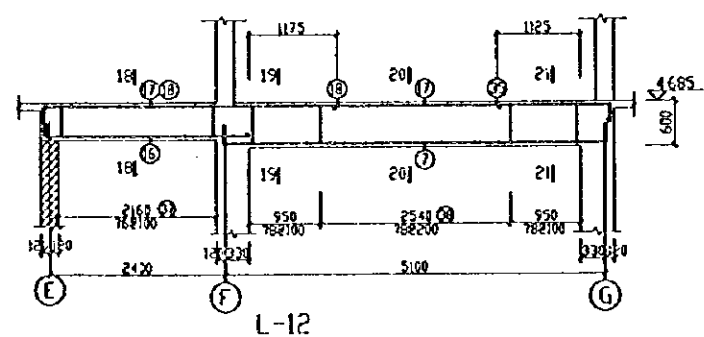
L-10



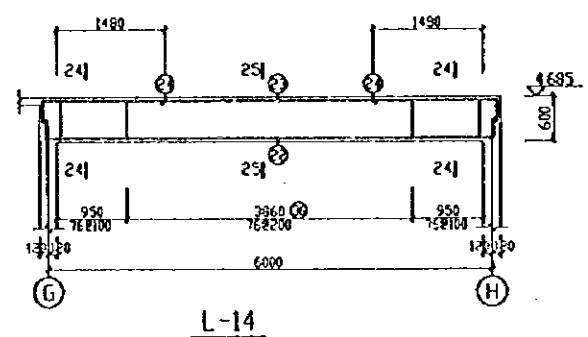
L-13



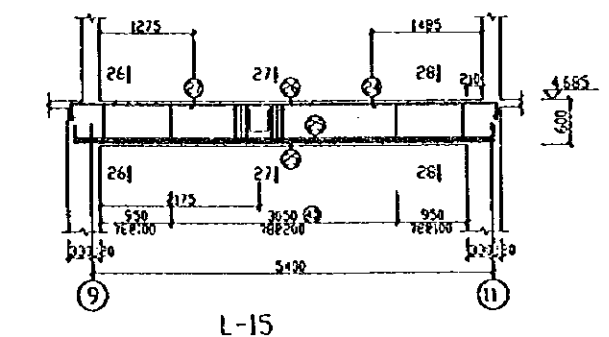
L-11



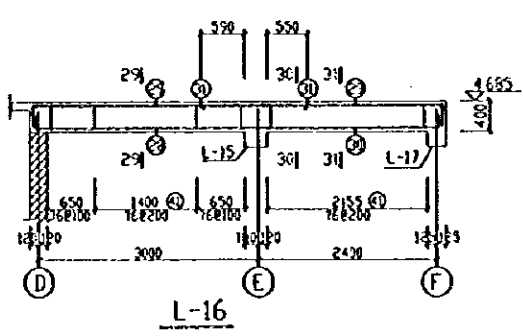
L-12



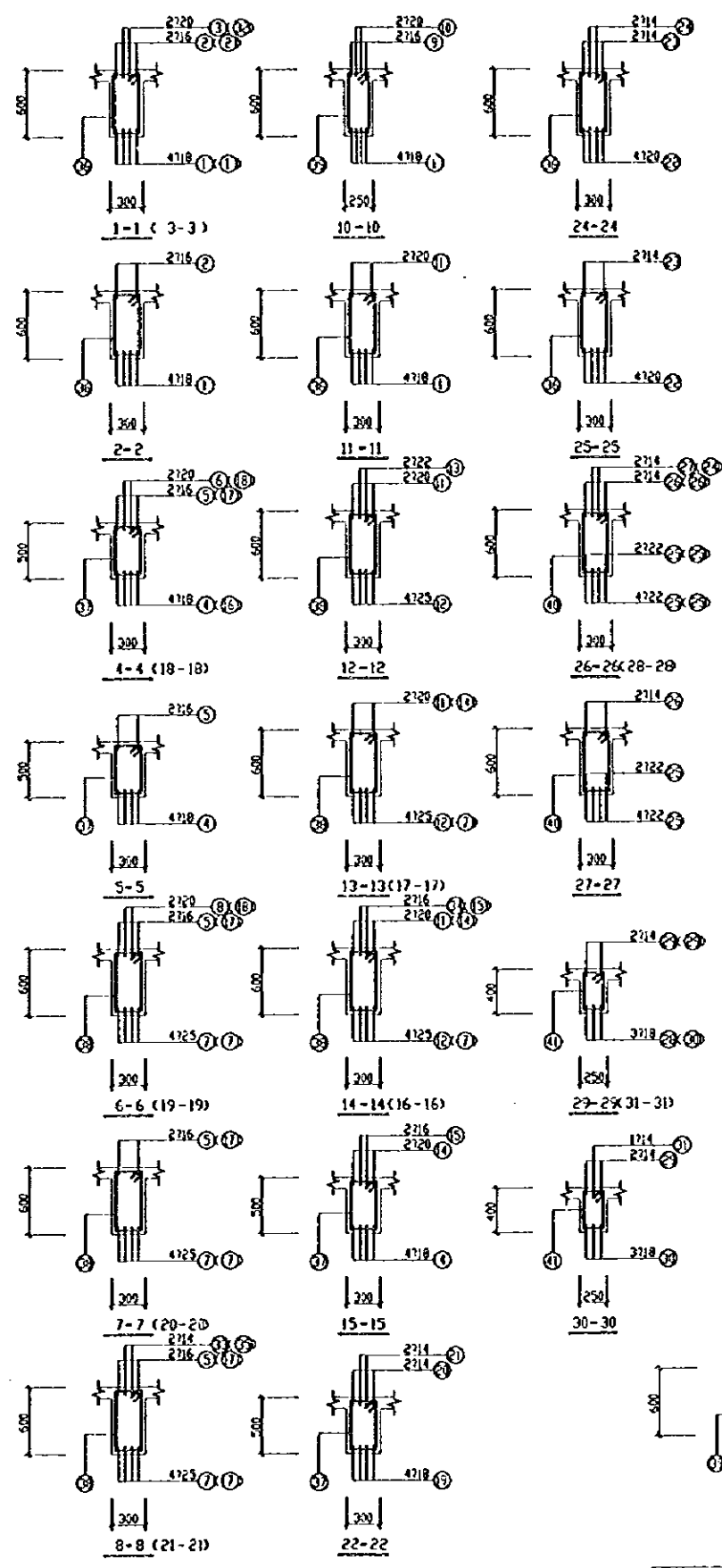
L-14



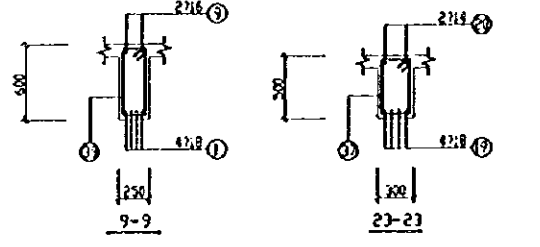
L-15



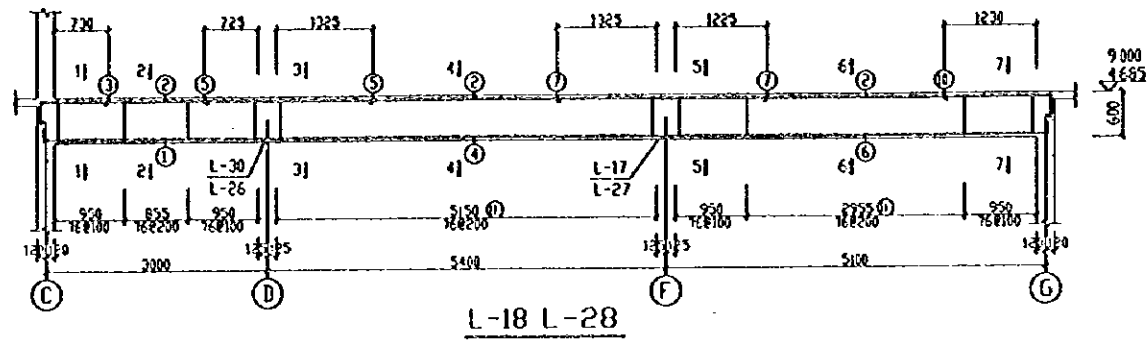
L-16



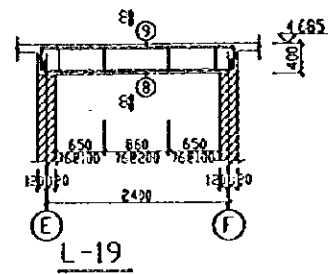
No.	Steel Batch	Specification	Length	Number	Weight
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2	12460	716	12700	2	40
3	7670	120	7916	2	39
4	3060	718	3060	8	49
5	7880	716	8400	2	27
6	840	120	1143	2	6
7	5200	125	5700	12	264
8	2300	120	2300	2	11
9	12180	716	12910	2	41
10	3250	120	3250	2	16
11	12550	120	12860	2	63
12	6450	125	6700	4	103
13	3550	122	3550	2	21
14	7880	120	8490	2	42
15	4140	716	4640	2	15
16	2780	718	2960	4	24
17	7670	716	8360	2	26
18	3990	120	4380	2	22
19	3700	718	4060	4	32
20	3780	714	4360	2	11
21	1090	714	1380	4	7
22	6100	120	6500	4	64
23	6180	714	6760	2	16
24	1690	714	1980	6	14
25	5710	122	6150	6	110
26	5790	714	6250	2	15
27	1690	714	1900	2	5
28	3140	718	3320	3	20
29	5500	714	6150	2	15
30	2600	718	2780	3	17
31	1440	714	1440	1	2
32	2090	720	2090	2	10
33	1740	714	1980	2	5
34	2090	716	2090	2	7
35	1540	714	1780	2	4
36	358	76	1840	146	60
37	408	76	1640	88	32
38	558	78	1840	129	94
39	358	76	1740	73	28
40	328	78	1790	38	27
41	358	76	1340	30	9



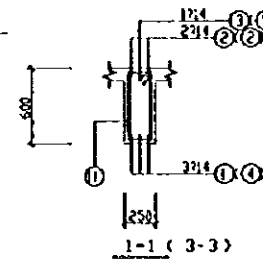
PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997
 MAIN AFL SUBSTATION
 ORDER AND BEAM REINFORCEMENT DETAILS (2) AND BEAM REINFORCEMENT STEEL TABLE
 SCALE: NON SCALE | DWG2-55
 JAPAN INTERNATIONAL COOPERATION AGENCY



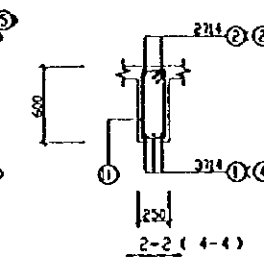
L-18 L-28



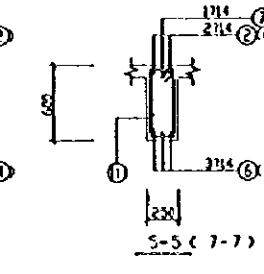
L-19



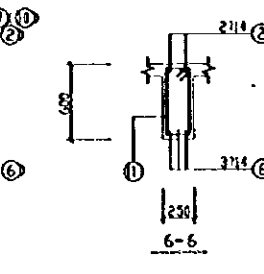
1-1 (3-3)



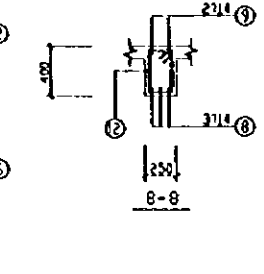
2-2 (4-4)



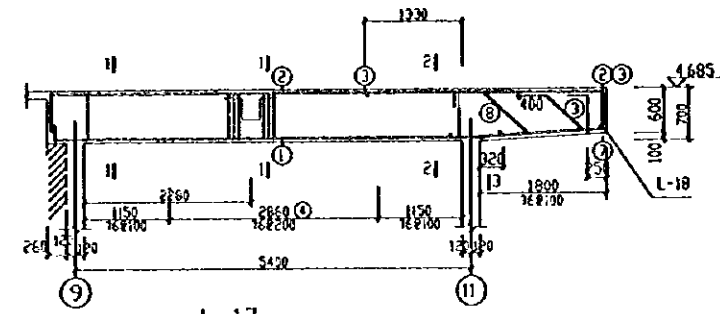
5-5 (7-7)



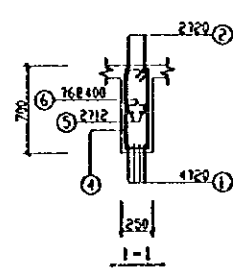
6-6



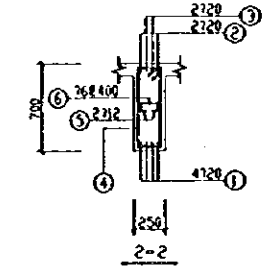
7-7



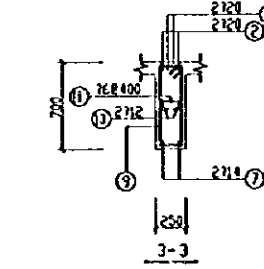
L-17



1-1



2-2



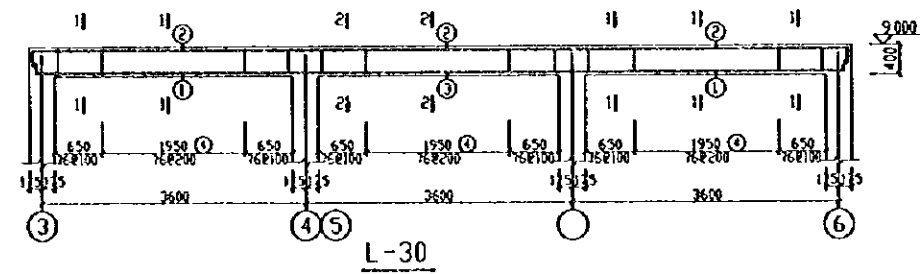
3-3

L-17 Beam Reinforcing Steel Table

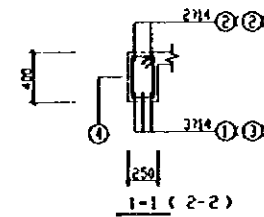
No.	Steel Batch	Specification	Length	Number	Weight
①	R	6150	320	6350	4
②	R	13680	714	14260	
③	R	7643	320	8780	2
④	R	3340	320		2
⑤	R	5520	76	1892	47
⑥	R	5520	712	5520	2
⑦	R	200	76	276	13
⑧	R	2220	714	2220	2
⑨	R	1100	718	1889	1
⑩	R	674	76	1820	17
⑪	R	2040	712	2040	2
⑫	R	200	76	276	5

L-18L-19L-28 Beam Reinforcing Steel Table

No.	Steel Batch	Specification	Length	Number	Weight
①	R	3130	714	3270	
②	R	13680	714	14260	
③	R	943	714	1230	
④	R	5520	714	5520	
⑤	R	2300	714	2300	
⑥	R	5230	714	5370	
⑦	R	2300	714	2060	
⑧	R	2500	714	2780	
⑨	R	2580	714	3160	
⑩	R	1440	714	1730	
⑪	R	330	76	1740	
⑫	R	200	76	1340	



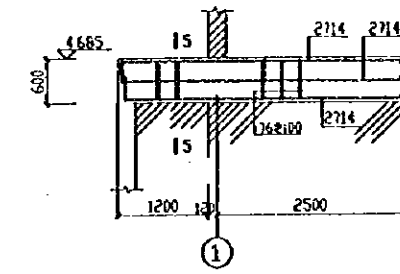
L-30



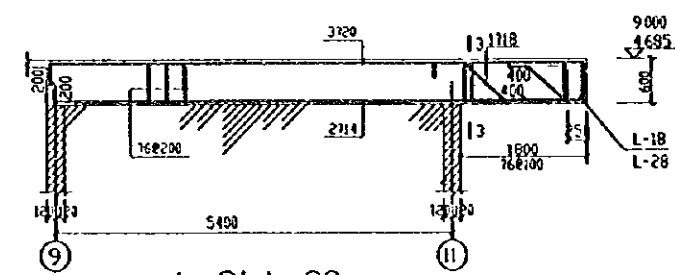
1-1 (2-2)

L-30 Beam Reinforcing Steel Table

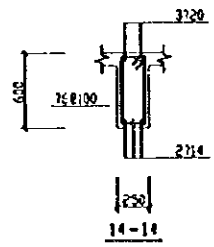
No.	Steel Batch	Specification	Length	Number	Weight
①	R	3070	714	4010	6
②	R	14680	714	15100	2
③	R	3940	714	3940	6
④	R	200	76	1340	88



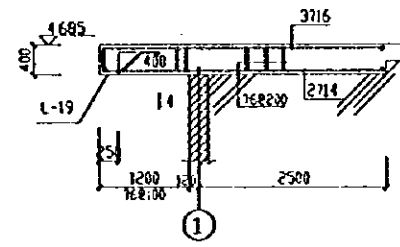
L-33



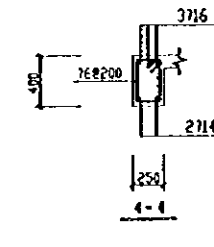
L-31 L-29



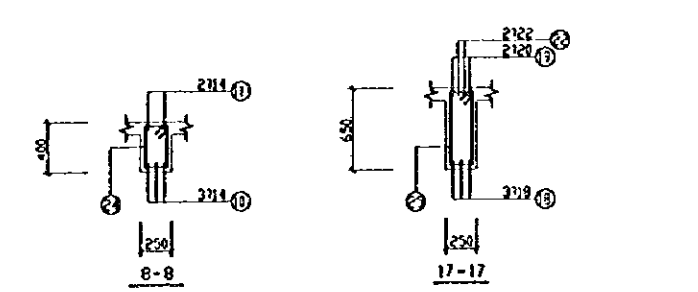
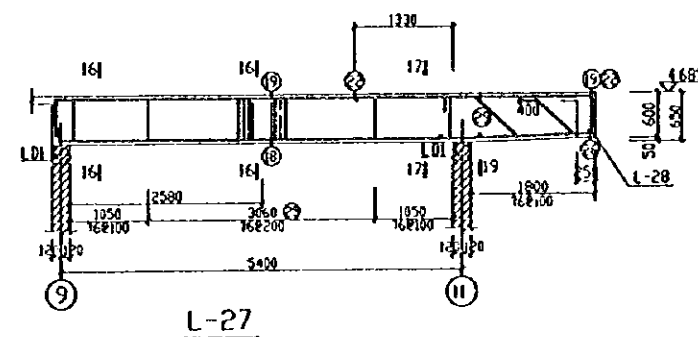
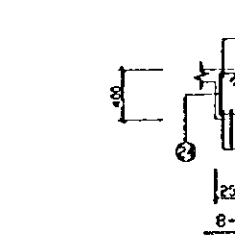
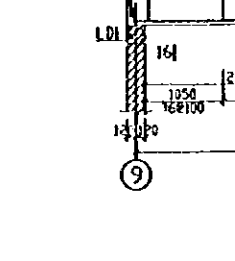
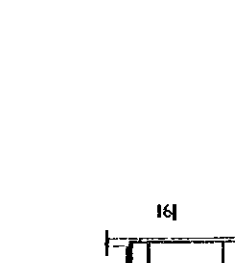
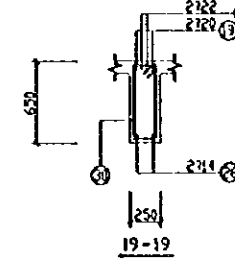
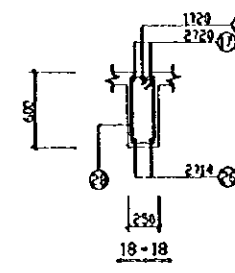
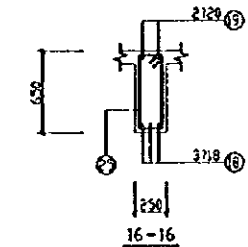
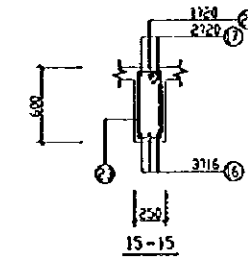
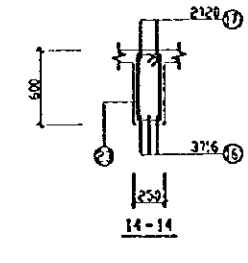
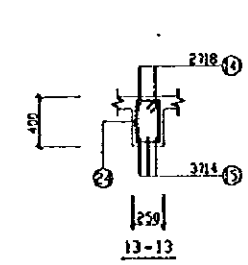
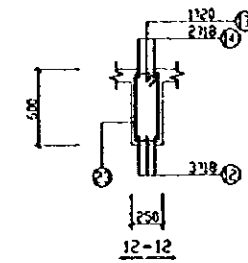
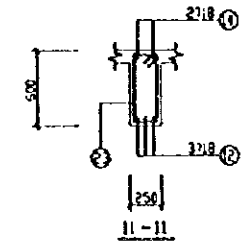
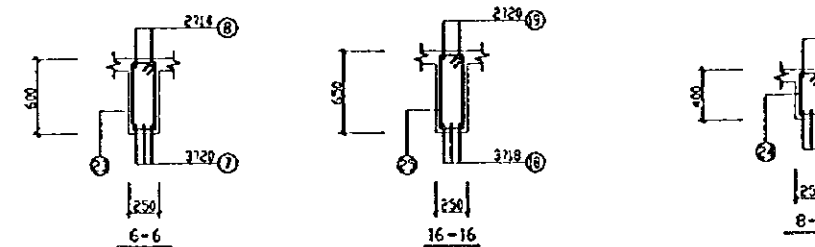
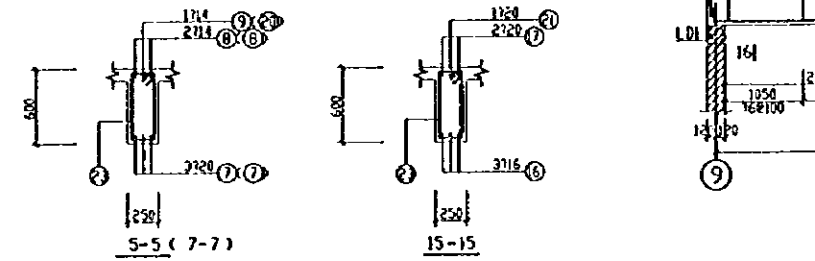
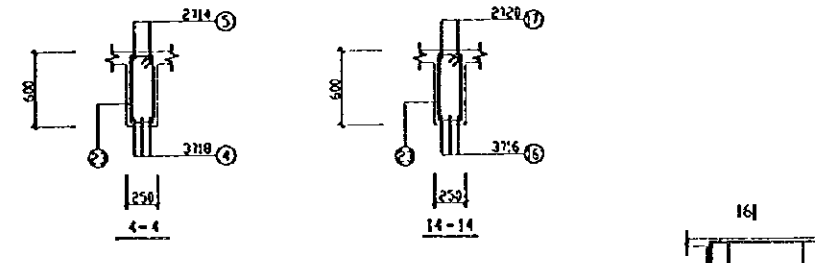
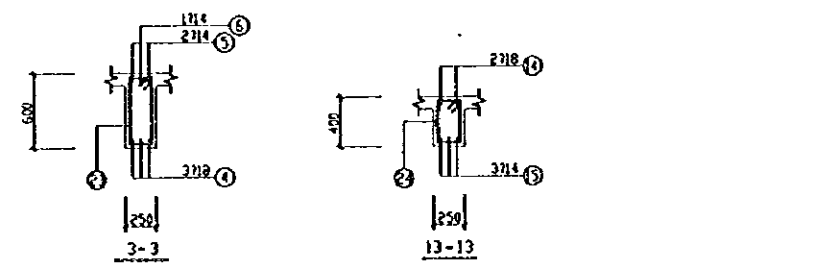
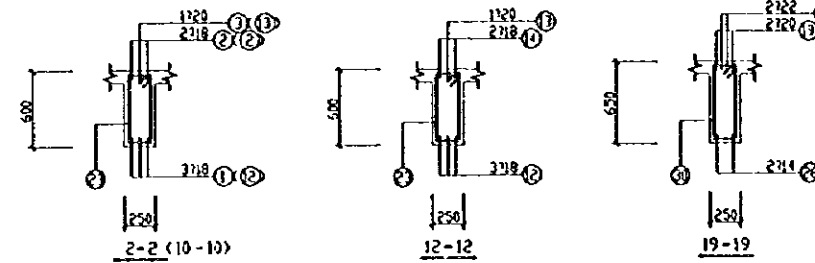
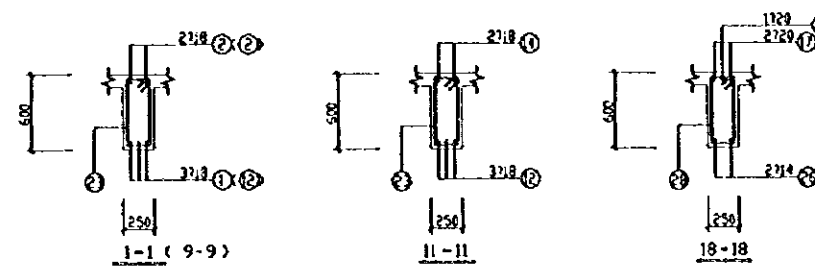
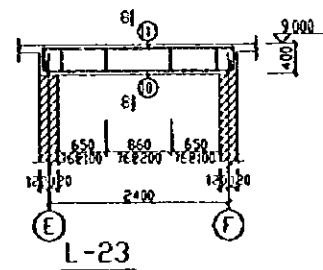
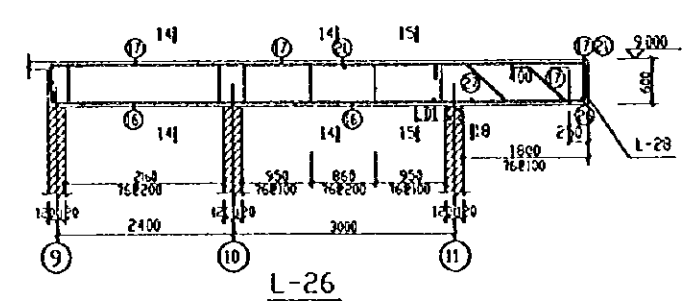
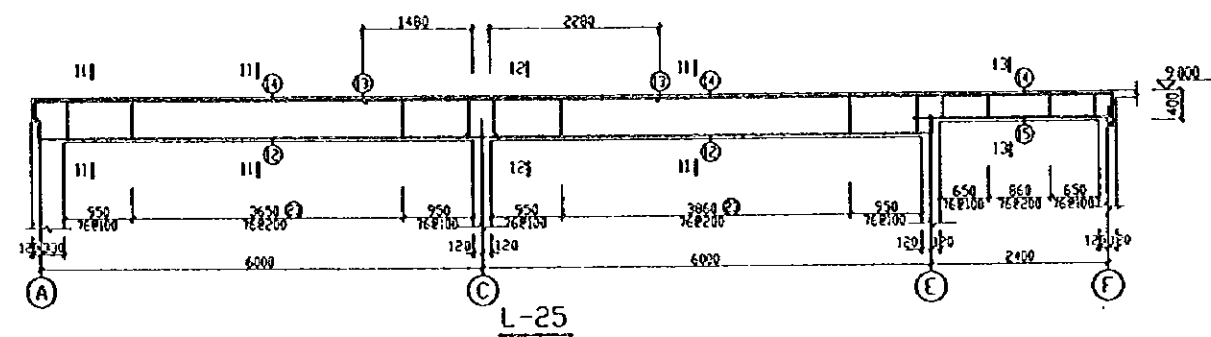
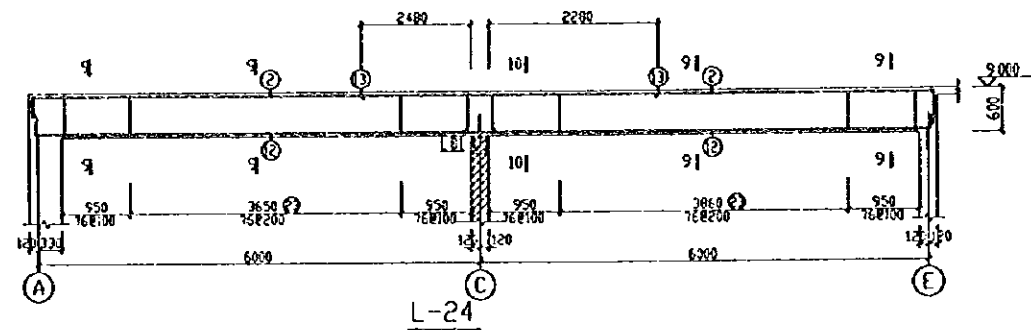
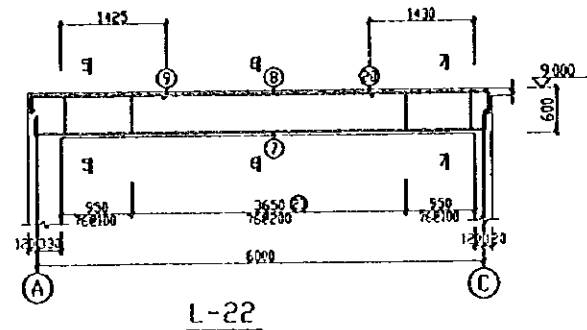
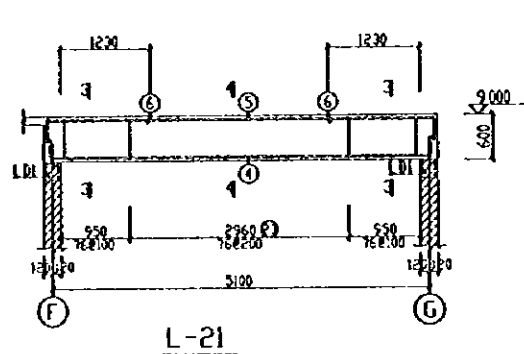
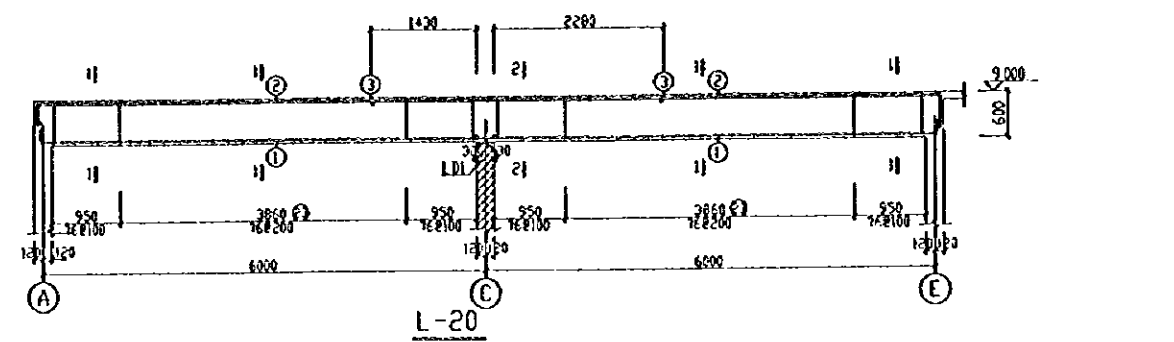
1-1



L-32



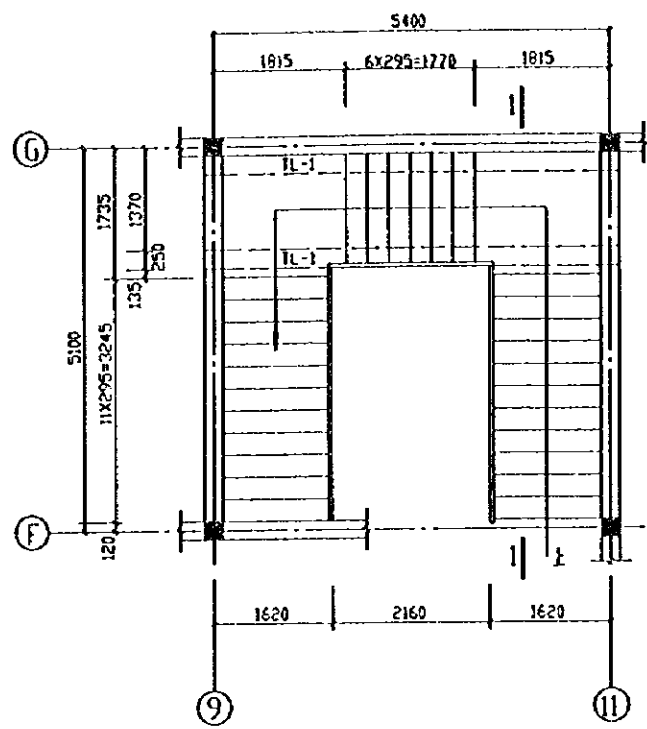
4-4



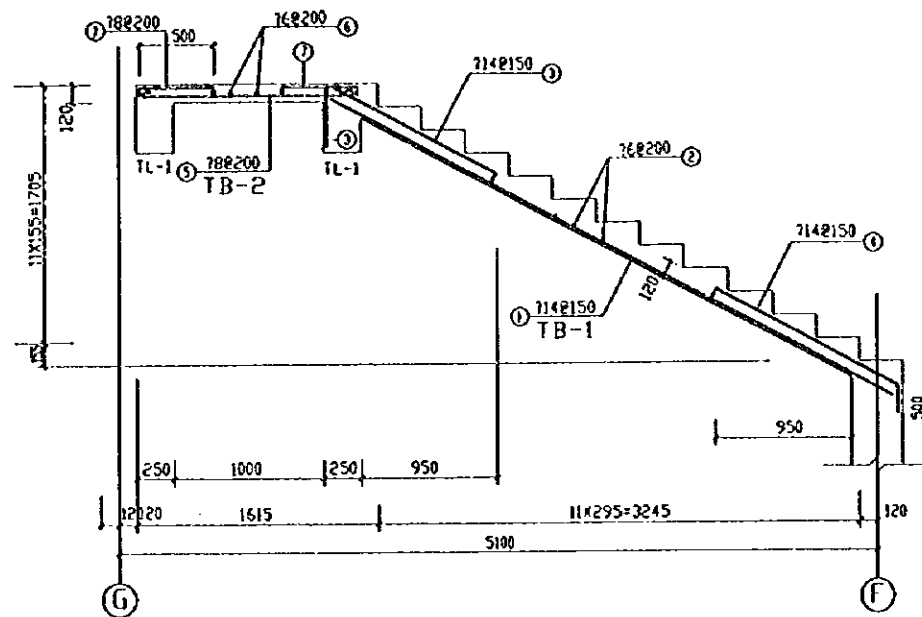
Beam Reinforcing Steel Table

No	Steel Sketch	Specification	Length	Number	Weight
1	[Sketch]	6200	718	6303	6.76
2	[Sketch]	12180	718	12943	4.103
3	[Sketch]	3550	720	3950	1.10
4	[Sketch]	5200	718	5560	2.23
5	[Sketch]	5200	714	5860	2.34
6	[Sketch]	1440	714	1730	2.4
7	[Sketch]	6120	720	6500	3.48
8	[Sketch]	6180	714	6660	2.16
9	[Sketch]	1840	714	2050	1.2
10	[Sketch]	2500	714	2780	3.19
11	[Sketch]	2500	714	3.58	2.8
12	[Sketch]	6270	718	6450	12.155
13	[Sketch]	4900	720	4300	2.20
14	[Sketch]	14370	718	15200	2.61
15	[Sketch]	2710	714	2950	3.10
16	[Sketch]	5830	716	5990	3.16
17	[Sketch]	7380	720	2	2.29
18	[Sketch]	5860	718	6040	3.35
19	[Sketch]	7380	720	2	4.1
20	[Sketch]	1640	714	1920	1.2
21	[Sketch]	3390	720	3940	1.9
22	[Sketch]	3340	722	3940	2.23
23	[Sketch]	350	76	1740	31.3
24	[Sketch]	250	76	1340	31.10
25	[Sketch]	575	76	1750	40.16
26	[Sketch]	2220	714	2220	4.9
27	[Sketch]	170	718	1747	1.3
28	[Sketch]	530	76	1620	17.6
29	[Sketch]	600	76	1720	17.6

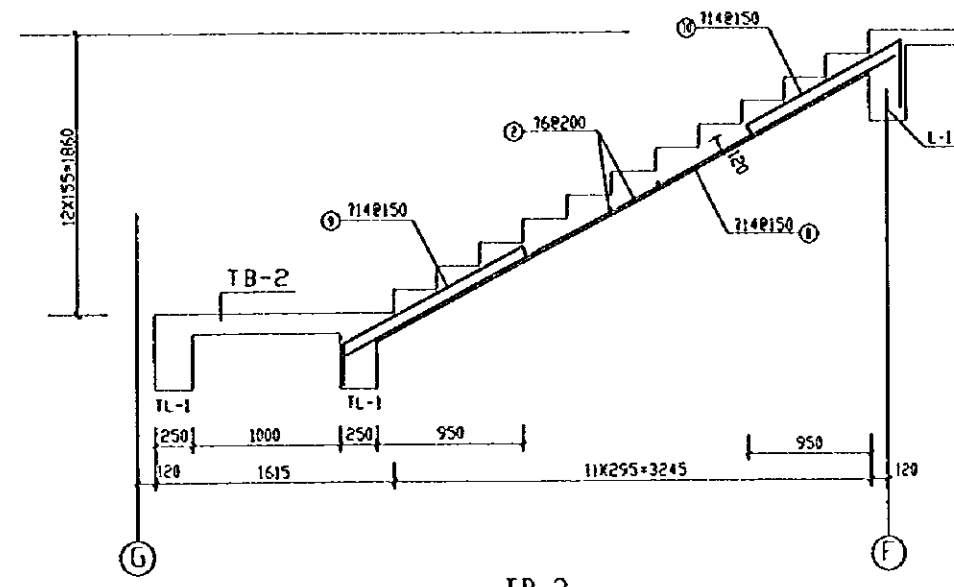
PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997
 MAIN AFL SUBSTATION
 ORDER AND BEAM REINFORCEMENT DETAILS (4) AND BEAM REINFORCEMENT STEEL TABLE
 SCALE: NON SCALE | DWG-57
 JAPAN INTERNATIONAL COOPERATION AGENCY



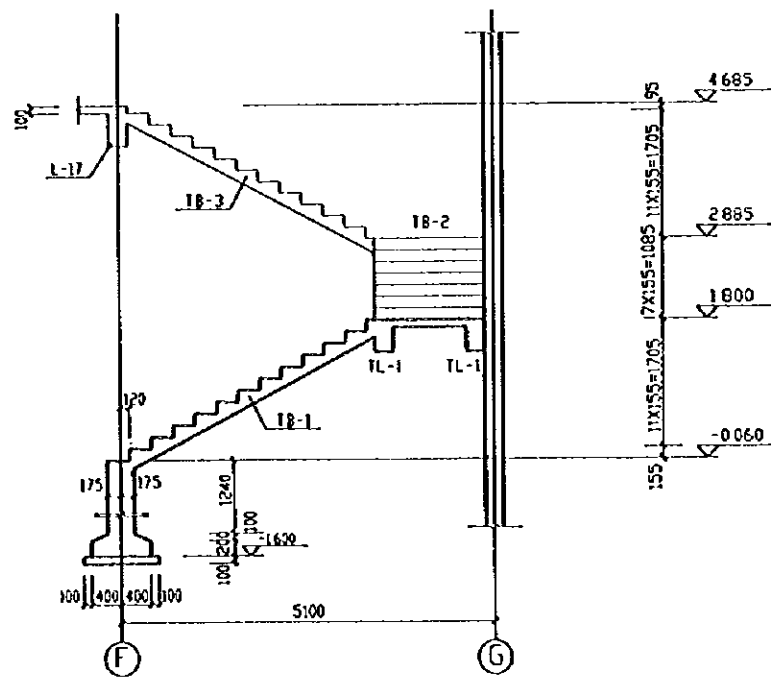
NO1 STAIR PLAN 1:50



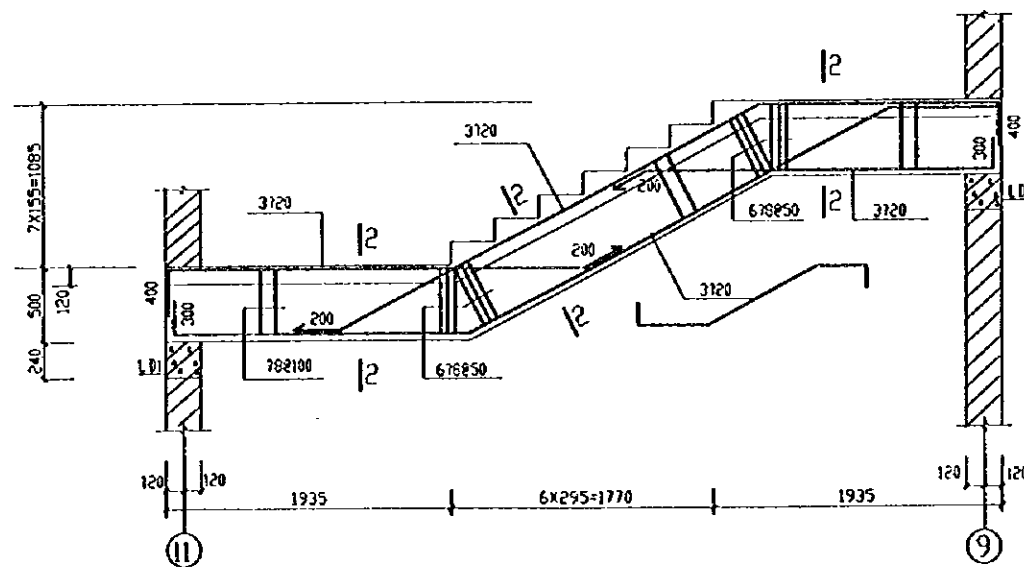
TB-1 TB-2 1:25



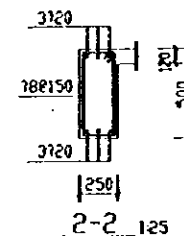
TB-3 1:25



1-1 1:50

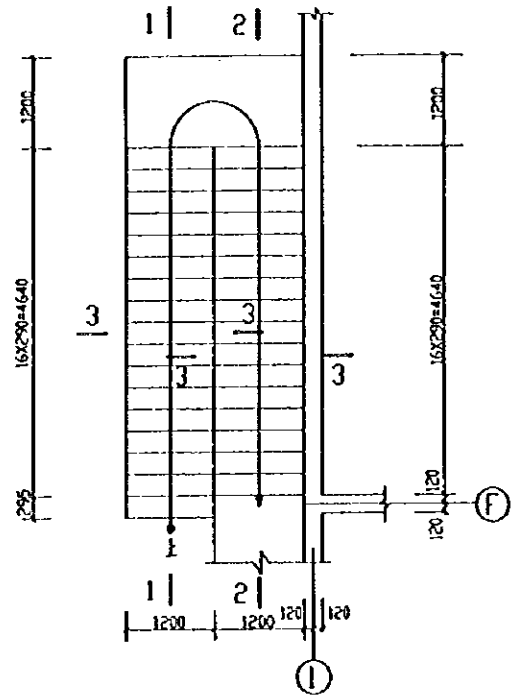


TL-1 1:25

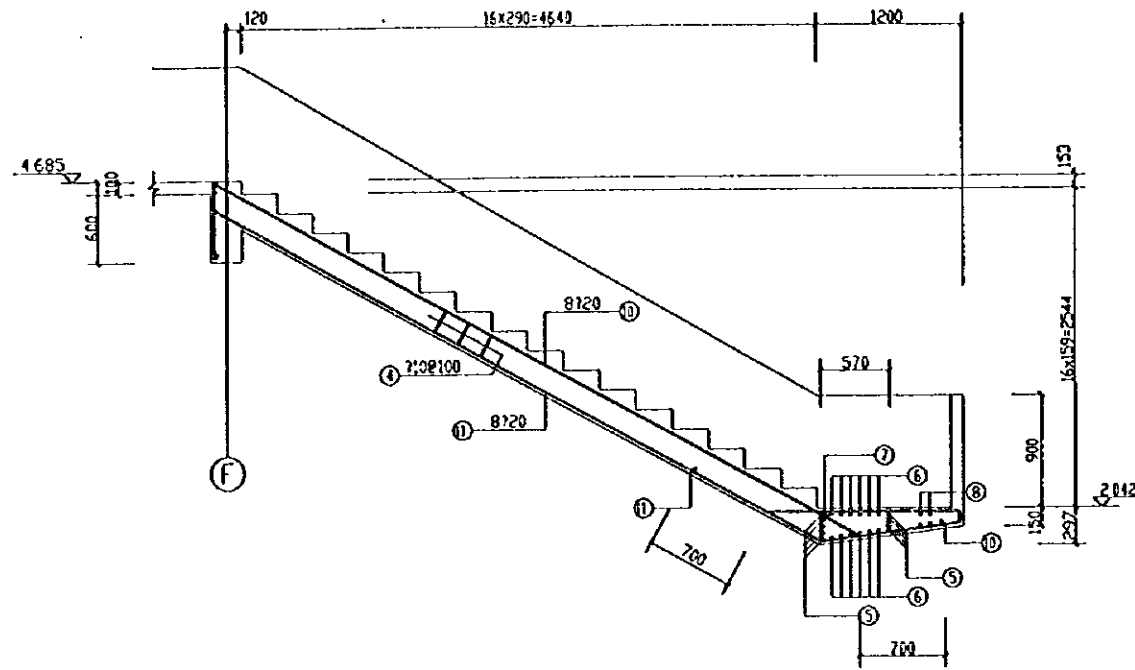


2-2 1:25

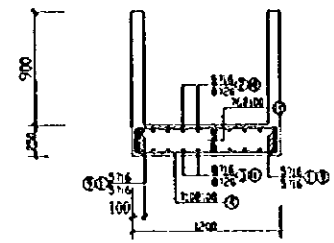
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WANFANG SUBSTATION	
STAIR REINFORCEMENT DETAILS(1)	
SCALE	NON SCALE DWG2-S8
JAPAN INTERNATIONAL COOPERATION AGENCY	



NO2 STAIR PLAN 1:50



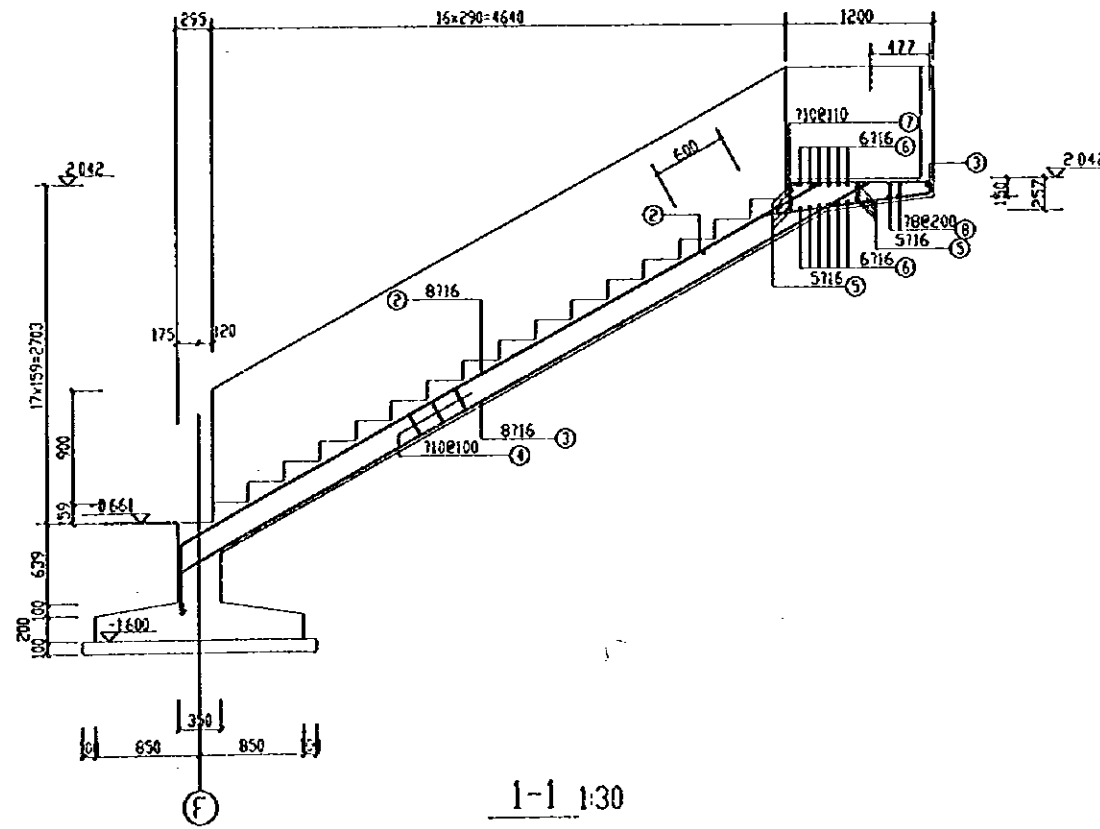
2-2 1:30



3-3

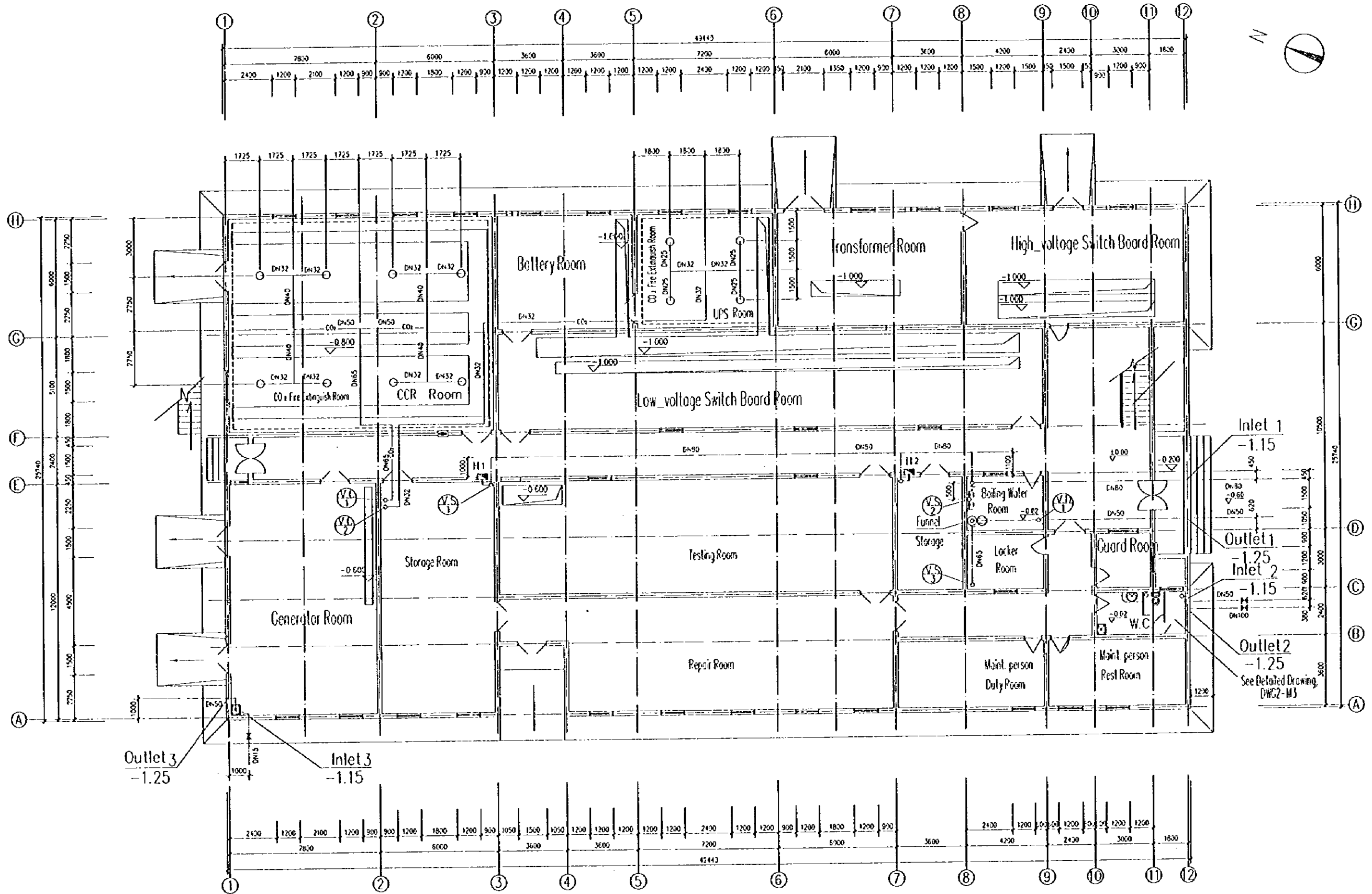
Stair Reinforcing Steel Table

No.	Steel Mark	Specification	Length	Number	Qty. (t)
①		116	7130	5	56
②		116	6990	8	114
③		116	7670	8	97
④		110	2780	118	202
⑤		116	2340	5	18
⑥		116	2340	6	22
⑦		110	1750	21	23
⑧		110	2340	5	5
⑨		116	7140	5	56
⑩		120	7240	8	143
⑪		120	9960	8	197
⑫		116	300	118	8



1-1 1:30

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WANG FUL SUBSTATION	
STAIR REINFORCEMENT DETAILS (2)	
SCALE	NON SCALE
DWG2-59	
JAPAN INTERNATIONAL COOPERATION AGENCY	

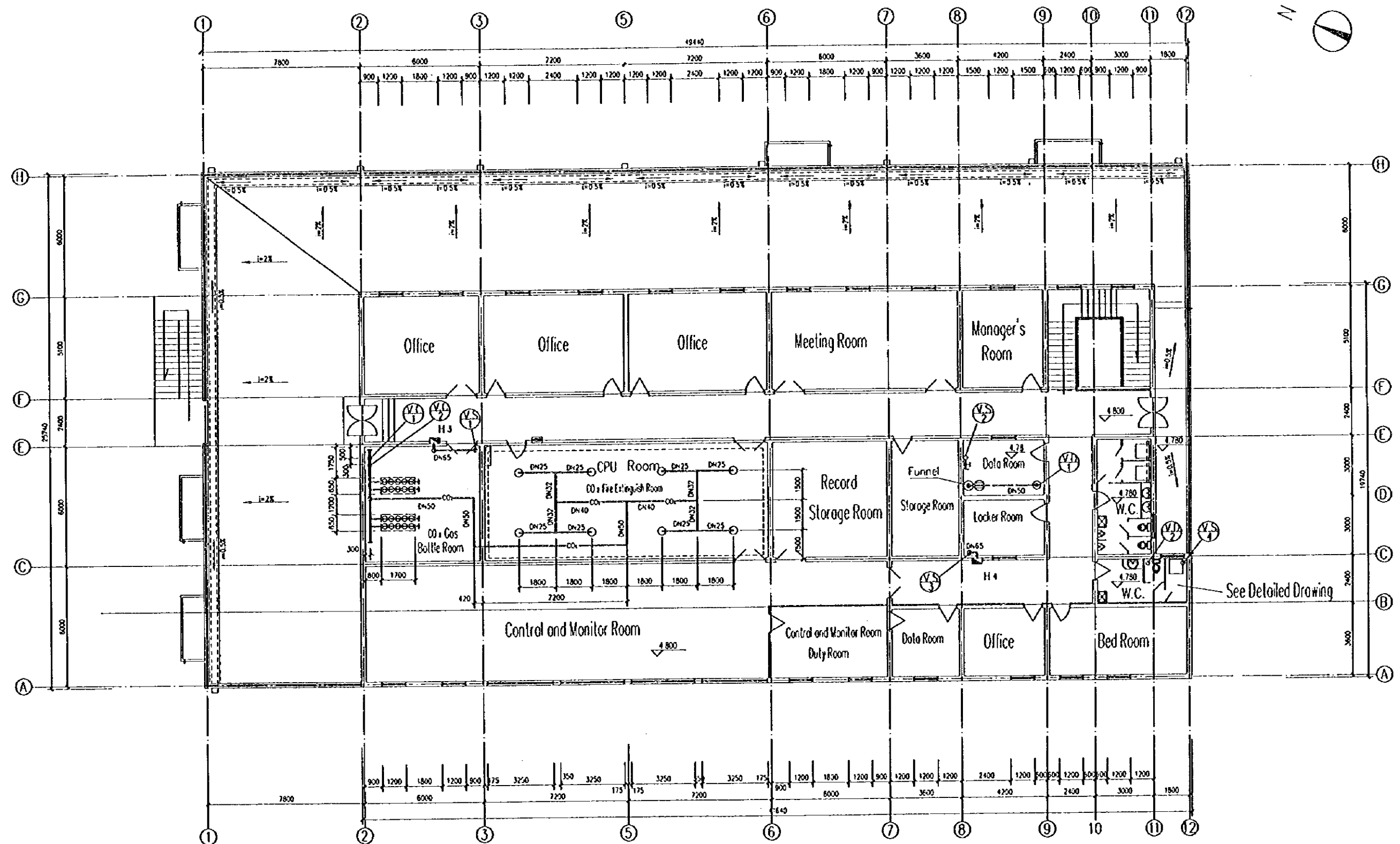


Legend :

- | | | | |
|---------------------|---------------|-----------------------|---|
| — Water Supply Pipe | ☒ Cloze | — Metal flexible Pipe | ⊙ Cleanout |
| --- Drainage Pipe | ⊕ Water Tap | ⊕ Trap | ⊕ Flange Plug |
| --- Hot Water Pipe | ⊕ Gate Valve | ⊕ Vent cowl | ⊕ Hydrant |
| ⊕ Butterfly Valve | ⊕ Check Valve | ⊕ floor Drain | ⊕ float Valve |
| ⊕ Ball Valve | ⊕ Shower | ⊕ Checkhole | ⊕ Automatic Gas Discharge Valve |
| | | | ⊕ Vertical Water Supply Pipe Passing Through Floors |
| | | | ⊕ Vertical Drainage Pipe Passing Through Floors |

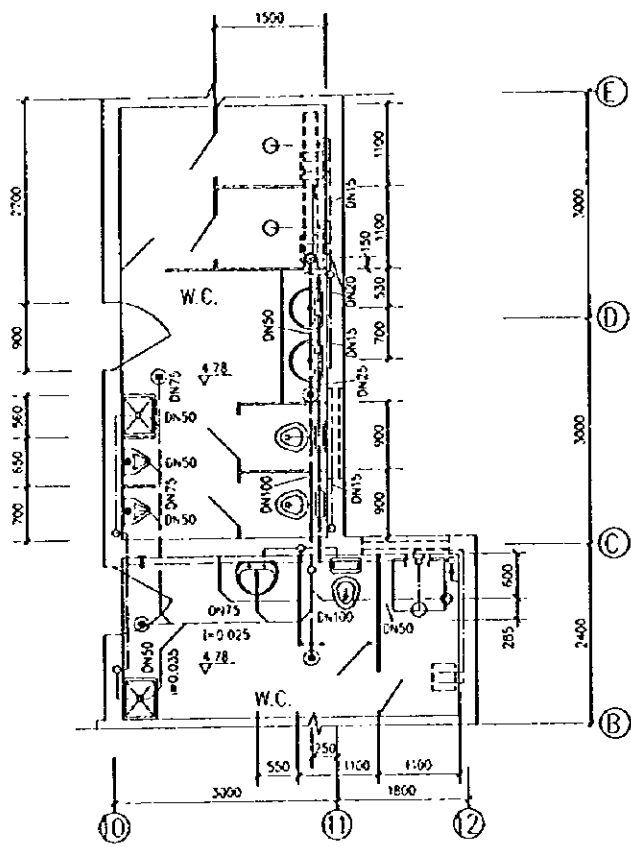
1st PLAN OF WATER SUPPLY AND DRAINAGE 1:100

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUOON INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN AIL SUBSTATION	
1ST FLOOR PLAN WATER SUPPLY, DRAINAGE AND FIRE FIGHTING SYSTEM	
SCALE	DWG2-11
JAPAN INTERNATIONAL COOPERATION AGENCY	

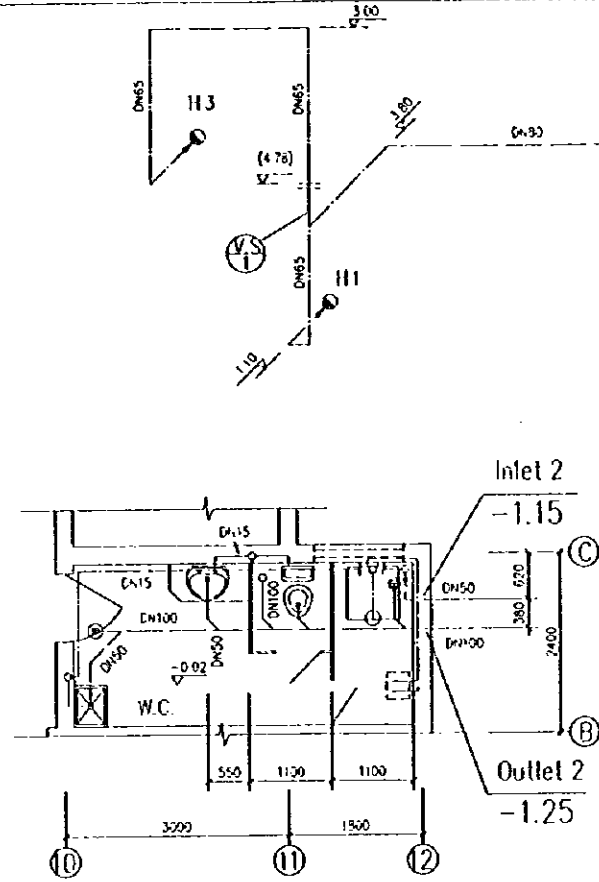


2ND FLOOR PLAN 1:100

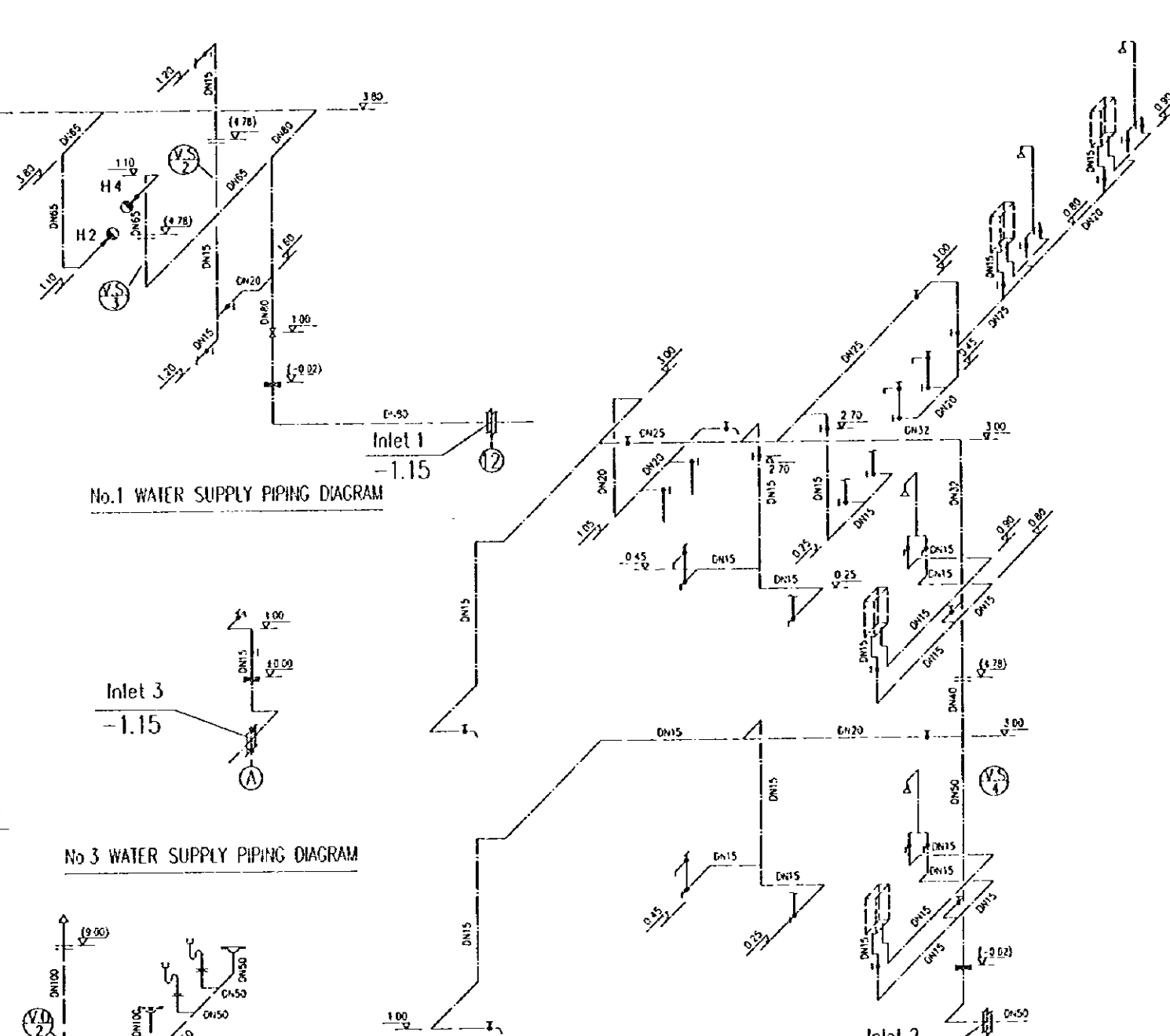
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WAN AFL SUBSTATION	
2ND FLOOR PLAN WATER SUPPLY, DRAINAGE AND FIRE FIGHTING SYSTEM	
SCALE	DWG2-W2
JAPAN INTERNATIONAL COOPERATION AGENCY	



DETAILED DRAWING OF 2ND FLOOR (1:50)



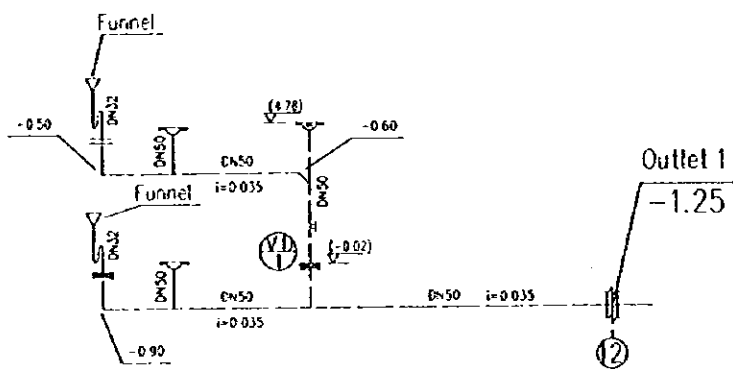
DETAILED DRAWING OF 1ST FLOOR (1:50)



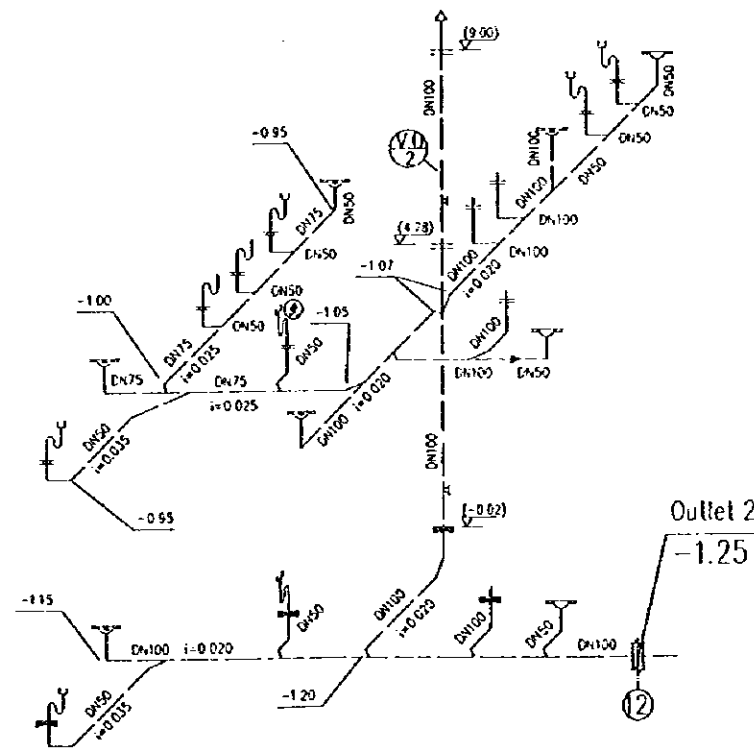
No.1 WATER SUPPLY PIPING DIAGRAM

No.3 WATER SUPPLY PIPING DIAGRAM

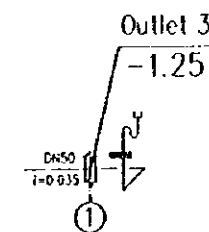
No.2 WATER SUPPLY PIPING DIAGRAM



No.1 SEWAGE PIPING DIAGRAM



No.2 SEWAGE PIPING DIAGRAM

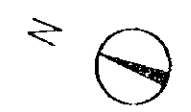
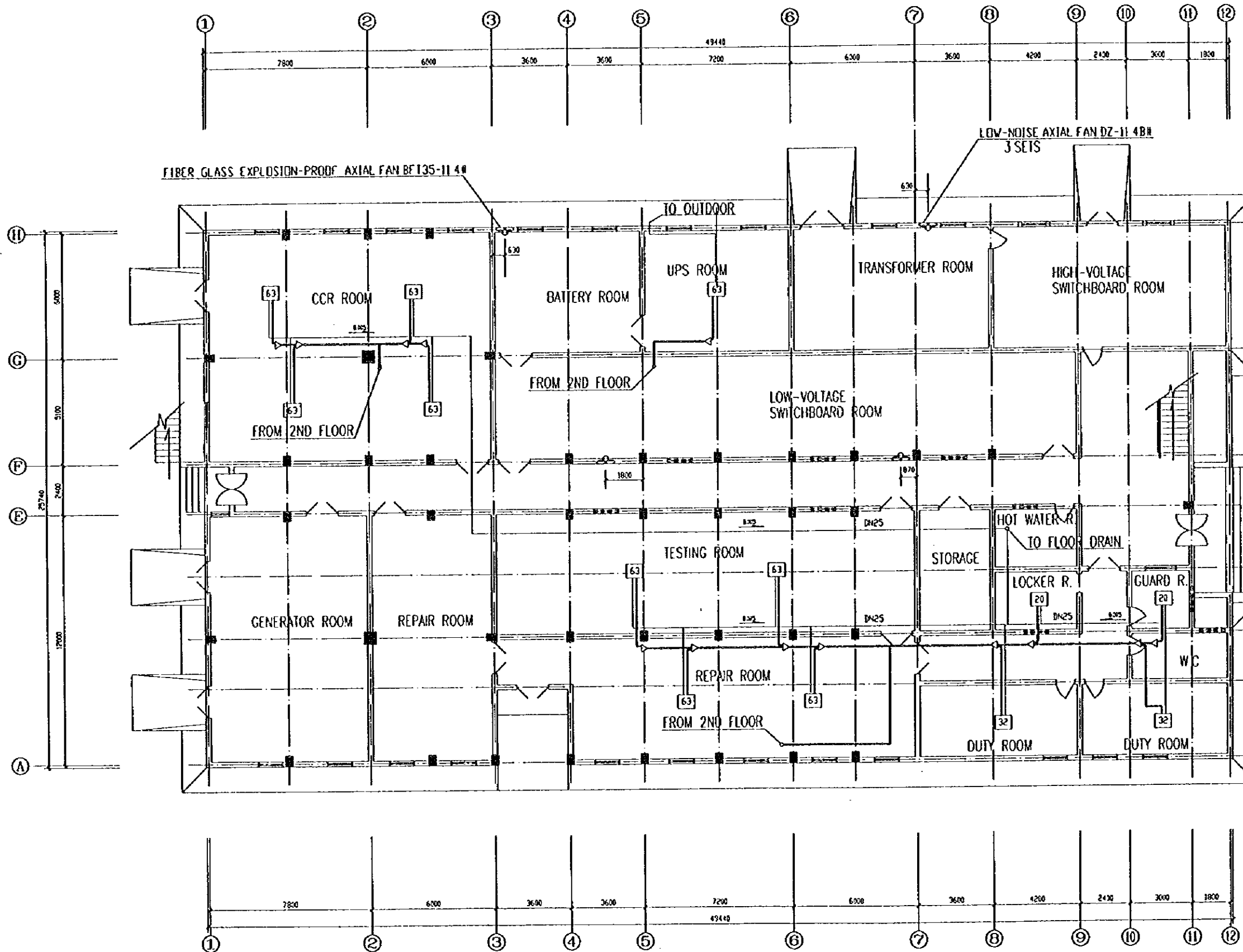


No.3 SEWAGE PIPING DIAGRAM

Remarks:

1. Elevation in This Drawing is What Above or Below the Current Layer.
2. Elevation With Bracket in This Drawing is What Above or Below the Ground Floor.

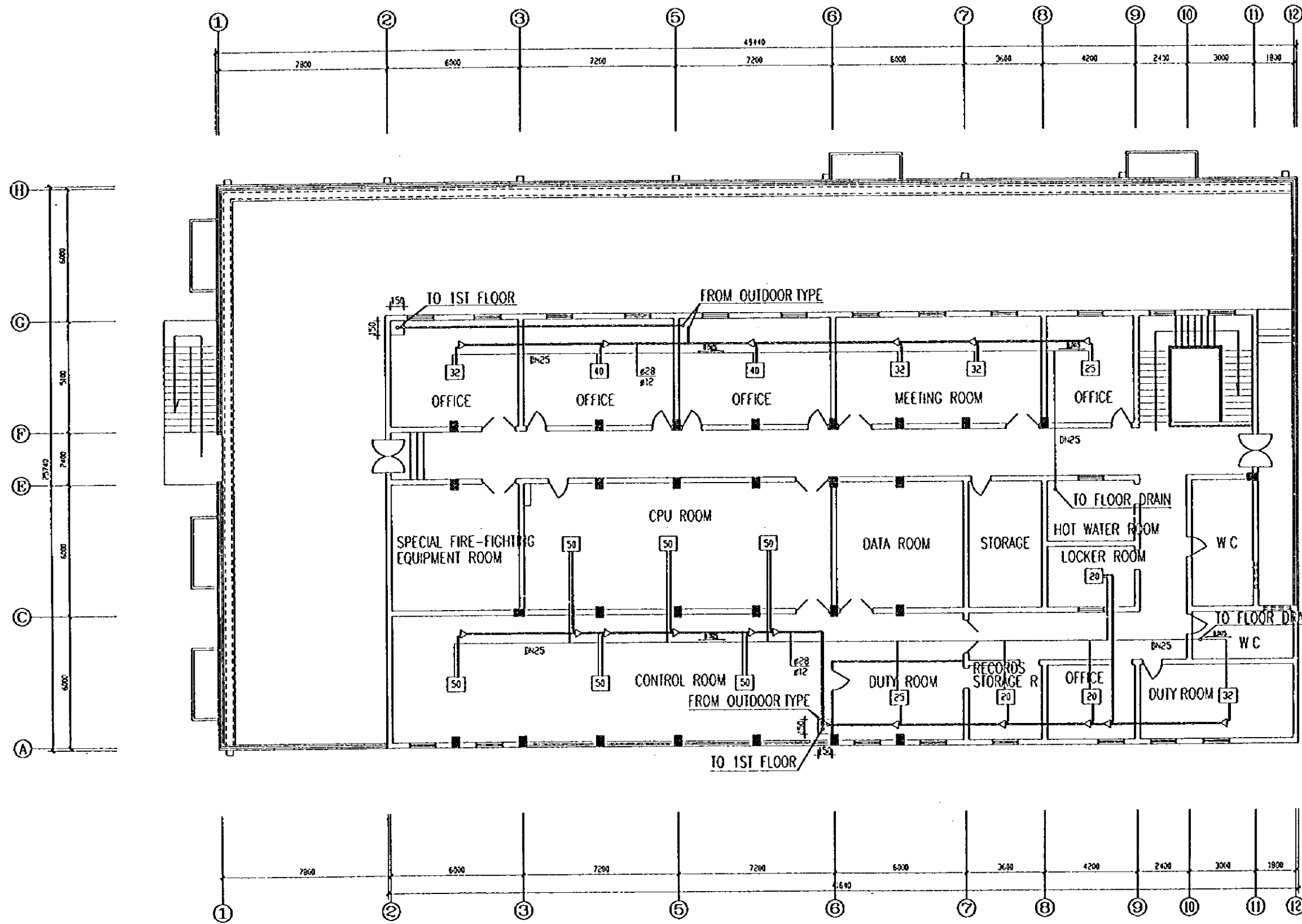
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WAN AFL SUB-STATION	
WATER SUPPLY AND DRAINAGE DETAILS AND DIAGRAM	
SCALE	DWG-M3
JAPAN INTERNATIONAL COOPERATION AGENCY	



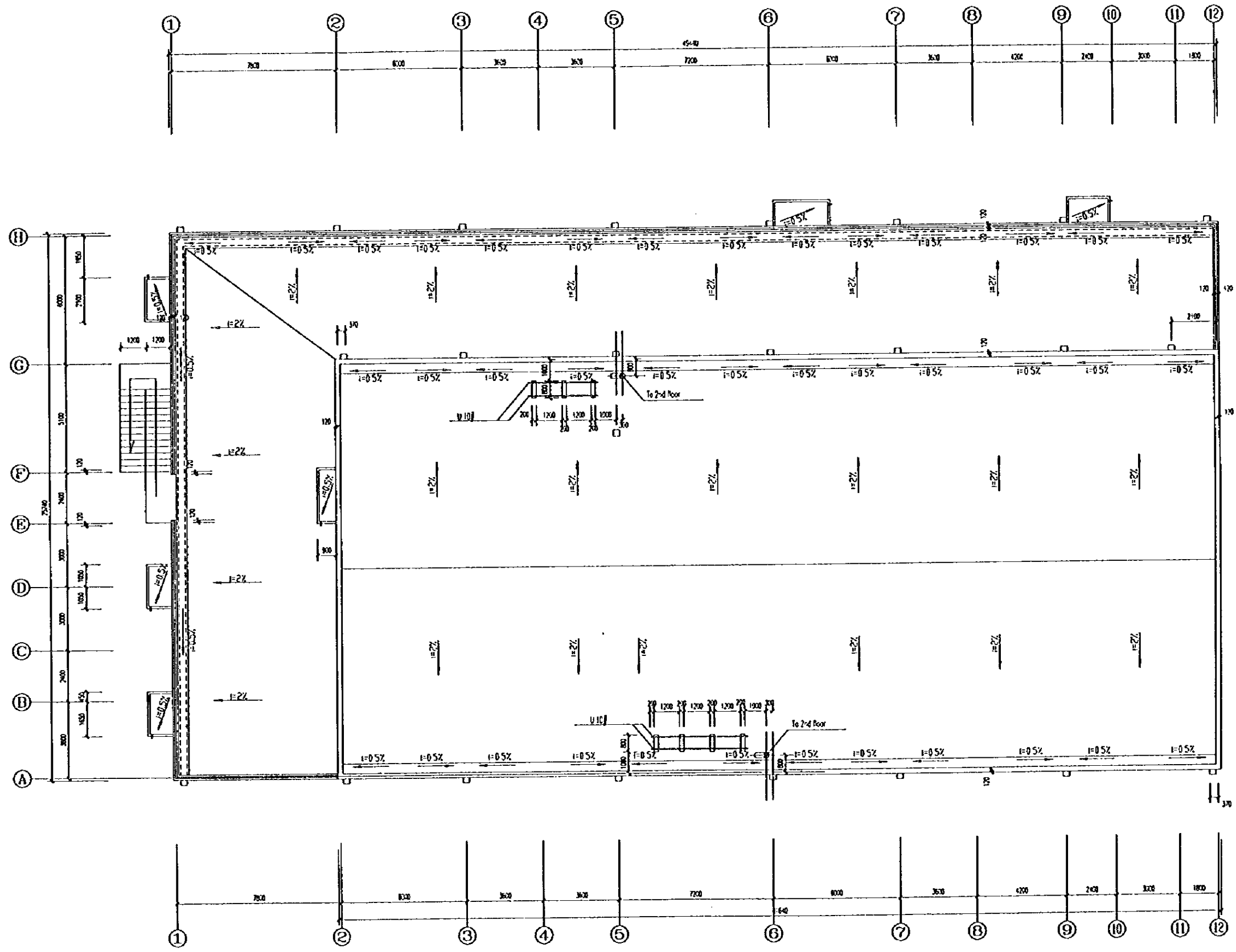
NO.	NAME	TYPES & SPECIFICATIONS	UNIT	AMOUNT
1	VAV AIR-CONDITIONER	$Q_c=28KW$ $Q_e=31.5KW$	SET	5
		OUTDOOR RSXY10K	$N=7.62KW$ $U=380V$	
		INDOOR FXYC63KV	$Q_c=7.1KW$ $Q_e=8.0KW$	
			$N=30W$ $U=220V$	
		INDOOR FXYC50KV	$Q_c=5.6KW$ $Q_e=6.3KW$	
			$N=20W$ $U=220V$	
		INDOOR FXYC40KV	$Q_c=4.5KW$ $Q_e=5.0KW$	
			$N=20W$ $U=220V$	
		INDOOR FXYC32KV	$Q_c=3.6KW$ $Q_e=4KW$	
			$N=15W$ $U=220V$	
2	LOW-NOISE AXIAL FAN	DZ-11 4B / $N=0.25KW$	SET	3
		$L=4000m^3/h$ $U=380V$		
3	FIBER GLASS EXPLOSION-PROOF AXIAL FAN	BF135-11 4 / $U=380V$	SET	1
		$L=2500m^3/h$ $N=0.25KW$		

NOTE : ACCORDING TO PROCESS REQUIREMENTS, THE INDOOR AIR-CONDITIONED TEMPERATURE : $T=26^{\circ}C$ IN SUMMER; $T=18^{\circ}C$ IN WINTER .

PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997
 MAIN A/F SUB-STATION
 1ST FLOOR PLAN VENTILATION AND AIR-CONDITIONING SYSTEM
 SCALE 1:100 | DWG2-M4
 JAPAN INTERNATIONAL COOPERATION AGENCY

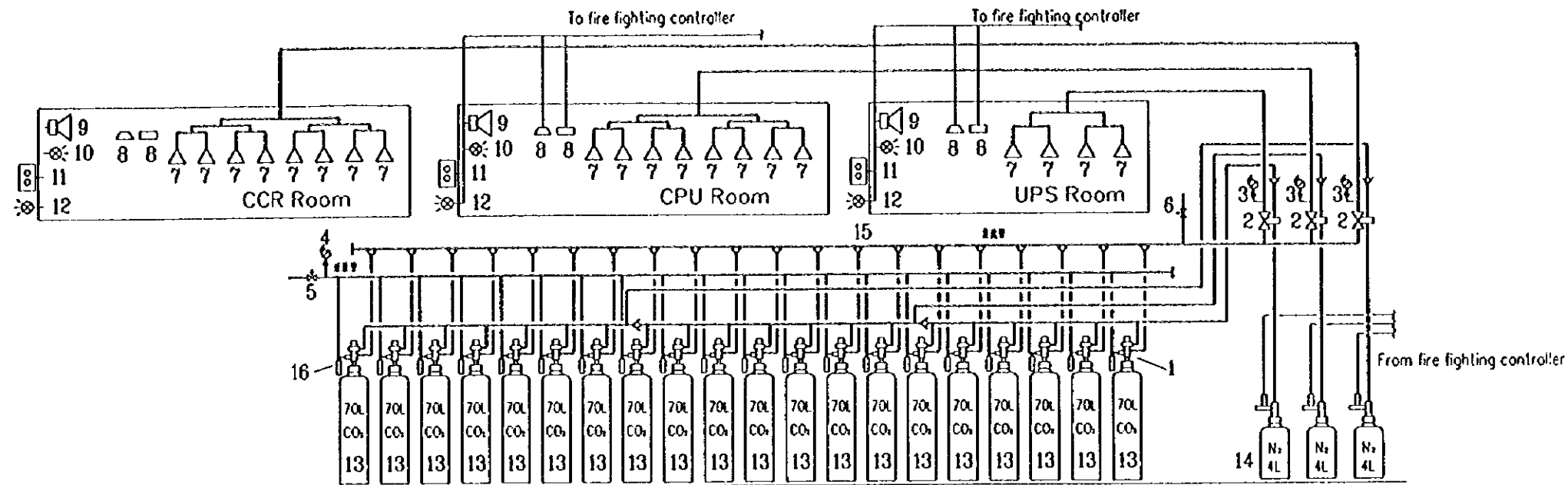


PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN AFL SUBSTATION	
2ND FLOOR PLAN, VENTILATION AND AIR-CONDITIONING SYSTEM	
SCALE	DWG2-W5
JAPAN INTERNATIONAL COOPERATION AGENCY	



ROOF PLAN 1:100

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WAN AFL SUBSTATION	
ROOF PLAN, AIR-CONDITIONING SYSTEM	
SCALE	DWG2-W6
JAPAN INTERNATIONAL COOPERATION AGENCY	



PRINCIPLE DRAWING OF CARBON DIOXIDE EXTINGUISHING SYSTEM

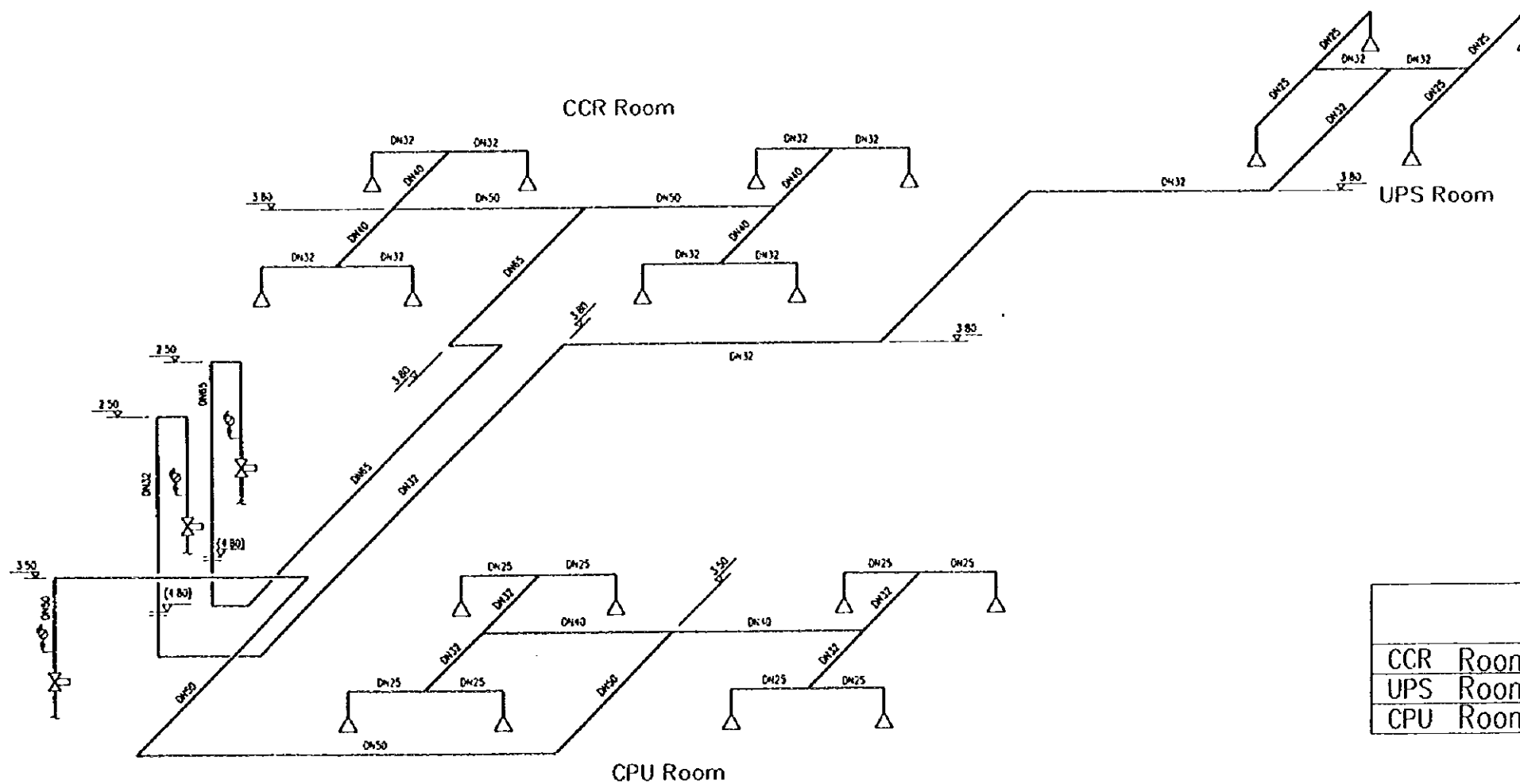


DIAGRAM DRAWING OF CARBON DIOXIDE EXTINGUISHING SYSTEM

NOTES :

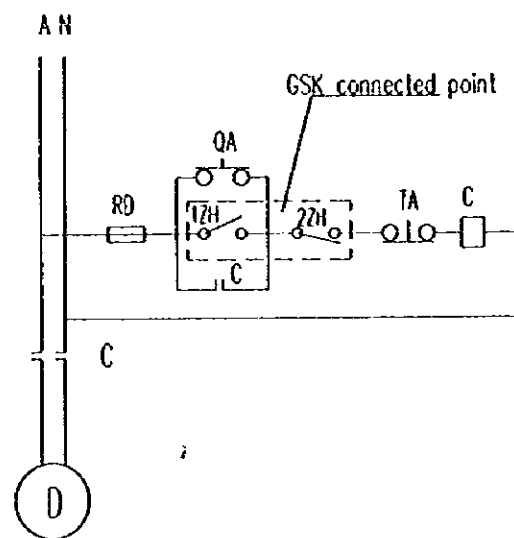
No.	Name	Specification
1	Valve of cylinder head	pressure: 15 MPa;
2	selecting valve	pressure: 12 MPa;
3	pressure switch	pressure: 15 MPa;
4	pressure switch	pressure: 0.3 MPa
5	safety valve	pressure: 0.4 MPa;
6	safety valve	pressure: 12 MPa;
7	nozzle	
8	fire detector	
9	sound alarm case	
10	light alarm case	
11	manual control case	
12	gas discharge indicate light	
13	gas cylinder	volume: 70 L; pressure: 15 MPa;
14	actuating cylinder	volume: 4 L; pressure: 6 MPa
15	check valve	pressure: 15 MPa;
16	gas discharge indicator	

	Volume of Room	Desired Gas Weight	Number of Cylinder	size of selecting valve	nozzle type	number of nozzle
	M ³	KG	p.c.	mm		p.c.
CCR Room	710	740	20	65	4Q11	8
UPS Room	203	230	6	32	4Q10	4
CPU Room	350	490	13	50	4Q10	8

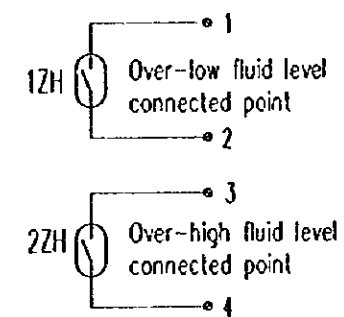
Remarks :

- Elevation in This Drawing is What Above or Below the Current Layer .
- Elevation With Bracket in This Drawing is What Above or Below the Ground Floor .

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAN AFL SUB-STATION	
FIRE FIGHTING SYSTEM DETAILS	
SCALE	NON SCALE DWG2-W7
JAPAN INTERNATIONAL COOPERATION AGENCY	

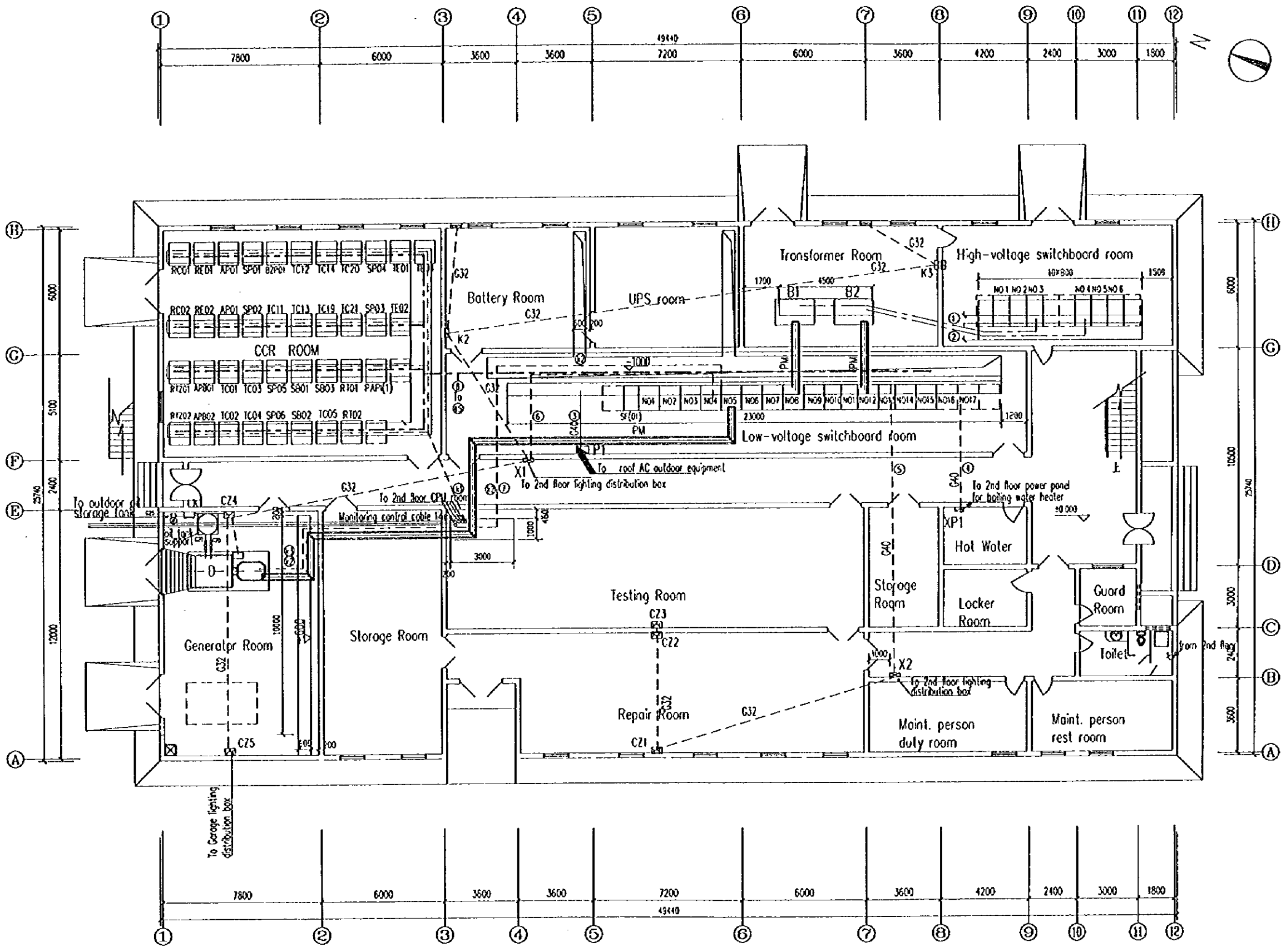


ELECTRICAL CONTROL OIL PUMP WIRING DIAGRAM



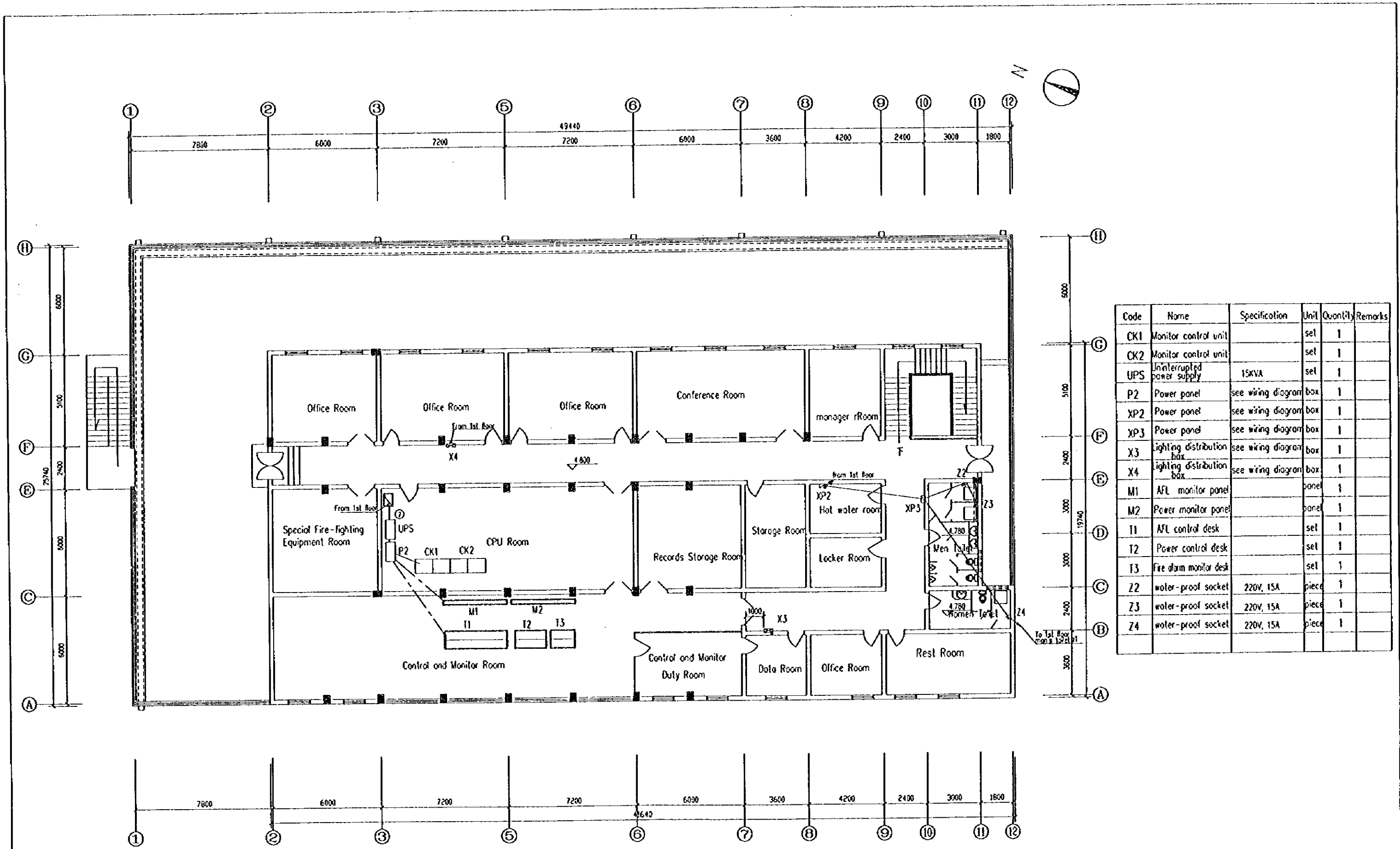
Remarks: Turn on the oil pump when fluid level of oil tank is over-low, and turn off the oil pump when fluid level of oil tank is over-high.
 Type of 12H, 22H fluid level sensor is UQK-02-b2d
 Type of A.C. contactor C is CJ20-40, 220V
 Type of fuse RD is RL1-15/10
 Type of push button QA, TA is AD11

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN AFE SUB-STATION	
PRINCIPLE DIAGRAM OF AUTOMATIC FUELING CONTROL BOX OF POWER FUEL PUMP	
NO. SCALE	DWG2-W3
JAPAN INTERNATIONAL COOPERATION AGENCY	



1ST FLOOR PLAN

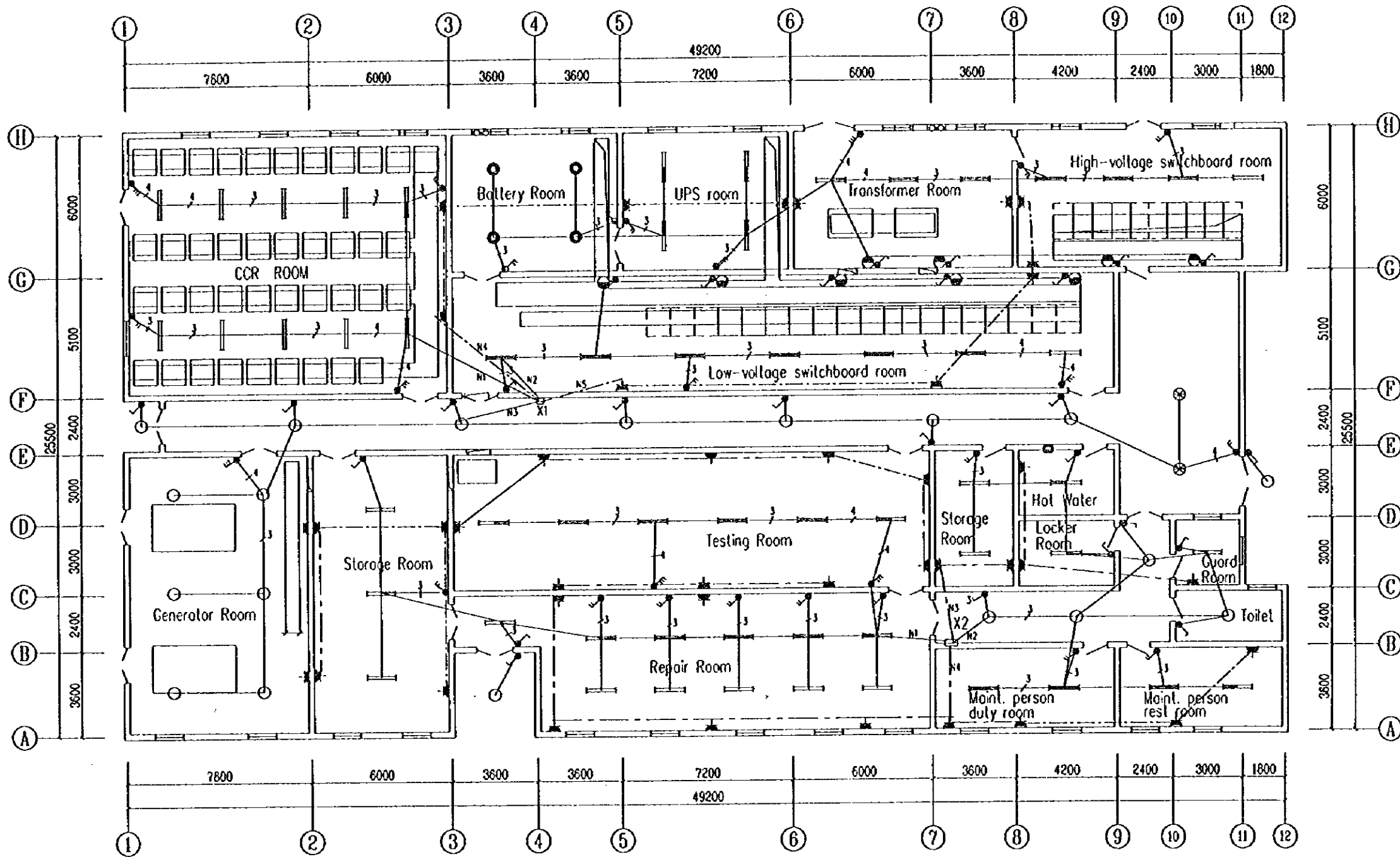
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WANAFU SUB-STATION	
1ST FLOOR PLAN LAYOUT PLAN FOR EQUIPMENT	
SCALE	DWG2-AE1
JAPAN INTERNATIONAL COOPERATION AGENCY	



Code	Name	Specification	Unit	Quantity	Remarks
CK1	Monitor control unit		set	1	
CK2	Monitor control unit		set	1	
UPS	Uninterrupted power supply	15KVA	set	1	
P2	Power panel	see wiring diagram	box	1	
XP2	Power panel	see wiring diagram	box	1	
XP3	Power panel	see wiring diagram	box	1	
X3	Lighting distribution box	see wiring diagram	box	1	
X4	Lighting distribution box	see wiring diagram	box	1	
M1	AFL monitor panel		panel	1	
M2	Power monitor panel		panel	1	
T1	AFL control desk		set	1	
T2	Power control desk		set	1	
T3	Fire alarm monitor desk		set	1	
Z2	water-proof socket	220V, 15A	piece	1	
Z3	water-proof socket	220V, 15A	piece	1	
Z4	water-proof socket	220V, 15A	piece	1	

2ND FLOOR PLAN

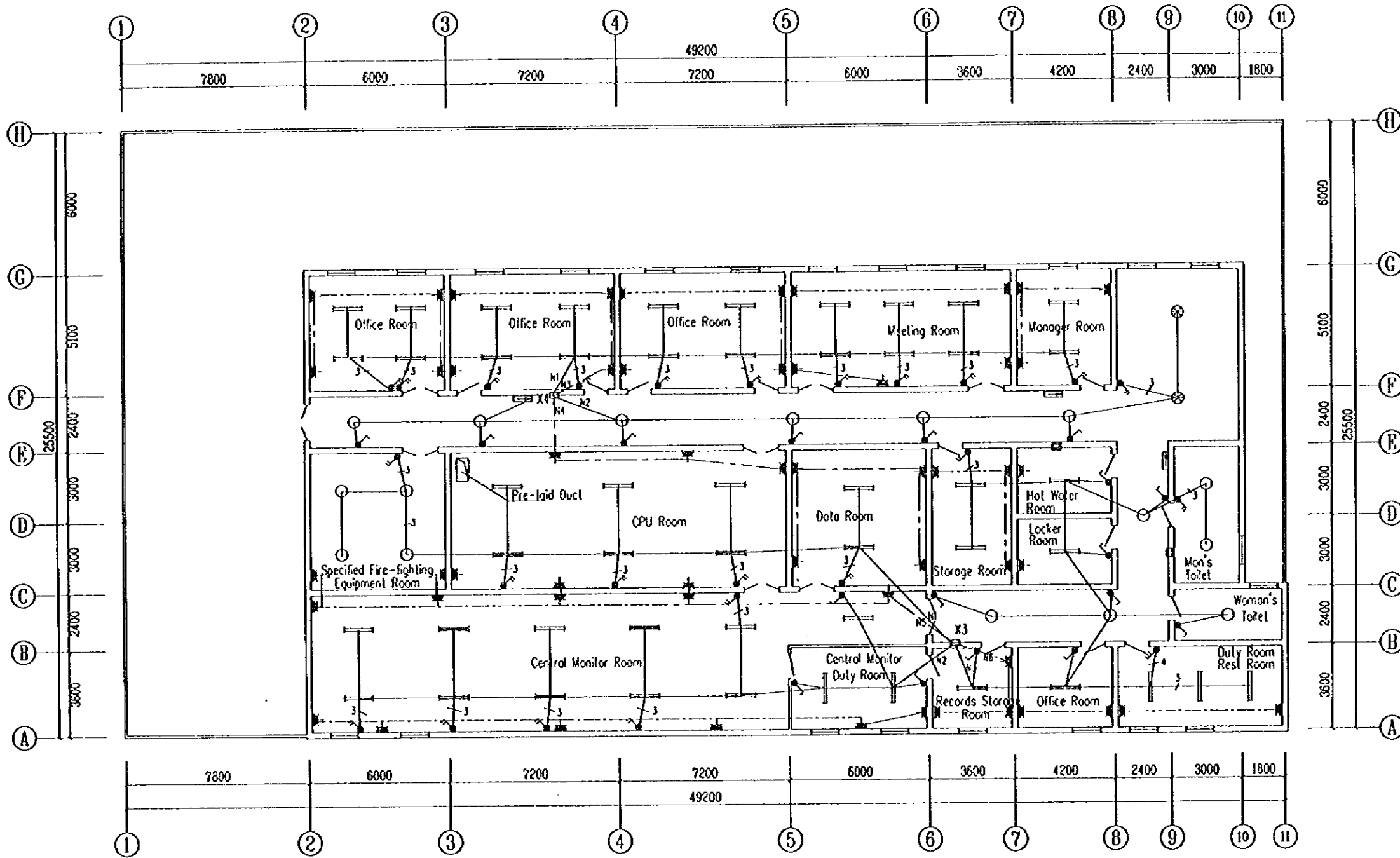
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN AFL SUB-STATION	
2ND FLOOR PLAN LAYOUT PLAN FOR EQUIPMENT	
SCALE	1:200
DWG2-AE2	
JAPAN INTERNATIONAL COOPERATION AGENCY	



1ST FLOOR PLAN

No.	Symbol	Name	Specification	Unit	Quantity
17					
16					
15		cable line	BV-500V,4mm ²		1100
14		cable line	BV-500V,2.5mm ²		1600
13		steel pipe	G20	m	850
12	⚡	one pole switch	250V,6A	piece	26
11	⚡	two pole switch	250V,6A	piece	18
10	⚡	blast two pole switch	250V,6A	piece	2
9	⚡	three pole switch	250V,6A	piece	7
8	⚡	single phase socket	250V,10A	piece	40
7	⊙	wall fitting	2x60W	lamp	9
6	⊙	explosion-proof light	1x100W	lamp	4
5	⊙	Multi-lamp	4x40W	lamp	2
4	⊙	overhead light	1x60W	lamp	3
3	⊙	hanging-up industrial lamp	1x100W	lamp	16
2	⊙	overhead fluorescent	2x40W	lamp	37
1	⊙	fluorescent	2x40W	lamp	20
Facilities					

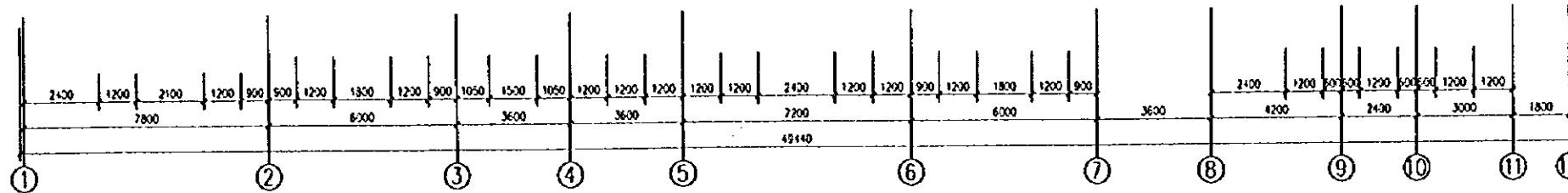
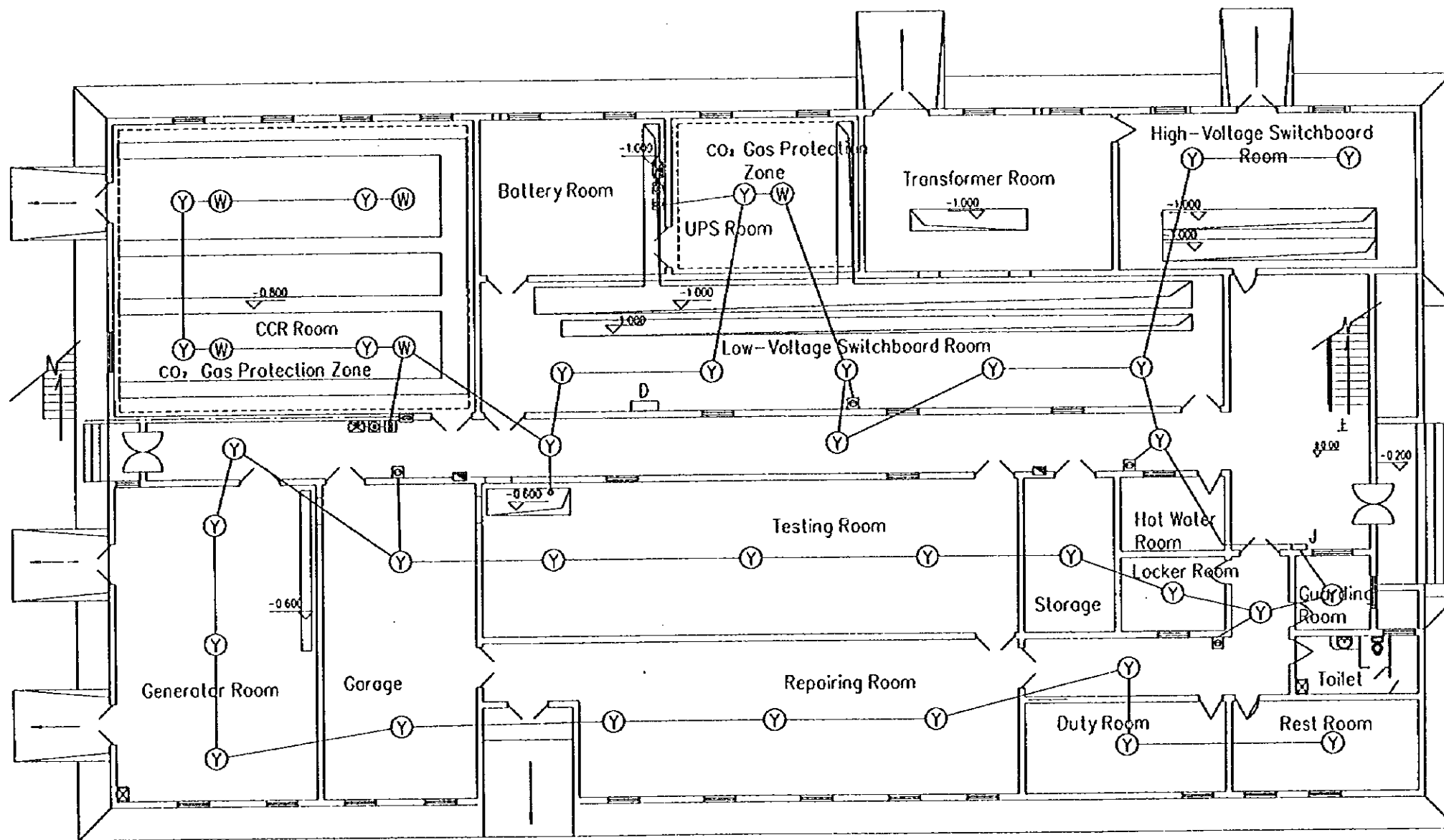
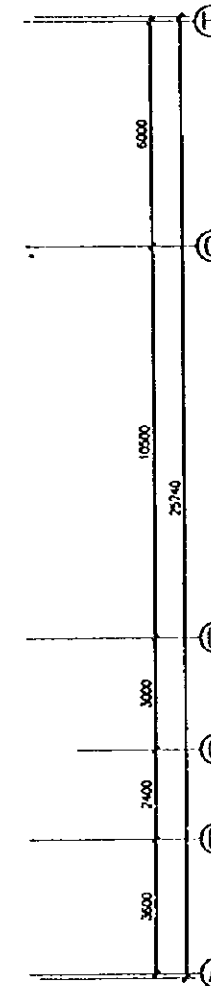
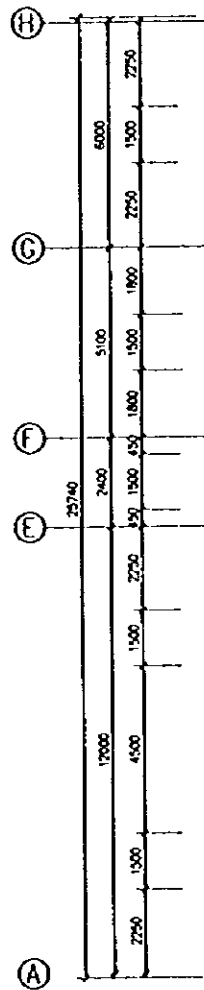
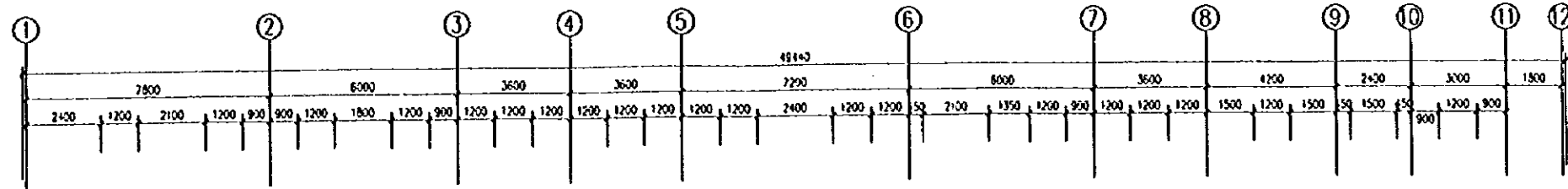
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WAN AFL SUB-STATION	
1ST FLOOR PLAN ILLUMINATION PLAN	
SCALE	1:25
DWG2-A13	
JAPAN INTERNATIONAL COOPERATION AGENCY	



No.	Symbol	Name	Specification	Unit	Quantity
13		cable line	BV-500V,4mm	m	1000
12		cable line	BV-500V,2.5mm	m	1400
11		steel pipe	G20	m	900
10	⚡	one pole switch	250V,6A	piece	17
9	⚡	two pole switch	250V,6A	piece	23
8	⚡	three pole switch	250V,6A	piece	1
7	⚡	single phase socket	250V,10A	piece	55
6	⊙	hanging-up industrial lamp	1X100W	lamp	16
5	⊙	Multi-lamp	4X40W	lamp	2
4	⊙	emergency light	1X40W	lamp	2
3	⊙	emergency fluorescent	2X40W	lamp	3
2	⊙	overhead fluorescent	2X40W	lamp	42
1	⊙	fluorescent	2X40W	lamp	5

Facilities

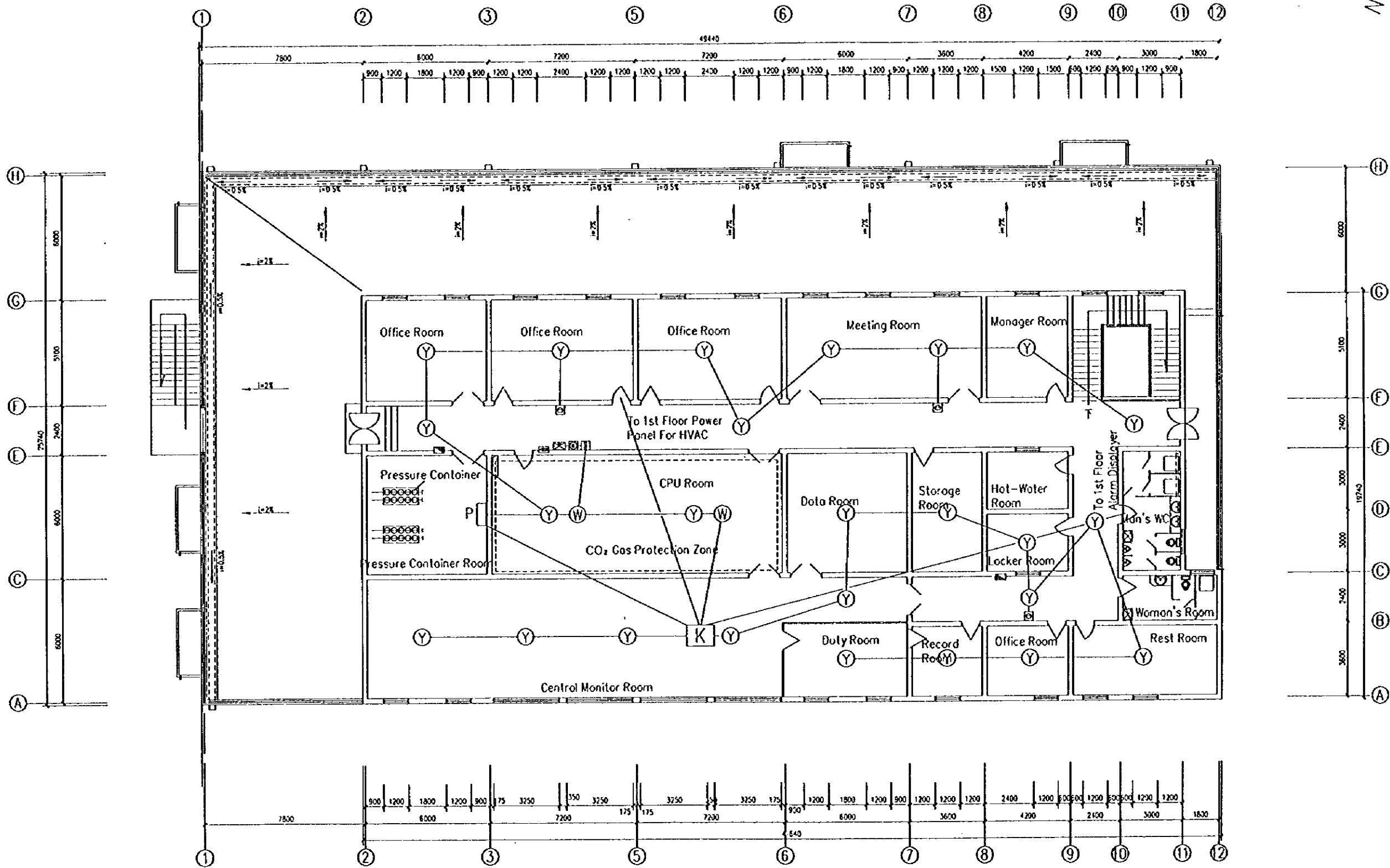
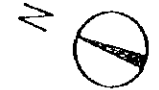
PEOPLE'S REPUBLIC OF CHINA	
SHANDONG PUJONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WAN AI SUB-STATION	
2ND FLOOR PLAN ILLUMINATION PLAN	
SCALE	1:33
DWC2-AE4	
JAPAN INTERNATIONAL COOPERATION AGENCY	



- (Y) Smoke detector
- (W) Temperature detector
- J Alarm displayer
- D Power panel for HVAC
- ☒ Sound and shine alarmer
- ☒ Emergency ON/OFF button
- ☒ Gas release indicate light
- ☒ Alarm bell

1ST FLOOR PLAN

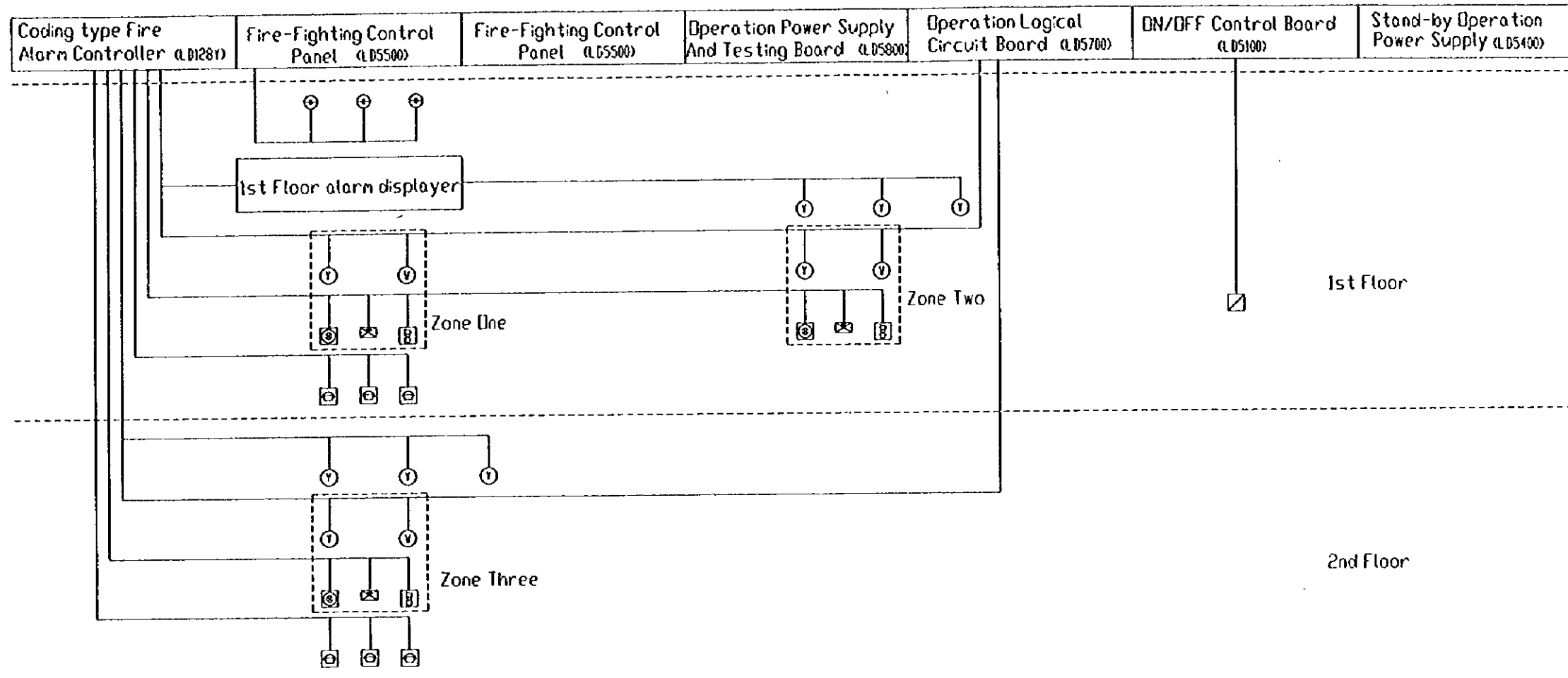
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MGN AFL SUB-STATION	
1ST FLOOR PLAN, FIRE ALARM DETECTOR PLAN	
SCALE	DWG2-AES
JAPAN INTERNATIONAL COOPERATION AGENCY	



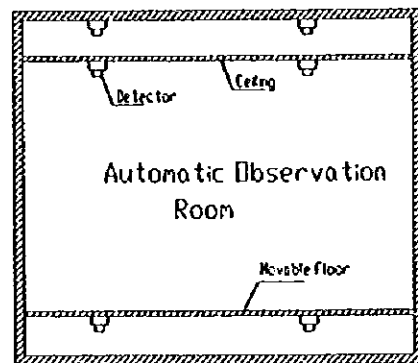
- Ⓨ Smoke detector
- Ⓦ Temperature detector
- P Pressure Container Driver
- K Fire-Fighting Central Control Board
- ☒ Sound and shine alarmer
- Ⓜ Emergency ON/OFF button
- ☑ Gas release indicate light
- ☑ Alarm bell

2ND FLOOR PLAN

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MANAFI SUB-STATION	
2ND FLOOR PLAN, FIRE ALARM DETECTOR PLAN	
SCALE	1:200
DWG2-AE6	
JAPAN INTERNATIONAL COOPERATION AGENCY	

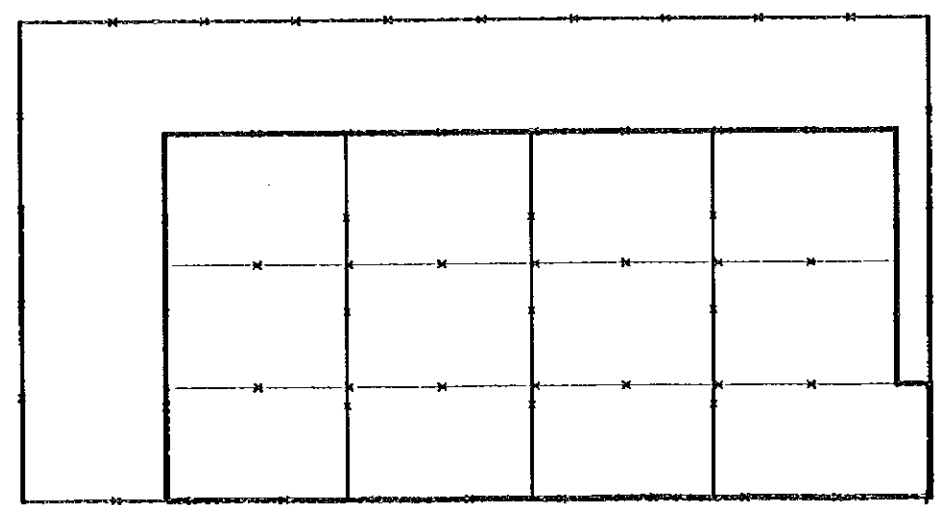
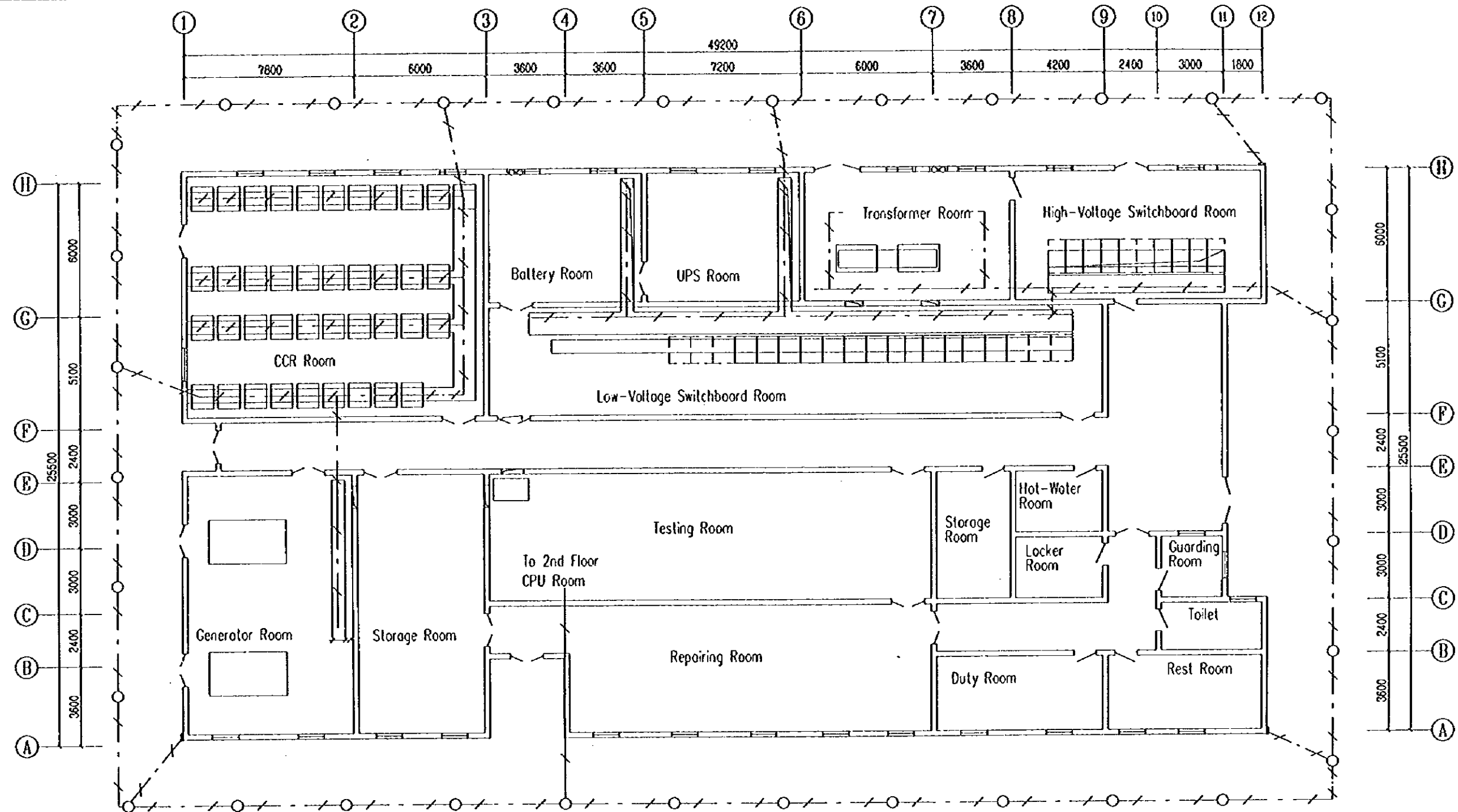


FIRE ALARM AND FIRE FIGHTING EQUIPMENT CONTROL SYSTEM



①	Temperature Detector
②	Smoke Detector
⊗	Sound and Shine Alarm
Ⓚ	Emergency DN/OFF Button
Ⓜ	Gas Release Indecation Light
Ⓛ	Alarm Bell
Ⓞ	Put On Container
Ⓢ	HVAC Control Switch

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
WAN AI L SUB-STATION	
FIRE ALARM DIAGRAM	
SCALE	NONSCALE DWG2-AE7
JAPAN INTERNATIONAL COOPERATION AGENCY	

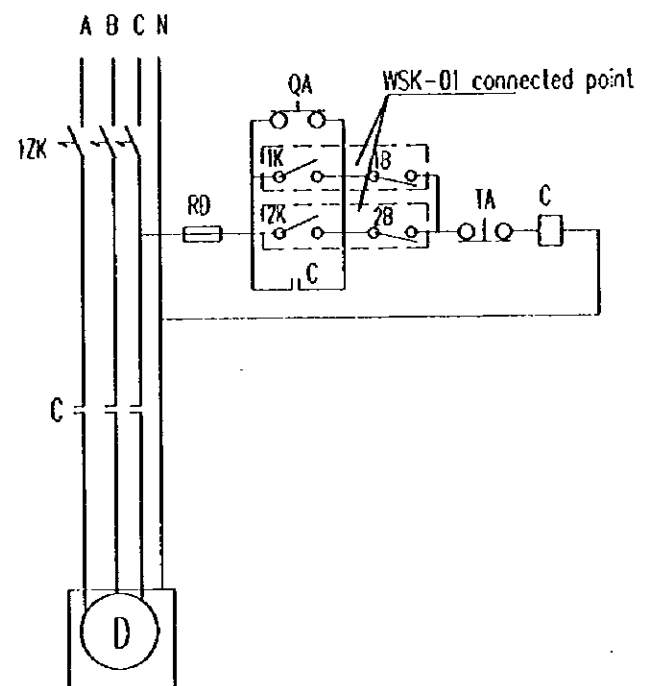


ROOF LIGHTING DISCHARGE PLAN 1:200

No.	Symbol	Name	Specification	Unit	Quantity	Remarks
7						
6						
5	⋮	Lightning Conductor	∅ 12	m	60	
4	—*	Lightning Discharge Wire	∅ 8	m	380	
3	⋈	Earth Wire (indoor)	25x4	m	180	
2	⋈	Earth Wire (outdoor)	40x4	m	240	
1	⊗	Grounding Electrode	50X50X5,L=2500	Piece	34	
Facilities						

PEOPLE'S REPUBLIC OF CHINA
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | SEPTEMBER 1997
WAN AFL SUB-STATION
GROUNDING SYSTEM

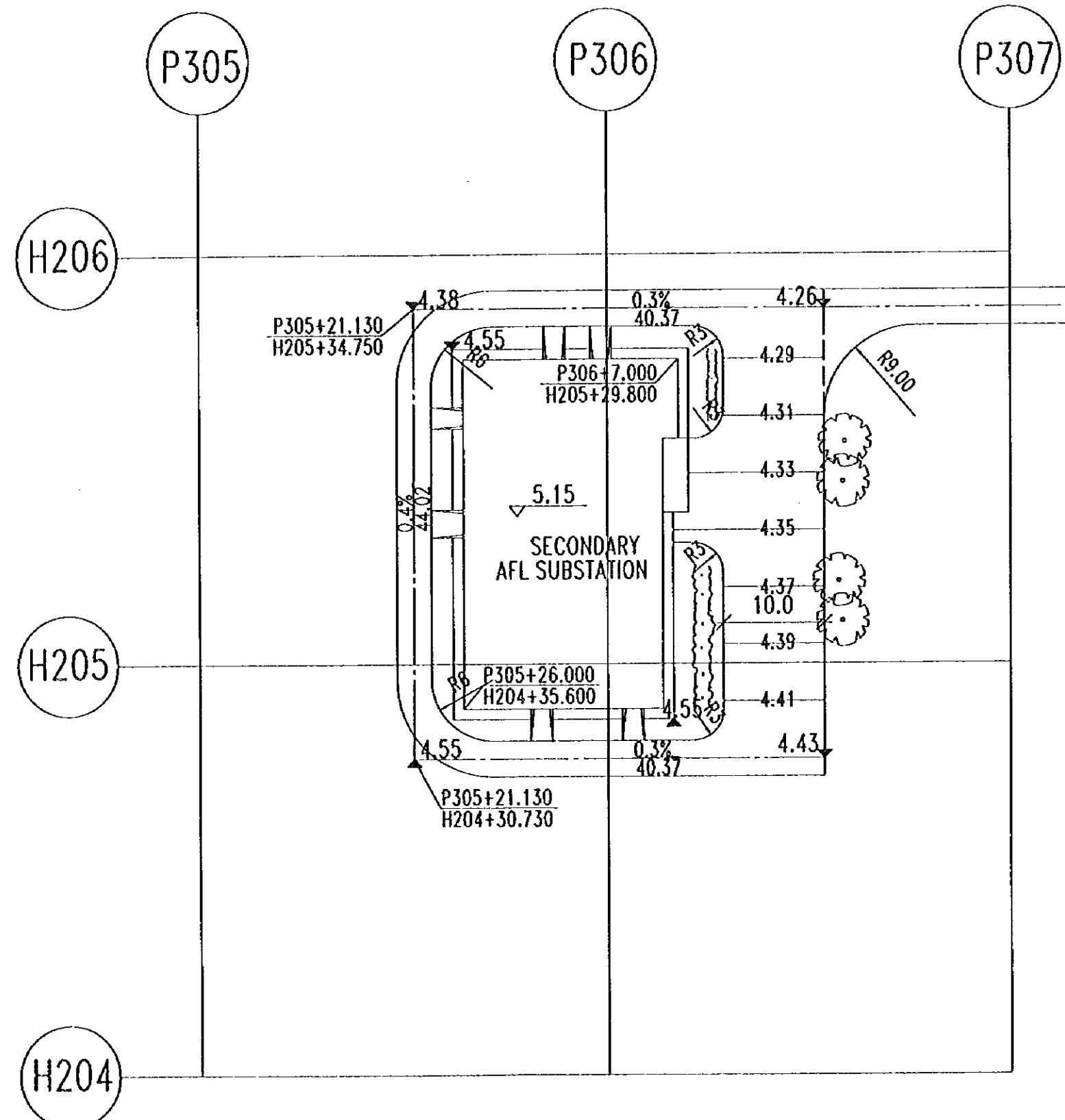
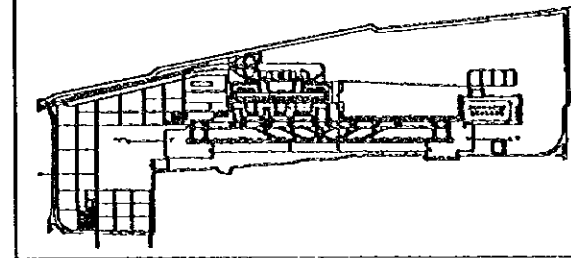
SCALE DMC2-AE8
JAPAN INTERNATIONAL COOPERATION AGENCY



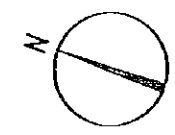
Symbol	Name	Specification	Unit	Quantity	Remarks
C	A.C. contactor	CJ20-20/3	piece	1	
1ZK	MCCB	C45N-10/3	piece	1	
RD	Fuse	RL1-15/10	piece	1	
QA, TA	Control Button	AB11	piece	2	
	Temperature controller	VSK-01	piece	2	

EXHAUST FAN CONTROL WIRING DIAGRAM






PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
MAIN A/L SUB-STATION	
PRINCIPLE DIAGRAM OF EXHAUST FAN CONTROL BOX	
SCALE	NONSCALE DWG2-AE9
JAPAN INTERNATIONAL COOPERATION AGENCY	



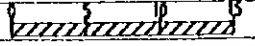
P309+4.750
H205+34.750
4.26
CONNECTED WITH
FENCE ROAD



LEGEND

-  BUILDING
-  ELEVATION OF IN-DOOR
-  ELEVATION OF LEVELLE GROUND OR ELEVATION OF ROAD INCLINED POINT
-  LONGITUDINAL SLOPE OF ROAD(%)
SCOPE LENGTH(M)
-  CONTOUR LINE

PLOT PLAN
SCALE 1:250

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	SEPTEMBER 1997
SECONDARY AFL SUBSTATION	
PLOT PLAN	
SCALE 	DWG2-A'0
JAPAN INTERNATIONAL COOPERATION AGENCY	