

JAPAN INTERNATIONAL COOPERATION AGENCY
SCIENCE AND TECHNOLOGY COMMISSION OF
SHANGHAI MUNICIPAL PEOPLE'S GOVERNMENT,
PEOPLE'S REPUBLIC OF CHINA

DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT FINAL REPORT

PART II -4 Fire Fighting and Rescue Facilities

JANUARY 1997

NIPPON KOEI CO., LTD
NIKKEN SEKKEI LTD.

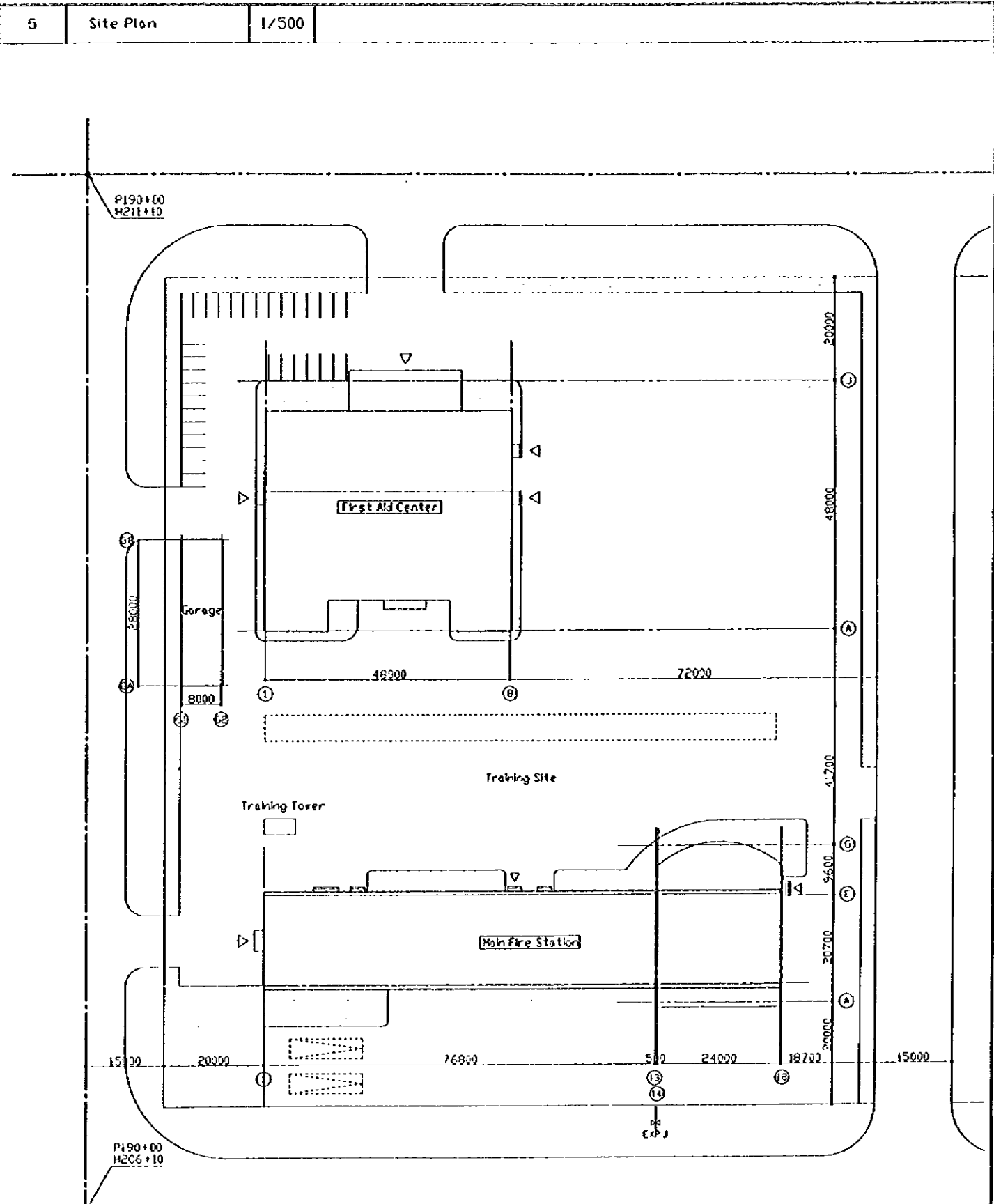
DETAILED DESIGN OF SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT

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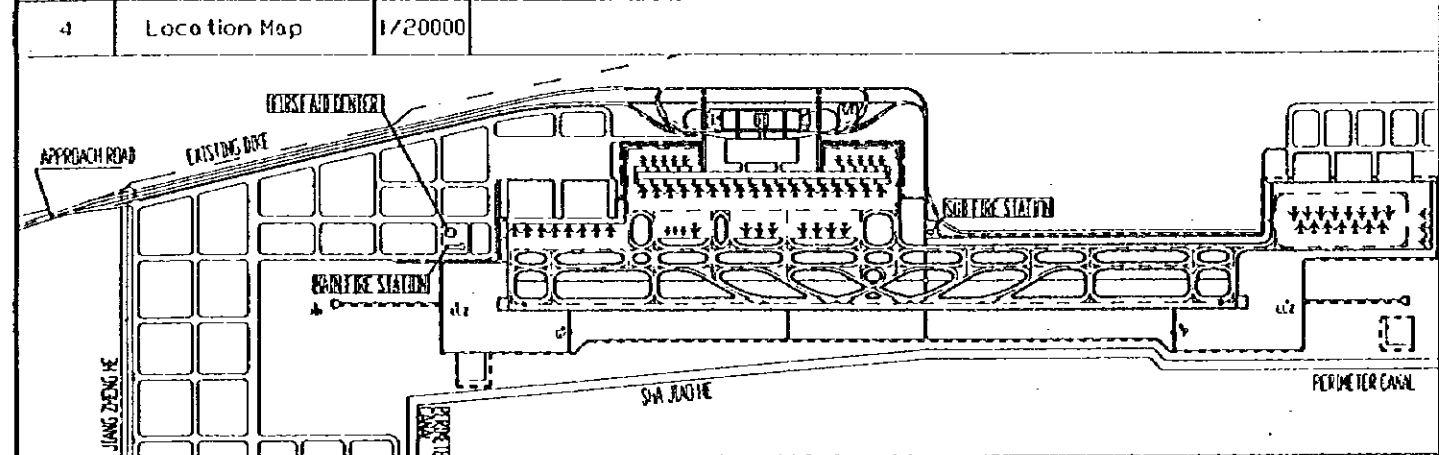
Fire Fighting and Rescue Facilities

DWG No.	TITLE	題 目
4-A1	MAIN FIRE STATION GENERAL DESCRIPTION, SITE PLAN	消防本所 建築概要・配置図・案内図
4-A2	MAIN FIRE STATION 1st FLOOR PLAN	消防本所 1階平面図
4-A3	MAIN FIRE STATION 2nd FLOOR & ROOF PLAN	消防本所 2階平面図・屋根伏図
4-A4	MAIN FIRE STATION ELEVATION SECTION	消防本所 立面図・断面図
4-A5	SUB FIRE STATION GENERAL DESCRIPTION, SITE PLAN	消防分所 建築概要・配置図・案内図
4-A6	SUB FIRE STATION 1st, 2nd FLOOR & ROOF PLAN	消防分所 1階平面図・2階平面図・屋根伏図
4-A7	SUB FIRE STATION ELEVATION SECTION	消防分所 立面図・断面図
4-A8	FIRST AID CENTER GENERAL DESCRIPTION, SITE PLAN	救急センター 建築概要・配置図・案内図
4-A9	FIRST AID CENTER 1st FLOOR PLAN	救急センター 1階平面図
4-A10	FIRST AID CENTER 2nd FLOOR & ROOF PLAN	救急センター 2階平面図・屋根伏図
4-A11	FIRST AID CENTER ELEVATION SECTION	救急センター 立面図・断面図
4-M1	MAIN FIRE STATION HVAC, PLUMBING SCHEMATIC DIAGRAM	消防本所 空調・衛生設備系統図
4-M2	SUB FIRE STATION HVAC, PLUMBING SCHEMATIC DIAGRAM	消防分所 空調・衛生設備系統図
4-M3	FIRST AID CENTER HVAC, PLUMBING SCHEMATIC DIAGRAM	救急センター 空調・衛生設備系統図
4-E1	MAIN FIRE STATION POWER SUPPLY SYSTEM DIAGRAM	消防本所 電力設備系統図
4-E2	SUB FIRE STATION POWER SUPPLY SYSTEM DIAGRAM	消防分所 電力設備系統図
4-E3	FIRST AID CENTER POWER SUPPLY SYSTEM DIAGRAM	救急センター 電力設備系統図
4-U1	FIRE HYDRANT LAYOUT PLAN	消火栓配置平面図
4-U2	FIRE PUMP STATION SITE PLAN	消火ポンプ室一般図

1 General Description		2 Interior Finish Schedule					5 Site Plan	1/500																																																																																																																									
Architectural Summary	Construction Site	within Shanghai Pudong International Airport site					<table border="1"> <thead> <tr> <th>Room Name</th> <th>Floor</th> <th>Base</th> <th>Wall</th> <th>Ceiling</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Garage</td> <td>1st</td> <td>Concrete Lip</td> <td>Unfinished Concrete</td> <td>Unfinished Concrete</td> <td></td> </tr> <tr> <td>Equipment Room</td> <td>1st</td> <td>Concrete Lip</td> <td>Unfinished Concrete</td> <td>Unfinished Concrete</td> <td></td> </tr> <tr> <td>Conference & Lecture Room</td> <td>1st</td> <td>Marble Finish</td> <td>Wood Base</td> <td>Mortar w/Emulsion Paint Finish</td> <td>Rockwool Acoustic Panel (D=3000)</td> </tr> <tr> <td>Dining Room, 2nd Dining Room</td> <td>2nd</td> <td>Marble Finish</td> <td>Wood Base</td> <td>Mortar w/Emulsion Paint Finish</td> <td>Gypsum Board (D=2500)</td> </tr> <tr> <td>Kitchen, Pantry</td> <td>2nd</td> <td>Mortar w/Floor Coating</td> <td>Mortar w/Polyethyl Base</td> <td>Mortar w/Emulsion 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2nd Dining Room	2nd	Marble Finish	Wood Base	Mortar w/Emulsion Paint Finish	Gypsum Board (D=2500)	Kitchen, Pantry	2nd	Mortar w/Floor Coating	Mortar w/Polyethyl Base	Mortar w/Emulsion Paint Finish	Concrete w/Point Finish	Office Room, Locker Room, Chef's Lodging, Reception Room, General Inquiry	2nd	Marble Finish	Wood Base	Mortar w/Emulsion Paint Finish	Gypsum Board w/Point Finish (D=2700)	Staff Room, Staff Room, Rest Room, Rest Room, Rest Room, Rest Room, Rest Room, Rest Room, Rest Room, Rest Room	2nd	Mortar w/Floor Coating	Mortar w/Point Finish (D=200)	Mortar w/Emulsion Paint Finish	Concrete w/Point Finish	Bath Room	2nd	Ceramic Tile 50°	-	Ceramic Tile (500) Mortar w/Polyethyl Base	Gypsum Board w/Point Finish (D=2700)	Training Room	2nd	Marble Finish	Wood Base	Mortar w/Emulsion Paint Finish	Gypsum Board (D=3000)	Storage	2nd	Marble Finish	Wood Base	Mortar w/Emulsion Paint Finish	Concrete w/Point Finish	Entrance Hall	2nd	Marble Finish	Wood Base	Mortar w/Emulsion Paint Finish	Concrete w/Point 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Electrical Work Outline	Sub Station	Power Intake LV 0.4kV Double Line by Overhead																																																																																																																															
	Power Distribution	Battery and Charger Sub Station Control Lighting/Socket Outlet 1φ2W 220V Motor 3φ3V 380V																																																																																																																															
	Others	Conduiting of Telephone, Radio, Transmitter for Fire Engine, Public Address, Master TV Systems for Building, Intercom System, Emergency Call, Fire Alarm, Medical Grounding																																																																																																																															
	Heat Source	Hot Water (Accept from DHC)																																																																																																																															
Mechanical Work Outline	Piping System	Hot Water 2 Pipes System																																																																																																																															
	Air Conditioning System	Radiator Air-Source Packaged Air Conditioning																																																																																																																															
	Ventilation System	Supply Fan/Exhaust Fan System 3sets Exhaust Fan Only 3sets																																																																																																																															
	Others	Sealing Fan																																																																																																																															
Plumbing Work Outline	Water Supply System	Direct Supply System																																																																																																																															
	Hot Water Distribution System	Bath Room Heat Exchanger (DHC Hot Water) Kitchen LPG Gas Fired Water Heater Hot Water Room Electric Water Heater																																																																																																																															
	Drainage System	Gravity Flow																																																																																																																															
	Fire Protection System	Indoor Fire Hydrant System Outdoor Fire Hydrant System (for Training)																																																																																																																															



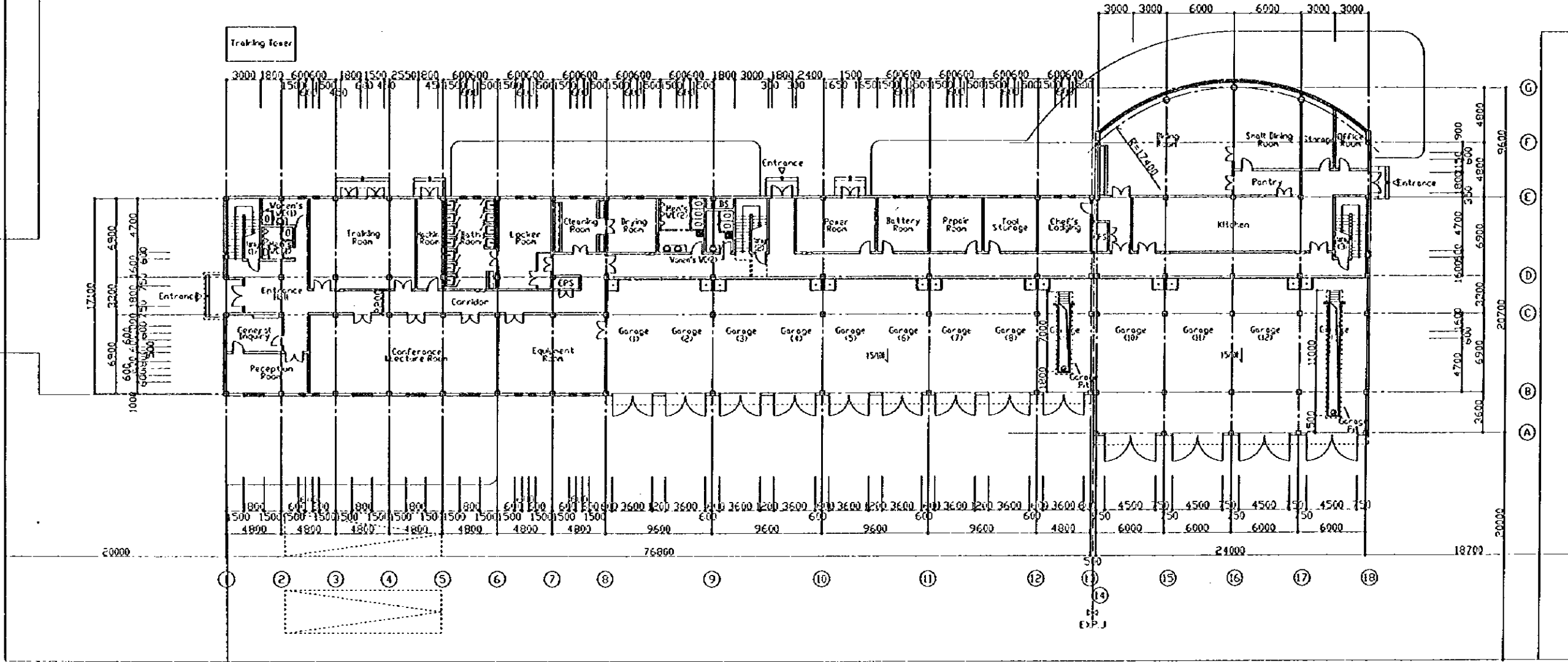
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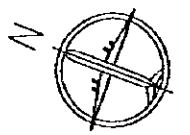
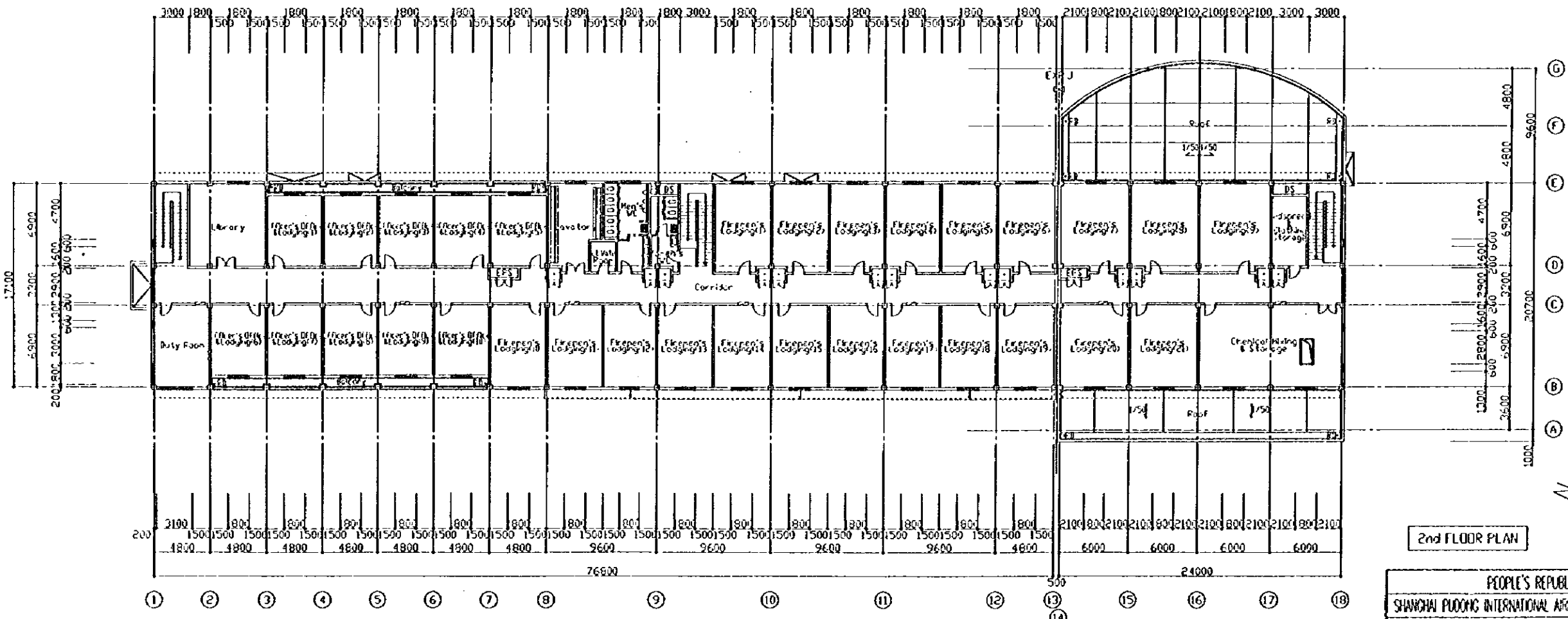
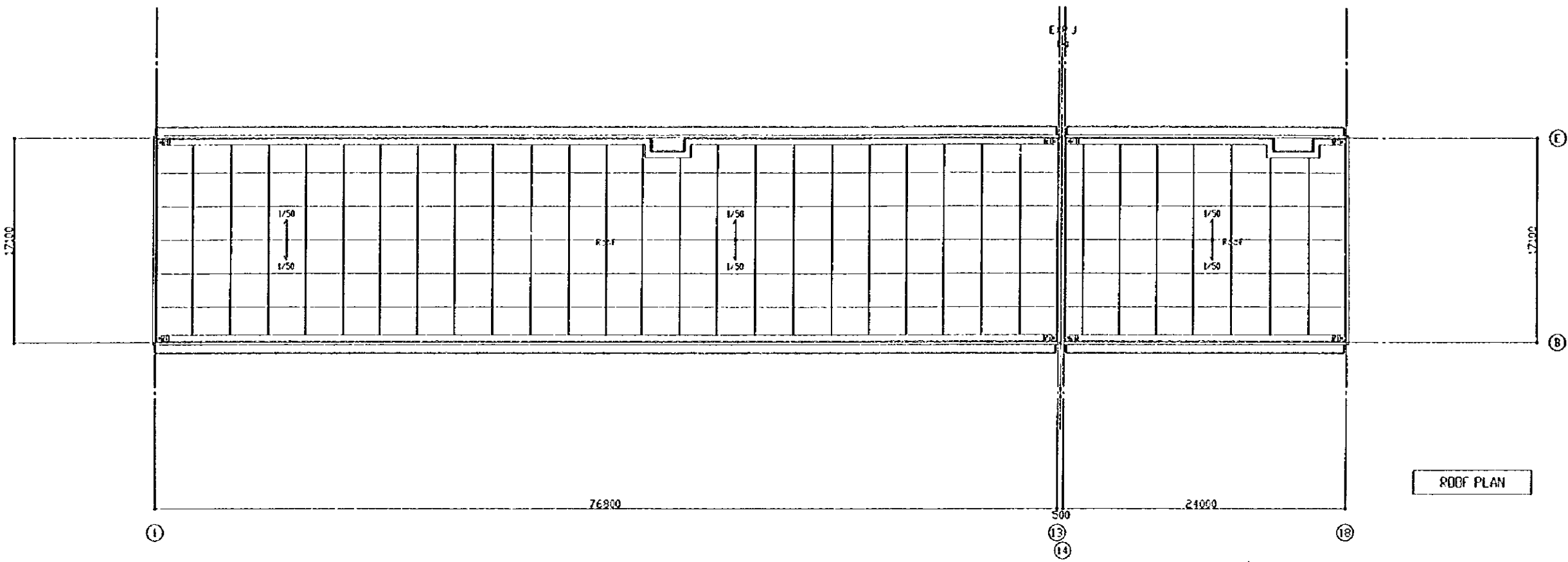
PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997
 MAIN FIRE STATION GENERAL DESCRIPTION, SITE PLAN
 SCALE 1:500 DWG-A-1
 JAPAN INTERNATIONAL COOPERATION AGENCY



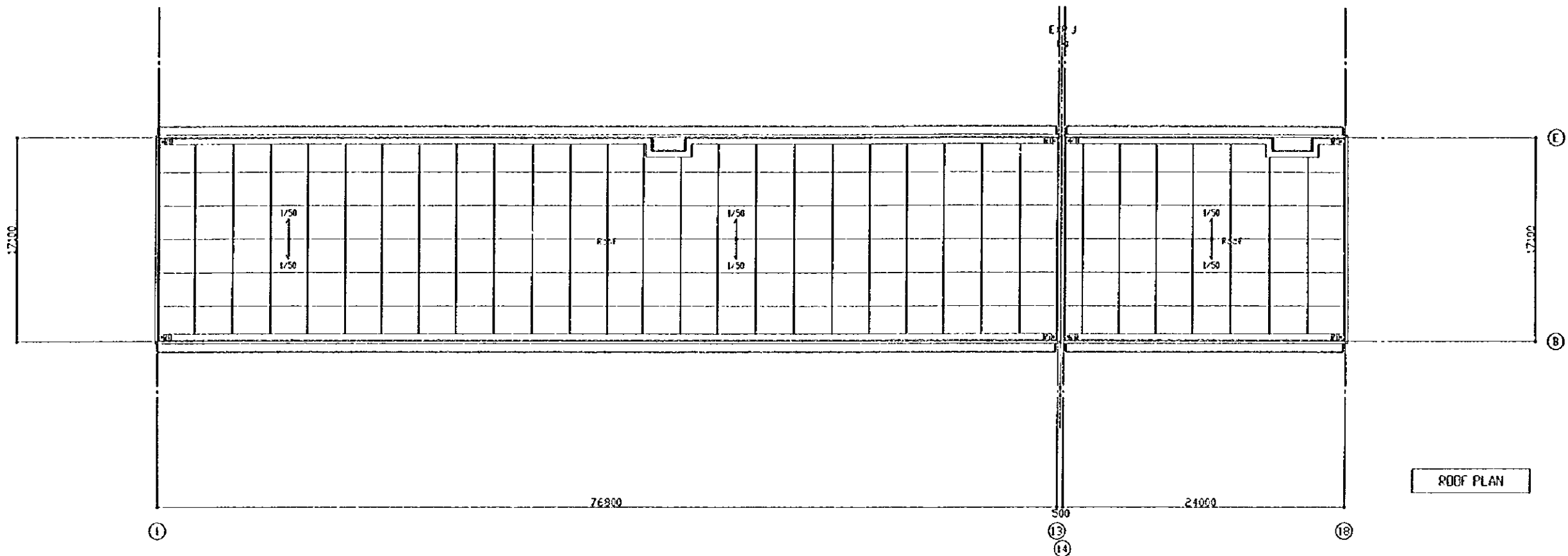
Training Site



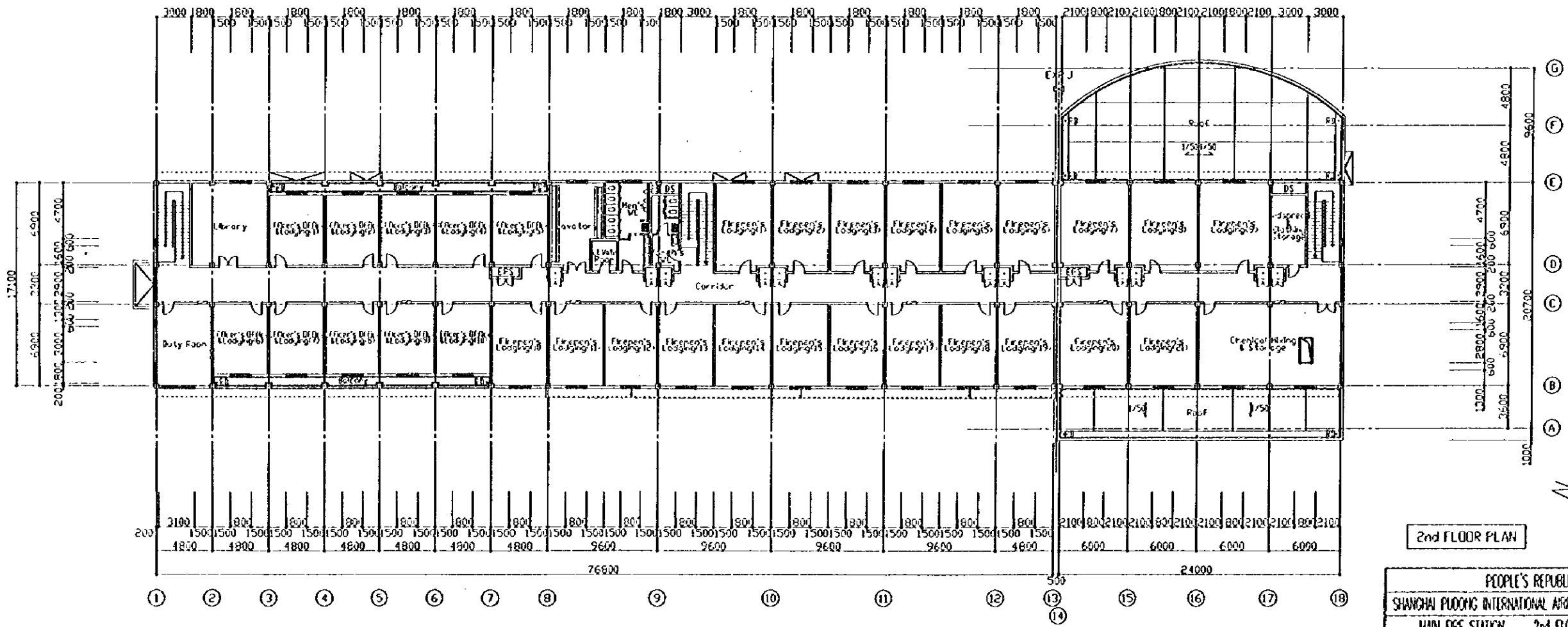
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
MAIN FIRE STATION	1st FLOOR PLAN 1/200
SCALE	DWGA - A2
JAPAN INTERNATIONAL COOPERATION AGENCY	



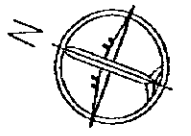
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
MAIN FIRE STATION	2nd FLOOR & ROOF PLAN 1/200
SCALE	DWG - A3
JAPAN INTERNATIONAL COOPERATION AGENCY	



ROOF PLAN



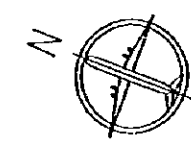
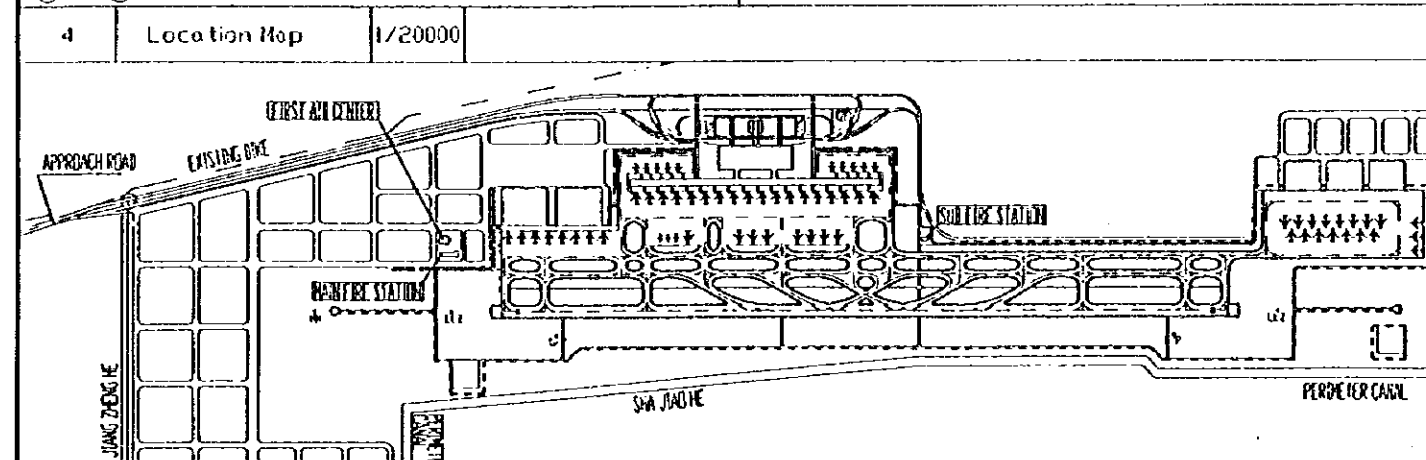
2nd FLOOR PLAN



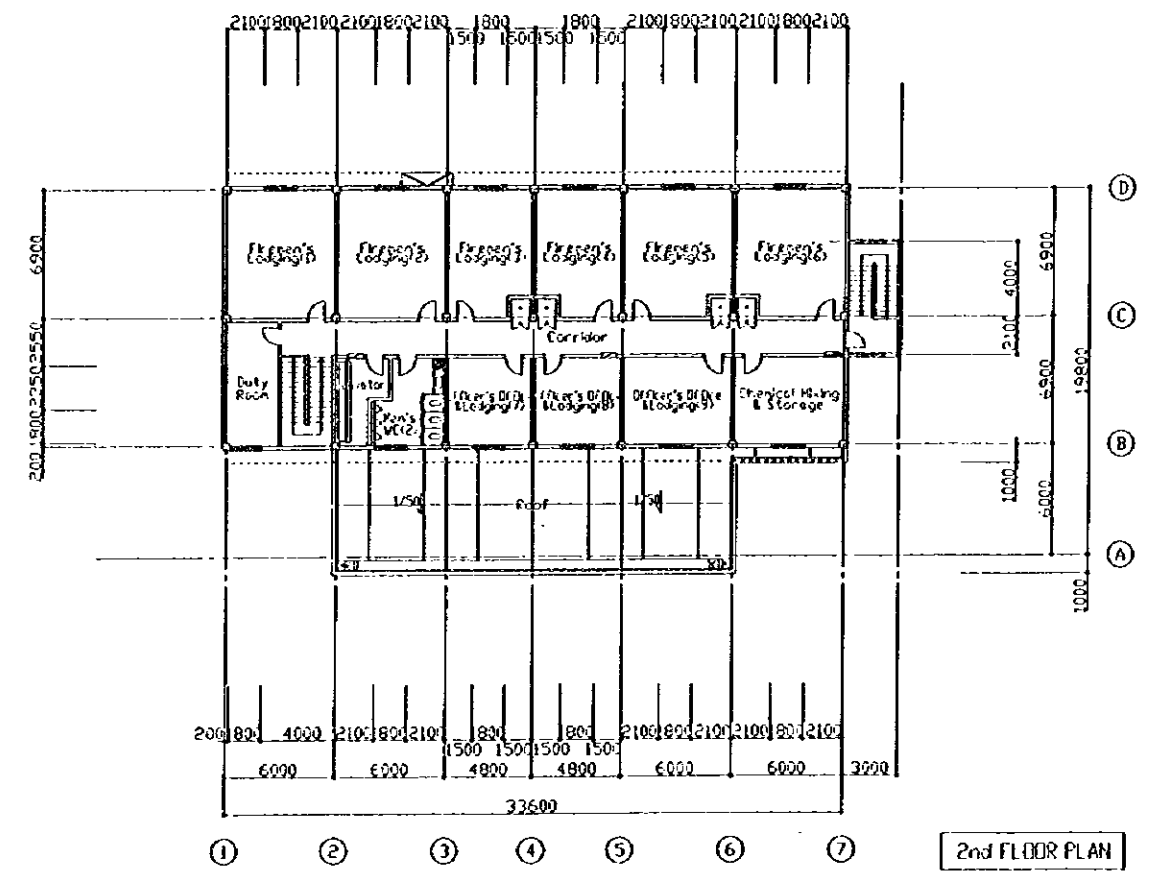
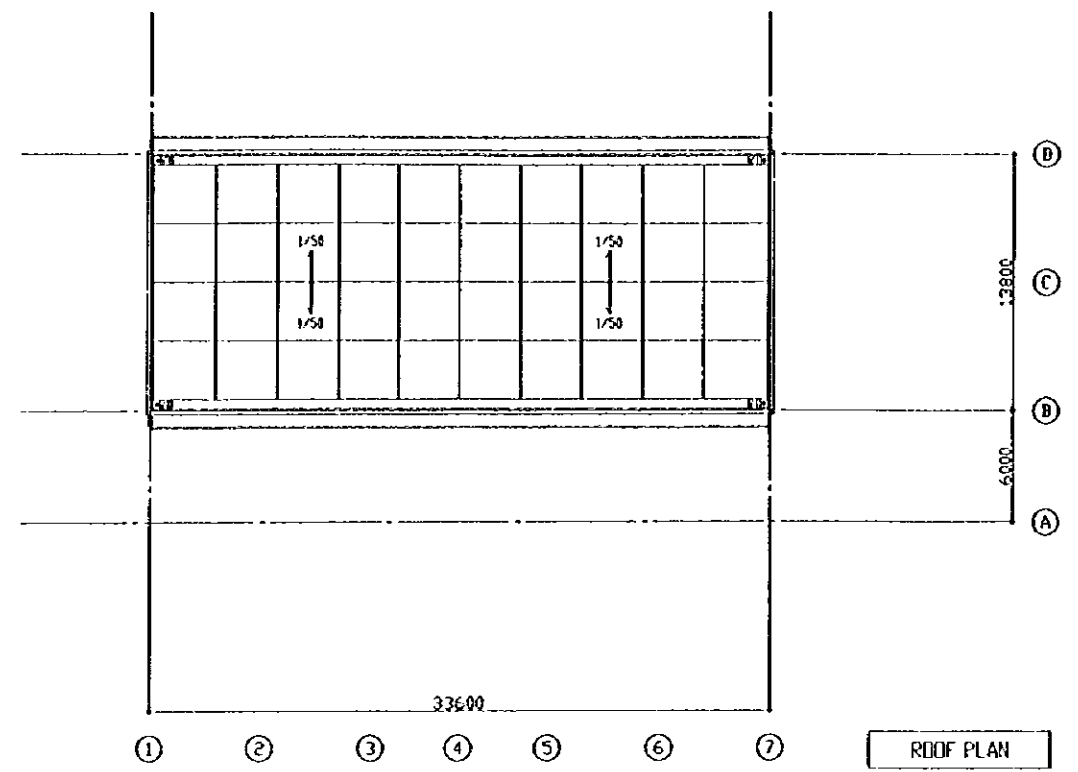
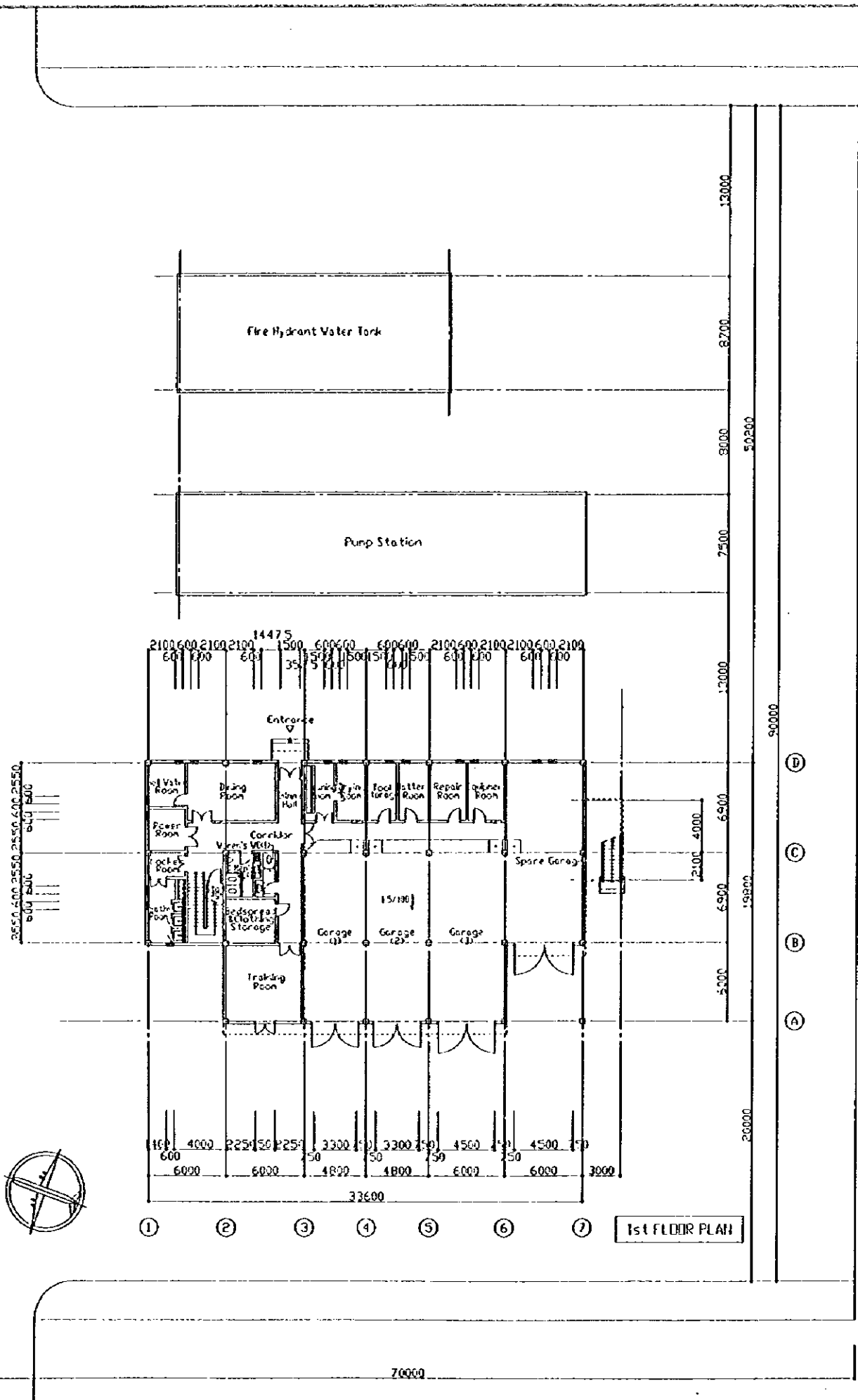
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
MAIN FIRE STATION	2nd FLOOR & ROOF PLAN 1/200
SCALE $1:200$	DWG. - A3
JAPAN INTERNATIONAL COOPERATION AGENCY	

1 General Description		2 Interior Finish Schedule <small>(Ceilings have light weight steel suspension furring unless otherwise noted.)</small>						5 Site Plan	1/500																																																																																																																
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Electrical Work Outline	Sub Station	Power Intake LV 0.4kV Double Line by Overhead Battery and Charger Sub Station Control																																																																																																																							
	Power Distribution	Lighting/Socket Outlet 110V 220V Motor 380V 390V																																																																																																																							
	Others	Conditioning of Telephone Radio Transmitter for Fire Engine Public Address Master TV Systems for Building Intercom System Emergency Call Fire Alarm Medical Grounding																																																																																																																							
Mechanical Work Outline	Heat Source	Hot Water (Accept from DK)																																																																																																																							
	Piping System	Hot Water 2 Pipes System																																																																																																																							
	Air Conditioning System	Radiator Air-Source Packaged Air Conditioning																																																																																																																							
Plumbing Work Outline	Ventilation System	Supply Fan Exhaust Fan System 2sets Exhaust Fan Only 2sets																																																																																																																							
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	Water Supply System	Direct Supply System																																																																																																																							
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3 Area Schedule		1/800
1st Floor area		2nd Floor area
① 33760 x 13980	- 2115 x 1290	- 469516
② 21780 x 6000		- 130680
① + ②		- 600196 m ²
		600196 + 472244
		- 1072440 m ²



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
SUB FIRE STATION GENERAL DESCRIPTION, SITE PLAN	
SCALE	DNCA - AS
JAPAN INTERNATIONAL COOPERATION AGENCY	



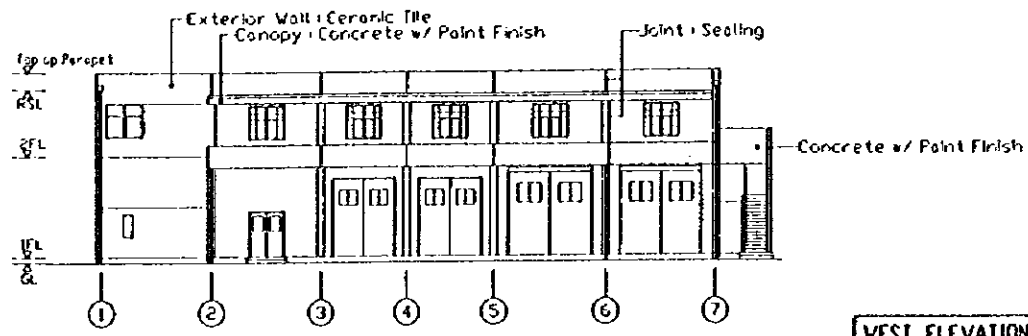
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
SUB FIRE STATION 1st, 2nd FLOOR & ROOF PLAN 1/200	
SCALE 1:25	DWG - A6
JAPAN INTERNATIONAL COOPERATION AGENCY	

ELEVATION

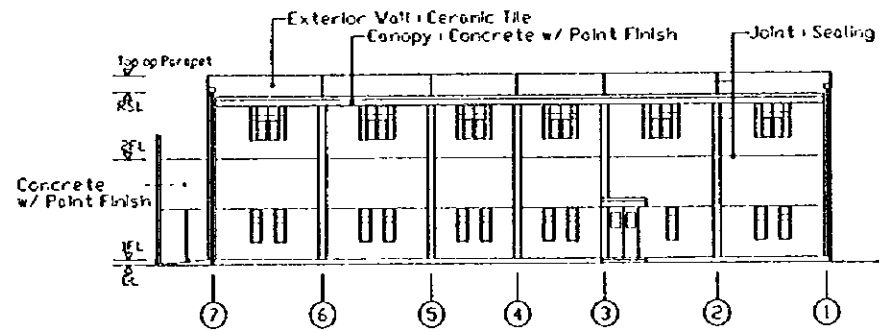
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SECTION

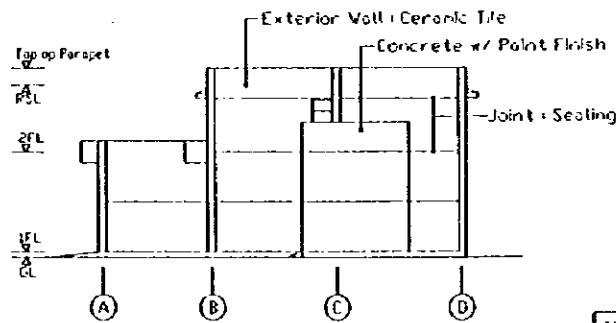
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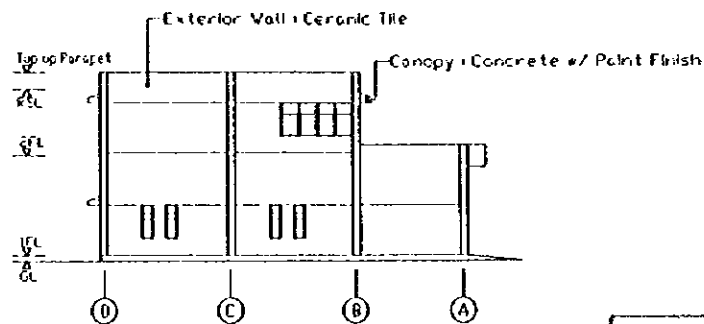
WEST ELEVATION



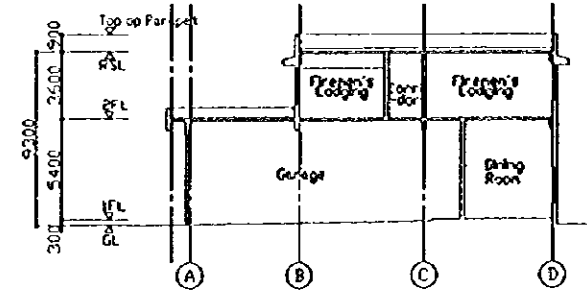
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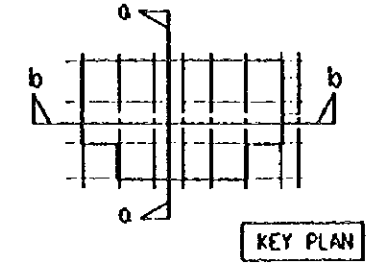
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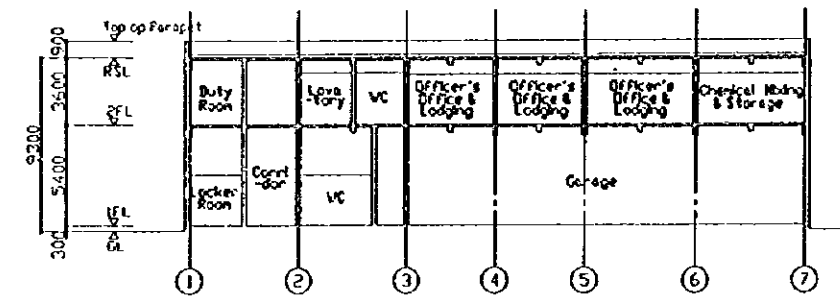
SOUTH ELEVATION



SECTION a-a



KEY PLAN

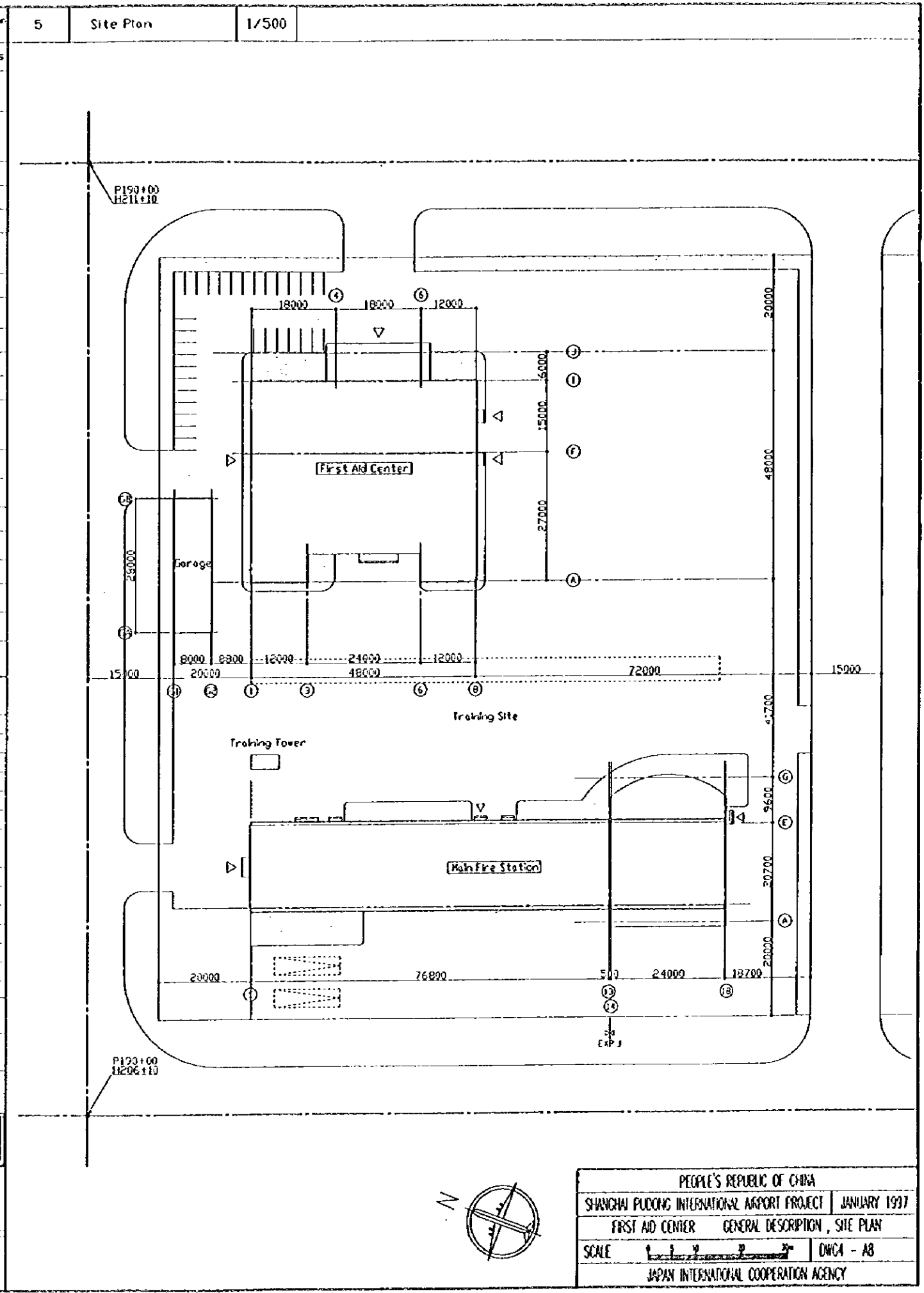
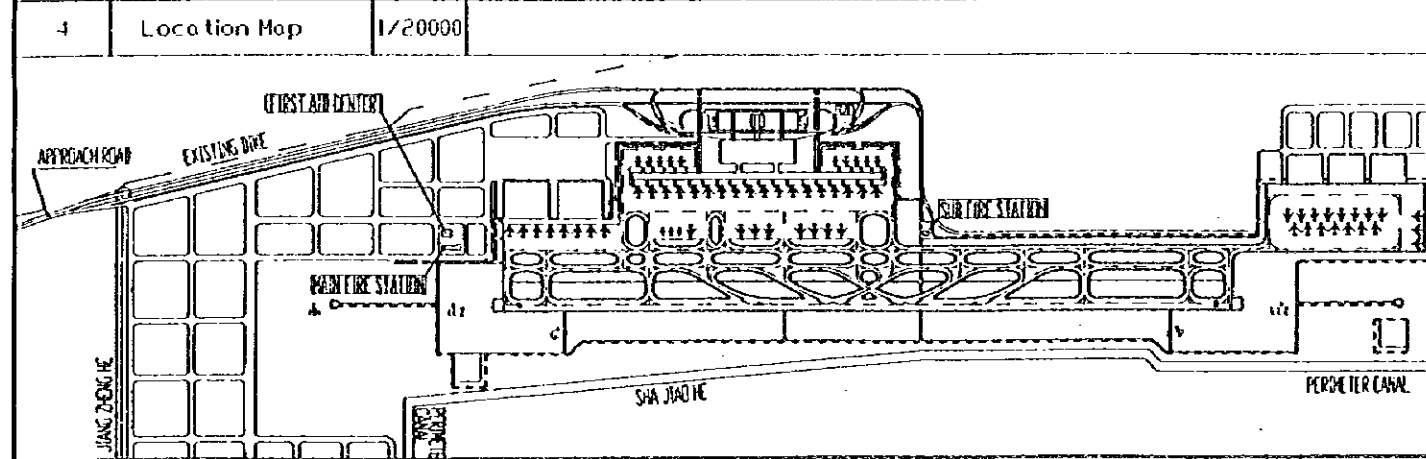


SECTION b-b

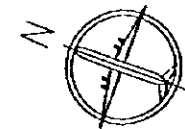
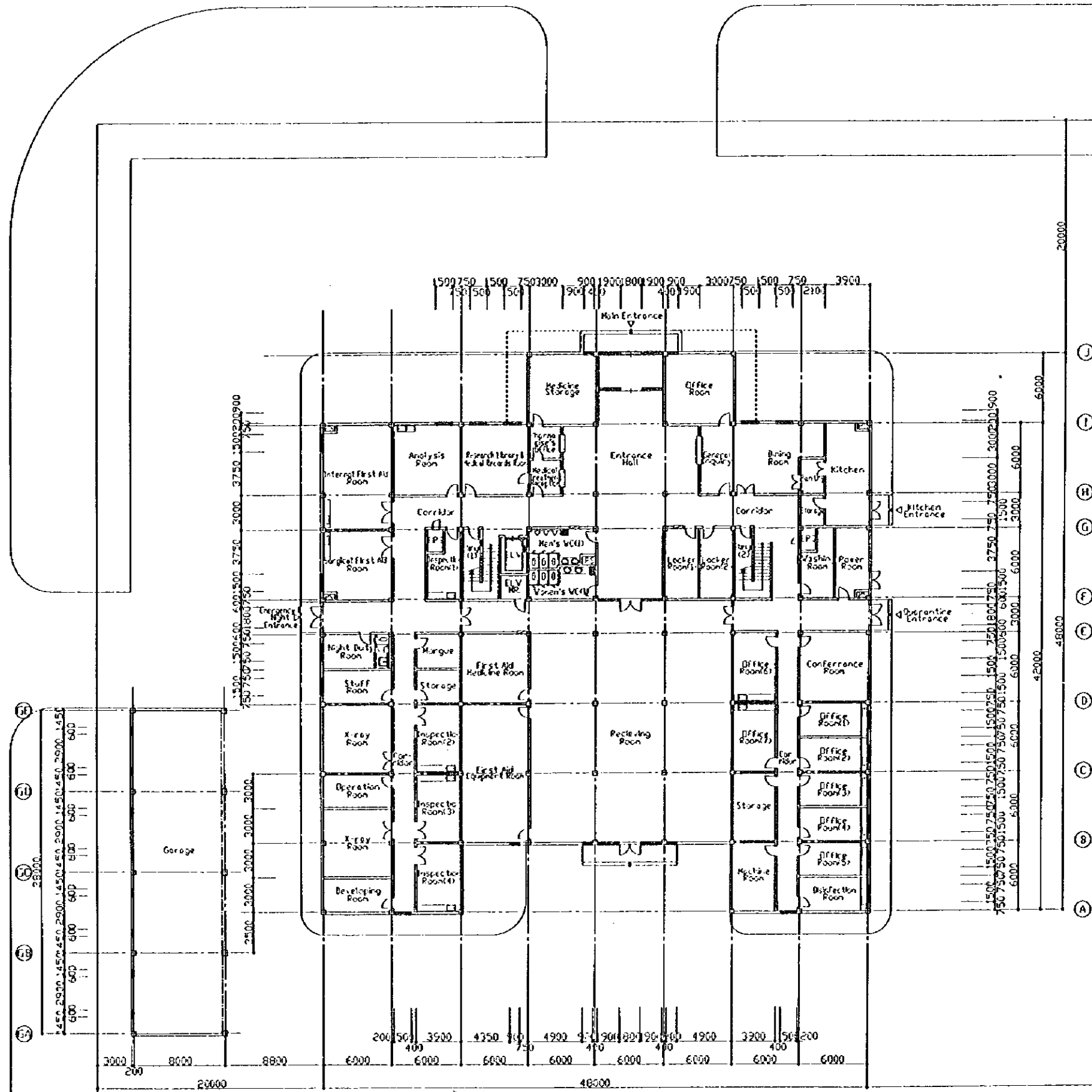
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
SUB FIRE STATION	ELEVATION SECTION 1/200
SCALE 1:200	CWCA - A7
JAPAN INTERNATIONAL COOPERATION AGENCY	

1 General Description		2 Interior Finish Schedule					5 Site Plan																																																																																																												
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Garage	2nd	Frosted Concrete w/ Hardener	Concrete Lip	Unfinished Concrete	Unfinished Concrete																																																																																																														
Site Area	1,998,392 m ²																																																																																																																		
Building Title	Shanghai Pudong International Airport First Aid Center																																																																																																																		
Main Structure	Steel Reinforced Concrete Frame																																																																																																																		
Foundations	Steel Reinforced Concrete Continuous Footing																																																																																																																		
Number of Stories	Two stories above ground level																																																																																																																		
Height	Max Height	SGL+ 8.8 M																																																																																																																	
	Ground Level	SGL+ M																																																																																																																	
	Level of Footing Bottom	SGL+ M																																																																																																																	
Building Area	1st Floor	1,998,392 m ²																																																																																																																	
	2nd Floor	731,372 m ²																																																																																																																	
	Garage	227,976 m ²																																																																																																																	
	Total Floor Area	2,957,740 m ²																																																																																																																	
Principal Exterior Finishes	Roof	Built-up Asphalt Roofing w/Concrete cover																																																																																																																	
	Exterior Wall	Ceramic Tile and Concrete w/Point Finish																																																																																																																	
	Exterior Joinery	Secondary Electrolytic coated Aluminum Sashes, Salting Stainless Steel Frame Doors w/Point Finish, Sliding Tempered Glass Door																																																																																																																	
	Floor	Mortar w/Floor Coating, Marble Finish																																																																																																																	
Principal Interior Finishes	Wall	Mortar w/Emulsion Paint Finish																																																																																																																	
	Ceiling	Acoustic Board																																																																																																																	
	Power Intake	LV 0.4kV Double Line by Overhead																																																																																																																	
Electrical Work Outline	Power Distribution	Lighting/Socket Outlet 142V 220V																																																																																																																	
	Others	Motor 380V 380V, Conditioning of Telephone, Radio, Transmitter for Fire Engine, Public Address, Master TV Systems for Building, Intercom System, Emergency Call, Fire Alarm, Medical Grounding, Chilled Water/Hot Water (Accept from DHC)																																																																																																																	
Mechanical Work Outline	Heat Source	Chilled Water/Hot Water (Accept from DHC)																																																																																																																	
	Piping System	Chilled Water/Hot Water 2Pipes System																																																																																																																	
	Air Conditioning System	Fan Coil Unit + Heat Exchanging Type Fan																																																																																																																	
	Ventilation System	Supply Fan + Exhaust Fan System, Sets, Exhaust Fan Only, Sets																																																																																																																	
Plumbing Work Outline	Water Supply System	Direct Supply System																																																																																																																	
	Hot Water Distribution System	Fitchin LPG Gas Fired Water Heater																																																																																																																	
	Drainage System	Others: Electric Water Heater																																																																																																																	
	Fire Protection System	Gravity Flow, Indoor Fire Hydrant System																																																																																																																	

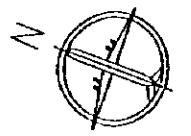
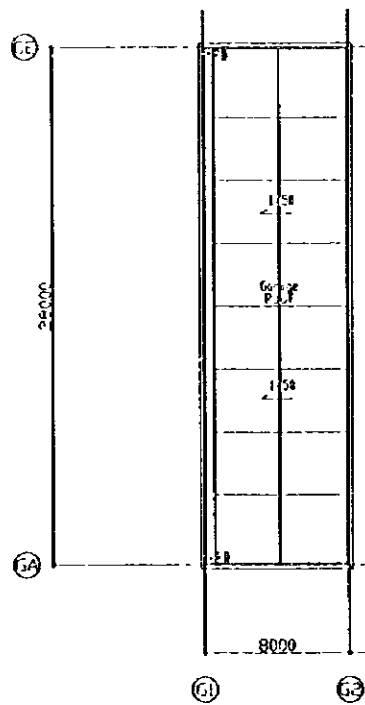
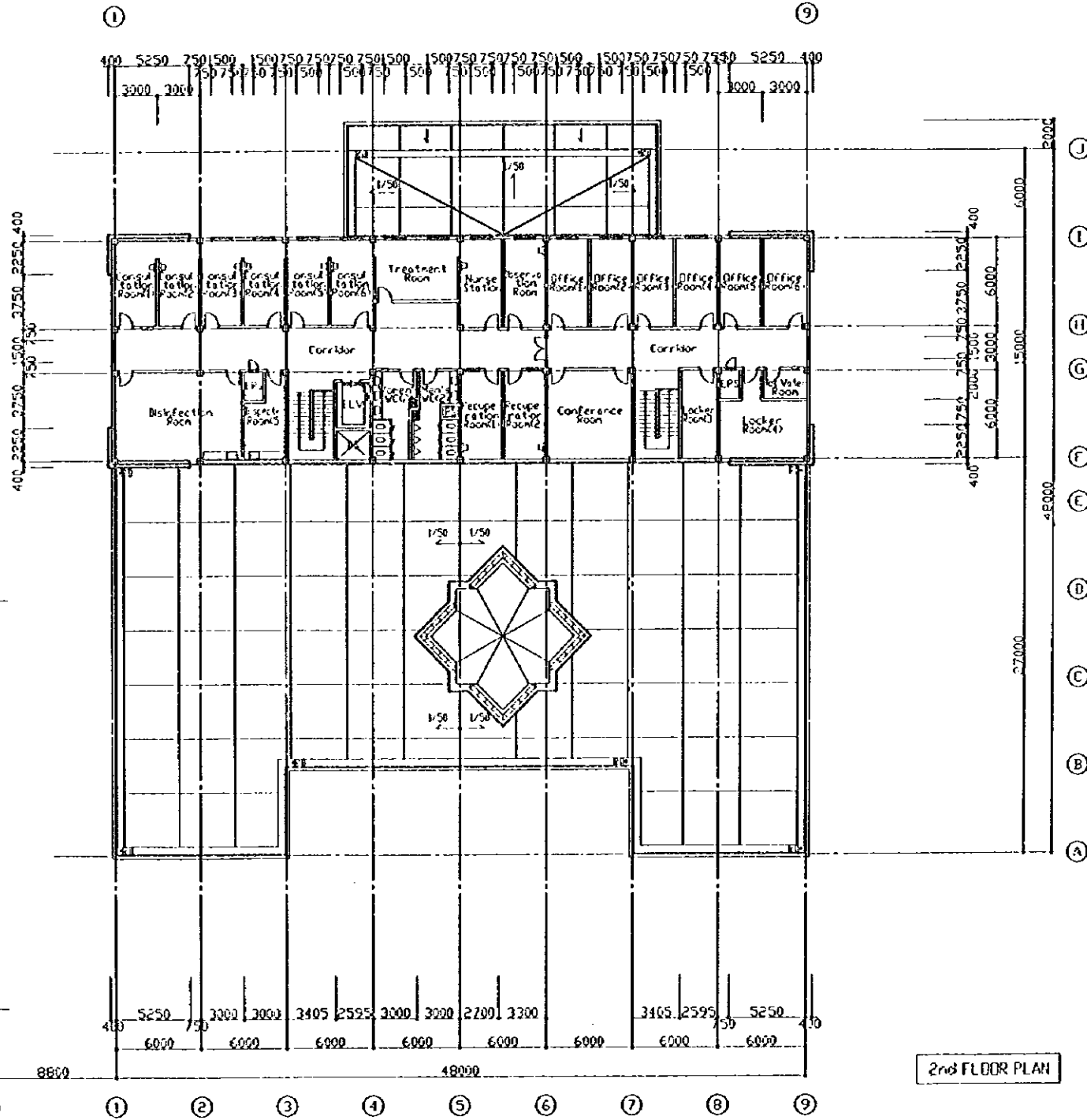
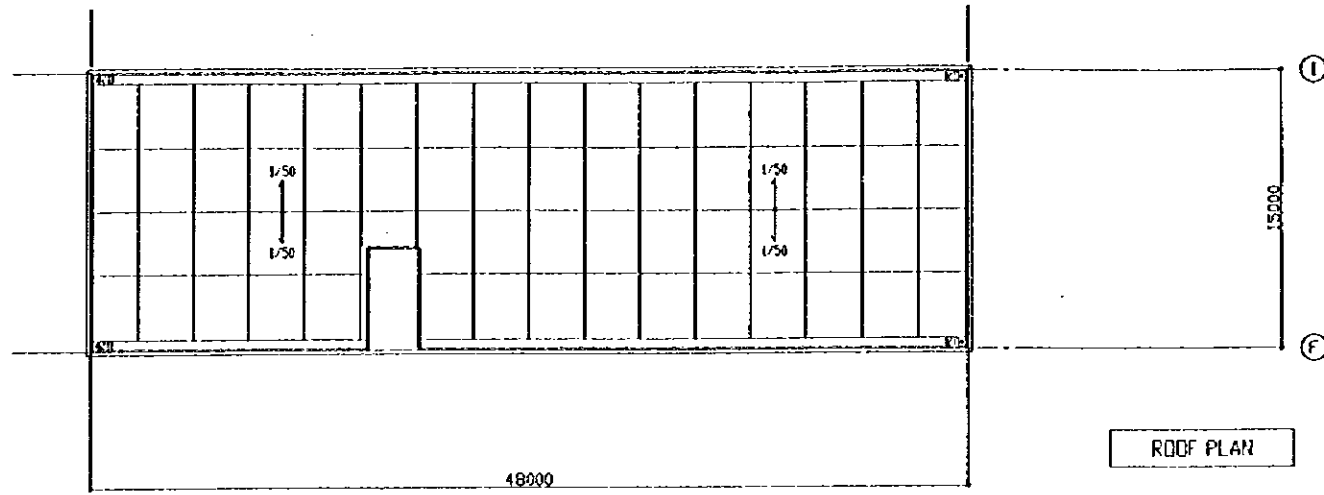
3 Area Schedule		1/800
	1st Floor area	
	① 18180 x 6000	= 109,080
	② 48180 x 36180	= 1,743,152
	③ 12180 x 6000 x 2	= 146,160
	① + ② + ③	= 1,998,392 m ²
	2nd Floor area	
	① 48180 x 15180	= 731,372 m ²
	Garage area	
	⑥ 8090 x 28180	= 227,976
	Total Floor area	1,998,392 + 731,372 + 227,976 = 2,957,740 m ²



PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT JANUARY 1997
 FIRST AID CENTER GENERAL DESCRIPTION, SITE PLAN
 SCALE 1:2000 DWG4 - A8
 JAPAN INTERNATIONAL COOPERATION AGENCY

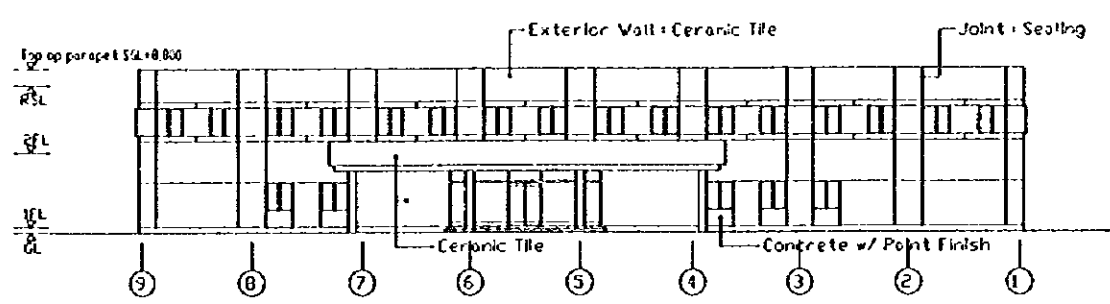


PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
FIRST AID CENTER	1st FLOOR PLAN 1/200
SCALE 1:200	DWGA - A3
JAPAN INTERNATIONAL COOPERATION AGENCY	

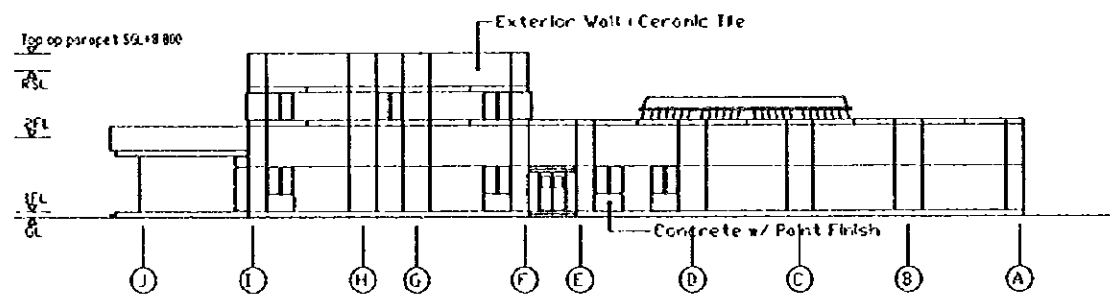


PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
FIRST AID CENTER	2nd FLOOR & ROOF PLAN 1/200
SCALE	DWGA - A10
JAPAN INTERNATIONAL COOPERATION AGENCY	

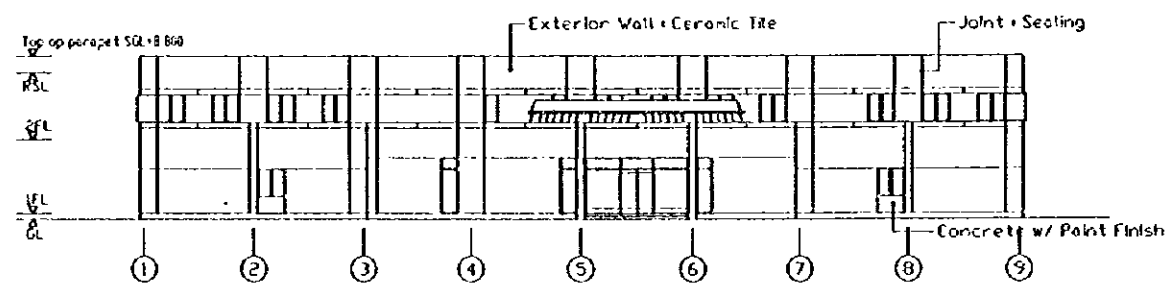
ELEVATION 1/200



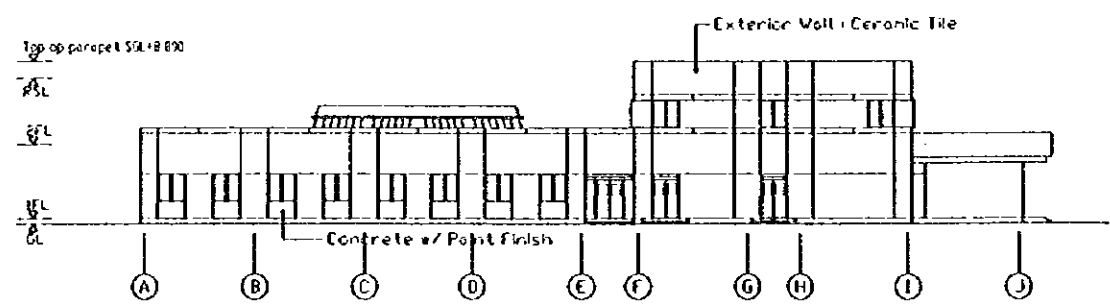
EAST ELEVATION



NORTH ELEVATION

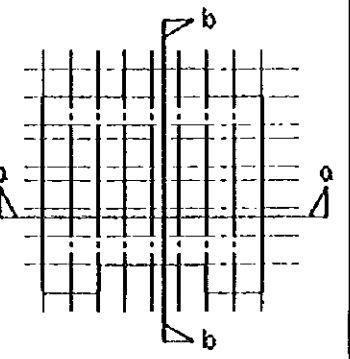
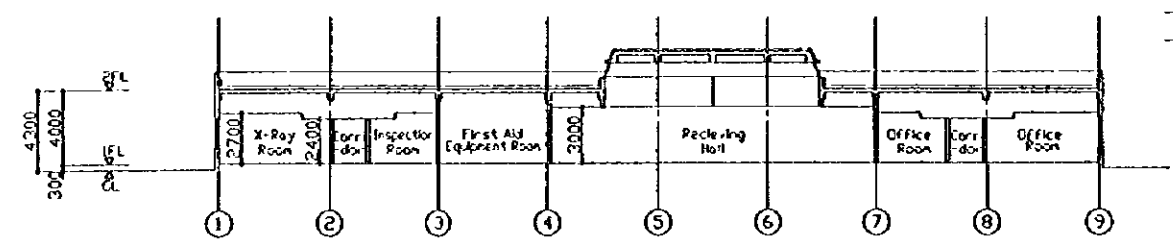


WEST ELEVATION



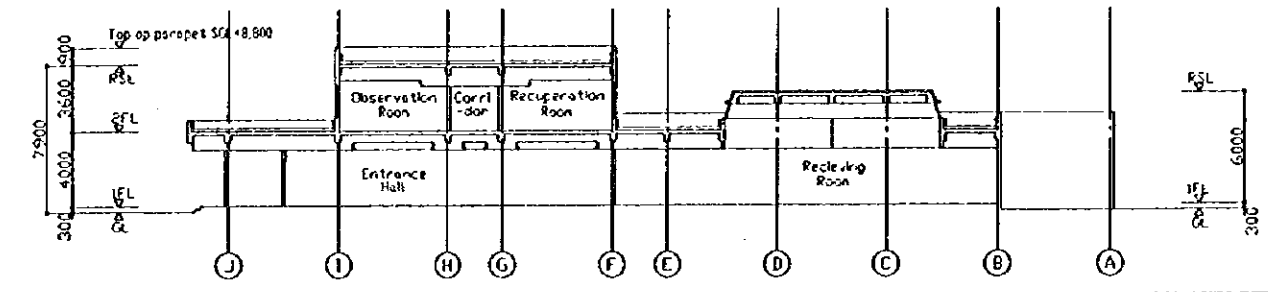
SOUTH ELEVATION

SECTION 1/200



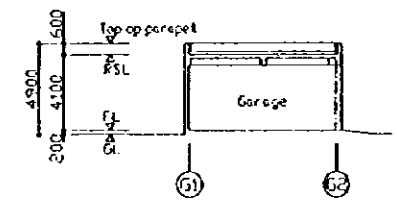
KEY PLAN

SECTION a-a

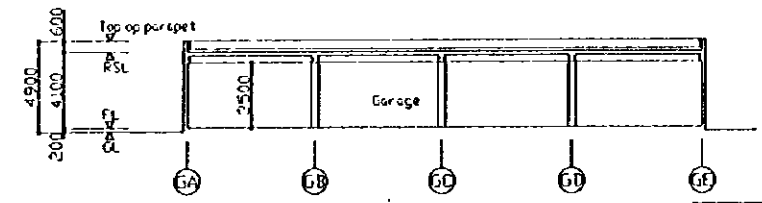


SECTION b-b

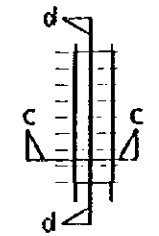
Garage SECTION, ELEVATION 1/200



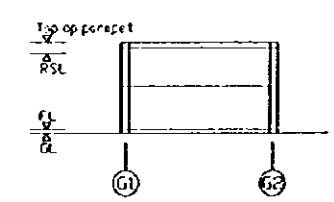
SECTION c-c



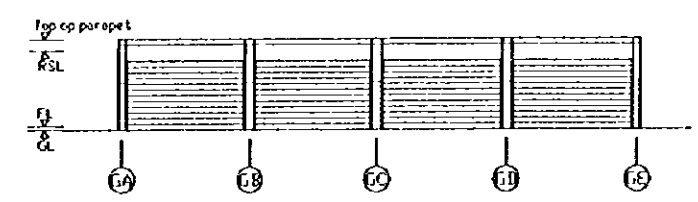
SECTION d-d



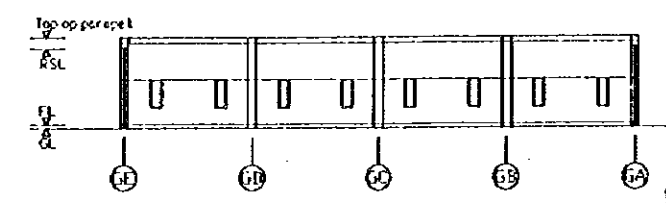
KEY PLAN



EAST & WEST ELEVATION

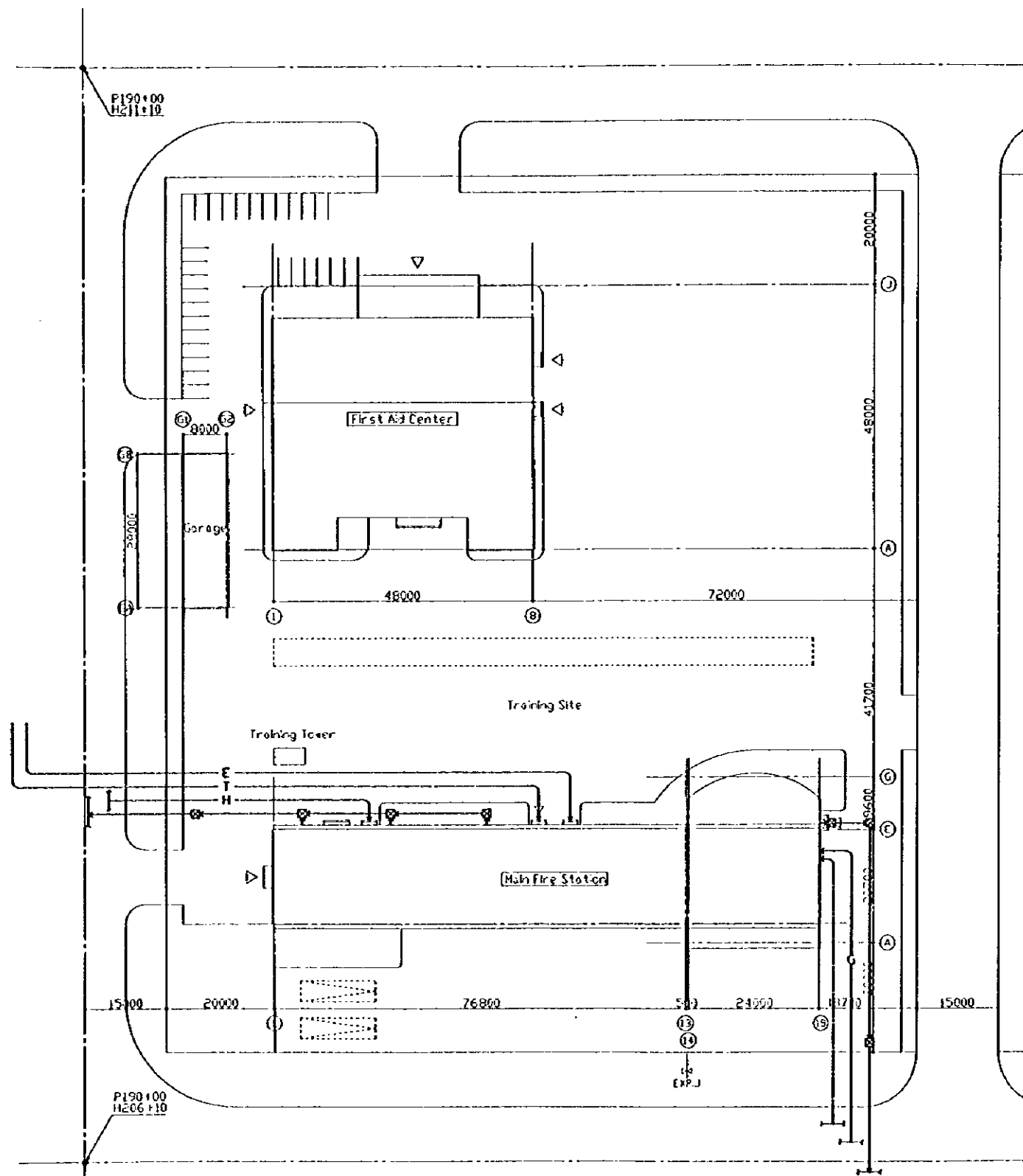


SOUTH ELEVATION

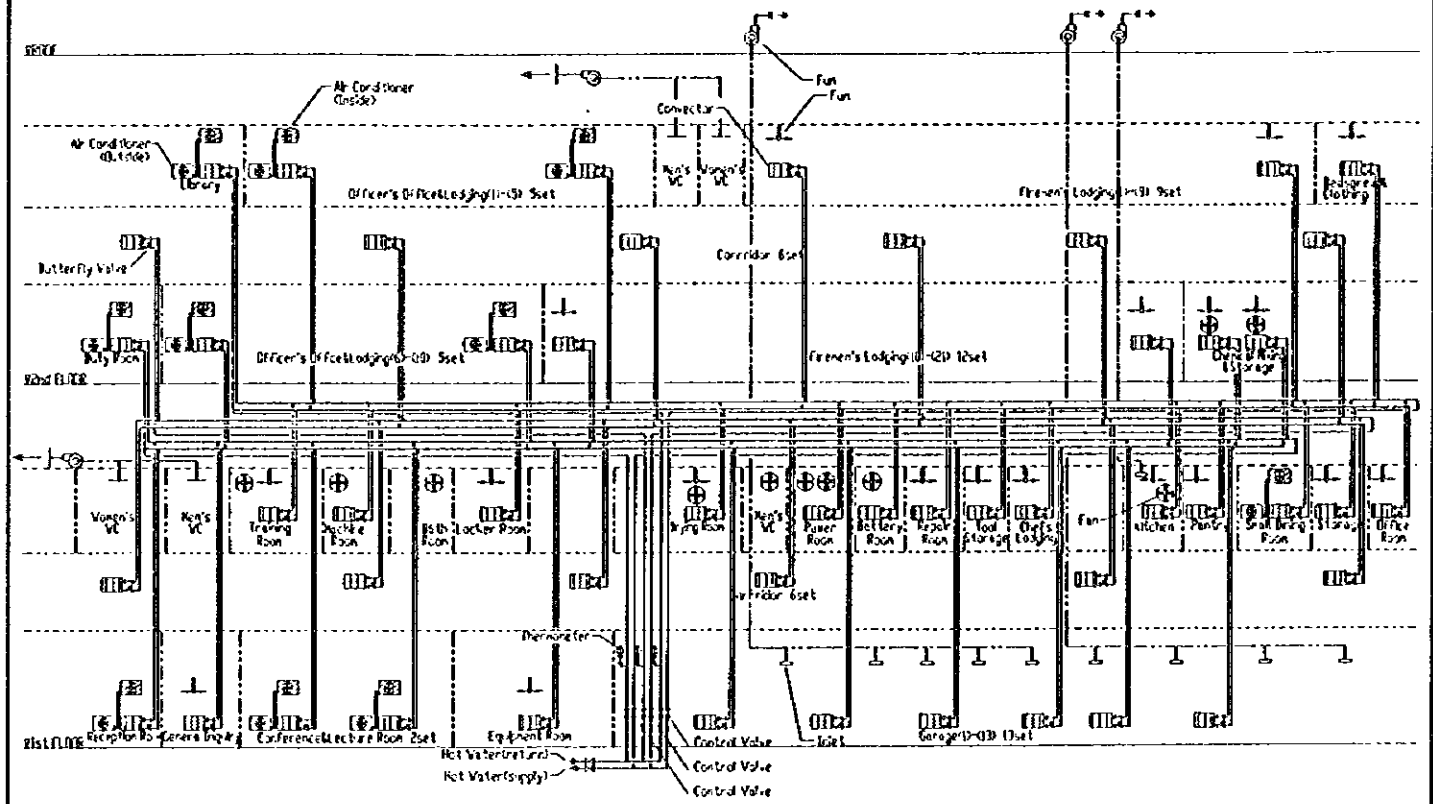
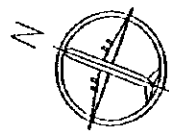


NORTH ELEVATION

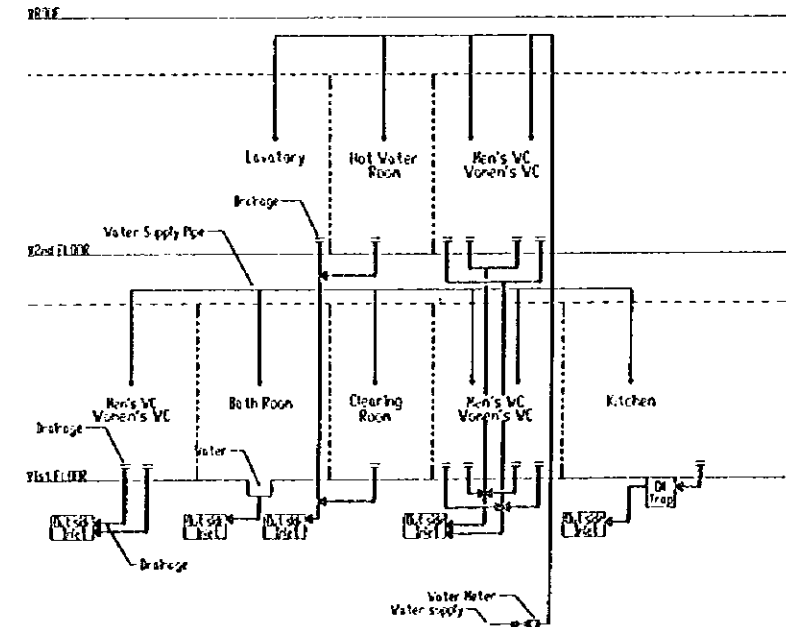
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
FIRST AID CENTER	ELEVATION SECTION 1/200
SCALE 1:200	DNCA - A11
JAPAN INTERNATIONAL COOPERATION AGENCY	



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 - CH- Heat Source
 - D- Drainage
 - E- Electric Power
 - T- Information/Telephone

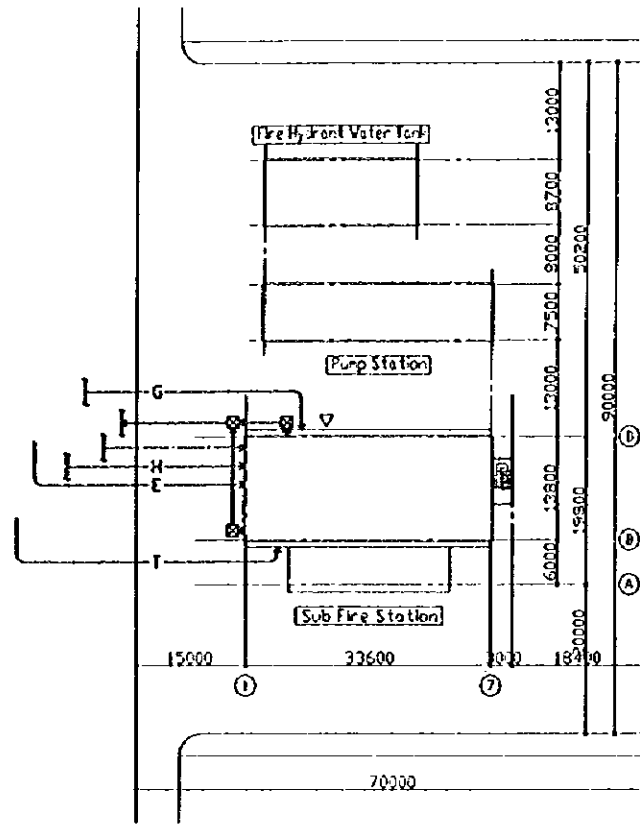


HVAC SYSTEM PLAN MAIN FIRE STATION

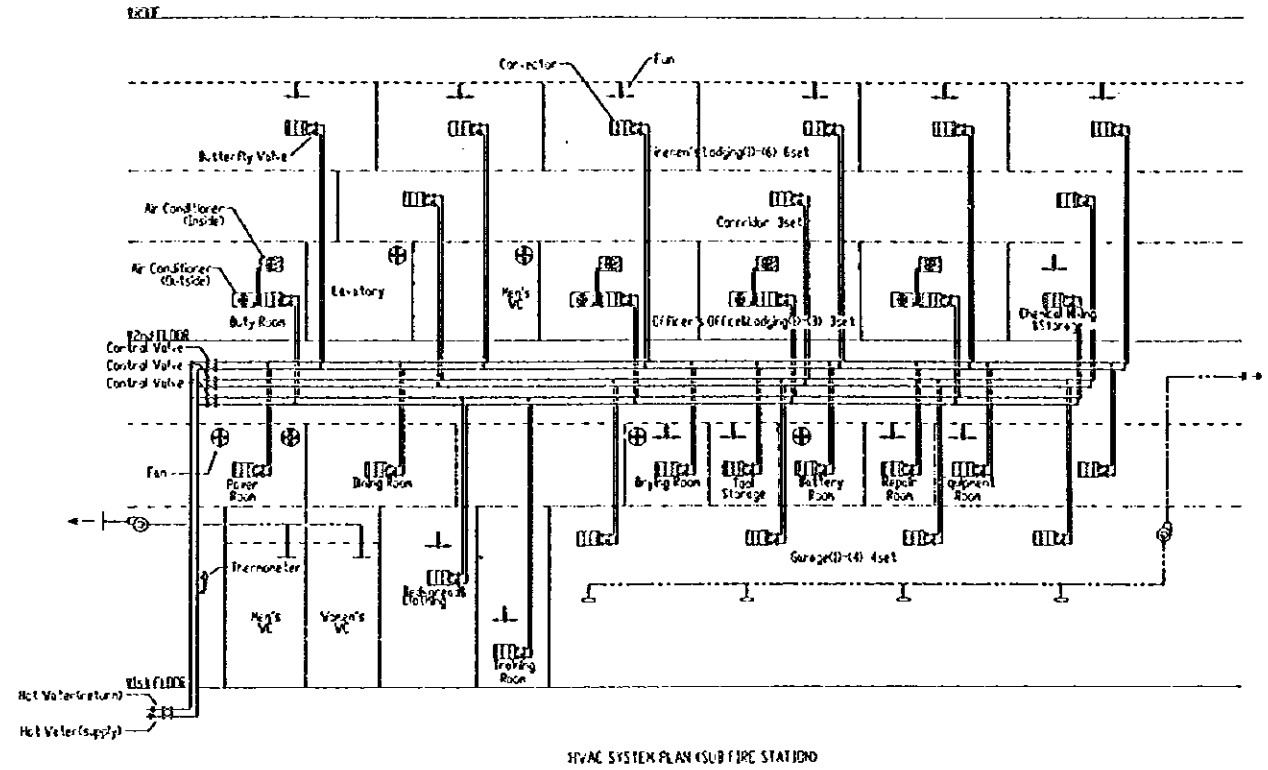
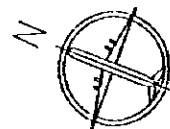


SANITARY DRAINAGE SYSTEM PLAN MAIN FIRE STATION

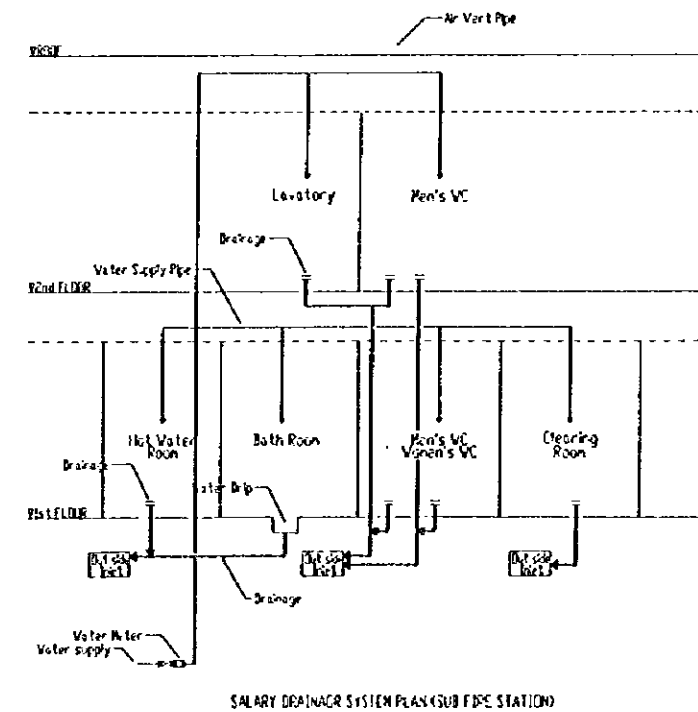
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
MAIN FIRE STATION SCHEMATIC DIAGRAM	
SCALE	1:1000 DWG - M1
JAPAN INTERNATIONAL COOPERATION AGENCY	



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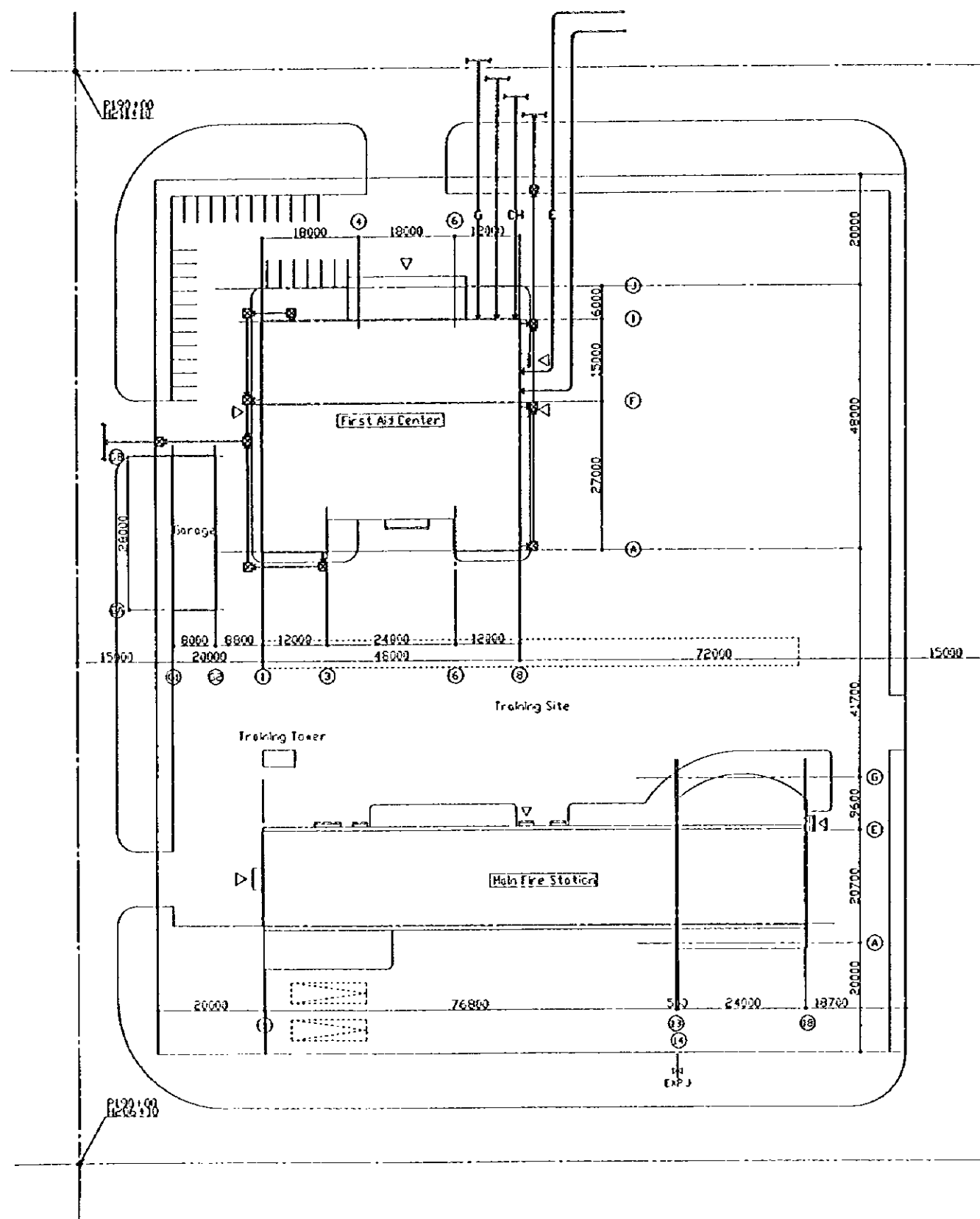


SPVAC SYSTEM PLAN (SUB FIRE STATION)

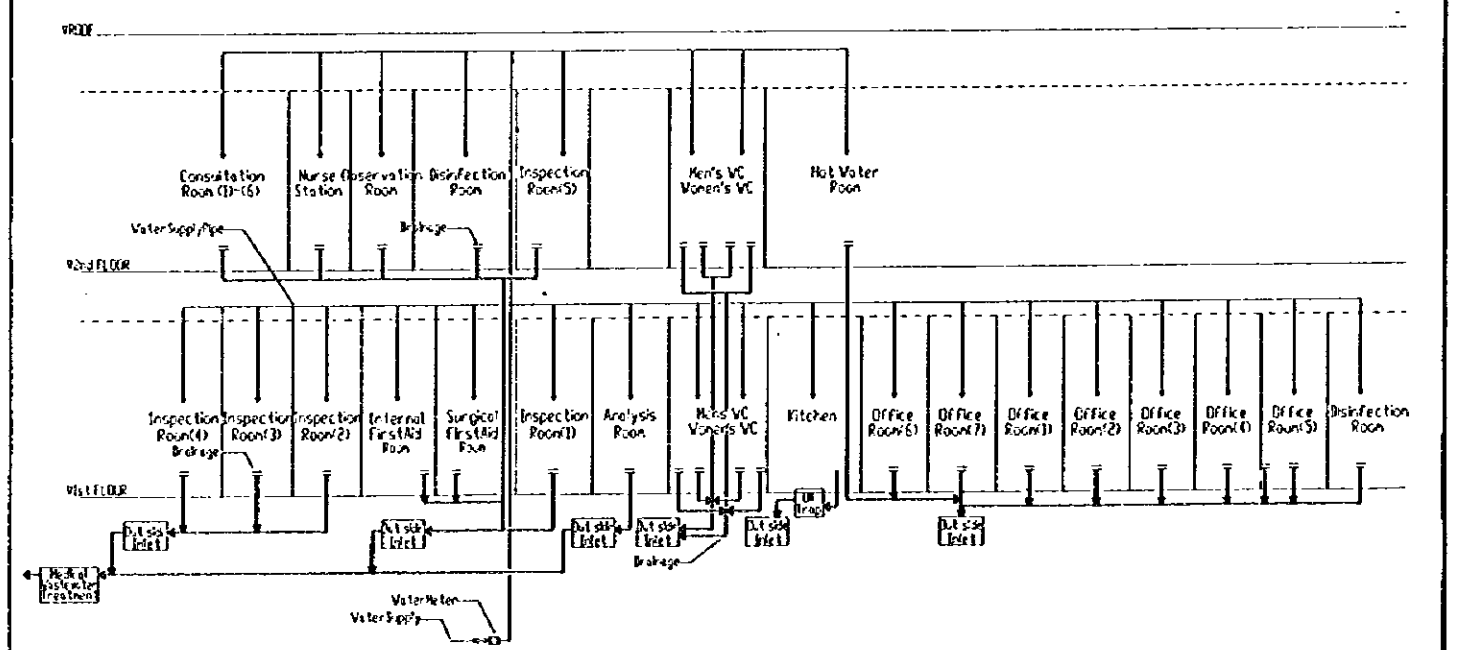
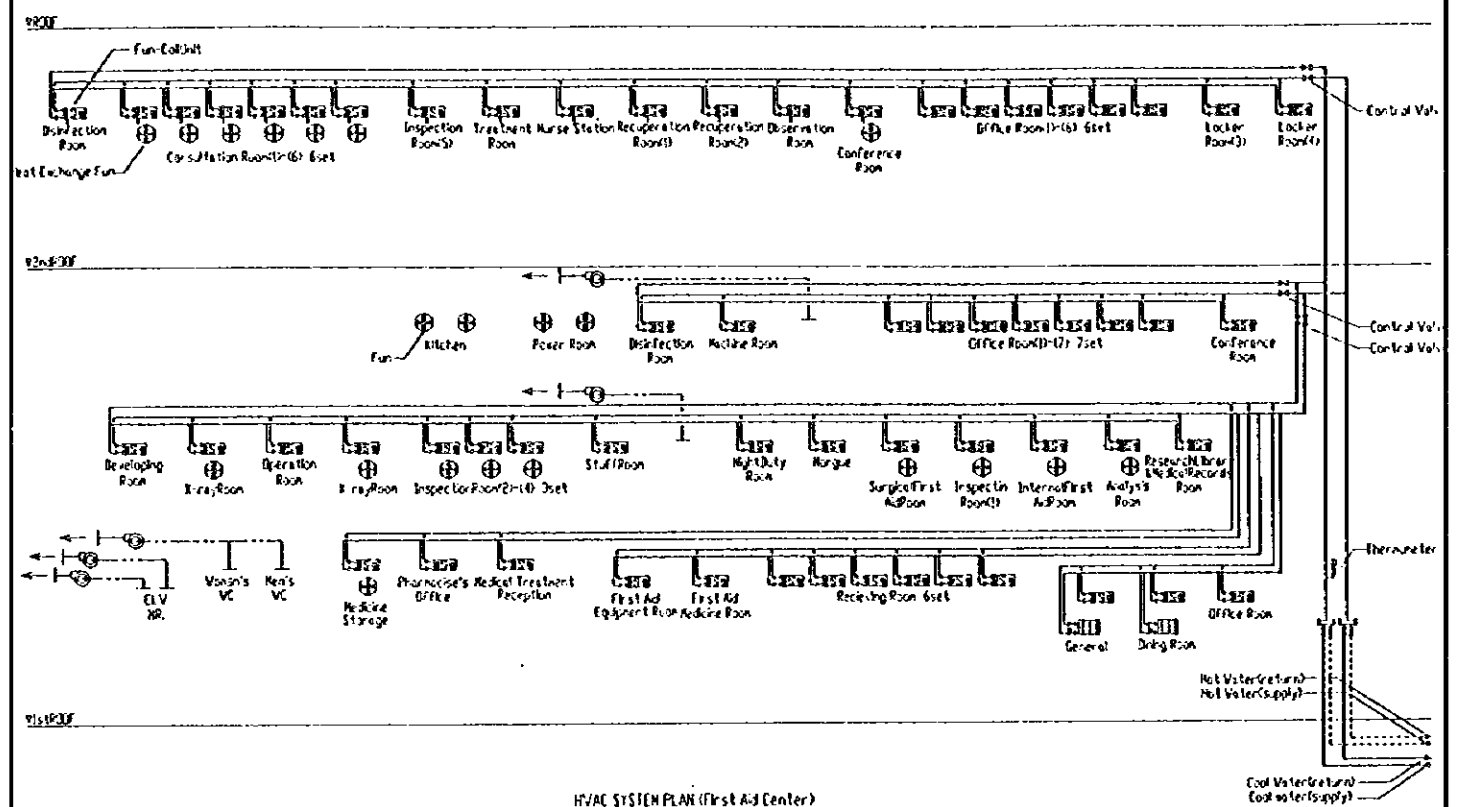
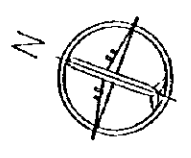


SALARY DRAINAGE SYSTEM PLAN (SUB FIRE STATION)

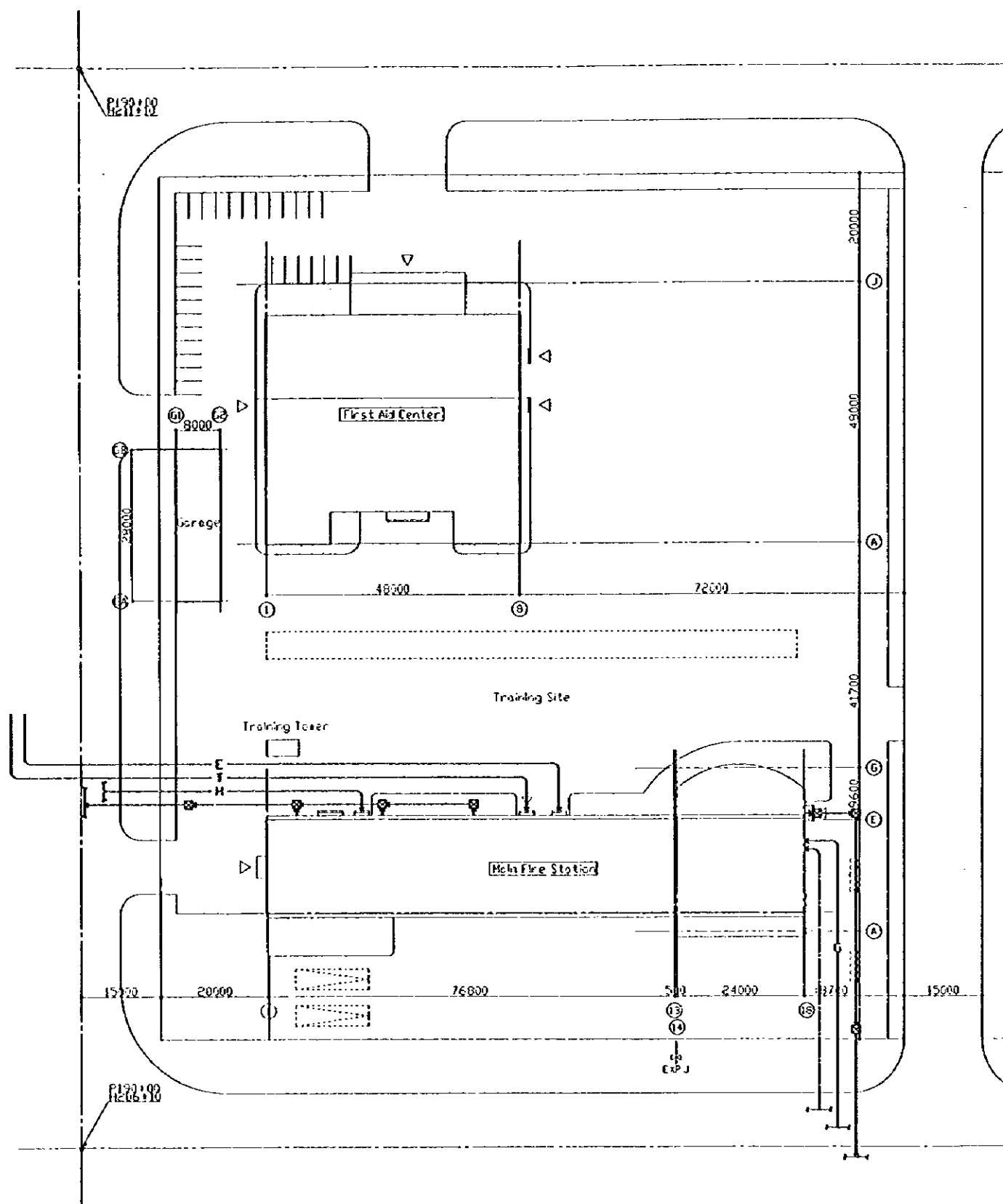
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SUB FIRE STATION SCHEMATIC DIAGRAM	
SCALE	1:500 DWG - V2
JAPAN INTERNATIONAL COOPERATION AGENCY	



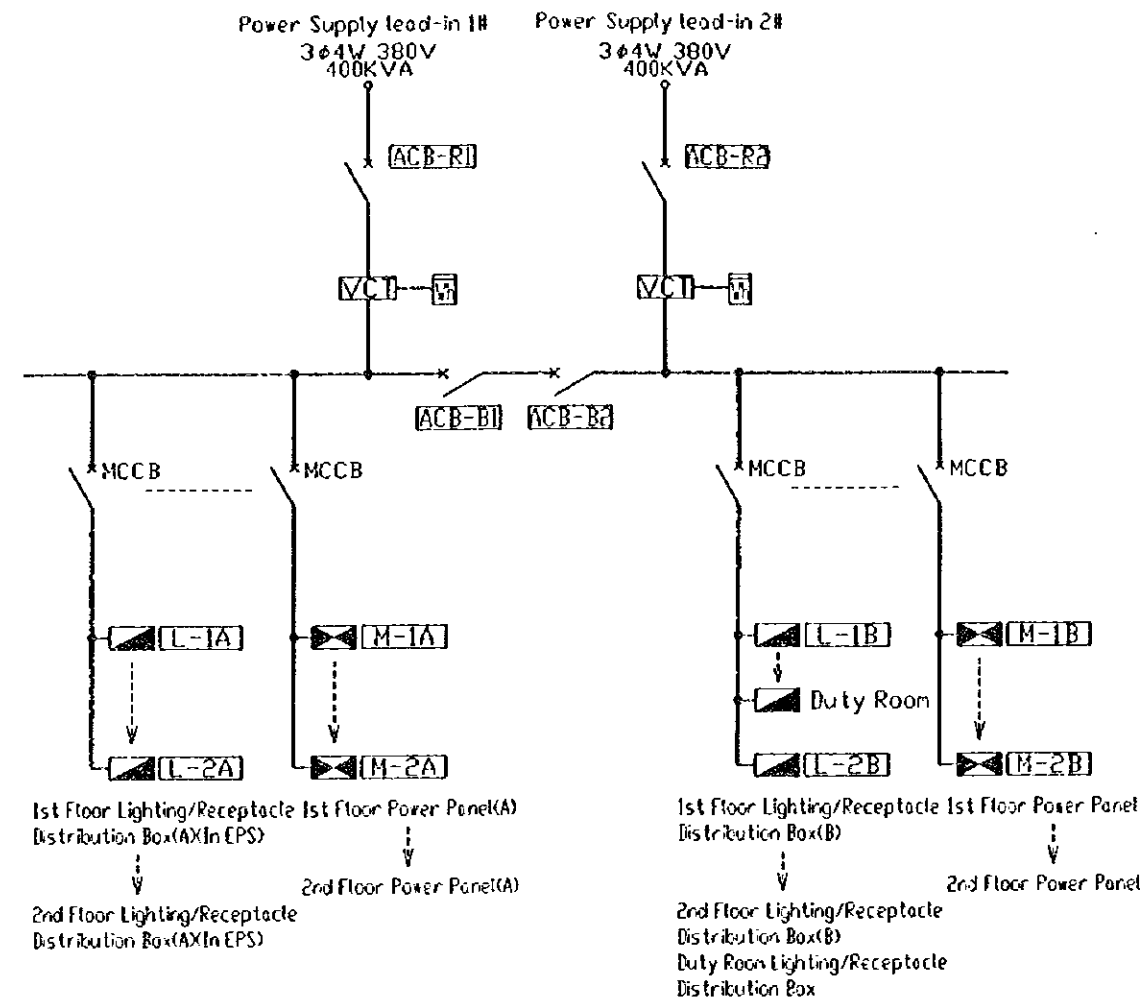
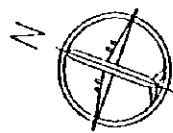
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PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
FIRST AID CENTER SCHEMATIC DIAGRAM	
SCALE	DNCA - M3
JAPAN INTERNATIONAL COOPERATION AGENCY	



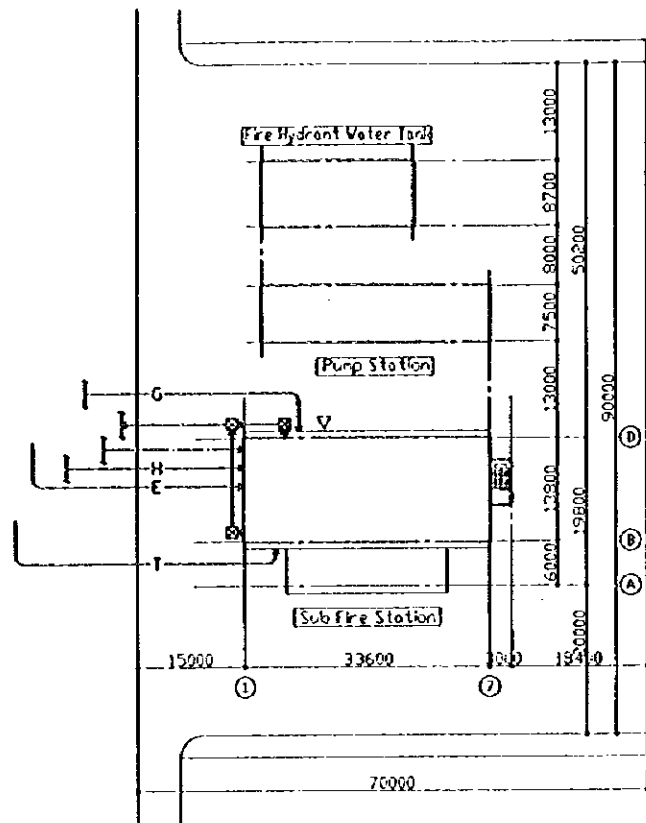
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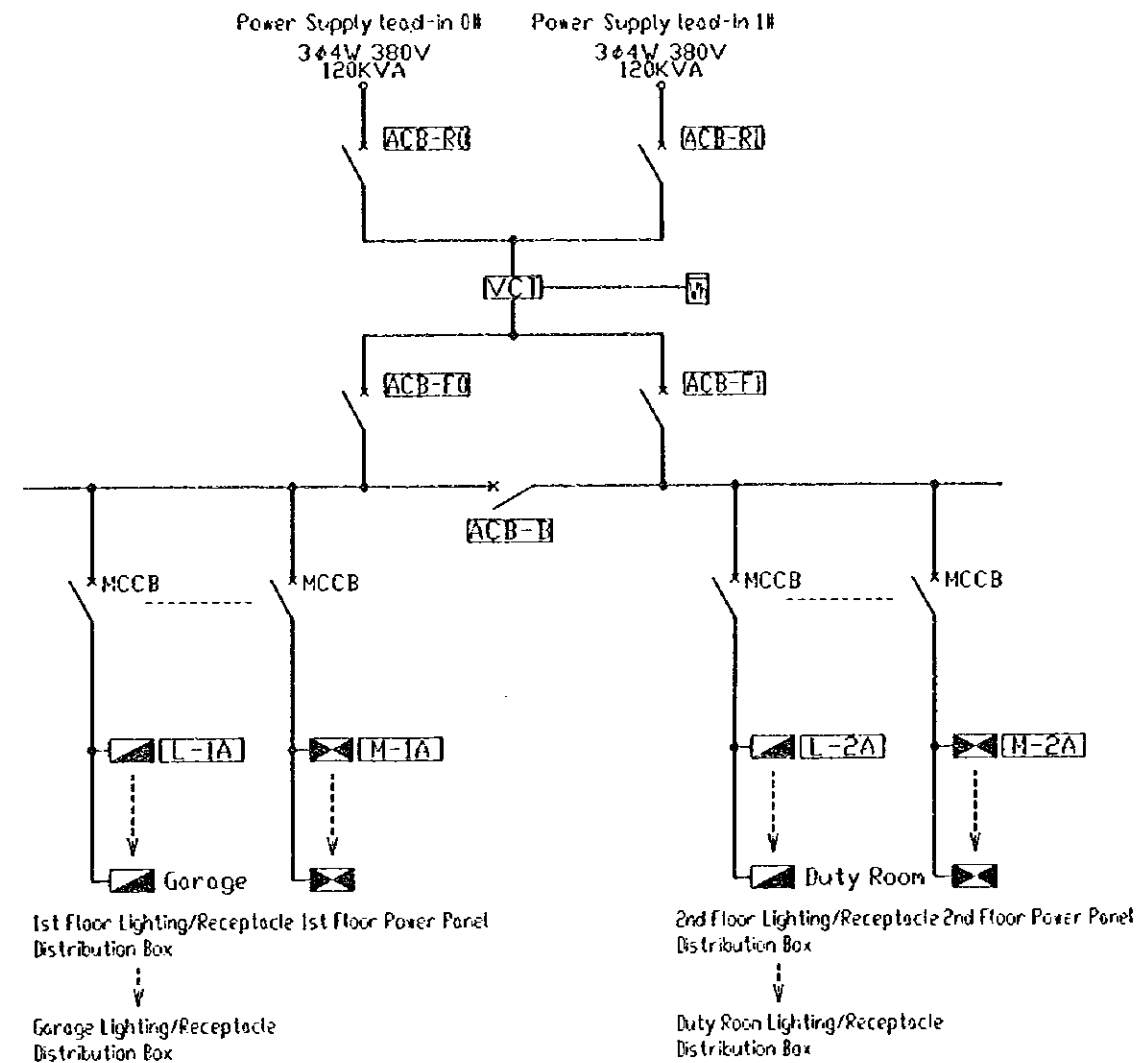
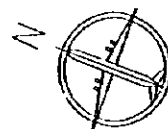
Power Supply System Diagram

SYMBOL	DESIGNATION
ACB	Air Circuit Breaker
MCCB	Molded-Case Circuit Breaker
VCT	Combined Voltage and Circuit Transformer
W	Watt-hour Meter
□	Lighting/Receptacle Distribution Box
▭	Power Panel

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
MAN FIRE STATION	SITE PLAN 1/500, POWER SUPPLY SYSTEM
SCALE	1:1000 DWG-E1
JAPAN INTERNATIONAL COOPERATION AGENCY	



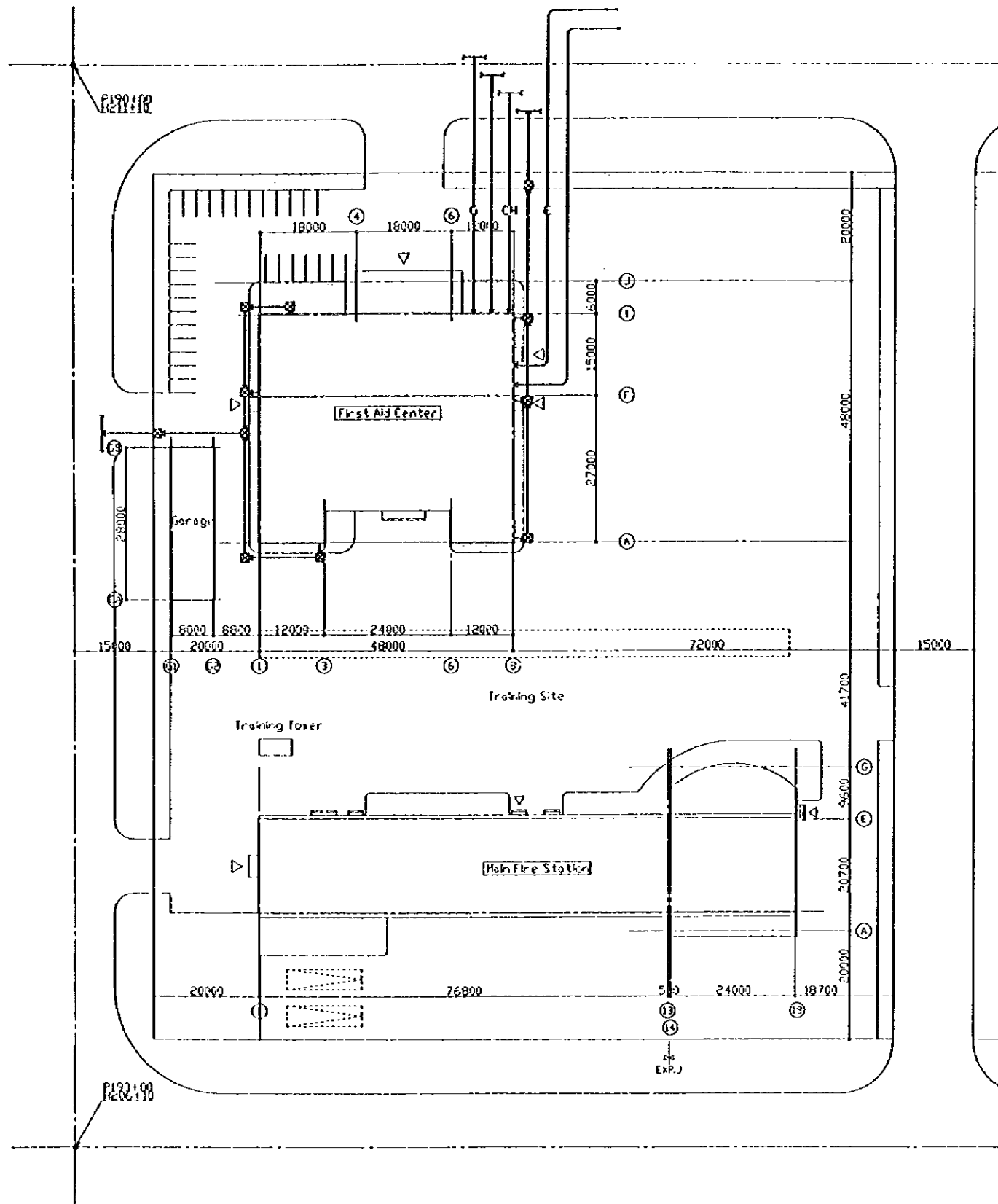
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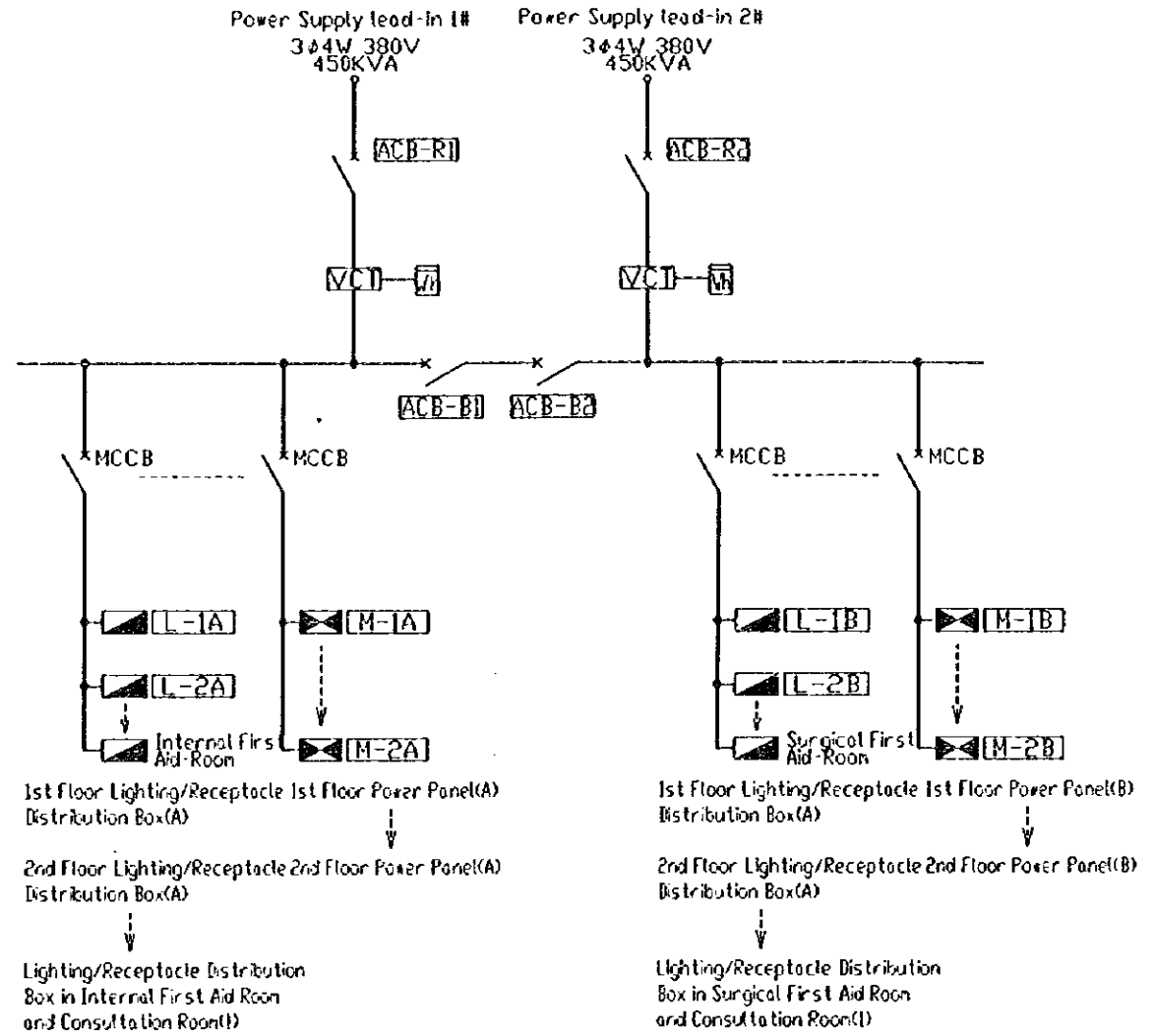
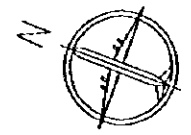
Power Supply System Diagram

SYMBOL	DESIGNATION
ACB	Air Circuit Breaker
MCCB	Molded-Case Circuit Breaker
VCT	Combined Voltage and Circuit Transformer
W	Watt-hour Meter
Lighting/Receptacle Distribution Box symbol	Lighting/Receptacle Distribution Box
Power Panel symbol	Power Panel

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
SUB FIRE STATION SITE PLAN 1/500, POWER SUPPLY SYSTEM	
SCALE	DNCA-E2
JAPAN INTERNATIONAL COOPERATION AGENCY	



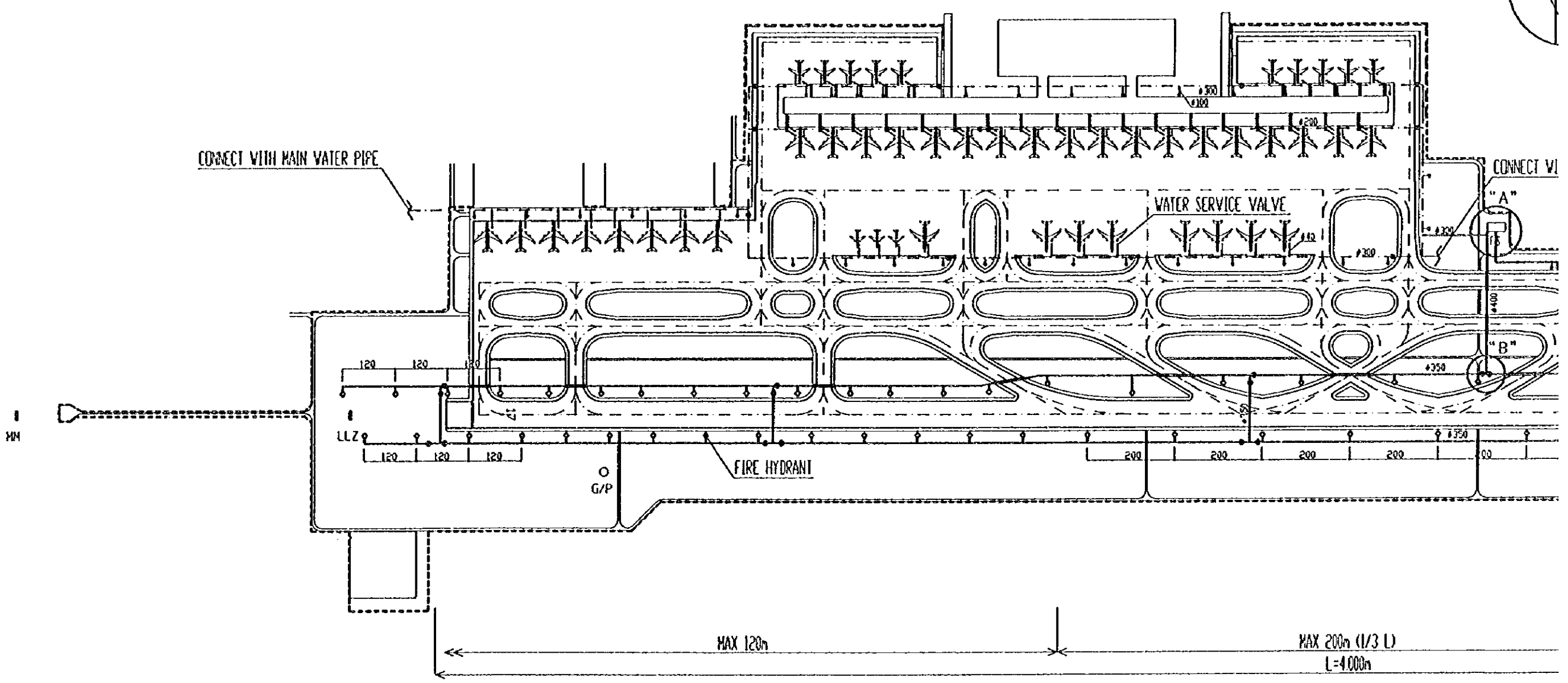
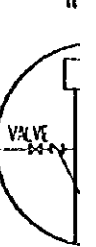
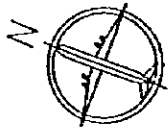
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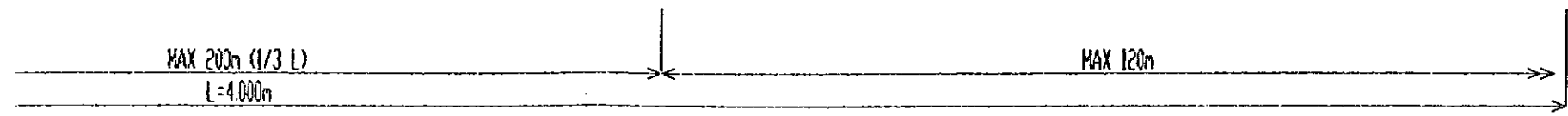
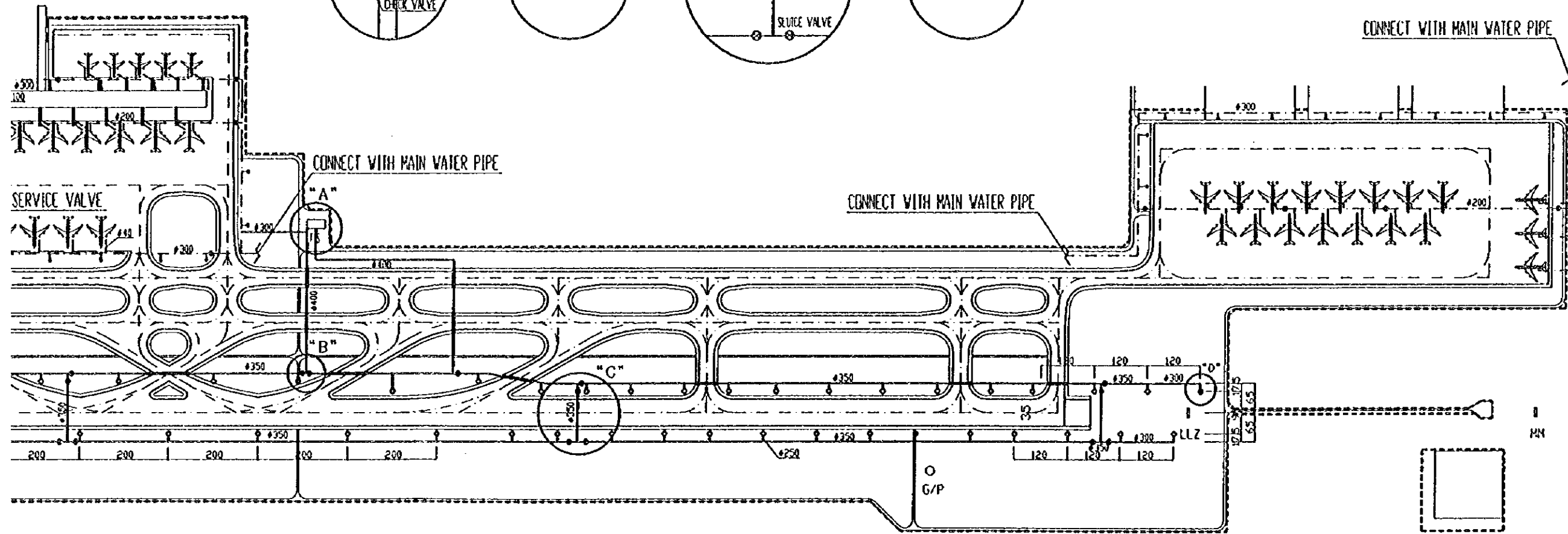
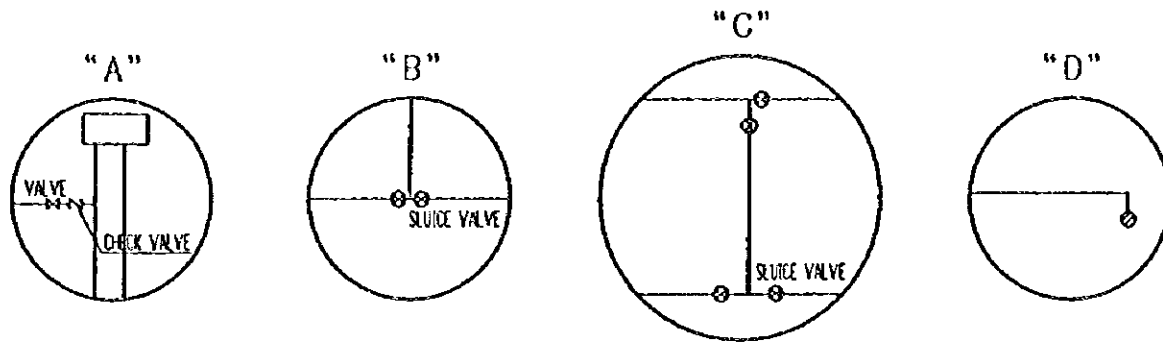


Power Supply System Diagram

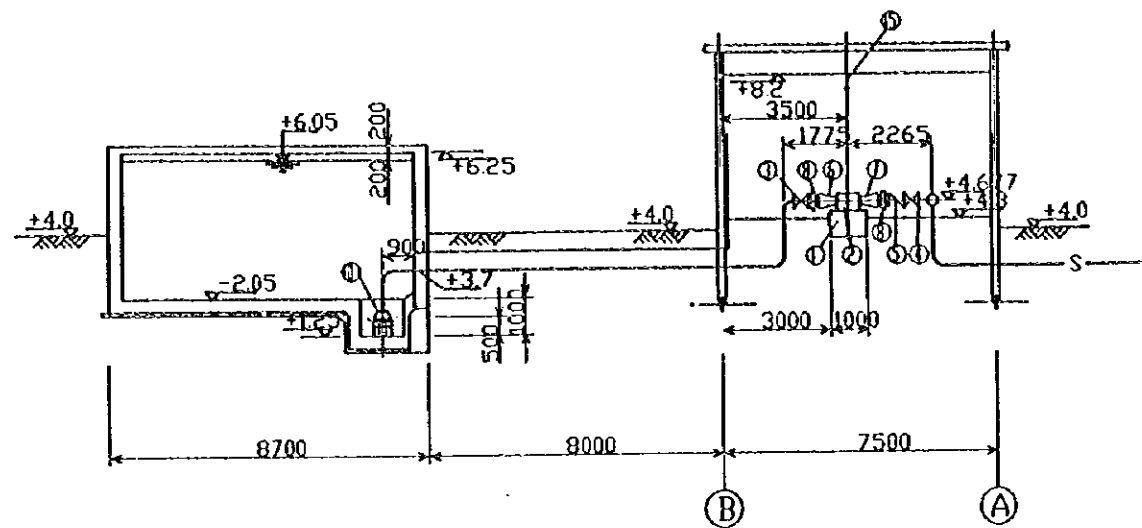
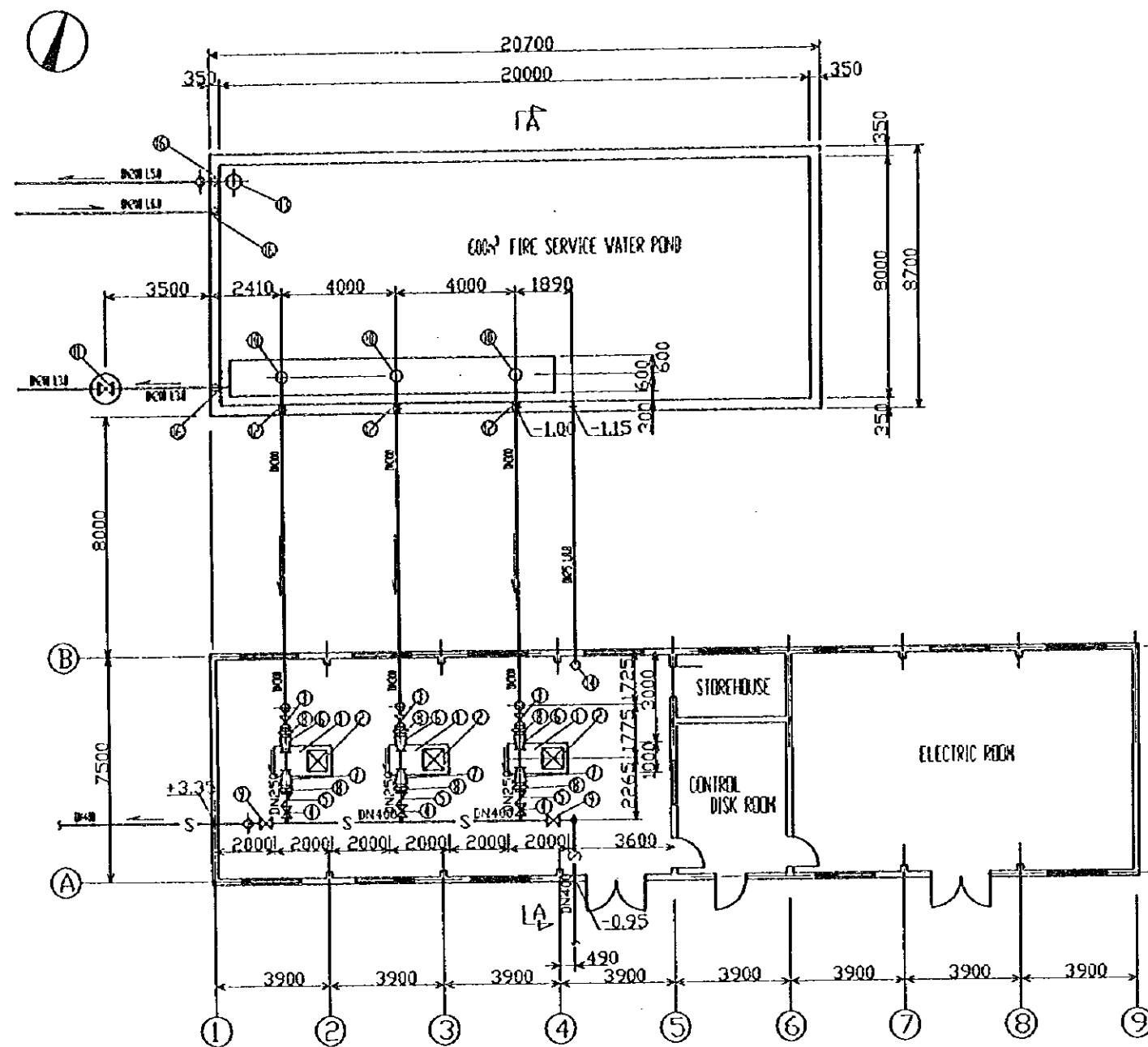
SYMBOL	DESIGNATION
ACB	Air Circuit Breaker
MCCB	Molded-Case Circuit Breaker
VCT	Combined Voltage and Circuit Transformer
W	Watt-hour Meter
□	Lighting/Receptacle Distribution Box
▭	Power Panel

PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
FIRST AID CENTER	SITE PLAN 1/500, POWER SUPPLY SYSTEM
SCALE	DWG-1-E3
JAPAN INTERNATIONAL COOPERATION AGENCY	





PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
FIRE HYDRANT LAYOUT PLAN	
SCALE	1:1000 DWG-A-01
JAPAN INTERNATIONAL COOPERATION AGENCY	



QUANTITIES OF MATERIAL

No.	MATERIALS	No's	REMARKS
①	FIRE PUMP	84-975L/S×56-65m	3
②	METER	75V	3
③	ELECTRICALLY OPERATED VALVE	φ300mm	3
④	ELECTRICALLY OPERATED VALVE	φ250mm	3
⑤	CHECK VALVE	φ250mm	3
⑥	REDUCER	φ300×φ200	3
⑦	REDUCER	φ250×φ200	3
⑧	EXPANSION JOINT	φ250	3
⑨	SLUICE VALVE	φ100mm	2
⑩	DRAW REDUCER PIPE	φ300×φ150	3
⑪	SLUICE VALVE	φ200mm	1
⑫	WATERPROOF SLEEVE	φ377	3
⑬	OVERFLOW PIPE	φ200×φ300	1
⑭	TYPE FLOAT WATER LEVEL VEIGH		1
⑮	HOIST RAIL	1-150×100×6×10	16m
⑯	WATERPROOF SLEEVE	φ273	3

PEOPLE'S REPUBLIC OF CHINA
 SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT | JANUARY 1997
 FIRE PUMP STATION SITE PLAN
 SCALE 1:500
 DWG-A-02
 JAPAN INTERNATIONAL COOPERATION AGENCY

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