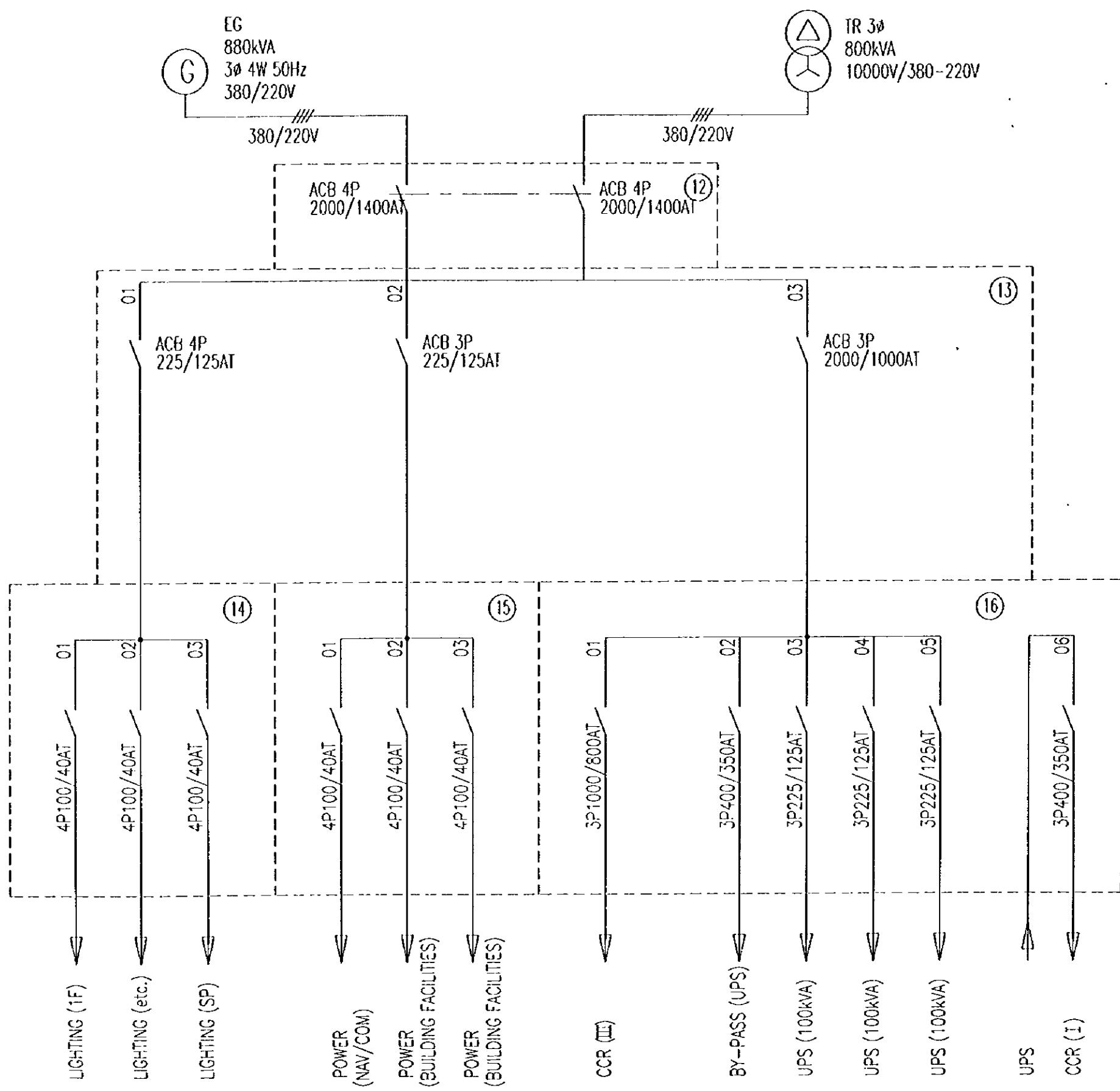
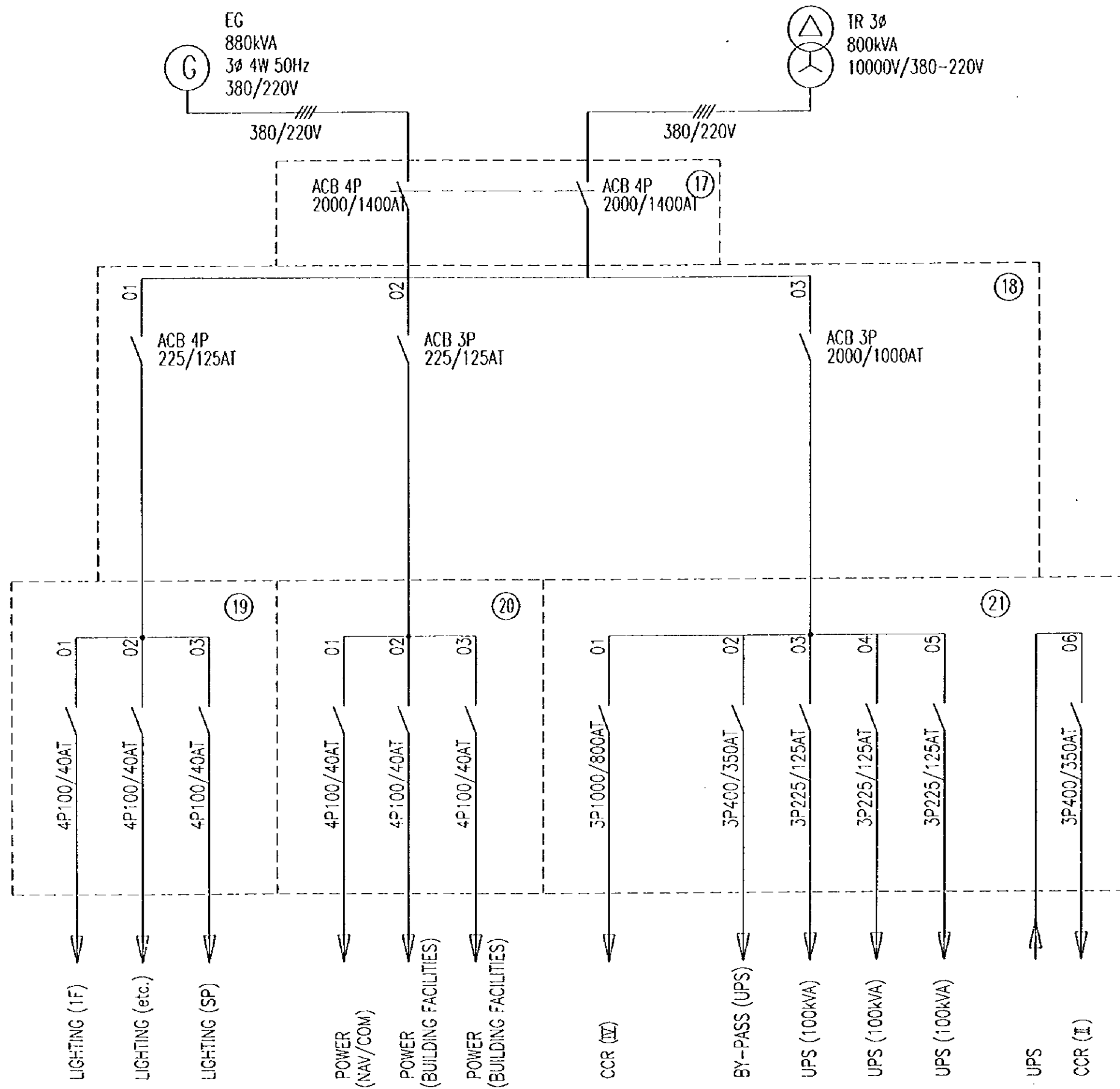


PANEL NO.	NO.16						NO.17						NO.18						NO.19				NO.20								
(II)	380V																														
DIAGRAM																															
NO.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	FROM SWITCHGEAR PANEL NO.21
OBJECT	CCR	CCR	CCR	CCR	SPARE	SPARE	CCR	CCR	CCR	CCR	SPARE	SPARE	CCR	CCR	CCR	CCR	CCR	SPARE	CCR	CCR	CCR	CCR	SPARE	SPARE	CCR	CCR	CCR	CCR	CCR	SPARE	
LOAD (KVA)	7.5KVA	7.5KVA	7.5KVA	7.5KVA (SPARE)			20KVA	20KVA	20KVA	20KVA (SPARE)			20KVA	20KVA	20KVA	20KVA (SPARE)			30KVA	30KVA	30KVA	30KVA (SPARE)			30KVA	30KVA	30KVA	30KVA	30KVA (SPARE)		
	HSTCLL-3	HSTCLL-2	HSTCLL-1	HSTCLL-1~3			TWYL-6	TWYL-5	TWYL-4	TWYL-4~6			TWYL-3	TWYL-2	TWYL-1	TWYL-1~3			TCLL-7	TCLL-6	TCLL-5	TCLL-5~7			TCLL-4	TCLL-3	TCLL-2	TCLL-1	TCLL-1~4		



PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI FUDONG INTERNATIONAL AIRPORT PROJECT		JANUARY 1997
SECONDARY POWER LINE DIAGRAM FOR SECONDARY AFL SUB-STATION (1/6)		
SCALE	NON SCALE	DWG2-E15 (1/6)
JAPAN INTERNATIONAL COOPERATION AGENCY		



PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997	
SECONDARY POWER LINE DIAGRAM FOR SECONDARY AFL SUB-STATION (2/6)		
SCALE	NON SCALE	DWG2-E15 (2/6)
JAPAN INTERNATIONAL COOPERATION AGENCY		

PANEL NO.	NO.1						NO.2						NO.3					
(I) I	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	10KVA (SPARE)	10KVA	10KVA	4KVA (SPARE)	4KVA		7.5KVA (SPARE)	7.5KVA	7.5KVA	30KVA (SPARE)	30KVA	30KVA
	<input type="checkbox"/> 0/0	<input type="checkbox"/> 0/0	<input type="checkbox"/> 0/0	<input type="checkbox"/> 0/0	<input type="checkbox"/> 0/0	<input type="checkbox"/> 0/0	<input type="checkbox"/> 0/0	<input type="checkbox"/> 0/0	<input type="checkbox"/> 0/0	<input type="checkbox"/> 0/0	<input type="checkbox"/> 0/0		<input type="checkbox"/> 0/0	<input type="checkbox"/> 0/0	<input type="checkbox"/> 0/0	<input type="checkbox"/> 0/0	<input type="checkbox"/> 0/0	<input type="checkbox"/> 0/0
	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

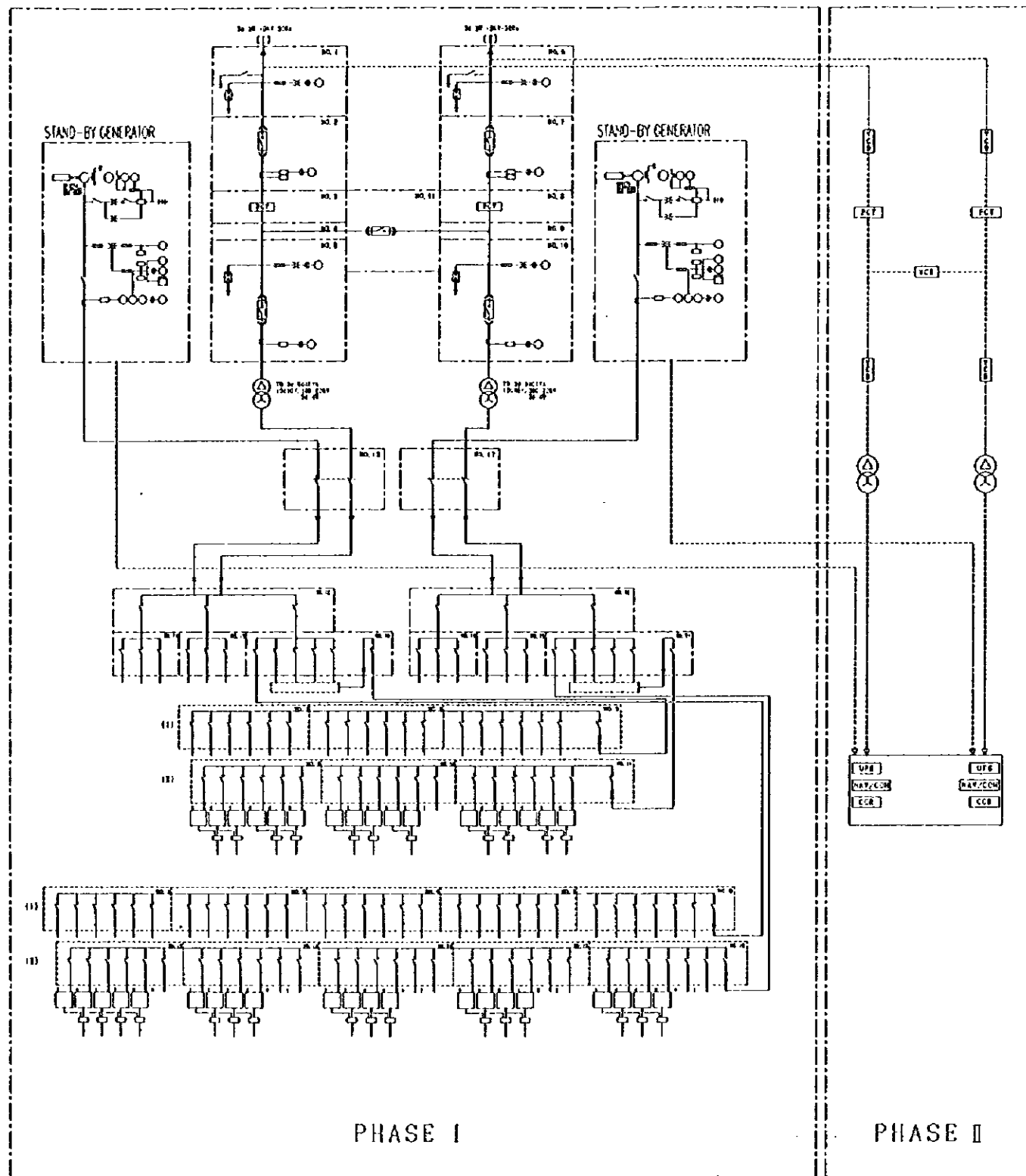
PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997	
SECONDARY POWER LINE DIAGRAM FOR SECONDARY AFL SUB-STATION (3/6)		
SCALE	NON SCALE	DWG2-E15 (3/6)
JAPAN INTERNATIONAL COOPERATION AGENCY		

PANEL NO.	NO.4						NO.5						NO.6						NO.7						NO.8						
(I)	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	FROM SWITCHGEAR PANEL NO.16
OBJECT	CCR	CCR	CCR	CCR	CCR	SPARE	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			20KVA (SPARE)	20KVA	20KVA	20KVA			20KVA (SPARE)	20KVA	20KVA	20KVA			7.5KVA (SPARE)	7.5KVA	7.5KVA	7.5KVA			
	TCLL-8~11	TCLL-8	TCLL-9	TCLL-10	TCLL-11		TCLL-12~14	TCLL-12	TCLL-13	TCLL-14			TWYL-7~9	TWYL-7	TWYL-8	TWYL-9			TWYL-10~12	TWYL-10	TWYL-11	TWYL-12			HSTCLL-4~6	HSTCLL-4	HSTCLL-5	HSTCLL-6			
	[O/D]	[O/D]	[O/D]	[O/D]	[O/D]		[O/D]	[O/D]	[O/D]	[O/D]			[O/D]	[O/D]	[O/D]	[O/D]			[O/D]	[O/D]	[O/D]	[O/D]			[O/D]	[O/D]	[O/D]	[O/D]			

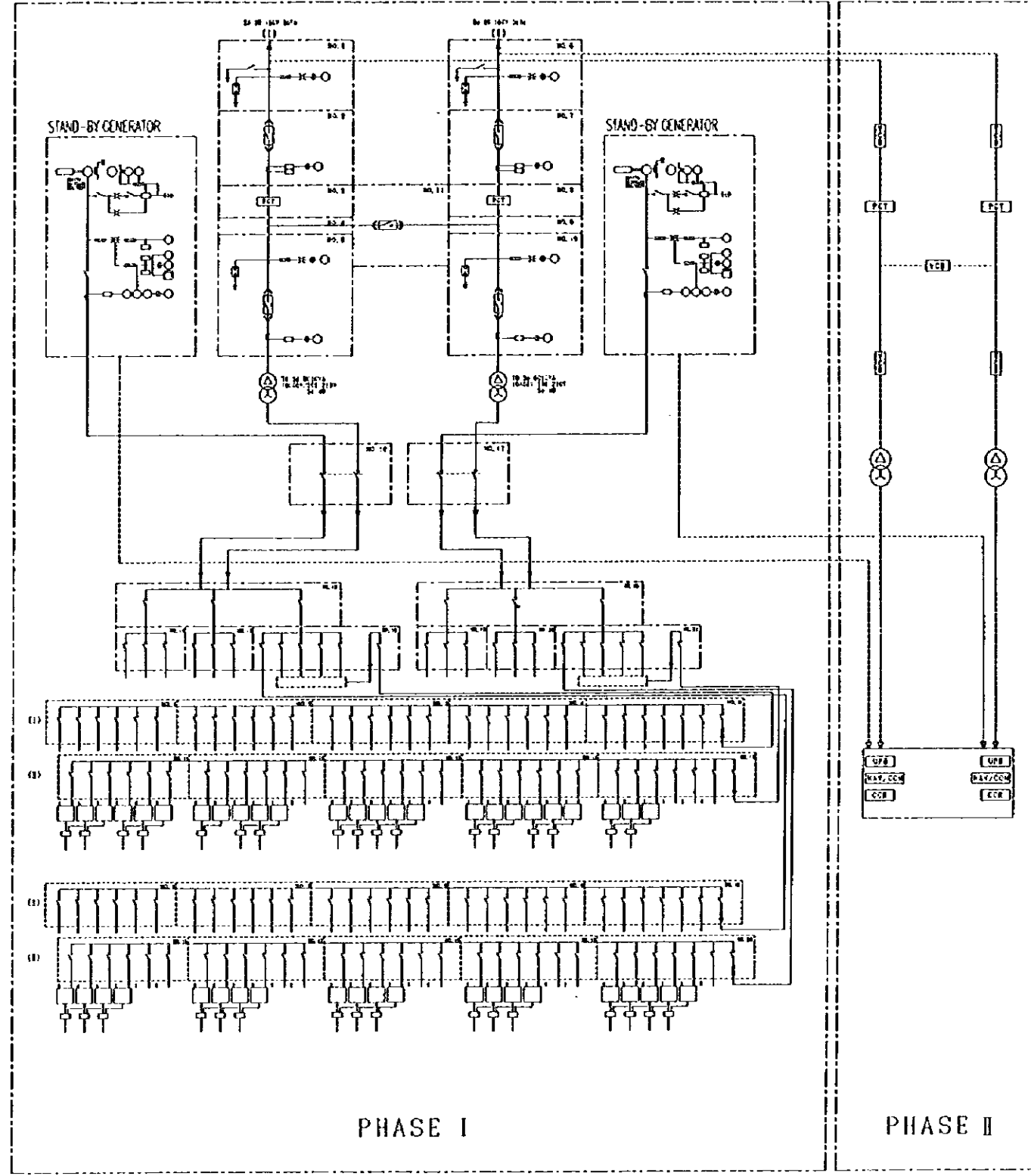
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(II)	I																	
DIAGRAM																		
NO.	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
OBJECT	CCR	CCR	CCR	CCR	CCR	CCR	CCR	CCR	CCR	CCR	CCR	SPARE	CCR	CCR	CCR	CCR	CCR	CCR
LOAD (KVA)	25KVA (SPARE)	25KVA	25KVA	10KVA (SPARE)	10KVA	10KVA	10KVA (SPARE)	10KVA	10KVA	4KVA (SPARE)	4KVA		7.5KVA (SPARE)	7.5KVA	7.5KVA	30KVA (SPARE)	30KVA	30KVA
	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0		0/0	0/0	0/0	0/0	0/0	0/0
	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

PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997	
SECONDARY POWER LINE DIAGRAM FOR SECONDARY AFL SUB-STATION (5/6)		
SCALE	NON SCALE	DWG2-E15 (5/6)
JAPAN INTERNATIONAL COOPERATION AGENCY		

PANEL NO.	NO.12						NO.13						NO.14						NO.15						NO.16						
(E)	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	FROM SWITCHGEAR PANEL NO.21
OBJECT	CCR	CCR	CCR	CCR	CCR	SPARE	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			20KVA (SPARE)	20KVA	20KVA	20KVA			20KVA (SPARE)	20KVA	20KVA	20KVA			7.5KVA (SPARE)	7.5KVA	7.5KVA	7.5KVA			
	[O/D]	[O/D]	[O/D]	[O/D]	[O/D]		[O/D]	[O/D]	[O/D]	[O/D]			[O/D]	[O/D]	[O/D]	[O/D]			[O/D]	[O/D]	[O/D]	[O/D]			[O/D]	[O/D]	[O/D]	[O/D]			
	TCLL-8~11	TCLL-8	TCLL-9	TCLL-10	TCLL-11		TCLL-12~14	TCLL-12	TCLL-13	TCLL-14			TWYL-7~9	TWYL-7	TWYL-8	TWYL-9			TWYL-10~12	TWYL-10	TWYL-11	TWYL-12			HSTCLL-4~6	HSTCLL-4	HSTCLL-5	HSTCLL-6			



MAIN AFL SUB-STATION
(R/W 35)



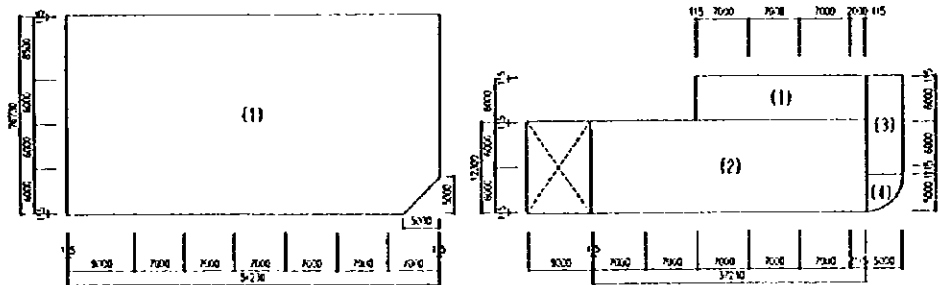
SECONDARY AFL SUB-STATION
(R/W 17)

PEOPLE'S REPUBLIC OF CHINA		
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997	
PLAN FOR POWER SYSTEM		
SCALE	NON SCALE	DMG2-E17
JAPAN INTERNATIONAL COOPERATION AGENCY		

General Description			Finish Schedule						
Architectural Summary	Construction Site	Within Shanghai Pudong International Airport site	Floor	Room Name	Floor	Base	Wall	Ceiling	Notes
	Site Area	6000m ²	1st	Power Room	Marble w/ Floor Cooling	Marble w/ EP Finish (H=200)	Marble w/ EP Finish	Unfinished Concrete	
	Building Title	Shanghai Pudong International Airport Main AIL Sub-Station		Generator Room					
	Main Structure	Steel Reinforced Concrete Frame		UPS Room					
	Foundations	Steel Reinforced Concrete Continuous Footing		CCR Room					
	Number of Stories	Main Station Two stories above ground level		Special Firefighting Equipment Room					
	Height	Main Station Max Height SQ.1 m ² : Ground Level SQ.1 m ² : Level of Roofing Bottom SQ.1 m ²		Entrance	Marble Finish I=30		Exterior Ceramic Tile	Aluminum Linear Panel Ceiling (H=3000)	
	Building Area	Aeronaual Lighting center 1324 m ²		Maintenance Room	Marble w/ Floor Cooling	Marble w/ EP Finish	Marble w/Emulsion Point Finish	Gypsum Board (ch=3000)	
	Floor Area	1st floor 1356 m ² 2nd floor 680 m ² Total Floor Area 2037 m ²		Testing Room					
	Principal Exterior Finishes	Roof Built-up Asphalt Roofing w/Concrete cover Exterior Wall Ceramic Tile and Concrete w/Point Finish Exterior Joinery Secondary Electric Coated Aluminum Sashes Steel Flush Doors w/Point Finish Glass SSG Curtain Wall		Corridor	Marble Finish I=30	Marble w/Point Finish (H=200)	Marble w/Emulsion Point Finish	Gypsum Board (ch=3000)	
Principal Interior Finishes	Floor Marble Finish I=30 Marble w/Floor Cooling Wall Marble w/Emulsion Point Finish Ceiling Gypsum Board Suspended Ceiling Unfinished Concrete w/EP finish		Staircase						
Electrical Systems	Telephone Systems Inter-Phone Systems Alarm Fire Alarm Systems TV Reception Systems		Guard Room	Marble w/ Floor Cooling	Polystyrene Base (H=100)	Marble w/Emulsion Point Finish	Gypsum Board (ch=3000)		
Mechanical Systems	Air Conditioning Systems Ventilation Systems CO Gas Fire Extinguisher Systems		Office Room	Marble Finish I=30	Wood Base (H=100)	Marble w/ EP Finish	Rockwool Acoustic Ceiling (ch=3000)		
Sanitary Systems	Hot Water Supply		Manager Room						
			Conference Room	Free-Access Floor (H=300)/Anti-Static Floor Panel	Polystyrene Base (H=100)	Marble w/ EP Finish	Rockwool Acoustic Ceiling (ch=3000)		
			Control Room						
			Data Room						
			CPU Room						
			Locker Room						
			Rest Room/Bedroom						
			Storage Room						
			Common						
			Corridor						
			Toilet						
			Shower Room						
			Hot Water Room						
			Locker Room						
			Rest Room/Bedroom						
			Storage Room						

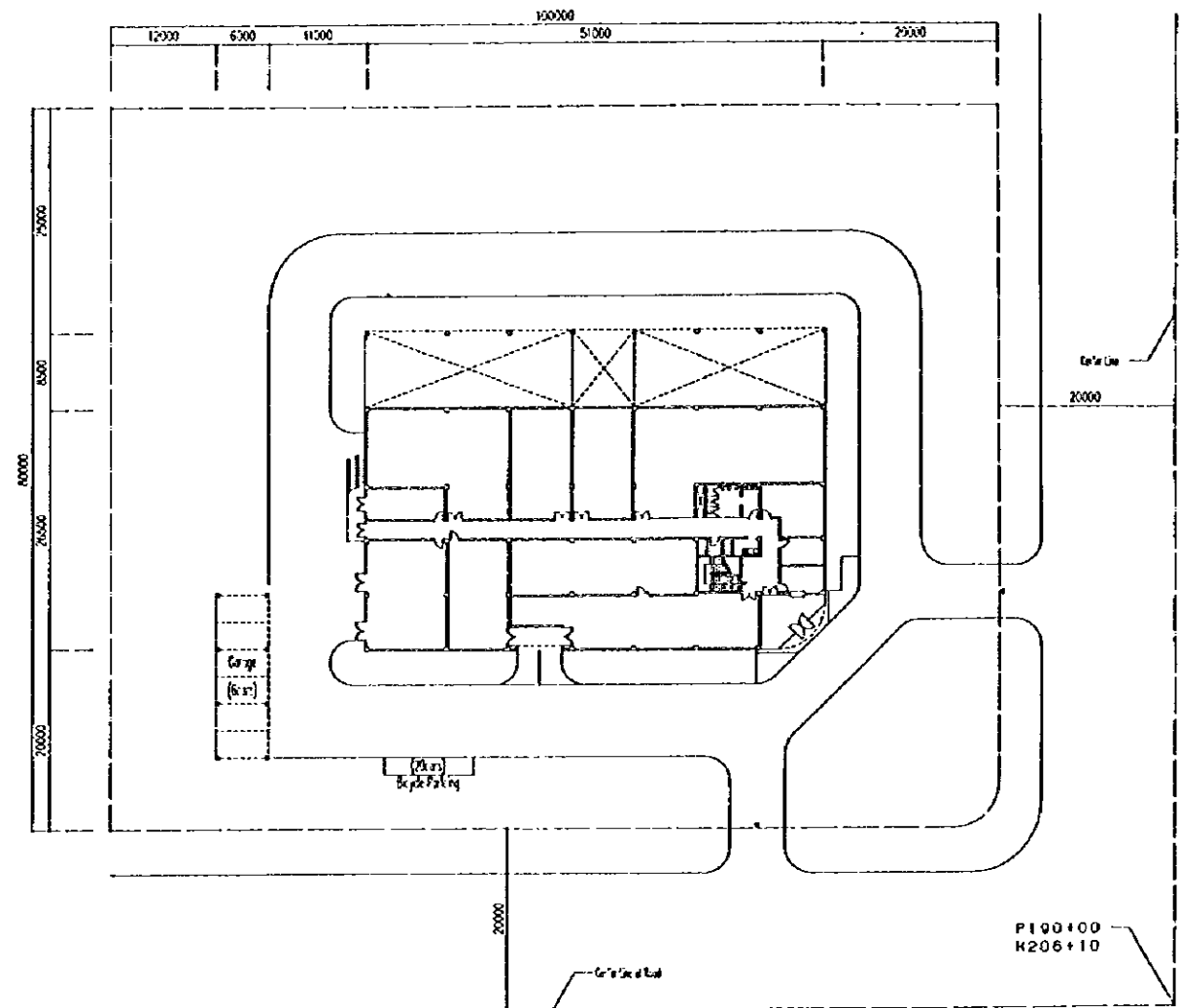
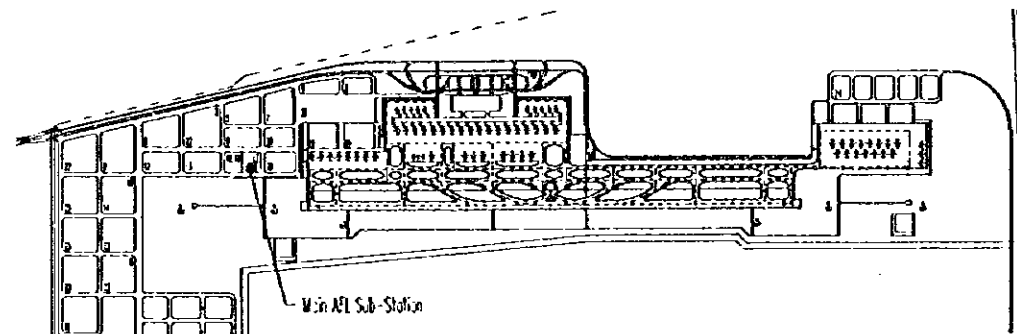
Floor Area Calculation Drawing

Area Calculation

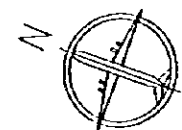


Floor Area 1st floor	
(1) 51,230 x 26,730	= 1369.38
(2) 65,000 x 5,000 x 1/2	= 12.50
First floor Area	= 1369.38
2nd floor	
(1) 6,600 x 23,230	= 139.38
(2) 12,230 x 37,230	= 455.32
(3) 13,230 x 5,730	= 65.15
(4) 5,000 x 5,600 x 1/4	= 19.83
Second floor Area	= 680.49
Total floor Area	= 2037.37 m²

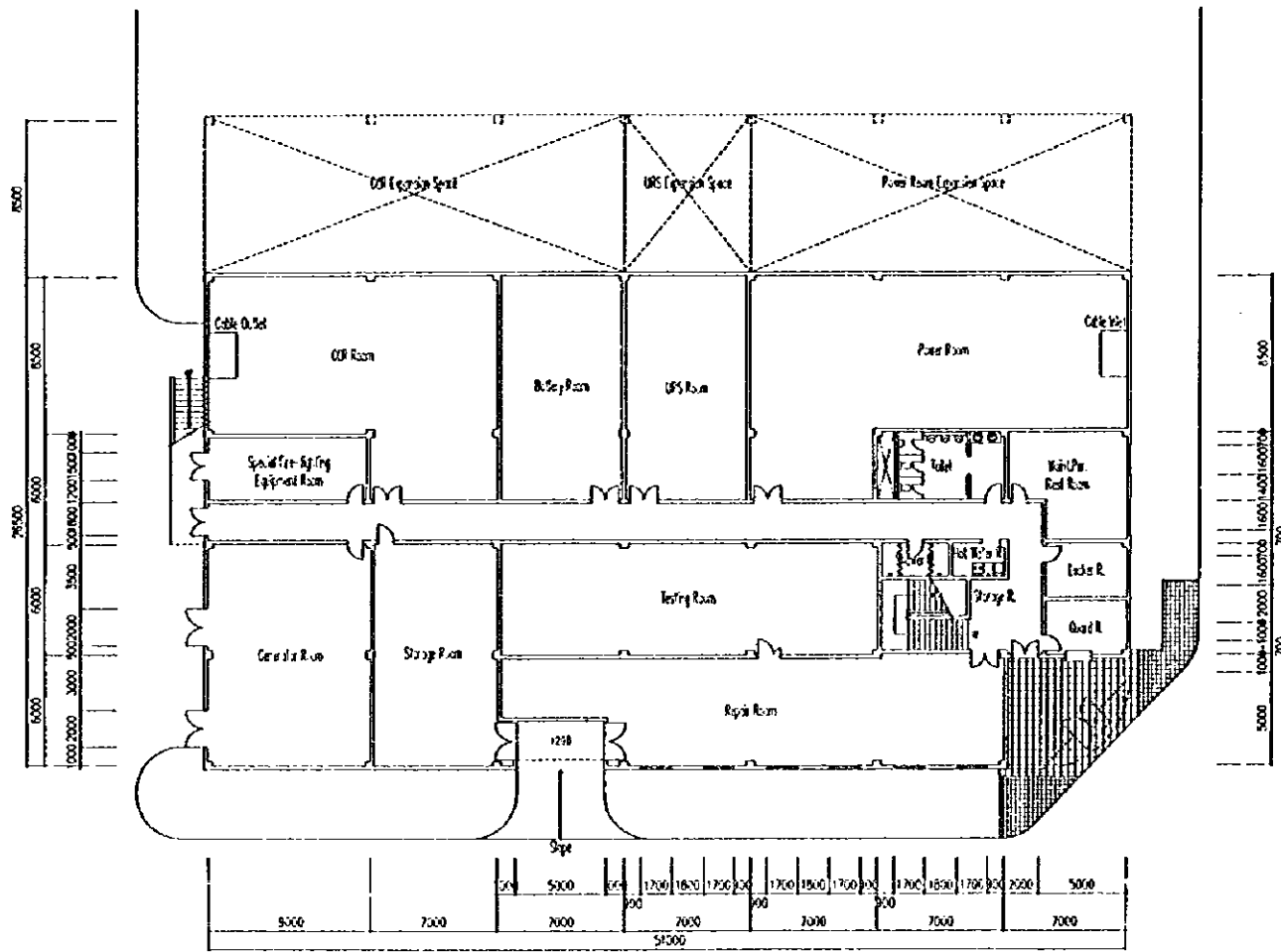
General Site Plan



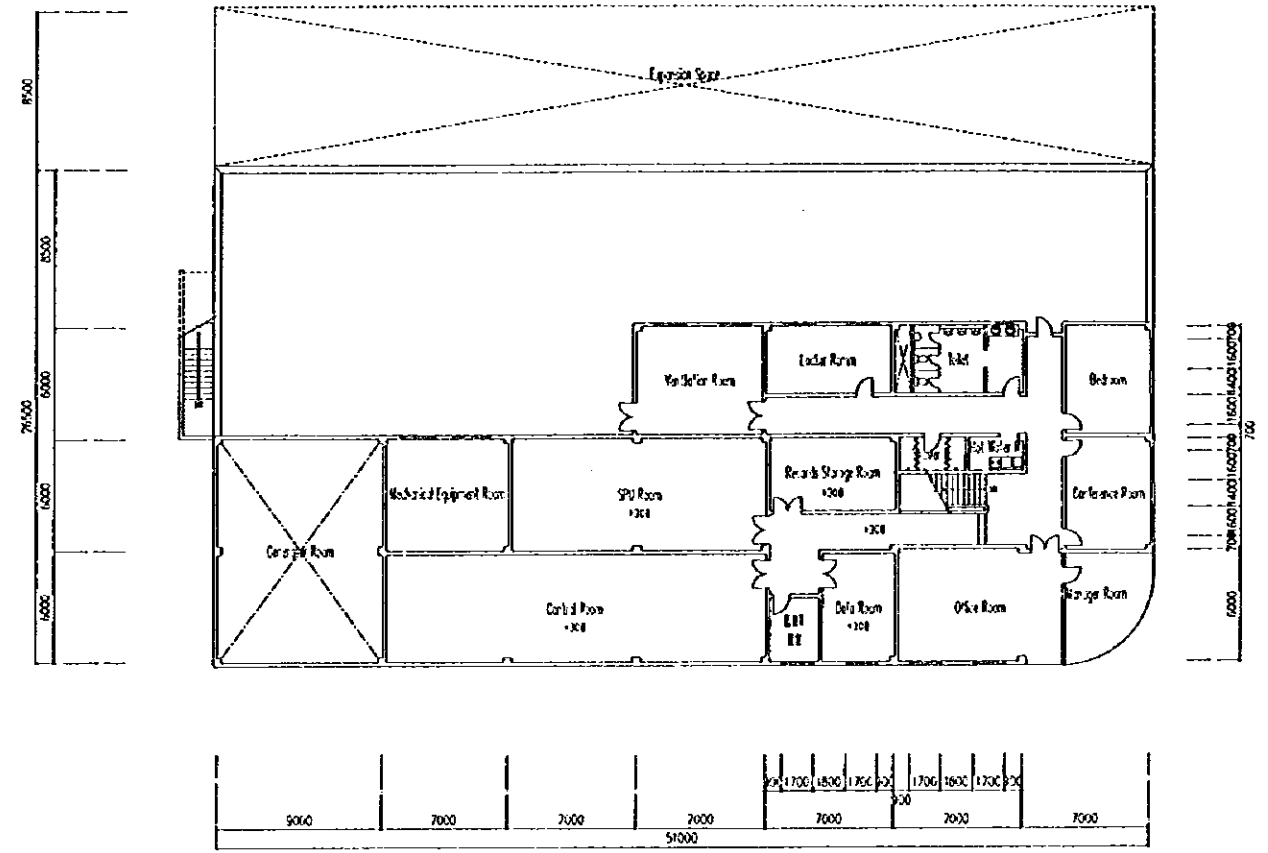
Main AIL Sub-Station



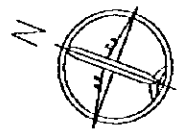
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
MAIN AIL SUB-STATION PLOT PLAN	
SCALE	DWG-2-A1
JAPAN INTERNATIONAL COOPERATION AGENCY	



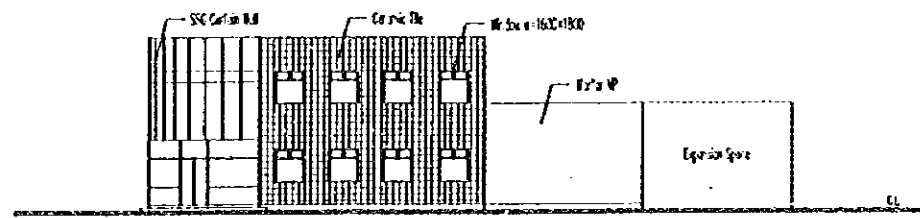
Main AFL Sub-Station
1st Floor Plan



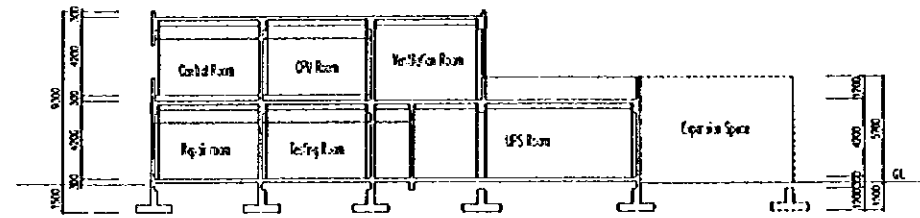
Main AFL Sub-Station
2nd Floor Plan



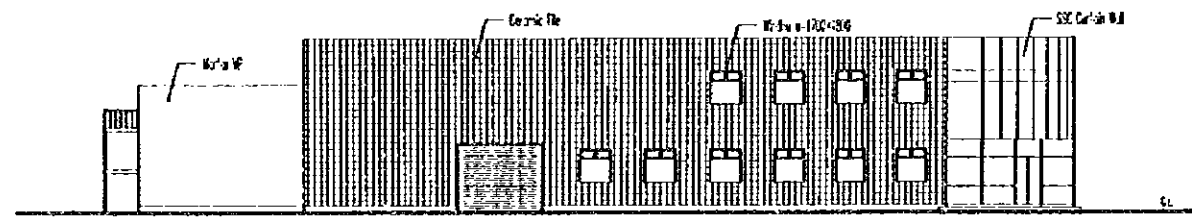
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
MAIN AFL SUB-STATION PLAN	
SCALE	1:1000
JAPAN INTERNATIONAL COOPERATION AGENCY	



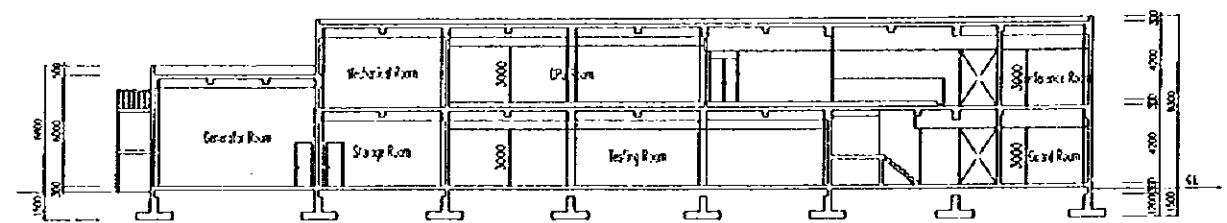
South Elevation



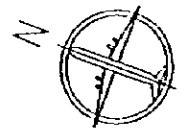
W-E Section



West Elevation



N-S Section

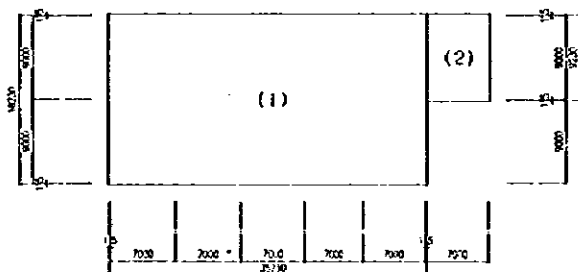


PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
MAIN AFL SUB-STATION, ELEVATION SECTION	
SCALE	1:100
DWG2-A3	
JAPAN INTERNATIONAL COOPERATION AGENCY	

General Description		Finish Schedule					
Architectural Summary	Construction Site	Within Shanghai Pudong International Airport site					
	Site Area	m ²					
	Building Title	Shanghai Pudong International Airport Secondary AIL Sub-Station					
	Main Structure	Steel Reinforced Concrete Frame					
	Foundations	Steel Reinforced Concrete Continuous Footing					
	Number of Stories	Main Station: Single Story					
	Height	Main Station Max Height SCL ±	m ²				
		Ground Level SCL ±	m ²				
		Level of Footing Bottom SCL ±	m ²				
	Building Area	Aid Aeronautical Lighting Power House: 706 m ²					
Floor Area	706 m ²						
Principal Exterior Finishes	Roof: Built-up Asphalt Roofing w/Concrete cover						
	Exterior Wall: Ceramic Tile and Concrete w/Point Finish Exterior Sliding Secondary Electrolytic Coated Aluminum Sashes, Steel Flush Doors w/Point Finish						
Principal Interior Finishes	Floor: Marble Finish (t=30) w/Polish w/Floor Coating						
	Wall: Marble w/Lamination Paint Finish Ceiling: Gypsum Board Suspended Ceiling, Unfinished Concrete w/EP Finish						
Electrical Systems	Telephone Systems						
	Inter-Phone Systems						
	Alarm Fire Alarm Systems						
Mechanical Systems	Air Conditioning Systems	CCR Room, CPU Room, Cooled 24 hour cooling, etc. Separate type Air-cooled Heating/Cooling System					
	Ventilation Systems	Power Room, etc. Mechanical Ventilation System					
	CO Gas Fire Extinguishers Systems	Power Room, CCR Room, UPS Room, Generator Room w/Sequential Shutdown Switches for Air Conditioning and Ventilation Systems					
Floor	Room Name	Floor	Base	Wall	Ceiling	Notes	
	Power Room	Marble w/Floor Coating	Marble w/EP Finish (t=200)	Marble w/EP Finish	Unfinished Concrete		
	Generator Rm						
	UPS Room						
	CCR Room						
	Special Firefighting Equipment Room						
	Entrance	Marble Finish (t=30)		Exterior Ceramic Tile	Aluminum Linear Panel Ceiling (ch=3000)		
	Corridor	Marble Finish (t=30)	Marble w/Point Finish (t=200)	Marble w/Lamination Paint Finish	Gypsum Board (ch=3000)		
	Staircase	Marble Finish (t=30)		Point Finish			
	Control Room	Free-Access Floor	Polystyrene Base (t=100)/t=6-Static Floor Panel	Marble w/EP Finish	Rockwool Acoustic Ceiling (ch=3000)		
	CPU Room						
	Lobby	Ceramic Tile		Ceramic Tile	Gypsum Board (ch=2500)		
	toilet	SCL		Marble w/Point Finish			
	Rest Room	Marble Finish (t=30)	Wood Base (t=100)	Marble w/EP Finish	Gypsum Board (ch=3000)		

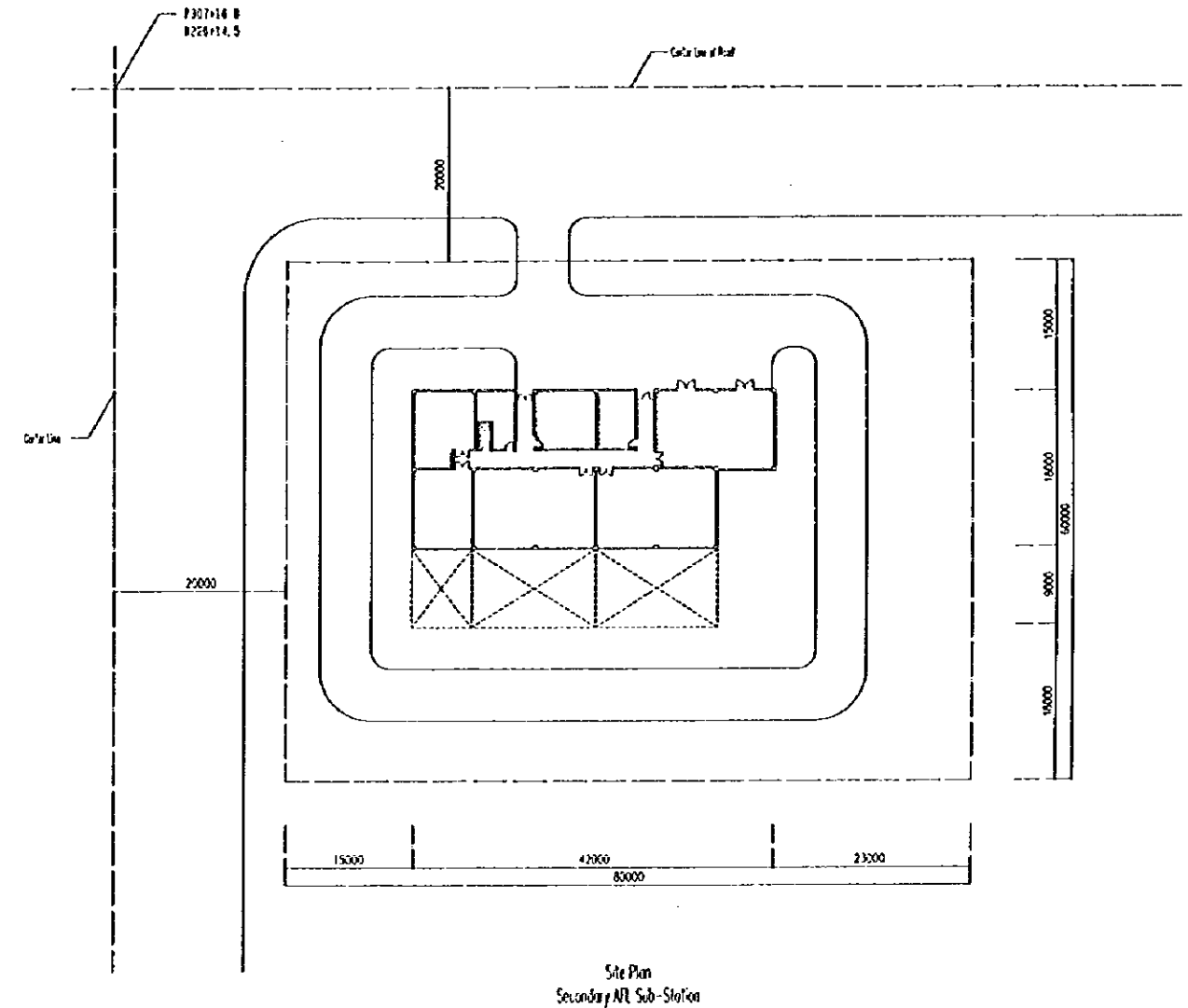
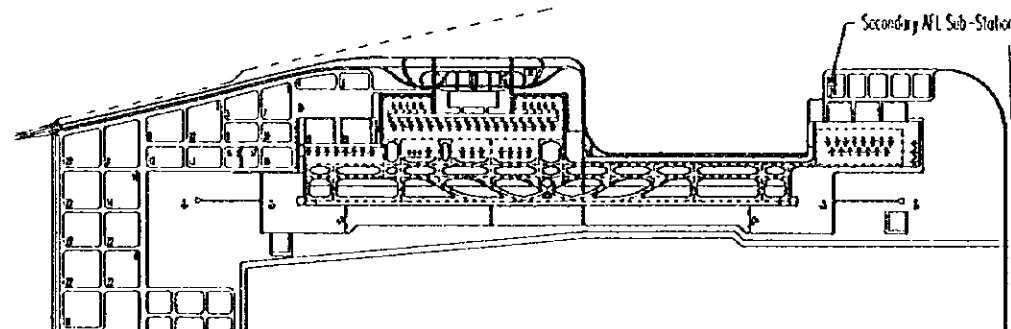
Floor Area Calculation Drawing

Area Calculation

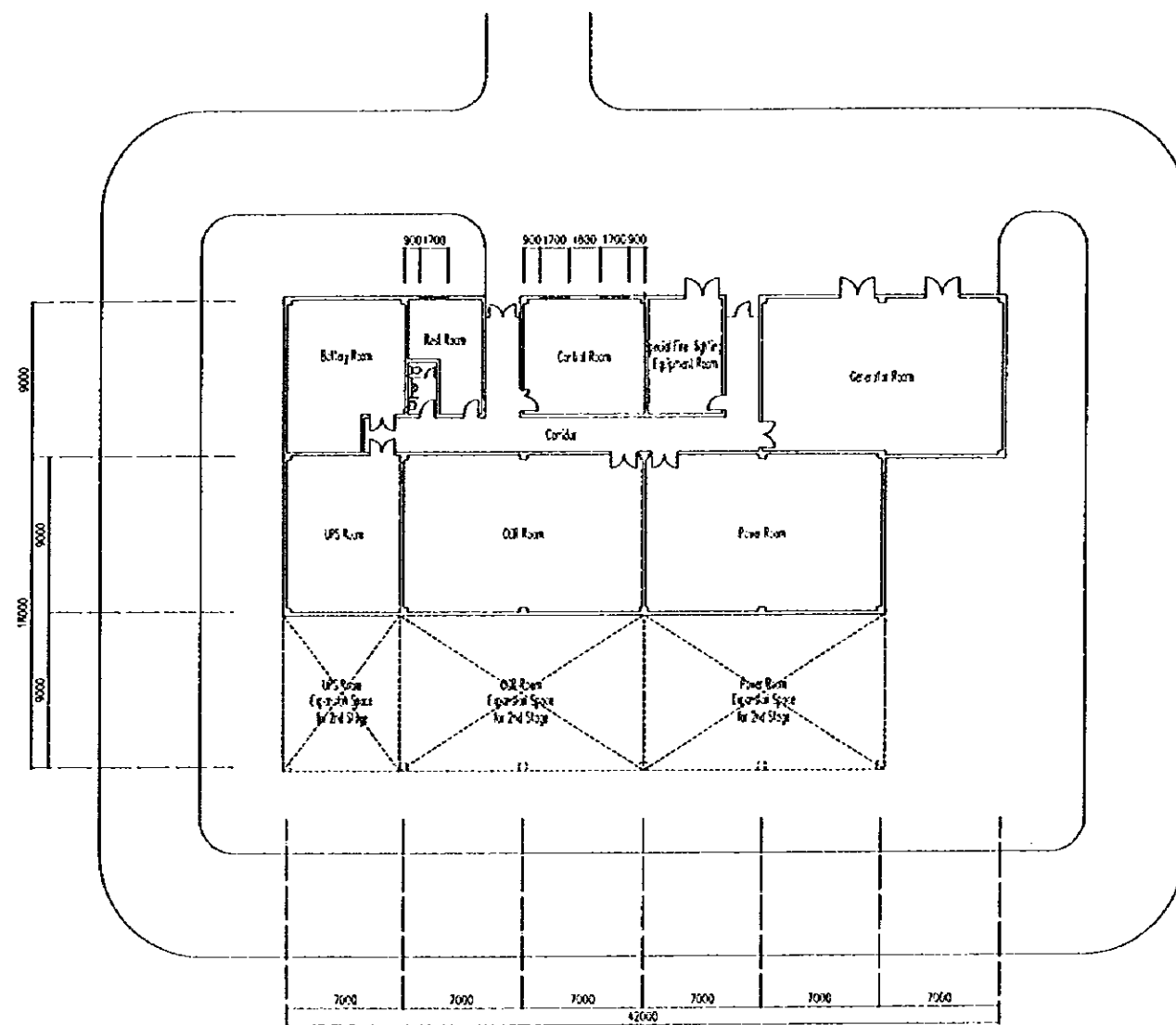


Floor Area
 (1) 18,230 x 35,230 = 642,24
 (2) 9,230 x 7,000 = 64,61
 Total Floor Area 642,24 + 64,61 = 706,85 m²

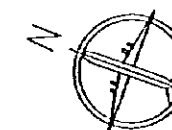
General Site Plan



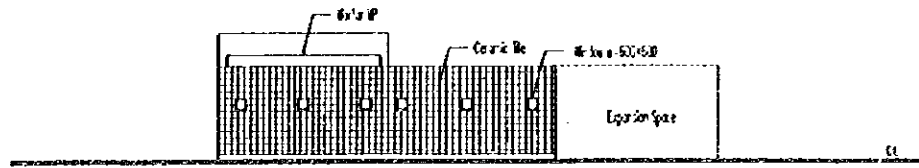
PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
SECONDARY AIL SUB-STATION PLOT PLAN	
SCALE	DWG2-A1
JAPAN INTERNATIONAL COOPERATION AGENCY	



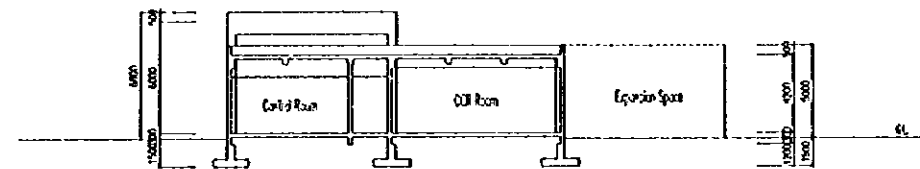
Secondary AEL Sub-Station



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
SECONDARY AEL SUB-STATION PLAN	
SCALE	1:1000
JAPAN INTERNATIONAL COOPERATION AGENCY	



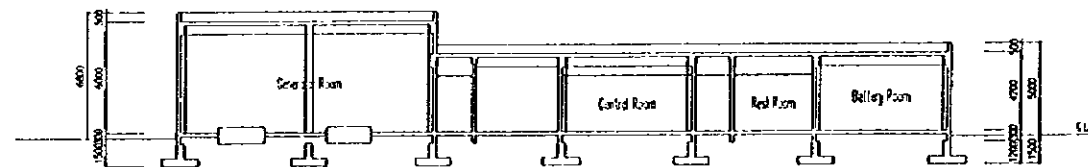
North Elevation



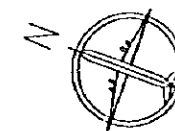
E-W Section



East Elevation



S-N Section



PEOPLE'S REPUBLIC OF CHINA	
SHANGHAI PUDONG INTERNATIONAL AIRPORT PROJECT	JANUARY 1997
SECONDARY AFL SUB-STATION, ELEVATION SECTION	
SCALE	1:100
DWG2-A6	
JAPAN INTERNATIONAL COOPERATION AGENCY	