LEGEND

WET SYSTEM

- SINGLE OUTLET FIRE HYDRANT
- SINGLE OUTLET FIRE HYDRANT C/W PARITY DRAIN
- HOSE REEL SET C/W BREAKGLASS UNIT & ALARM BELL
- SUBSIDIARY STOP VALVE (NORMALLY OPEN)
- SUBSIDIARY STOP VALVE (NORMALLY CLOSE)
- GLOBE VALVE
- GATE VALVE (NORMALLY OPEN)
- GATE VALVE (NORMALLY CLOSE)
- DRAIN VALVE (NORMALLY CLOSE)
- CHECK VALVE (SILENT TYPE)
- CHECK VALVE (SWING TYPE)
- Y - STRAINER
- PUMP FLEXIBLE CONNECTOR
- BALL FLOAT VALVE
- PIPELINE EXPANSION JOINT
- VORTEX INHIBITOR
- SPR / F.S. INLET
- PRESSURE SWITCH ASSEMBLY
- ORIFICE PLATE (ø3mm U.N.O.)
- ELECTRIC PUMP
- PENDENT SPRINKLER HEAD UNDER E/M SERVICES (USED IN WET/DRY SYSTEM)
- PENDENT SPRINKLER HEAD UNDER STRUCTURE SLAB (USED IN WET SYSTEM)
- PENDENT SPRINKLER HEAD UNDER STRUCTURE SLAB (USED IN DRY SYSTEM)
- PENDENT CONCEALED TYPE SPRINKLER HEAD (USED IN WET SYSTEM)
- PENDENT CONCEALED TYPE SPRINKLER HEAD (USED IN DRY SYSTEM)
- AUTOMATIC AIR VENT C/W GATE VALVE
- PRESSURE GAUGE C/W GATE VALVE
- WET SPRINKLER CONTROL VALVE SET C/W PRESSURE GAUGE, ALARM GONG, TRIM, ETC
- PRE-ACTION SPRINKLER CONTROL VALVE SET C/W DELUGE VALVE, CHECK VALVE AND ALL NECESSARY COMPONENTS/ ACCESSORIES/ TRIMS
- ADJUSTABLE SPRING TYPE PRESSURE RELIEF VALVE
- FIXED RATIO TYPE PRESSURE REDUCING VALVE
- PRV — PRESSURE REDUCING VALVE ASSEMBLY
- DIRECT READING FLOW METER
- TD — TEST & DRAIN ASSEMBLY
- NON-FERROUS FILTER
- PROVING PIPE ASSEMBLY
- SPRINKLER WATER ALARM GONG

DRY SYSTEM

- BREAKGLASS UNIT
- ø200mm WEATHERPROOF FIRE ALARM BELL
- ø150mm FIRE ALARM BELL
- S — SMOKE DETECTOR UNDER STRUCTURE SLAB
- S — SMOKE DETECTOR AT FALSE CEILING LEVEL
- H — HEAT DETECTOR UNDER STRUCTURE SLAB
- H — HEAT DETECTOR AT FALSE CEILING LEVEL
- REMOTE INDICATOR
- F — FLOW SWITCH
- BATTERY AND CHARGER
- MAN — MAIN FIRE ANNUNCIATOR PANEL
- FSSP — F.S. STATUS PANEL
- M — PUMP MOTOR
- Y/Δ — STAR-DELTA STARTER
- AT — AUTO-TRANSFORMER STARTER
- DOL — DIRECT-ON-LINE STARTER
- FUSED SWITCH (F/S)
- SWITCH FUSE (S/F)
- 13A FUSED SPUR UNIT (BY ELECTRICAL SUB-CONTRACTOR)
- A — AMMETER
- PUSH BUTTON
- PILOT LIGHT (RED)
- PILOT LIGHT (YELLOW)
- PILOT LIGHT (BLUE)
- PILOT LIGHT (GREEN)
- FFPCP — FIXED FIRE PUMP CONTROL PANEL
- FTPCP — F.S. TRANSFER PUMP CONTROL PANEL
- SPCP — SPRINKLER PUMP CONTROL PANEL
- LEVEL SWITCH (FLOATLESS TYPE)
- C-GEN — DRY CONTACTS FOR GENERATOR RUNNING / FAILURE INDICATION (BY ELECTRICAL SUB-CONTRACTOR)
- A/V — AUDIBLE/VISUAL WARNING UNIT
- C - S — DRY CONTACTS FOR ACTUATION OF FIRE SHUTTERS
- C - V — DRY CONTACTS FOR FIRE CONTROLS OF HVAC SYSTEMS
- C - SV — DRY CONTACTS FOR ACTUATION OF SOLENOID VALVES
- P - DT — ALARM PRESSURE SWITCH FOR REMOTE INDICATION OF DELUGE VALVE TRIPPED
- P - LP — AIR SUPERVISORY PRESSURE SWITCH FOR REMOTE INDICATION OF LOW AIR PRESSURE ALARM
- SOLENOID VALVE (NORMALLY CLOSED)
- M — MONITOR MODULE
- C — CONTROL MODULE
- MS — MICRO SWITCH FOR REMOTE INDICATION OF FIRE SHUTTER CLOSED

ABBREVIATION

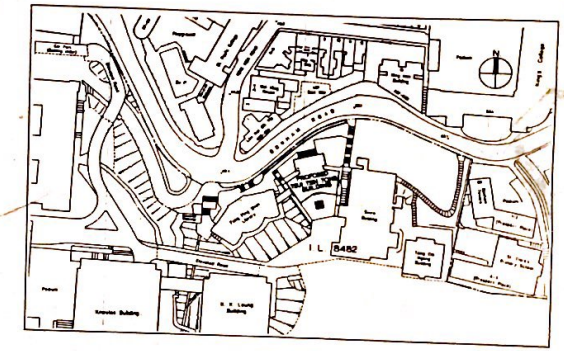
SPR	SPRINKLER
FH	FIRE HYDRANT
HR	HOSE REEL
FE	FIRE EXTINGUISHER
U/G	UNDERGROUND
F/A	FROM ABOVE
F/B	FROM BELOW
T/A	TO ABOVE
T/B	TO BELOW
H/L	HIGH LEVEL
L/L	LOW LEVEL
T/H	TURN AT H/L
F.S.	FIRE SERVICES
O.F.	OVERFLOW
M.H.	MANHOLE
V.P.	VENT PIPE
S.P.	SILENT PIPE
W.P.	WARNING PIPE
FFP	FIXED FIRE PUMP
FTP	F.S. TRANSFER PUMP
SP	SPRINKLER PUMP
SJP	SPRINKLER JOCKEY PUMP
FJP	F.S. JOCKEY PUMP
PRV	PRESSURE REDUCING VALVE
U.N.O.	UNLESS NOTED OTHERWISE
A.P.	ACCESS PANEL
F100	FH/HR PIPE 100mm DIA.
S100	SPRINKLER PIPE 100mm DIA.
TM100	TOWN MAIN WATER SUPPLY PIPE 100mm DIA.
DS100	PRE-ACTION, DRY SPRINKLER PIPE 100mm DIA.
F100	FH/HR PIPE 100mm DIA. RISER/DROPPER PIPE FROM ABOVE TO BELOW (FROM BELOW TO ABOVE)
F100	FH/HR PIPE 100mm DIA. TURN TO ABOVE (FROM ABOVE)
F100	FH/HR PIPE 100mm DIA. TURN TO BELOW (FROM BELOW)

GENERAL NOTES

1. ALL ABOVE-GROUND F.S. PIPES OF 25mm DIA. TO 150mm DIA. SHALL BE MEDIUM GALVANIZED STEEL PIPE TO B.S. 1387.
2. ALL UNDERGROUND F.S. PIPES OF 200mm DIA. AND ABOVE SHALL BE BLACK STEEL PIPE TO B.S. 3601, GRW 410 WRAPPED WITH TWO LAYERS OF DENSE TAPES.
3. THE DUTIES OF FIRE PUMPS AS STATED ARE FOR INDICATIVE PURPOSE ONLY. THE F.S. SUB-CONTRACTOR SHALL SELECT THE EXACT DUTIES OF THE FIRE PUMPS TO SUIT THE ACTUAL SITE CONDITIONS. THE REQUIREMENTS OF FSD / FOC AND RELEVANT BRITISH STANDARDS.
4. PRESSURE GAUGES SHALL BE PROVIDED AT SUCTION AND DISCHARGE SIDE OF EACH FIRE PUMP.
5. ALL SPRINKLER PIPE SHALL BE 32mm DIA. UNLESS OTHERWISE STATED.
6. THE PIPING ARRANGEMENT INSIDE F.S. PUMP ROOMS AND SPRINKLER CONTROL VALVE / INLET CABINETS SHALL REFER TO SCHEMATIC DIAGRAMS. THE F.S. SUB-CONTRACTOR SHALL SUBMIT THE ENLARGED LAYOUT PLANS AND SECTIONAL DETAILS FOR APPROVAL BEFORE INSTALLATION.
7. EXACT NO. OF EQUIPMENT SHOWN IN THE SCHEMATIC DIAGRAMS SHALL REFER TO INSTALLATION LAYOUT PLANS.
8. THE FIRE DETECTION AND ALARM SYSTEM SCHEMATIC DIAGRAM SHOWS PRESENTATION OF SYSTEM CONCEPTUAL DESIGN. THE F.S. SUB-CONTRACTOR SHALL DESIGN WIRING CIRCUITS AND CONDUIT ROUTES FOR ENGINEER'S APPROVAL PRIOR TO INSTALLATION.
9. ALL WIRING FOR FIRE DETECTORS, FLOW SWITCHES, BREAKGLASS UNITS, MICRO SWITCHES FOR SUBSIDIARY VALVES ETC., SHALL BE TWO HARD WIRED MONITORED CIRCUITS WITH END OF LINE RESISTORS.
10. THE ALARM BELL CIRCUITS SHALL BE 4-WIRE RING LOOP CIRCUITS AND SHALL BE SO ARRANGED IN SUCH A WAY THAT A SHORT CIRCUIT OR DISCONNECTION OR CIRCUIT FAULTS AT A SINGLE POINT IN THE WIRING SHALL NOT RESULT IN THE SILENCING OF ALL OTHER ALARM BELLS ON ANY ONE FLOOR IN THE BUILDING.
11. WHEN ANY FIRE ALARM IS ACTUATED, THE ALARM BELLS SHALL RING ON THE FIRE FLOOR, ONE FLOOR BELOW AND TWO FLOORS ABOVE THE FLOOR INVOLVED ACCORDING TO FSD CIRCULAR LETTERS.
12. ALL MOTOR POWER RATING AND SWITCHGEAR RATINGS OF THE F.S. EQUIPMENT STATED ARE INDICATIVE PURPOSE ONLY. THE F.S. SUB-CONTRACTOR SHOULD CHECK EXACT POWER RATINGS WITH THE SUPPLIERS AND THE SPECIFICATION REQUIREMENTS.
13. ALL CABLES SHALL BE SINGLE CORE PVC INSULATED COPPER CABLE IN G.I. BRANCHING OR G.I. CONDUIT UNLESS OTHERWISE SPECIFIED. THE F.S. SUB-CONTRACTOR SHOULD SELECT SUITABLE SIZE OF CABLES IN COMPLIANCE WITH THE LATEST EDITION OF IEE REGULATION FOR ELECTRICAL INSTALLATION AND WIRING REGULATION TO MATCH WITH THE SELECTED MOTOR RATINGS OF THE F.S. EQUIPMENT.
14. WHERE THE FIRE DETECTORS ARE FIXED INSIDE CONCEALED SPACE SUCH AS FALSE CEILING VOIDS, LIFT SHAFTS, ETC. REMOTE INDICATORS SHALL BE PROVIDED AND MOUNTED AT CEILING LEVEL OR HIGH LEVEL DIRECTLY UNDER THE POSITION OF HIDDEN DETECTORS.
15. SPRINKLER PIPEWORK INSTALLED IN PRE-ACTION SYSTEM SHALL BE ARRANGED WITH AN ADEQUATE SLOPE FOR DRAINAGE AS DESCRIBED IN FOC PARA. 4140.
16. THE F.S. SUB-CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE SPRINKLER HEAD AND INSTALL CORRECT SIZE OF SPRINKLER PIPE TO SUIT THE LATEST REFLECTED CEILING PLANS.
17. SPRINKLER HEADS MUST BE LOCATED AT THE REQUIRED DISTANCE FROM THE SIDE OF THE BEAM AS STIPULATED IN FOC RULE TABLE 3240.
18. THE EXACT LOCATION AND MOUNTING HEIGHT OF ALL F.S. INSTALLATIONS INCLUDING SPRINKLER HEADS, HYDRANTS, INLETS, ALARM BELLS ETC. SHALL BE IN STRICT ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS.

DRAWING LIST

DRG. No.	TITLE
843-FD-01	SITE PLAN, DRAWING LIST, GENERAL NOTES, LEGEND AND ABBREVIATION
843-FD-02	FH/HR SYSTEM SCHEMATIC
843-FD-03	SPRINKLER SYSTEM SCHEMATIC
843-FD-04	FIRE DETECTION AND ALARM SYSTEM SCHEMATIC
843-FD-05	FIRE PUMP POWER SUPPLY SCHEMATIC AND PUMP CONTROL PANEL LAYOUT
843-F1-01	FIRE SERVICES LAYOUT - GROUND FLOOR PLAN
843-F1-02	FIRE SERVICES LAYOUT - 1ST FLOOR PLAN
843-F1-03	FIRE SERVICES LAYOUT - 2ND FLOOR PLAN
843-F1-04	FIRE SERVICES LAYOUT - 3RD FLOOR PLAN
843-F1-05	FIRE SERVICES LAYOUT - 4TH AND 5TH FLOOR PLAN
843-F1-06	FIRE SERVICES LAYOUT - 6TH AND 7TH FLOOR PLAN
843-F1-07	FIRE SERVICES LAYOUT - 8TH AND 9TH FLOOR PLAN
843-F1-08	FIRE SERVICES LAYOUT - 10TH AND 11TH FLOOR PLAN
843-F1-09	FIRE SERVICES LAYOUT - ROOF AND UPPER ROOF PLAN
843-F2-01	FIRE SERVICES DETAILS



SITE PLAN
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TITLE
FIRE SERVICES

SITE PLAN, DRAWING LIST, GENERAL NOTES, LEGEND AND ABBREVIATION

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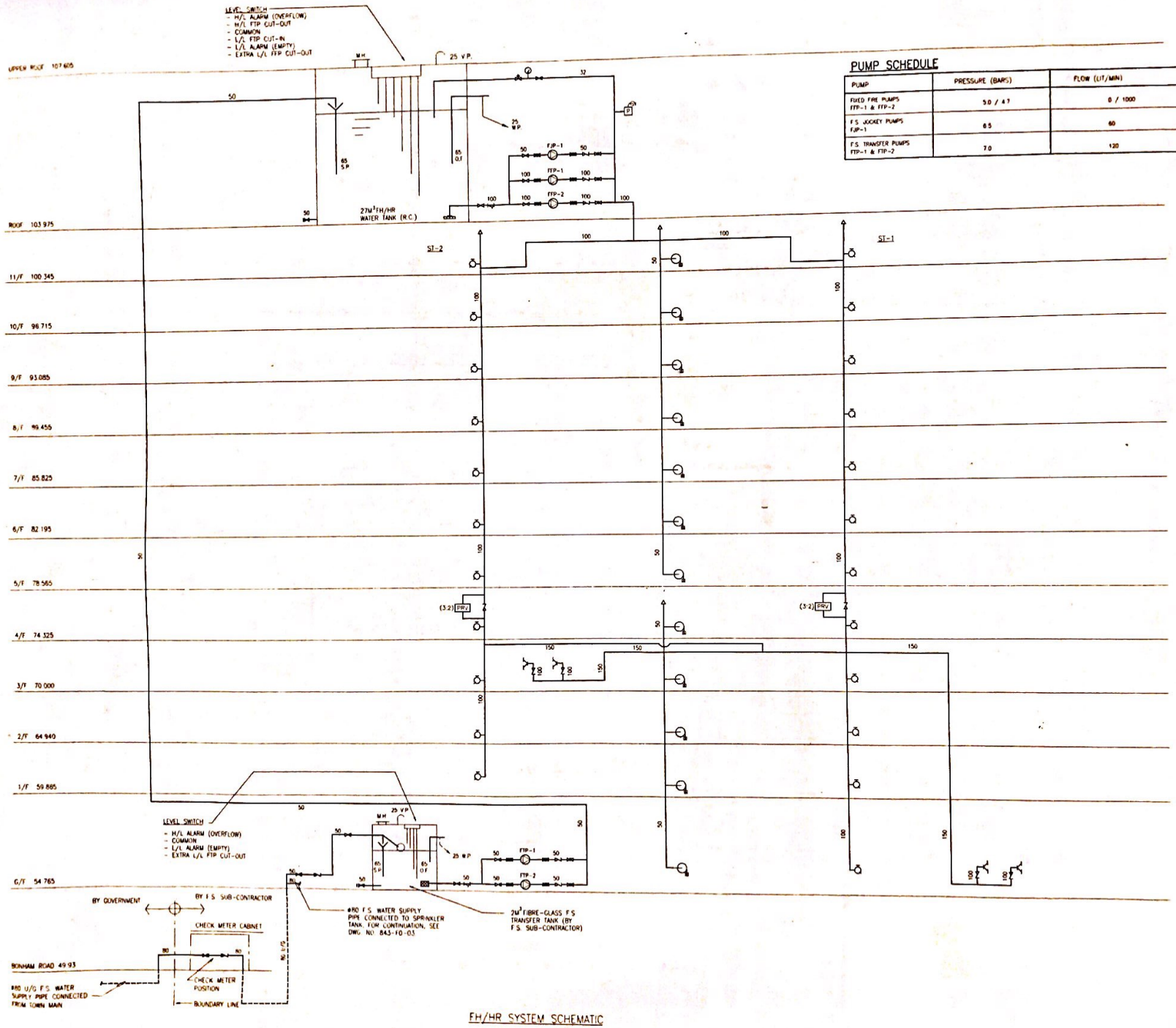

FH/HR SYSTEM SCHEMATIC

PUMP SCHEDULE

PUMP	PRESSURE (BARS)	FLOW (LIT/MIN)
FIXED FIRE PUMPS FTP-1 & FTP-2	5.0 / 4.7	0 / 1000
F.S. JOCKEY PUMPS FJP-1	6.5	60
F.S. TRANSFER PUMPS FTP-1 & FTP-2	7.0	120

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FIRE SERVICES
FH/HR SYSTEM SCHEMATIC

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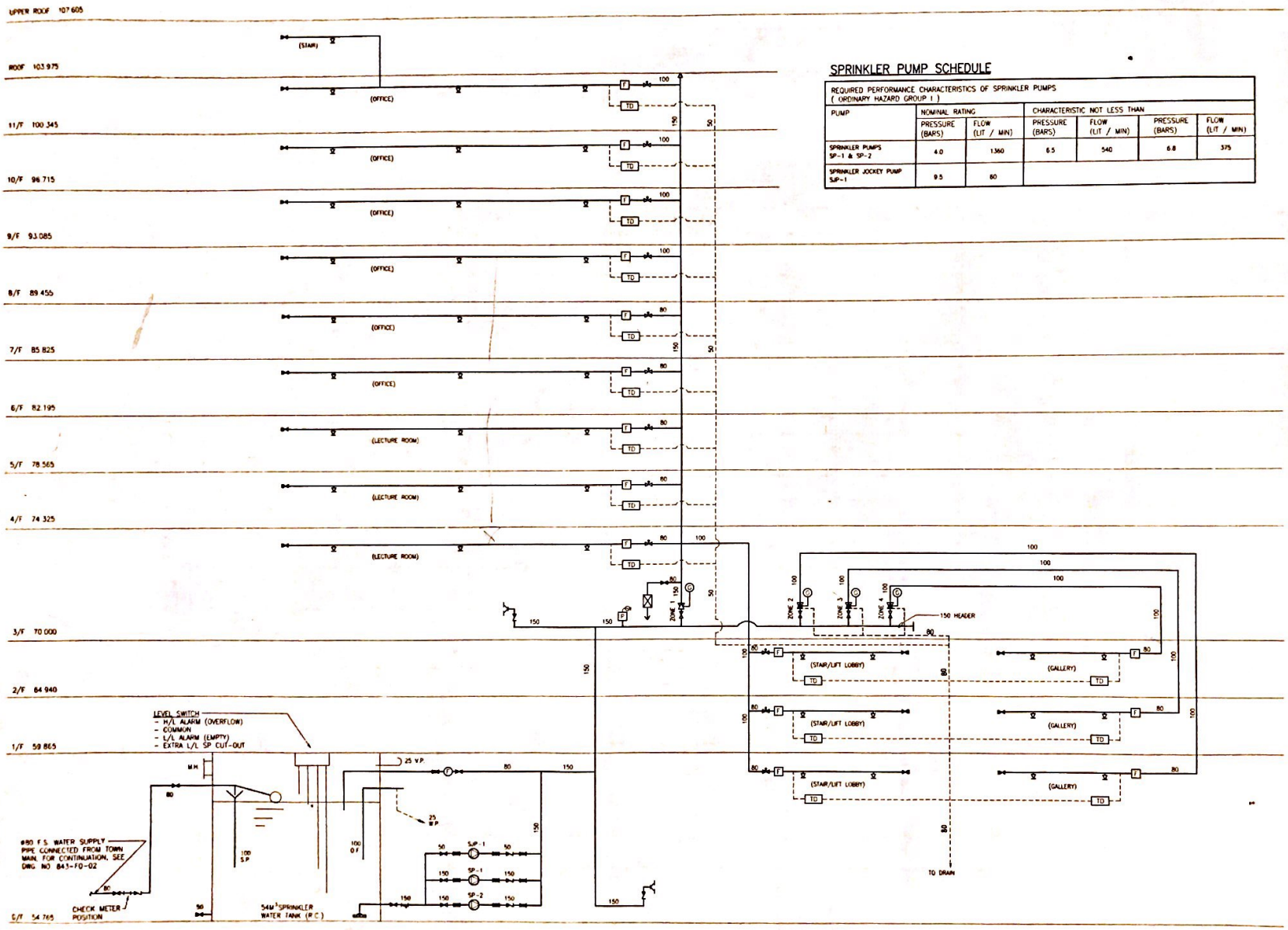

SPRINKLER SYSTEM SCHEMATIC

(ORDINARY HAZARD GROUP I)

SPRINKLER PUMP SCHEDULE

REQUIRED PERFORMANCE CHARACTERISTICS OF SPRINKLER PUMPS
(ORDINARY HAZARD GROUP I)

PUMP	NOMINAL RATING		CHARACTERISTIC NOT LESS THAN			
	PRESSURE (BARS)	FLOW (LIT / MIN)	PRESSURE (BARS)	FLOW (LIT / MIN)	PRESSURE (BARS)	FLOW (LIT / MIN)
SPRINKLER PUMPS SP-1 & SP-2	4.0	1360	6.5	540	6.8	375
SPRINKLER JOCKEY PUMP SJP-1	9.5	60				

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TITLE
FIRE SERVICES
SPRINKLER SYSTEM SCHEMATIC

843-F0-03

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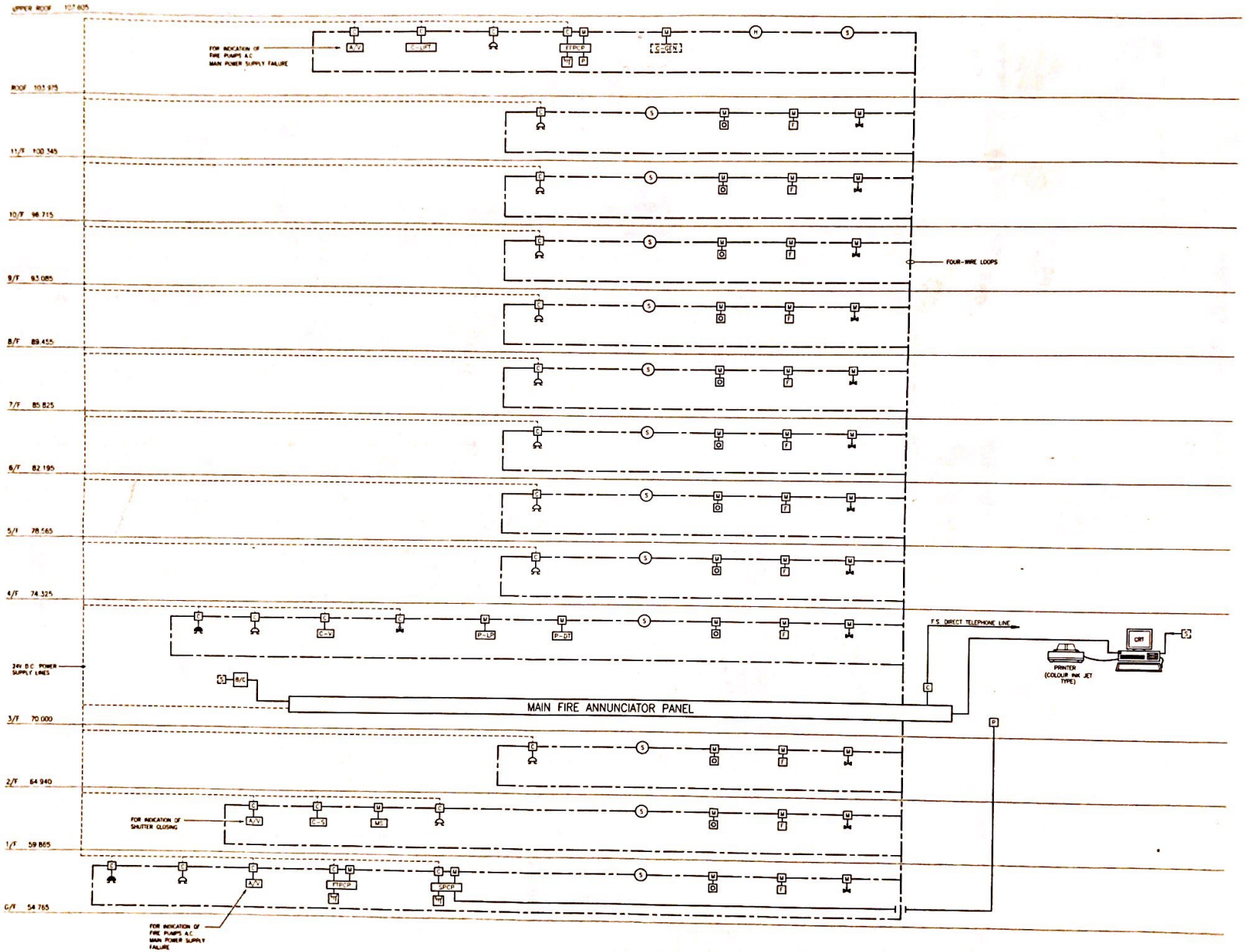

NOTES:

1. THE SYSTEM SHALL BE MICROPROCESSOR BASED ANALOGUE AND ADDRESSABLE TYPE FIRE DETECTION AND ALARM SYSTEM. THIS SCHEMATIC SHOWS CONCEPTUAL DESIGN AND THE DETAILED LAYOUT AND WIRING DESIGN SHALL BE PROVIDED BY THE F.S. SUB-CONTRACTOR ACCORDING TO MANUFACTURER'S DESIGN AND INSTALLATION MANUAL.
2. ALL SYSTEM COMMUNICATION CABLE WIRING AND 24V D.C. POWER LINES SHALL BE MINIMUM SIZE OF 1.5mm COPPER PVC INSULATED CABLE OR SPECIAL CABLES AS REQUIRED BY THE MANUFACTURER INSIDE G.I. CONDUITS OR TRUNKING.
3. FAULT ISOLATOR MODULES SHALL BE PLACED EVERY 25 SENSING DEVICES TO LIMIT THE NUMBER LOST IN THE EVENT OF A SHORT-CIRCUIT.
4. 24V D.C. POWER SUPPLY LINE SHALL BE SUPERVISORY MONITORED AND SHALL BE WIRED IN A RING LOOP CIRCUIT SO THAT A SHORT CIRCUIT OR DISCONNECTION OF CIRCUIT FAULT AT A SINGLE POINT IN THE WIRING SHALL NOT RESULT IN LOSS OF POWER SUPPLY TO OTHER POINTS.
5. MONITORING MODULE OR CONTROL MODULE SHALL BE PROVIDED AND CONNECTED TO THE CONVENTIONAL EQUIPMENT OR CONTROLS WHICH ARE NOT ANALOGUE AND ADDRESSABLE TYPE.

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TITLE
FIRE SERVICES
FIRE DETECTION AND ALARM SYSTEM SCHEMATIC

843-FS-04

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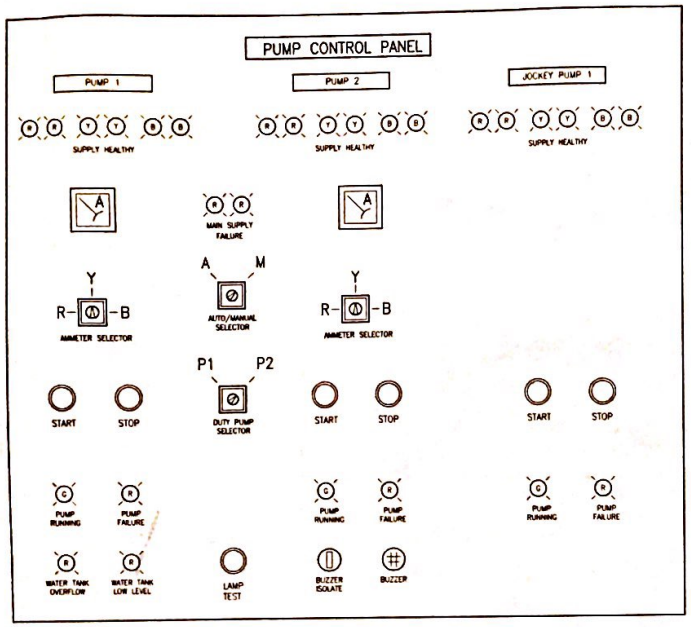
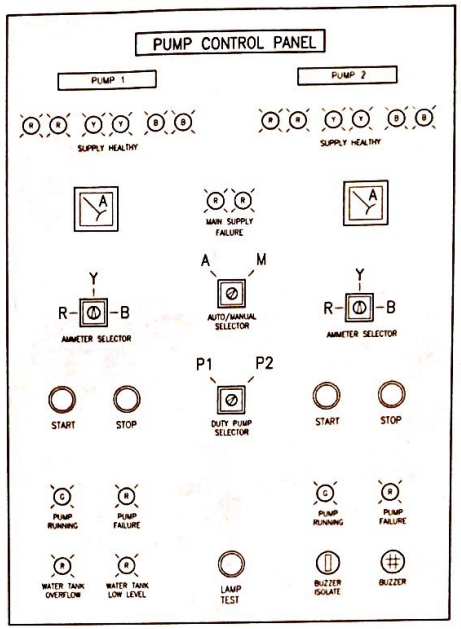
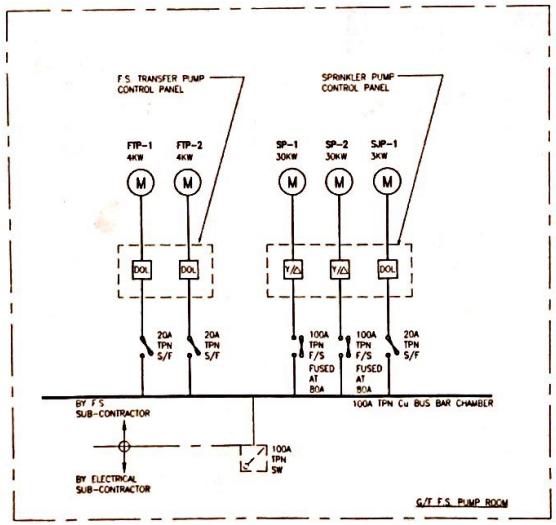
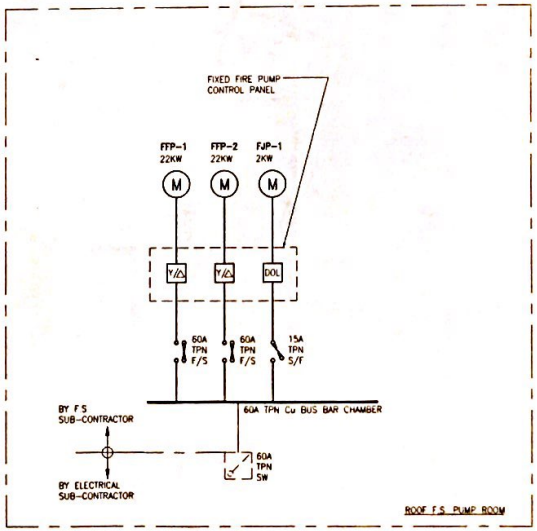


PUMP CONTROL PANEL LAYOUT (FOR SP & FFP)



PUMP CONTROL PANEL LAYOUT (FOR FTP)





FIRE PUMP POWER SUPPLY SCHEMATIC

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FIRE SERVICES
FIRE PUMP POWER SUPPLY SCHEMATIC AND PUMP CONTROL PANEL LAYOUT.

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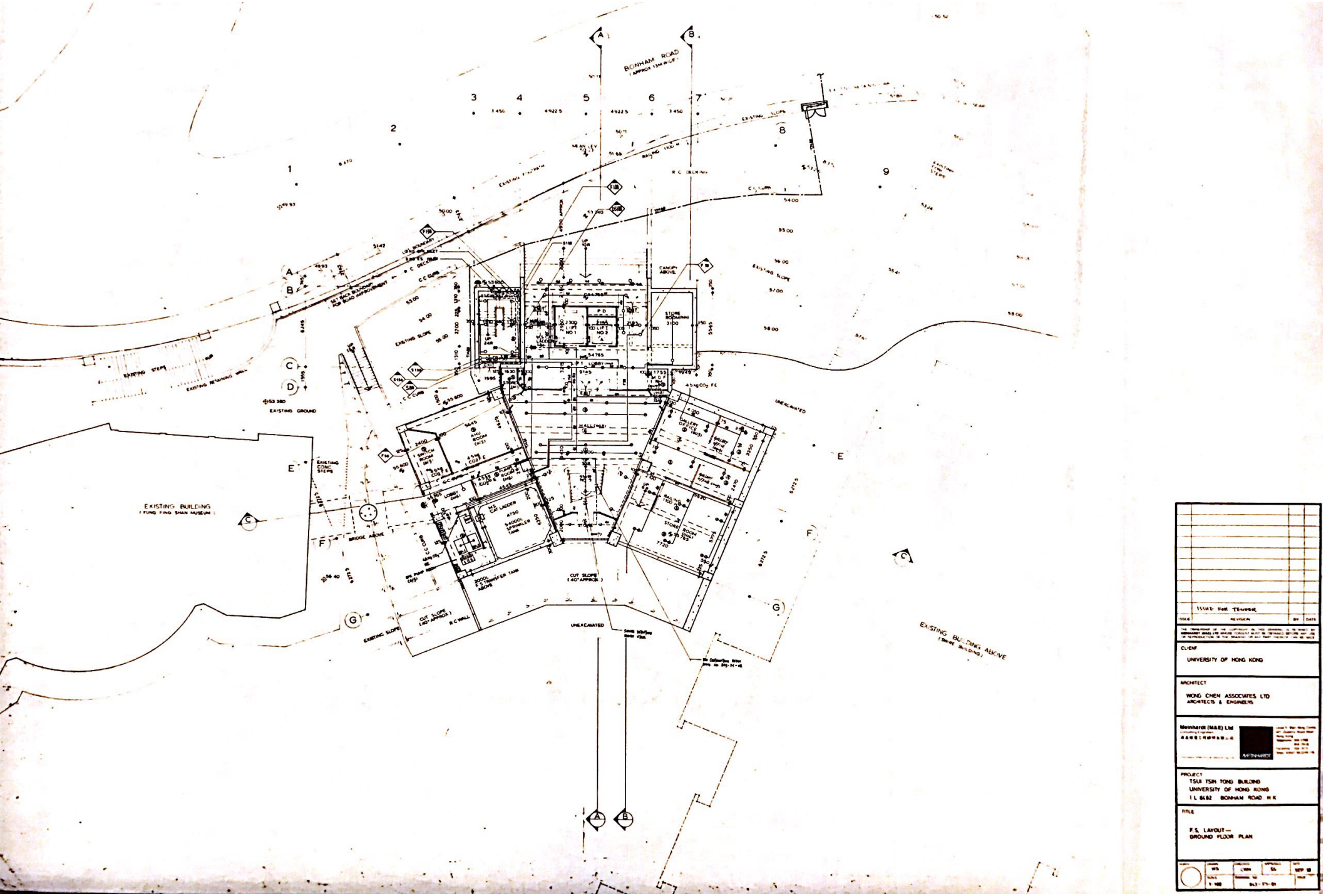

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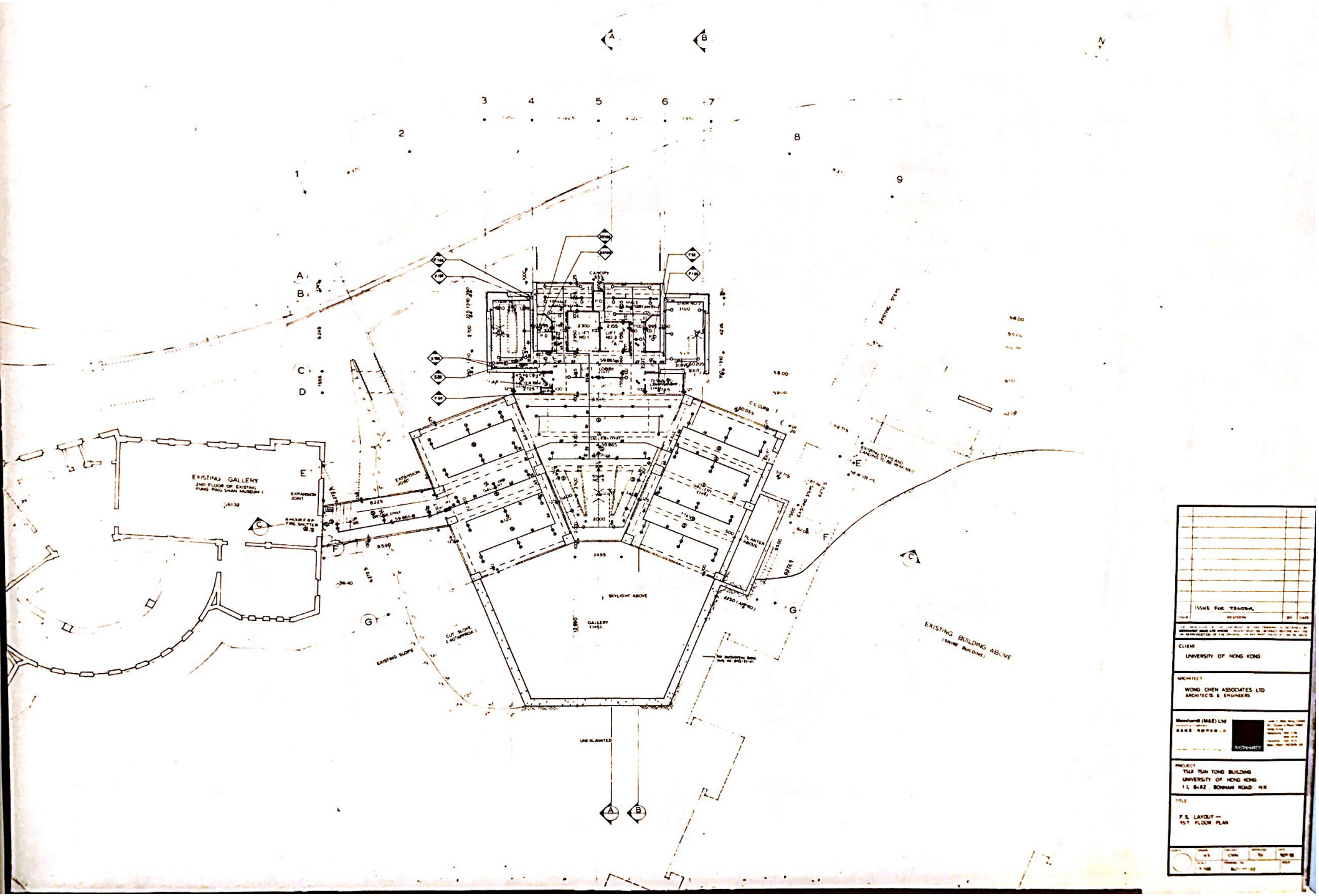

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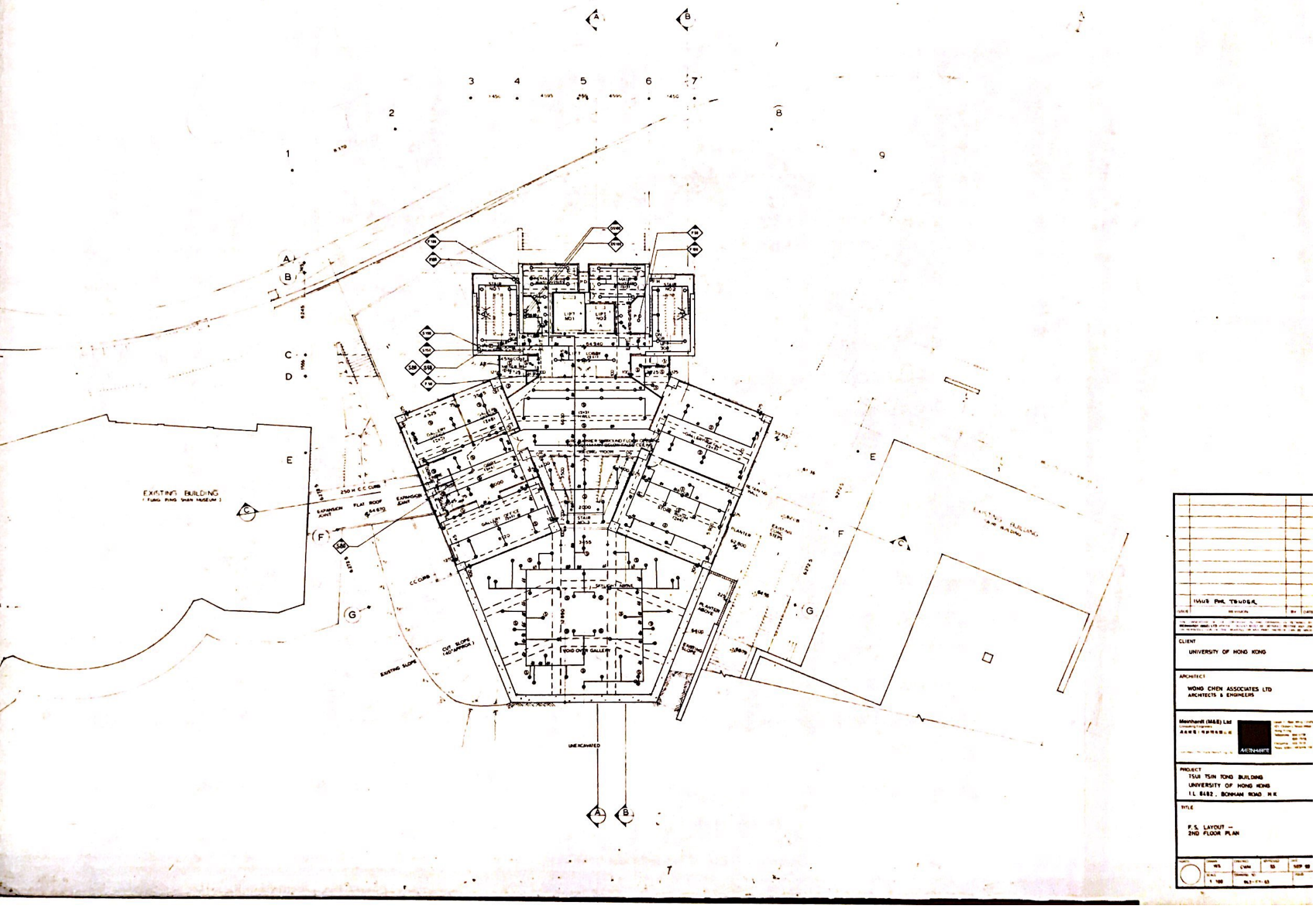

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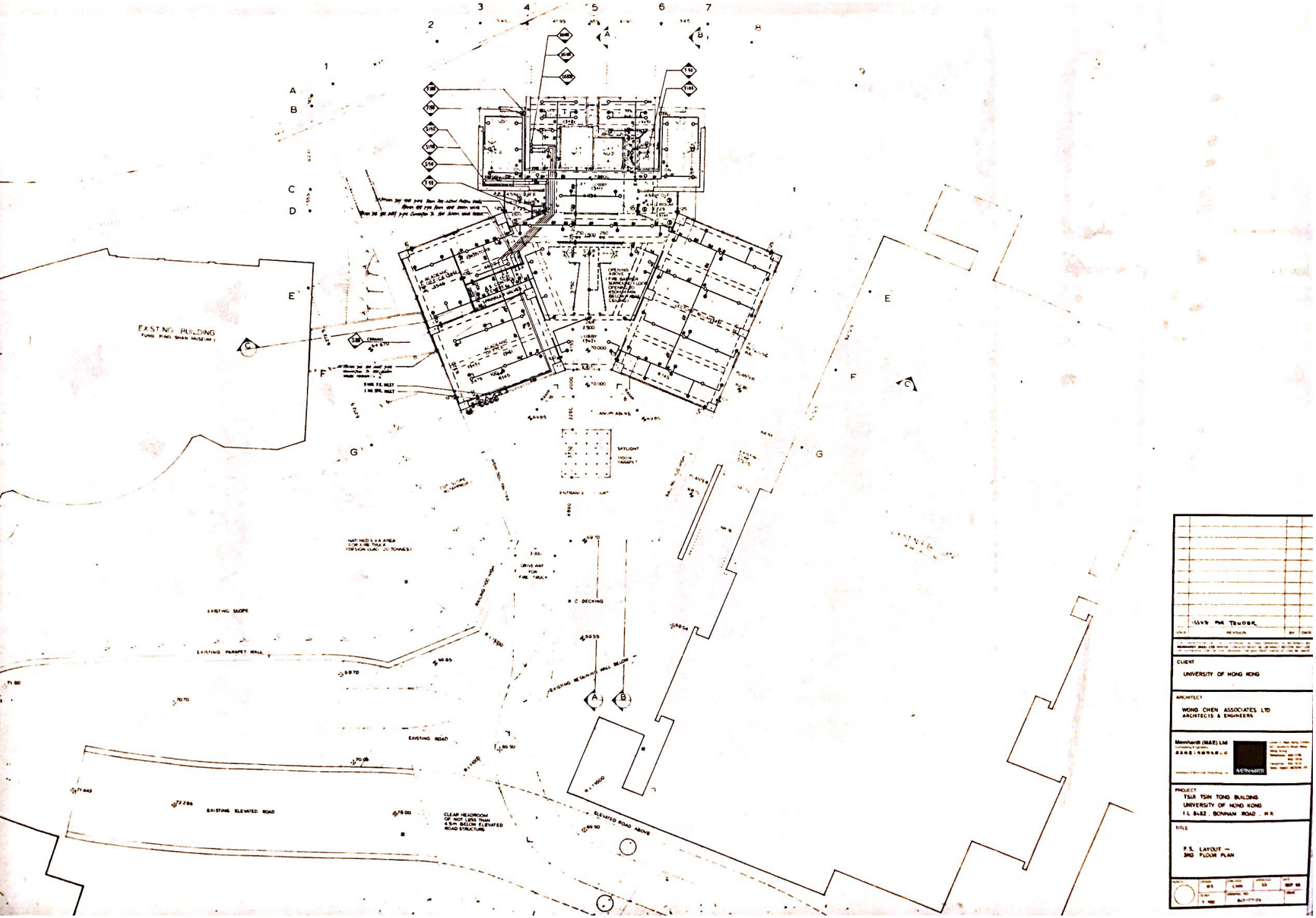

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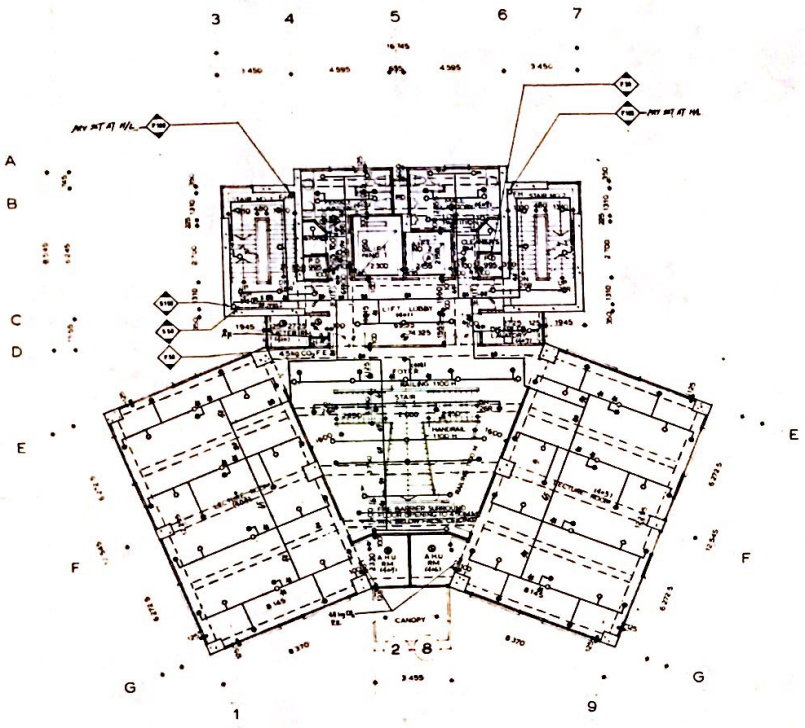
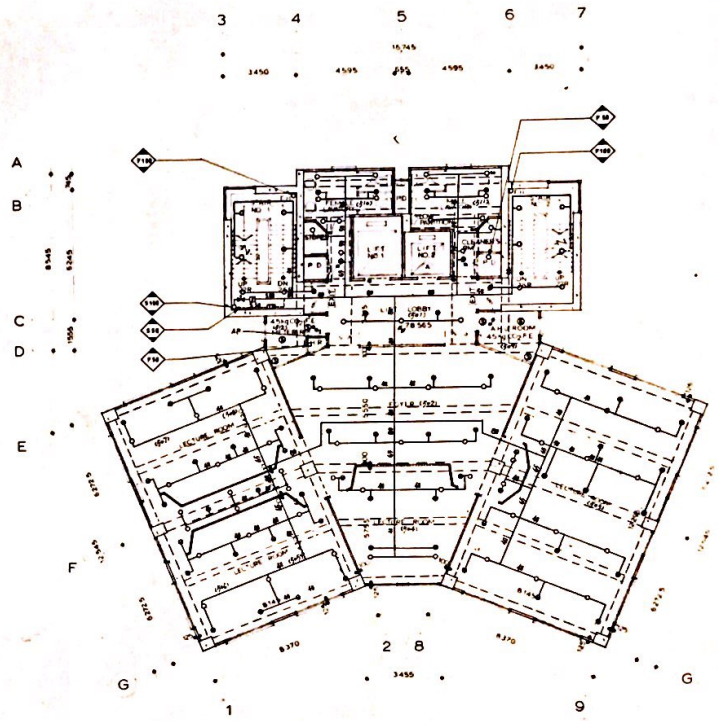


4TH FLOOR PLAN



5TH FLOOR PLAN

(DETAILED DIMENSIONS OF BUILDING CORE ARE THE SAME AS THOSE SHOWN ON FOURTH FLOOR PLAN)

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TITLE
F.S. LAYOUT –
4TH AND 5TH FLOOR PLAN

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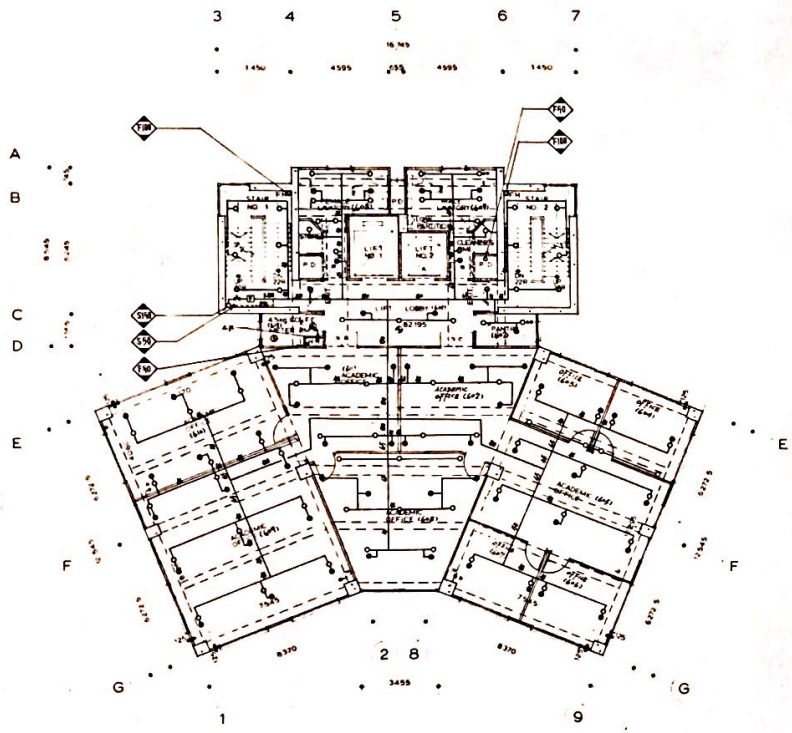
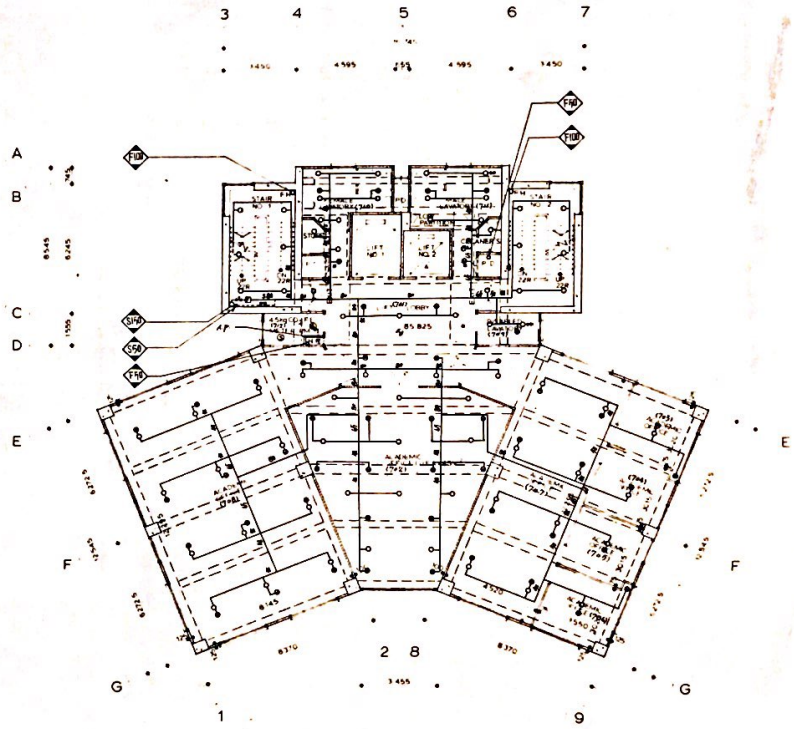


6TH FLOOR PLAN



7TH FLOOR PLAN

WINDOW AREA DEFICIENCY CALCULATIONS

USABLE FLOOR AREA	65	m^2
WINDOW AREA REQD	6.5	m^2
WINDOW AREA PROD	3.1	m^2
DEFICIENCY	52%	
OPENABLE AREA REQD	4.1	m^2
OPENABLE AREA PROD	3.1	m^2
DEFICIENCY	24%	

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TITLE
F.S. LAYOUT —
6TH AND 7TH FLOOR PLAN

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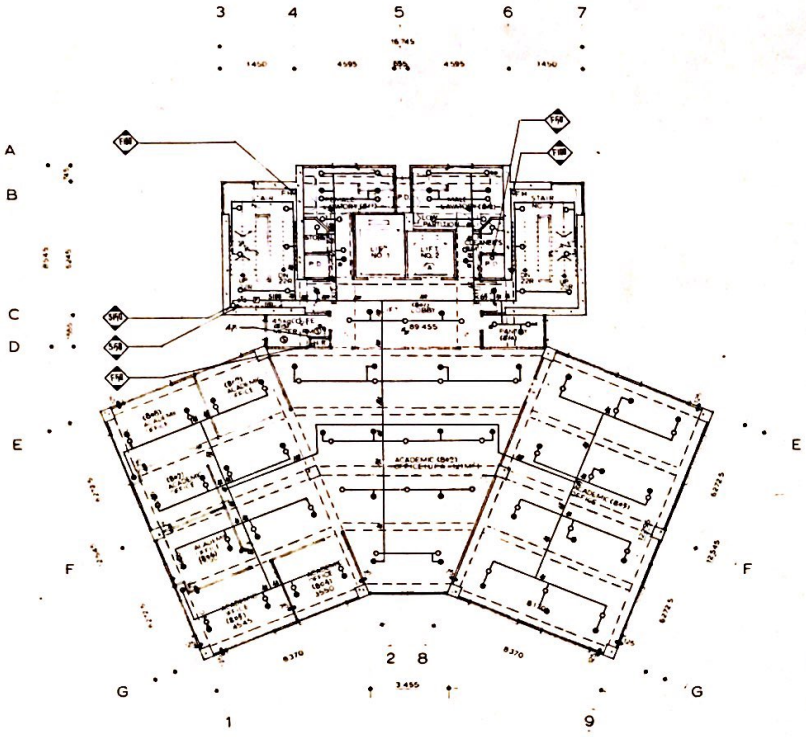
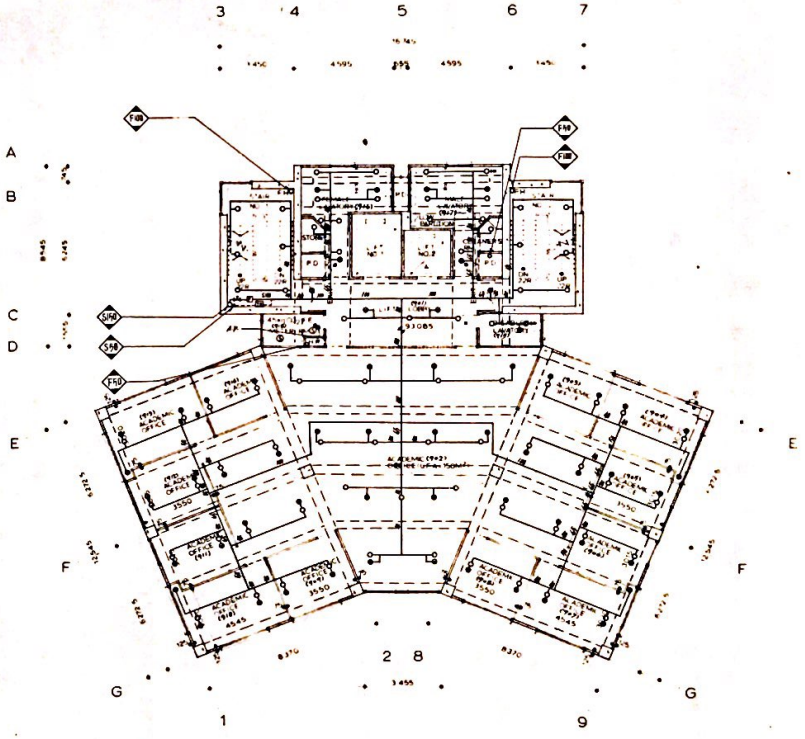


8TH FLOOR PLAN

WINDOW AREA DEFICIENCY CALCULATIONS

USABLE FLOOR AREA	= 121	m^2
WINDOW AREA REQD	= 12.1	m^2
WINDOW AREA PROD	= 3.1	m^2
DEFICIENCY	= 74%	
OPENABLE AREA REQD	= 7.6	m^2
OPENABLE AREA PROD	= 3.1	m^2
DEFICIENCY	= 59%	



9TH FLOOR PLAN

WINDOW AREA DEFICIENCY CALCULATIONS

USABLE FLOOR AREA	= 150	m^2
WINDOW AREA REQD	= 15	m^2
WINDOW AREA PROD	= 3.1	m^2
DEFICIENCY	= 79%	
OPENABLE AREA REQD	= 9.4	m^2
OPENABLE AREA PROD	= 3.1	m^2
DEFICIENCY	= 67%	

DATE	REVISION	BY	DATE
	ISSUE FOR TENDER		

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ARCHITECT
WONG CHEN ASSOCIATES LTD
ARCHITECTS & ENGINEERS

Meinhardt (M&E) Ltd

PROJECT
TSUI TSIN TONG BUILDING
UNIVERSITY OF HONG KONG
I.L. 8482, BONHAM ROAD, H.K.

TITLE
F.S. LAYOUT —
8TH AND 9TH FLOOR PLAN

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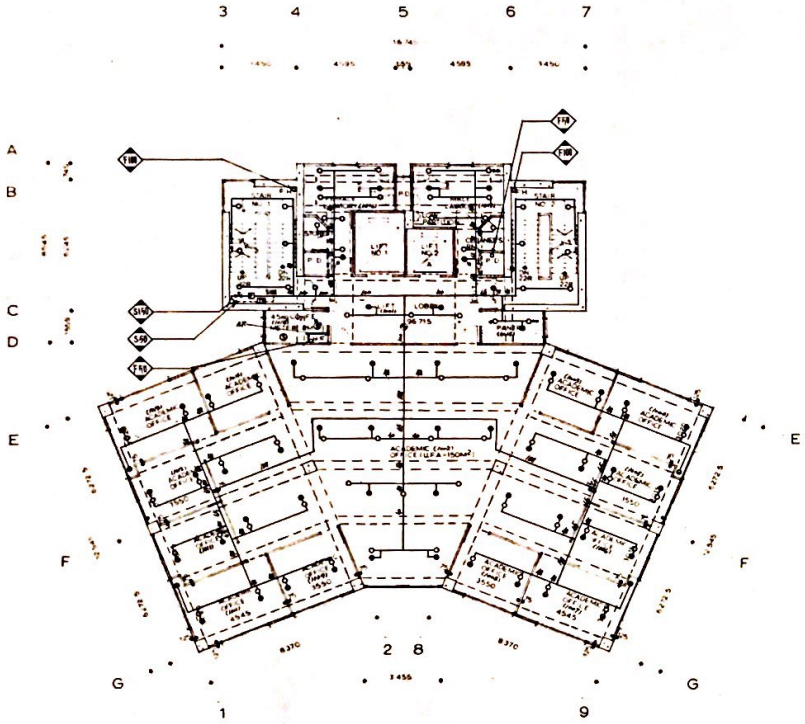
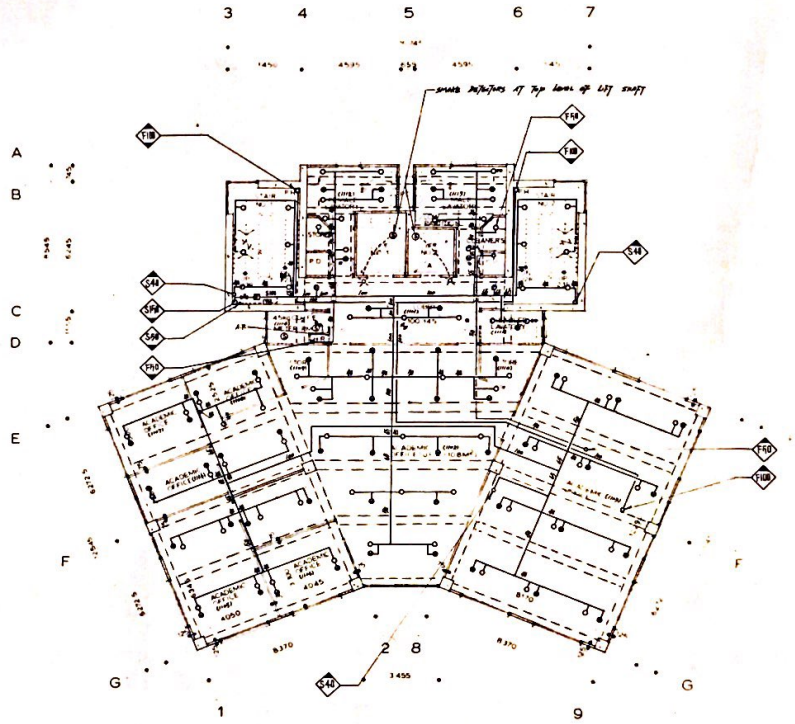


10TH FLOOR PLAN

WINDOW AREA DEFICIENCY CALCULATIONS

USABLE FLOOR AREA	=	150 m^2
WINDOW AREA REQ'D	=	15 m^2
WINDOW AREA PROD	=	31 m^2
DEFICIENCY	=	79%
OPENABLE AREA REQ'D	=	9.4 m^2
OPENABLE AREA PROD	=	3.1 m^2
DEFICIENCY	=	67%



11 TH FLOOR PLAN

WINDOW AREA DEFICIENCY CALCULATIONS

USABLE FLOOR AREA	=	108 m^2
WINDOW AREA REQ'D	=	10.8 m^2
WINDOW AREA PROD	=	3.1 m^2
DEFICIENCY	=	71%
OPENABLE AREA REQ'D	=	6.8 m^2
OPENABLE AREA PROD	=	3.1 m^2
DEFICIENCY	=	54%

ISSUE FOR TENDER

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ARCHITECT
WONG CHEN ASSOCIATES LTD
ARCHITECTS & ENGINEERS

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MEINHARDT

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TITLE
F.S. LAYOUT –
10TH AND 11TH FLOOR PLAN

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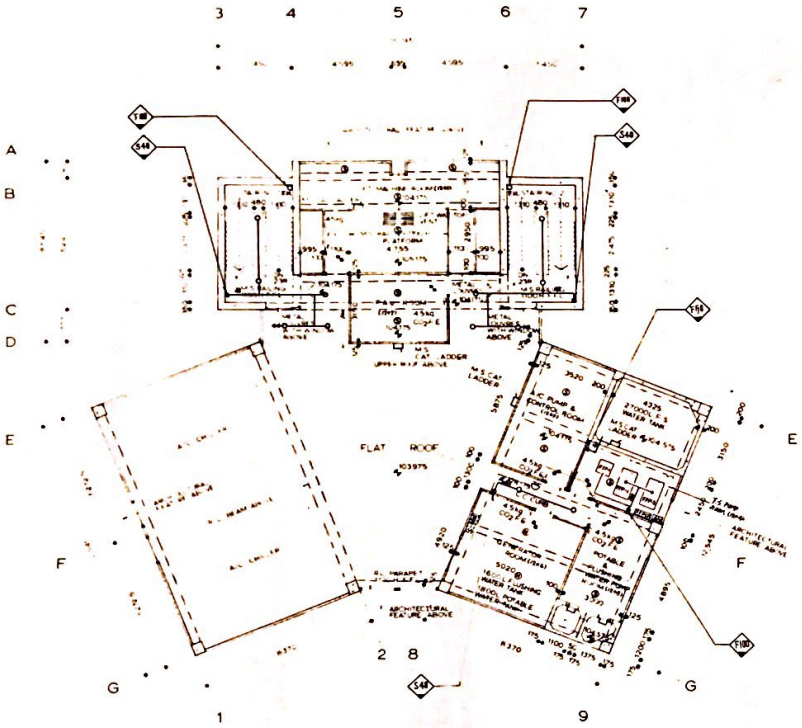
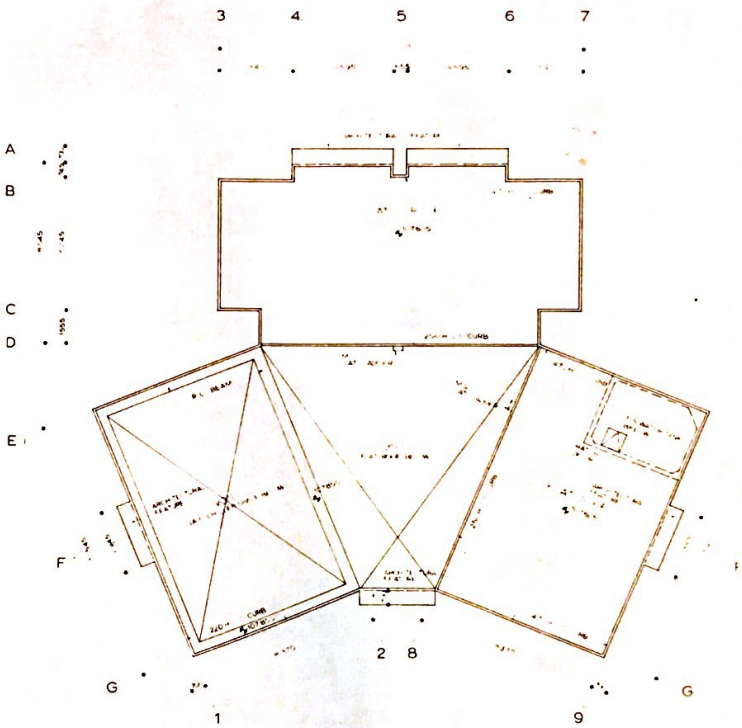


ROOF PLAN



UPPER ROOF PLAN

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WONG CHEN ASSOCIATES LTD
ARCHITECTS & ENGINEERS

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Consulting Engineers

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TITLE
F.S. LAYOUT –
ROOF AND UPPER ROOF PLAN

WS | CWM | SS

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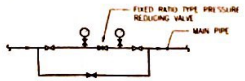
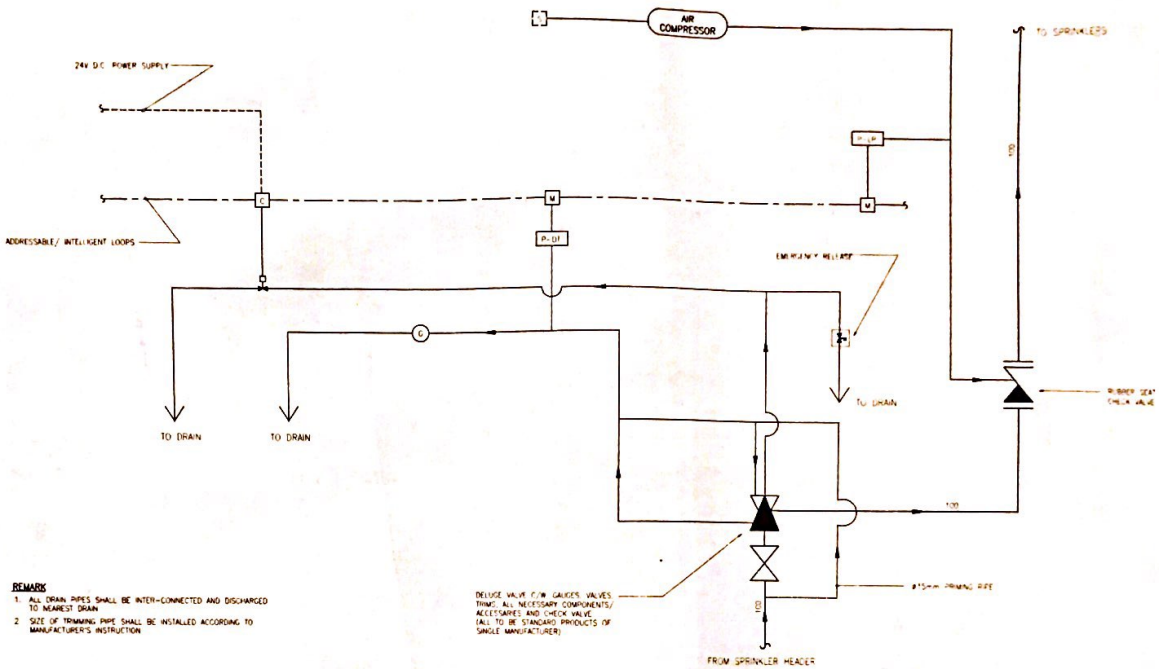


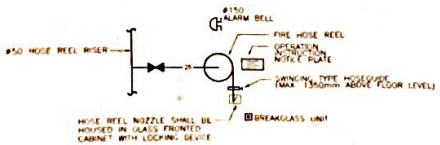
PRESSURE REDUCING VALVE ASSEMBLY DETAIL



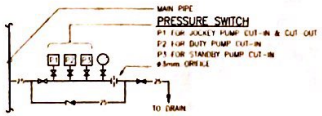
REMARK

1. ALL DRAIN PIPES SHALL BE INTER-CONNECTED AND DISCHARGED TO NEAREST DRAIN
2. SIZE OF TRIMMING PIPE SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTION

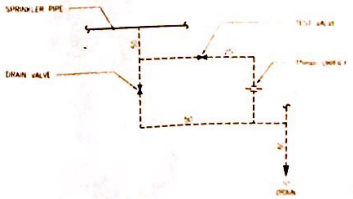
TYPICAL INSTALLATION DIAGRAM FOR PRE-ACTION SPRINKLER CONTROL VALVE SET



FIRE HOSE REEL DETAIL



PRESSURE SWITCH ASSEMBLY DETAIL



SPRINKLER FLOW SWITCH TEST AND DRAIN ASSEMBLY DETAIL

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FIRE SERVICES

FIRE SERVICES DETAILS

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