

THE PEOPLE'S REPUBLIC OF BANGLADESH

TECHNICAL SPECIFICATION
OF
NATIONAL BROADCASTING HOUSE

VOLUME—IV

DRAWINGS
FOR
BUILDING EQUIPMENT

FEBRUARY, 1981

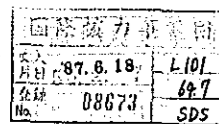
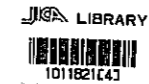
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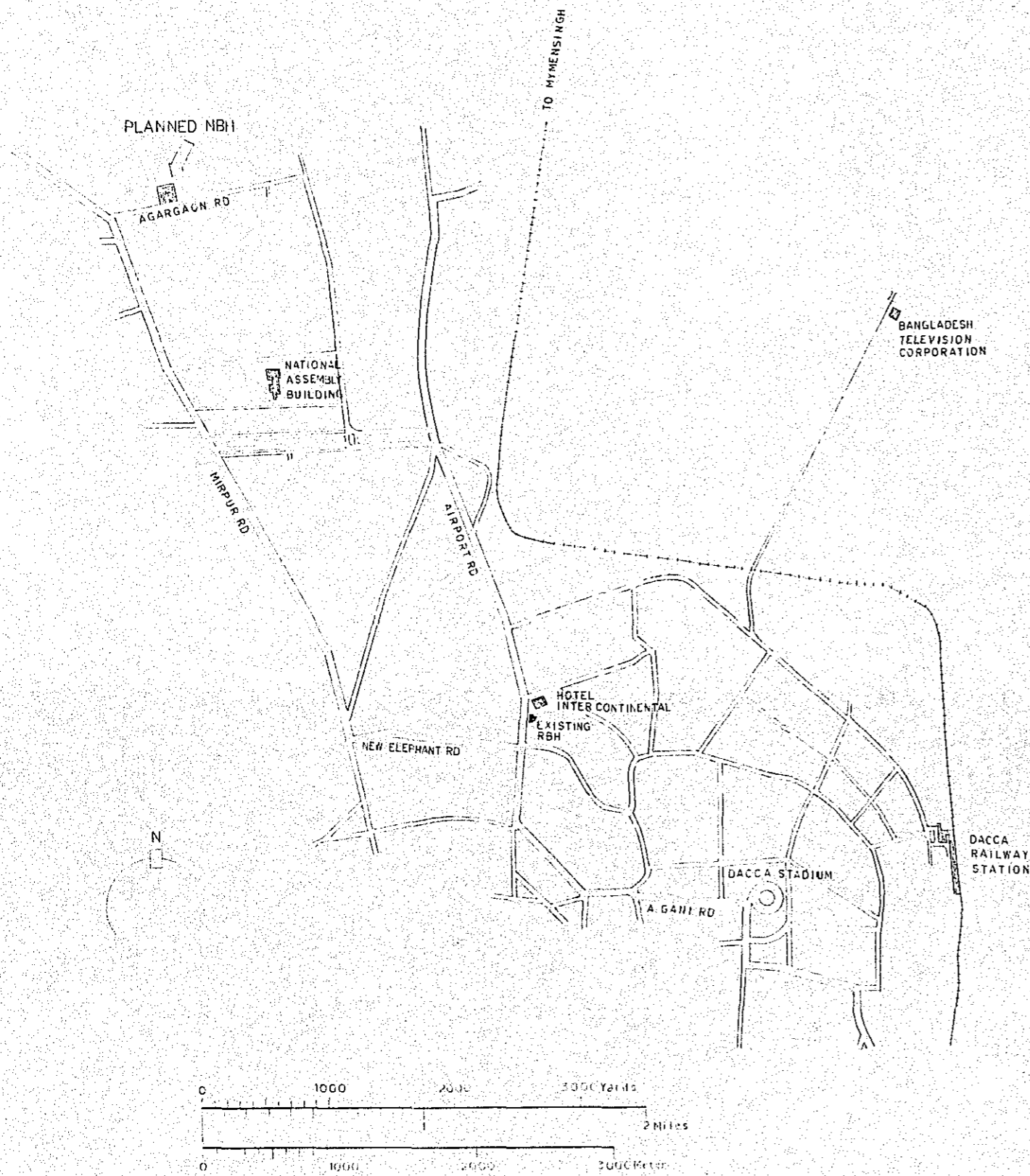
NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH

ELECTRIC, AIR CONDITIONING AND
PLUMBING DRAWINGS



JAPAN INTERNATIONAL CO-OPERATION AGENCY

ELECTRICAL INSTALLATION WORK



LOCATION MAP SCALE 1:40,000

TABLE OF DRAWING

DWG. NO.	DRAWING ITEM	SCALE
E - 1	LOCATION MAP AND TABLE OF DRAWING	—
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E - 4	SINGLE LINE CONNECTION DIAGRAM OF SUB-STATION	—
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E - 9	MAIN-LINE, POWER CONTROL AND EMERGENCY ALARM PLAN . A (GF)	1/100
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E - 24	DITTO	S/H (1F) 1/100
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E - 26	DITTO	S/H (RF) 1/100
E - 27	LIGHTNING CONDUCTOR PLAN . A, S/H	1/20, 1/100, 1/200
E - 28		
E - 29		
E - 30		

NOTE: A ANNEX
S/H STUDIO HOUSE

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	E-1
	LOCATION MAP AND TABLE OF DRAWING	Scale	—
Approved by	<i>[Signature]</i>	Checked by	<i>[Signature]</i>
Date	FEB 1961		
J.E.C. JAPAN ENGINEERING CONSULTANTS CO., LTD.			

SYMBOL	ITEM	SPECIFICATION	REMARKS
	POWER CONTROL BOARD	SEE DWG. NO. E-7	
	DISTRIBUTION BOARD	SEE DWG. NO. E-14	
	ALARM PANEL	AP-1, AP-2 SEE DWG. NO. E-8	
	EARTH TERMINAL		
	BOX TYPE SWITCH		
	MOTOR		
	FLOATLESS SWITCH	2P, 3P, 4P, 5P	
	FLOATLESS SWITCH	SUPPLY AND FIXING BY PLUMBING WORK	
	EMERGENCY ALARM PANEL	EAP-1, EAP-2 SEE DWG. NO. E-8	
	BELL	150 ^W , 24 ^V	
	INDICATOR LAMP (RED)	5 ^W , 24 ^V	
	PUSH BUTTON	24 ^V	
	FL 40 ^W x 2	SEE DWG. NO. E-15	
	FL 40 ^W x 2 + IL 60 ^W	GENERATOR + BATTERY	DITTO
	FL 40 ^W x 1		DITTO
	FL 40 ^W x 1	GENERATOR	DITTO
	IL 200 ^W , IL 100 ^W , IL 60 ^W		DITTO
	IL 60 ^W	GENERATOR + BATTERY	DITTO
	IL 60 ^W	BATTERY	DITTO
	IL 100 ^W , IL 60 ^W , IL 20 ^W x 2	GENERATOR + BATTERY	DITTO
	SOCKET OUTLET	DUPLEX 2P, 15 ^A , 250 ^V GROUNDING TYPE WITH PLUG	
	SOCKET OUTLET	SINGLE 2P, 15 ^A , 250 ^V GROUNDING TYPE WITH PLUG	
	SOCKET OUTLET (BOX TYPE)	SINGLE 2P, 30 ^A , 250 ^V x 2 SUPPLY BY BROADCASTING WORK	MAX 2kW
	SOCKET OUTLET (BOX TYPE)	DITTO	MAX 2kW FLOOR M.T.D.
	TUMBLER SWITCH	SINGLE POLE 10 ^A , 300 ^V	
	TUMBLER SWITCH	3 WAY 10 ^A , 300 ^V	
	PILOT LAMP FOR EXHAUST FAN	1 ^A , 250 ^V	
	REGULATOR FOR CEILING FAN	5-SPEED, 3-SPEED CONTROL	
	AUTO SWITCH	3A	
	CEILING FAN	1,400 ^W SWEEP WITH CANOPY DOWN ROD L=600	
	CEILING FAN	400 ^W SWEEP WITH CANOPY	
	EXHAUST FAN	SUPPLY BY AIR CONDITIONING WORK	
	MAIN DISTRIBUTION FRAME		
	TERMINAL BOARD	TELEPHONE, CLOCK AND MONITOR	WITH TERMINAL AND SEPARATOR
	TELEPHONE OUTLET	WITH NOZZLE PLATE	HALL M.T.D.
	CLOCK (30S), (15)	OUTLET BOX WITH COVER (102 x 102 x 44)	WALL HANGING TYPE
	CLOCK	OUTLET BOX WITH BLIND PLATE	FOR FUTURE
	HOUSE MONITOR	OUTLET BOX WITH COVER (102 x 102 x 44)	WALL HANGING TYPE
	SPEAKER		CEILING M.T.D.
	SPEAKER	OUTLET BOX WITH COVER (102 x 102 x 44)	WALL HANGING TYPE
	INCOM OUTLET	WITH NOZZLE PLATE (119 x 119 x 54)	WALL M.T.D.
	PULL BOX		
	JUNCTION BOX	OUTLET BOX WITH BLIND PLATE	WALL M.T.D.
	JUNCTION BOX	OUTLET BOX WITH COVER	FLOOR M.T.D.
	HANDHOLE		
	CABLE MARKER		
	CONDUIT UP		
	CONDUIT THROUGH		
	CONDUIT DOWN		

ITEM	SPECIFICATION	REMARKS
	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL	
	BRANCH CIRCUIT CONCEALED IN FLOOR	
	BRANCH CIRCUIT CONCEALED IN CEILING OR UNDERGROUND	
	BRANCH CIRCUIT EXPOSE	
	EMPTY CONDUIT	

DISTRIBUTION BOARD CIRCUIT SCHEDULE

CIRCUIT NO.	PHASE, VOLTAGE	SPECIFICATION	REMARKS
○	1 ^Φ 240 ^V	GENERAL LINE	
□	1 ^Φ 240 ^V	EMERGENCY LINE (GENERATOR)	
○	1 ^Φ 240 ^V	EMERGENCY LINE (BATTERY)	
□	1 ^Φ 240 ^V	EMERGENCY LINE (GENERATOR+BATTERY)	

WIRING FOR LIGHTING

ITEM	SPECIFICATION	REMARKS
	VV-F 1.6-3C	
	VV-F 1.6-2C + 1.6-2C	
	VV-F 1.6-2C + 1.6-3C	
	VV-F 1.6-3C + 1.6-3C	
	IV 1.6 x 2 (19)	
	IV 1.6 x 3 (19)	
	IV 1.6 x 4 (25)	
	IV 1.6 x 5 (25)	

WIRING FOR SOCKET OUTLET

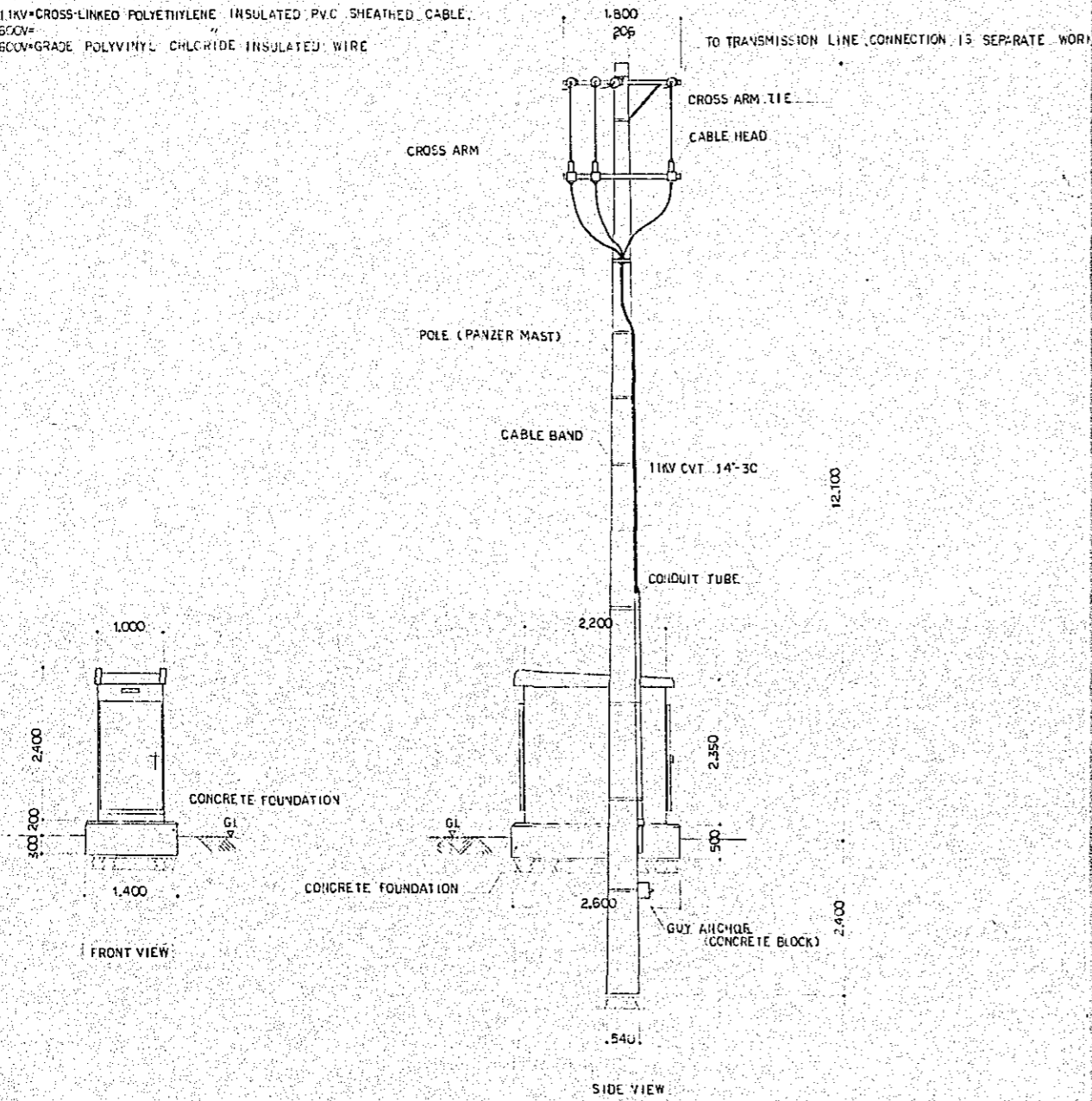
ITEM	SPECIFICATION	REMARKS
	IV 1.6 x 2, E 1.6 (19)	⊙ ^F
	IV 1.6 x 2, E 1.6 (19)	⊙
	IV 2.0 x 2, E 2.0 (19)	⊙

NOTE ;

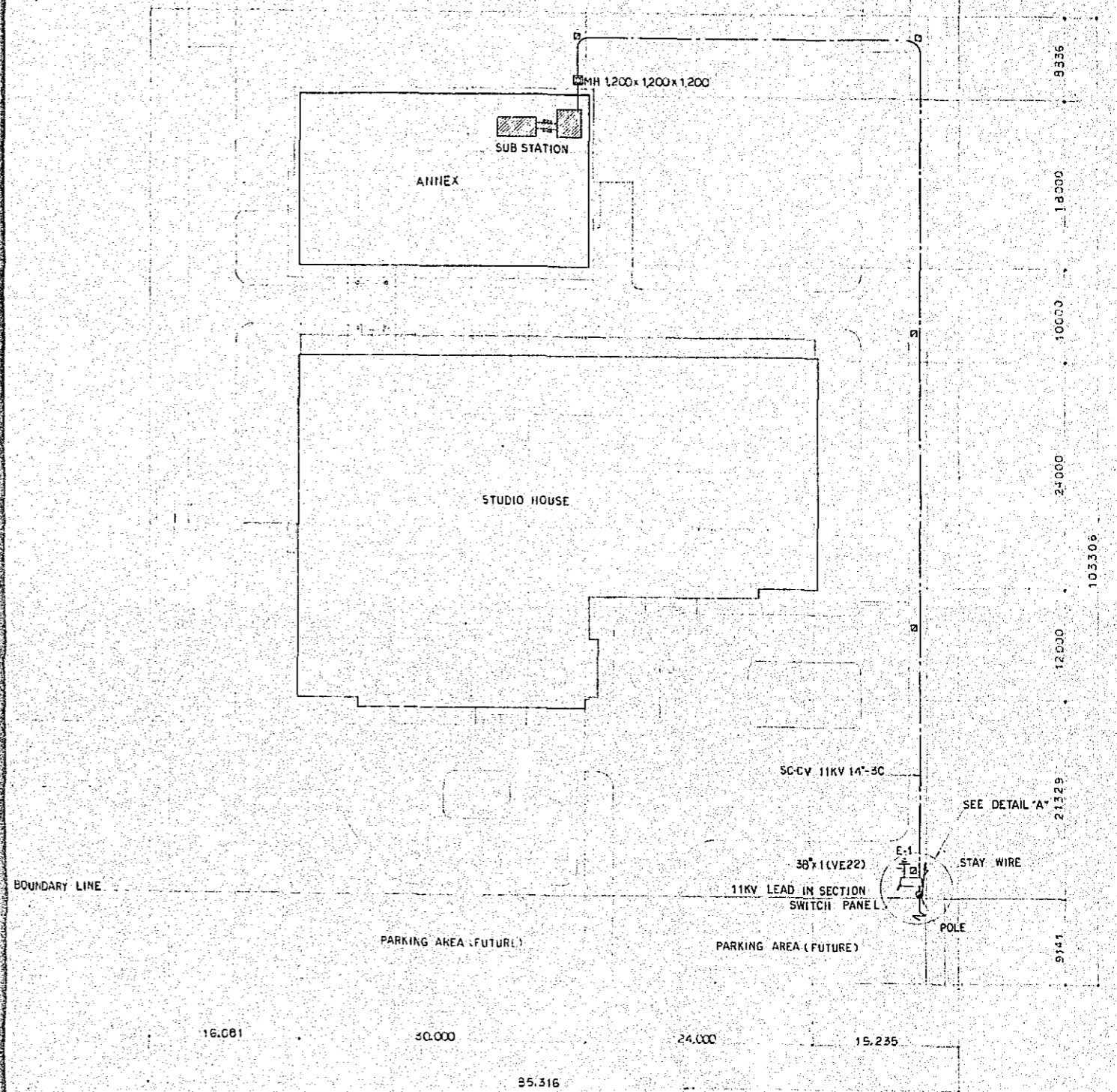
- VV-F 1.6-3C (19)
CONDUIT TUBE SIZE: 19mm
CABLE SIZE: 1.6mm
- 1.6 x 2 (19)
CONDUIT TUBE SIZE: 19mm
WIRE SIZE: 1.6mm
- CONDUIT CABLE

NOTE:
 - EARTHING TERMINAL SHALL BE PROVIDED FOR 11KV LEAD-IN SECTION SWITCH PANEL.
 - 1ST CLASS EARTHING SHALL BE PROVIDED FOR HIGH VOLTAGE EQUIPMENT WITH CONDUCTOR 38 x 1 (VE22)

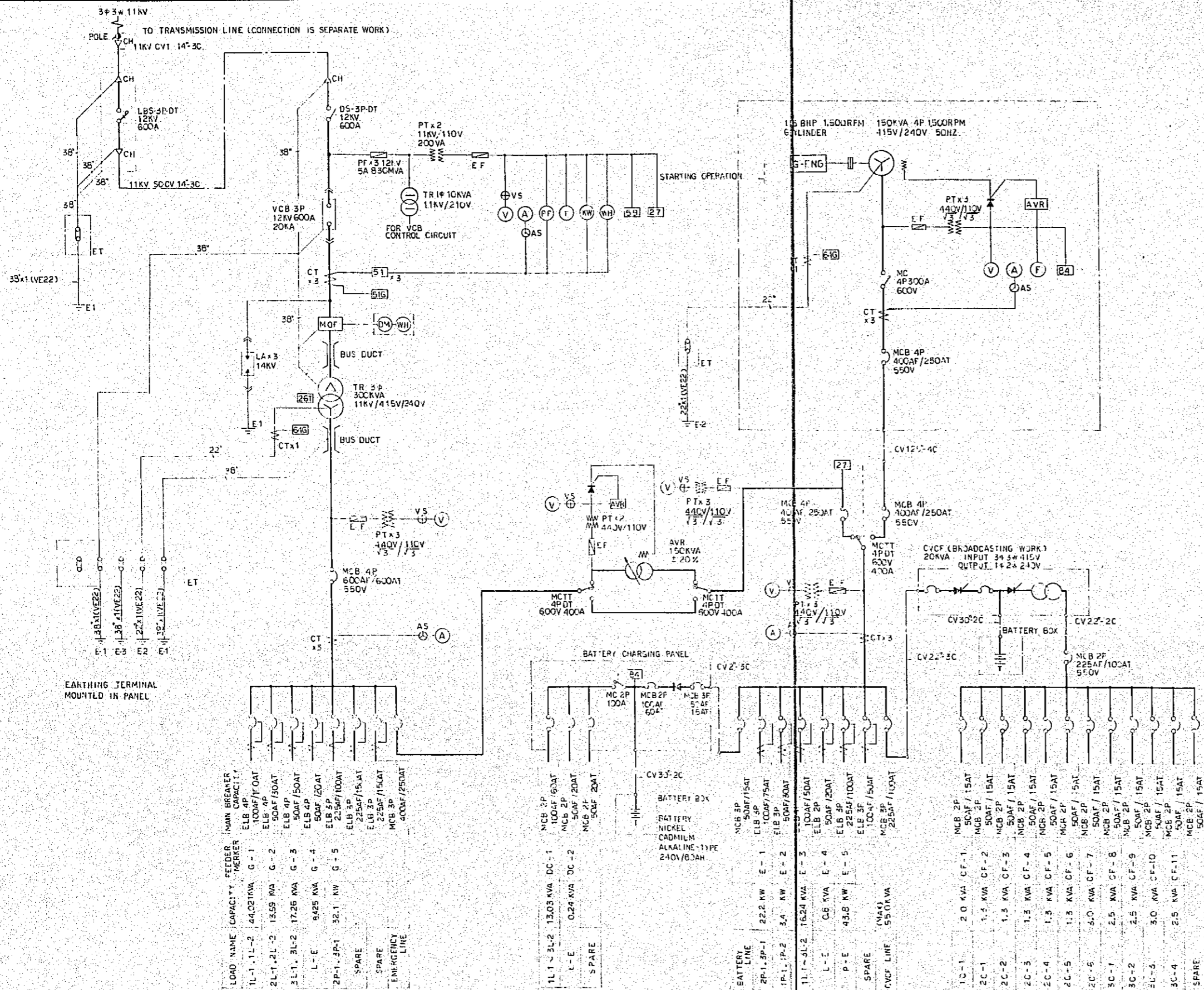
TYPICAL NOTE:
 11KV SC-CV-11KV-CROSS-LINKED POLYETHYLENE INSULATED CABLE COVERED WITH WELDED AND CORRUGATED STEEL TAPE, ARMORED PVC JACKETED
 11KV CVT 11KV-CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED CABLE, CV 600V
 IV-600V-GRADE POLYVINYL CHLORIDE INSULATED WIRE



[DETAIL 'A' S=1/50]



PROJECT	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	NO.	E-3
SCALE	EXTERIOR WORK (LEAD-IN CABLE PLAN)	SCALE	1/50, 1/300
DATE		DATE	FEB 1971
JAPAN ENGINEERING CONSULTANTS CO., LTD.			



LEGEND	
SYMBOL	ITEM
CH	CABLE HEAD
DS	DISCONNECTING SWITCH
VCB	VACUUM CIRCUIT BREAKER
MUF	METERING UNIT
TR	TRANSFORMER
LBS	LOAD BREAKER SWITCH
DM	MAXIMUM DEMAND METER
V	VOLTMETER
A	AMMETER
PF	POWER FACTOR METER
F	FREQUENCY METER
KW	K-WATT METER
WH	WATT-HOUR METER
PF	POWER FUSE
EF	ENCLOSED FUSE
PT	POTENTIAL TRANSFORMER
LA	LIGHTNING ARRESTER
SA	VOLTAGE RELAY
OV	OVER-VOLTAGE RELAY
UV	UNDER-VOLTAGE RELAY
OC	OVER-CURRENT RELAY
OCGR	OVER-CURRENT GROUND RELAY
OVGR	OVER-VOLTAGE GROUND RELAY
MCB	MOLDED CASE CIRCUIT BREAKER
DT	DOUBLE THROW TYPE
MC	ELECTROMAGNETIC CONTACTOR
ET	EARTH TERMINAL
AVR	AUTOMATIC VOLTAGE REGULATOR
GEN	GEN. ENGINE
ELB	EARTH LEAKAGE BREAKER
AS	AMMETER TRANSFER SWITCH
VS	VOLTMETER TRANSFER SWITCH
CT	CURRENT TRANSFORMER
TR	TRANSFORMER TEMPERATURE RELAY

TYPICAL NOTE:

E1. 1ST CLASS EARTHING. EARTHING RESISTANCE MAXIMUM 10 OHMS. EARTHING ELECTRODE COPPER PLATE 900x900x15mm SHALL BE PROVIDED.

E2. 2ND CLASS EARTHING. EARTHING RESISTANCE = $\frac{150}{\text{PRIMARY 1 PHASE EARTHING FAULT CURRENT}}$ OHM. MAX 5 OHMS. SIZE OF EARTHING ELECTRODE EQUALS 1ST CLASS EARTHING ELECTRODE.

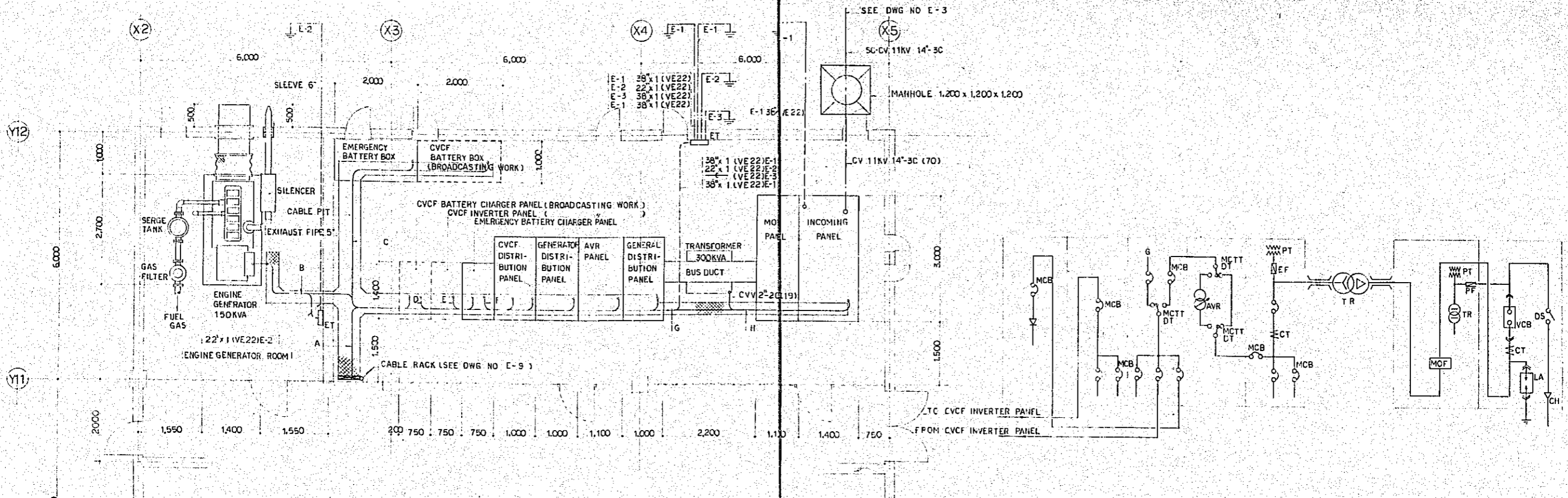
E3. EARTHING RESISTANCE MAXIMUM 100 OHMS. EARTHING ELECTRODE SECTIONAL INTER CONNECTING TYPE 14mm x 15mm x 2mm THICK PROVING WITH LEAD CONDUCTOR 22.5mm x 50mm & CR APPROVED EQUALS.

AUXILIARY EARTHING ELECTRODE SHALL BE INSTALLED WHEN EARTHING RESISTANCE CAN NOT GET IN E1, E2, E3, EARTHING.

LOAD NAME	CAPACITY	FEDER MERIER	MAIN BREAKER
1L-1, 1L-2	44.02 KVA	G-1	ELB 4P 100AF/10AT
2L-1, 2L-2	13.59 KVA	G-2	ELB 4P 50AF/50AT
3L-1, 3L-2	17.25 KVA	G-3	ELB 4P 50AF/50AT
L-E	9425 KVA	G-4	ELB 4P 50AF/20AT
2P-1, 3P-1	32.11 KW	G-5	ELB 3P 225AF/100AT
SPARE			ELB 3P 225AF/15AT
SPARE			ELB 3P 225AF/15AT
EMERGENCY LINE			MCB 3P 400AF/250AT

BATTERY LINE	LOAD NAME	CAPACITY	MAIN BREAKER
1P-1, 1P-2	11.1-9L-2	16.24 KVA	E-3
	L-E	0.6 KVA	E-4
	P-E	43.8 KW	E-5
SPARE			
CVCF LINE			

BATTERY LINE	LOAD NAME	CAPACITY	MAIN BREAKER
1C-1	2.0 KVA	CF-1	MCB 2P 50AF/15AT
2C-1	1.5 KVA	CF-2	MCB 2P 50AF/15AT
2C-2	1.3 KVA	CF-3	MCB 2P 50AF/15AT
2C-3	1.3 KVA	CF-4	MCB 2P 50AF/15AT
2C-4	1.3 KVA	CF-5	MCB 2P 50AF/15AT
2C-5	1.3 KVA	CF-6	MCB 2P 50AF/15AT
2C-6	5.0 KVA	CF-7	MCB 2P 50AF/15AT
3C-1	2.5 KVA	CF-8	MCB 2P 50AF/15AT
3C-2	2.5 KVA	CF-9	MCB 2P 50AF/15AT
3C-3	3.0 KVA	CF-10	MCB 2P 50AF/15AT
3C-4	2.5 KVA	CF-11	MCB 2P 50AF/15AT
SPARE			

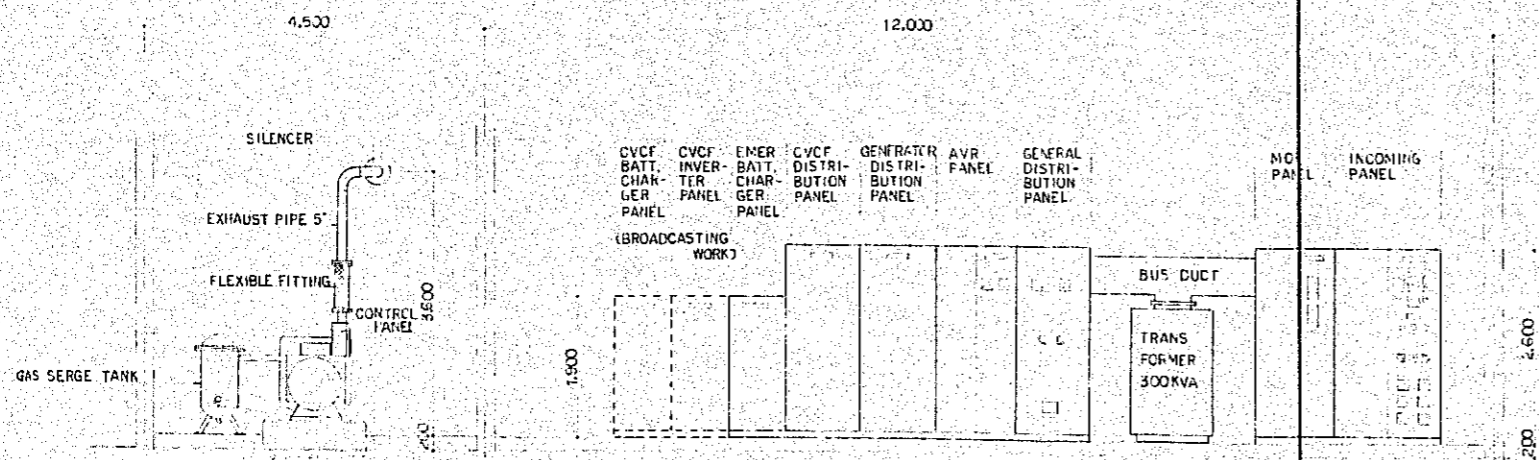


[PLAN s-1/50]

[SINGLE LINE DIAGRAM OF SUB-STATION EQUIPMENT]

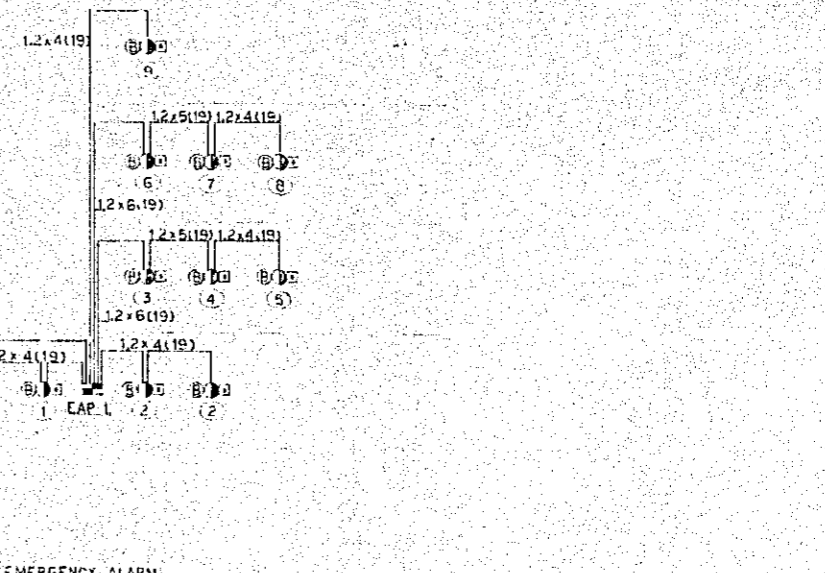
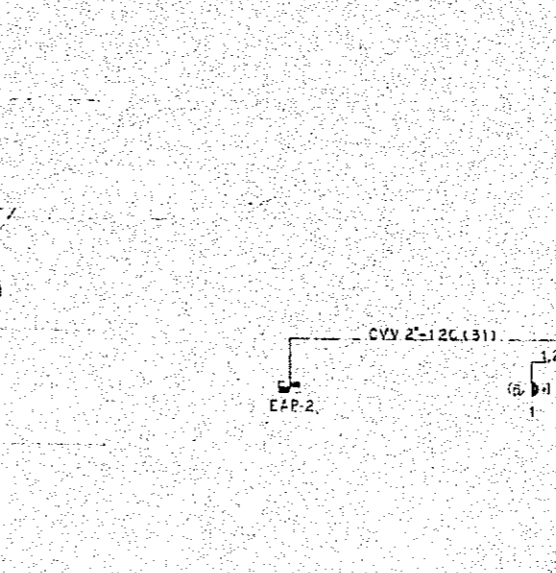
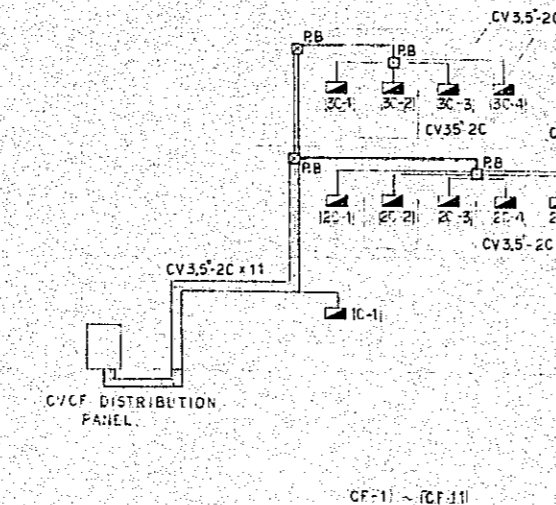
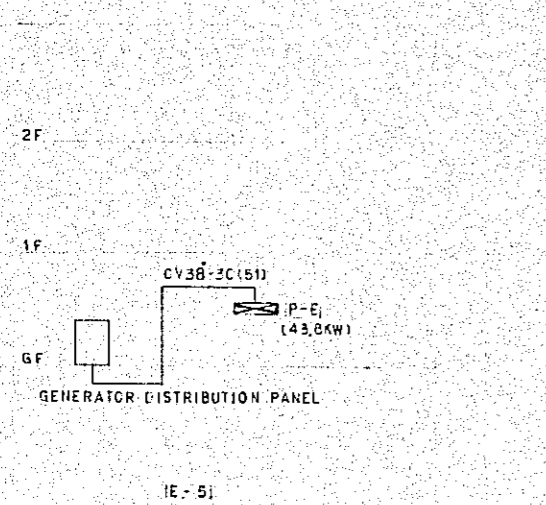
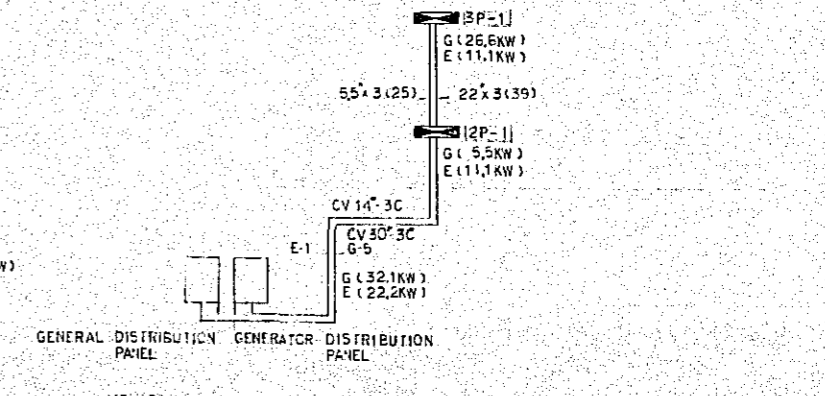
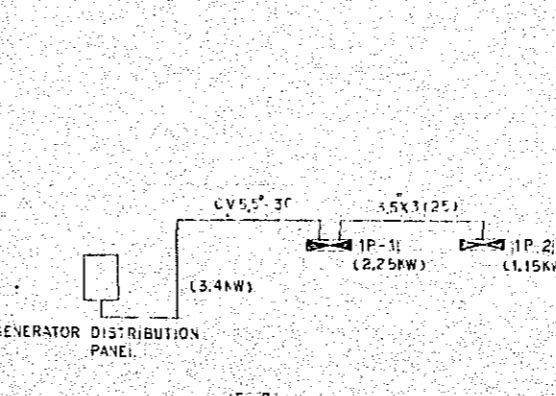
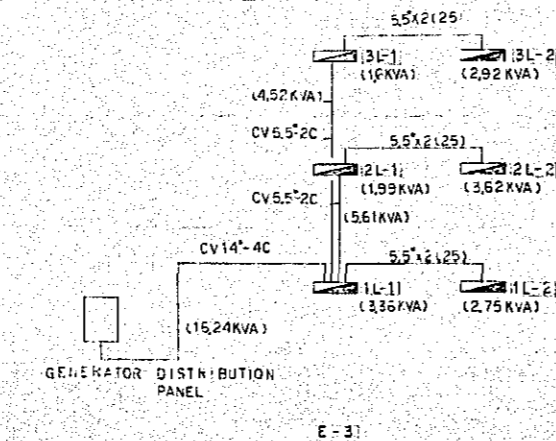
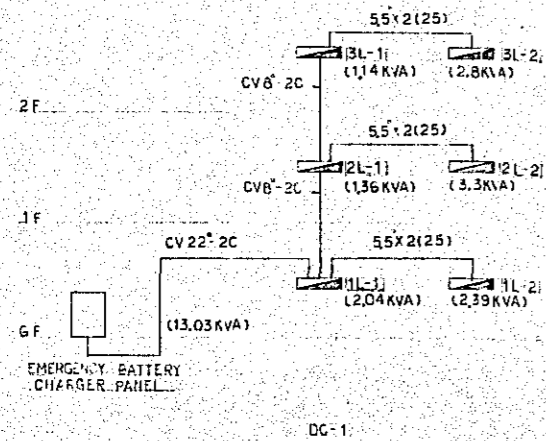
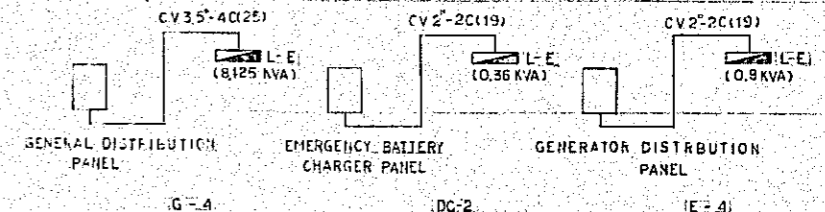
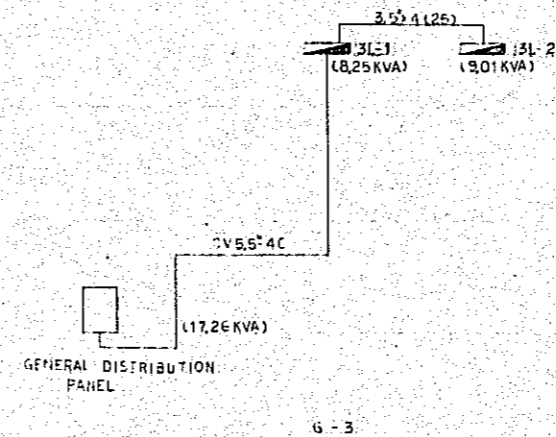
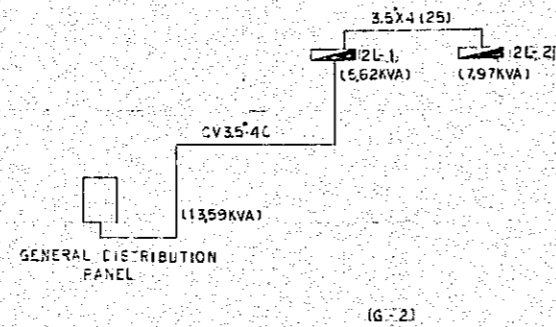
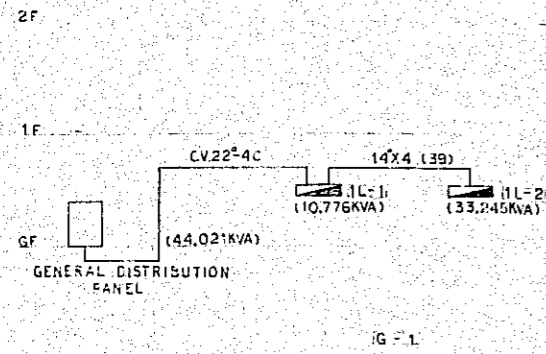
[CABLE PIT WIRING LIST]

LOAD NAME	FEEDER MARKER	WIRE SIZE	PANEL NAME
A			
1L-1, 1L-2	G-1	CV22-4C	GENERAL DISTRIBUTION PANEL
2L-1, 2L-2	G-2	CV35-4C	
3L-1, 3L-2	G-3	CV55-4C	
1L-1 ~ 3L-2	E-3	CV14-4C	GENERATOR DISTRIBUTION PANEL
1L-1 ~ 3L-2	DC-1	CV22-2C	EMERGENCY BATTERY CHARGER PANEL
2P-1, 3P-1	G-5	CV30-3C	GENERAL DISTRIBUTION PANEL
2P-1, 3P-1	E-1	CV14-3C	GENERATOR DISTRIBUTION PANEL
1P-1, 1F-2	E-2	CV55-3C	
L-E	G-4	CV35-4C	GENERAL DISTRIBUTION PANEL
L-E	DC-2	CV 2-2C	EMERGENCY BATTERY CHARGER PANEL
L-E	E-4	CV 2-2C	GENERATOR DISTRIBUTION PANEL
P-E	E-5	CV 3-3C	
CVCF LOCAL PANEL	CF-1, 11	CV35-2CX11	CVCF DISTRIBUTION PANEL
EARTHING CONDUCTOR		IV22x1	
B			
		CV125-4C	GENERATOR DISTRIBUTION PANEL
		IV22x1	EARTH TERMINAL
		CVV2-2C	INCOMING PANEL (STARTING OPE)
C			
		CV30-2C	CVCF BATTERY CHARGER PANEL
		CV30-2C	EMERGENCY BATTERY CHARGER PANEL
		IV22x1	EARTH TERMINAL
		CVV2-4C-2	
U			
		CV22-3C	GENERATOR DISTRIBUTION PANEL
E			
		CV22-2C	CVCF INVERTER PANEL
F			
		CV 2-3C	GENERATOR DISTRIBUTION PANEL
G			
		IV 38x1	E-1
		IV 22x1	E-2
H			
		CVV 2-2C	INCOMING PANEL (STARTING OPE)
		CVV 2-2C	
		IV 38x1	E-1

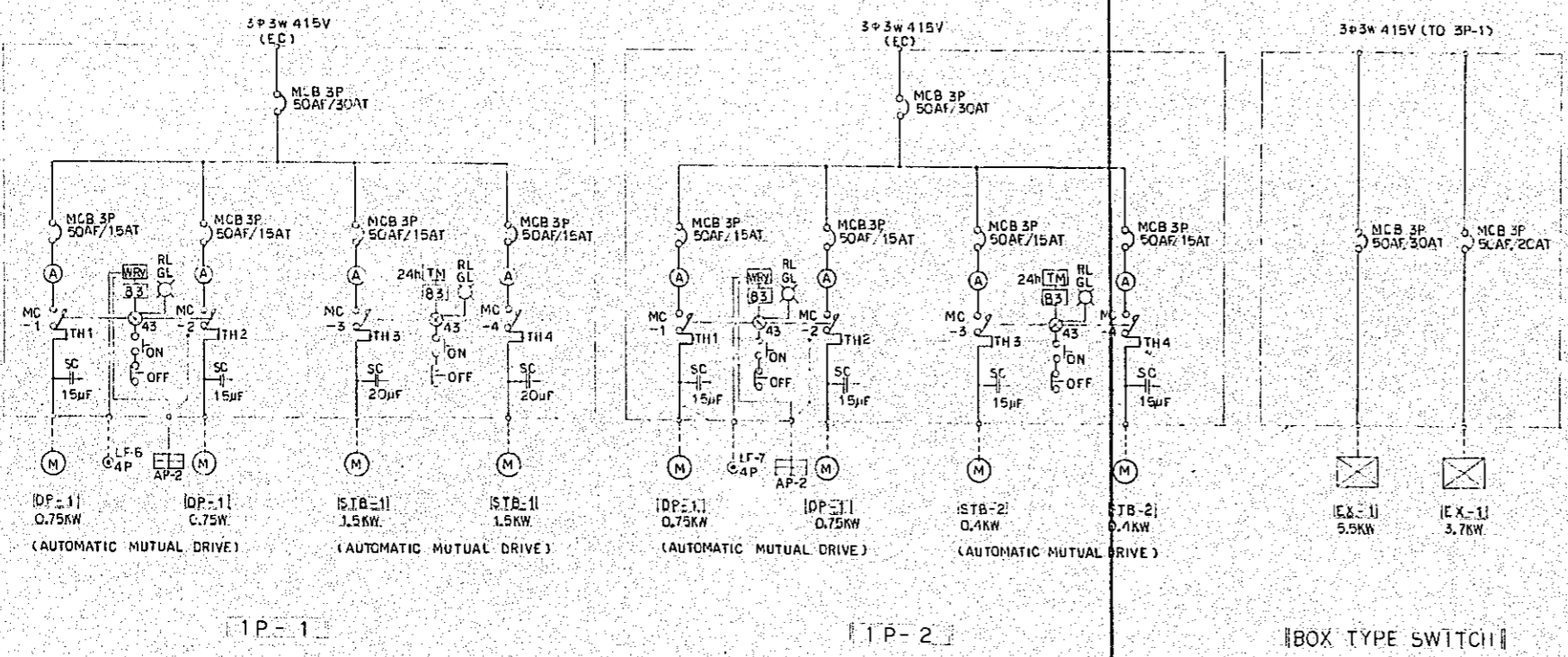
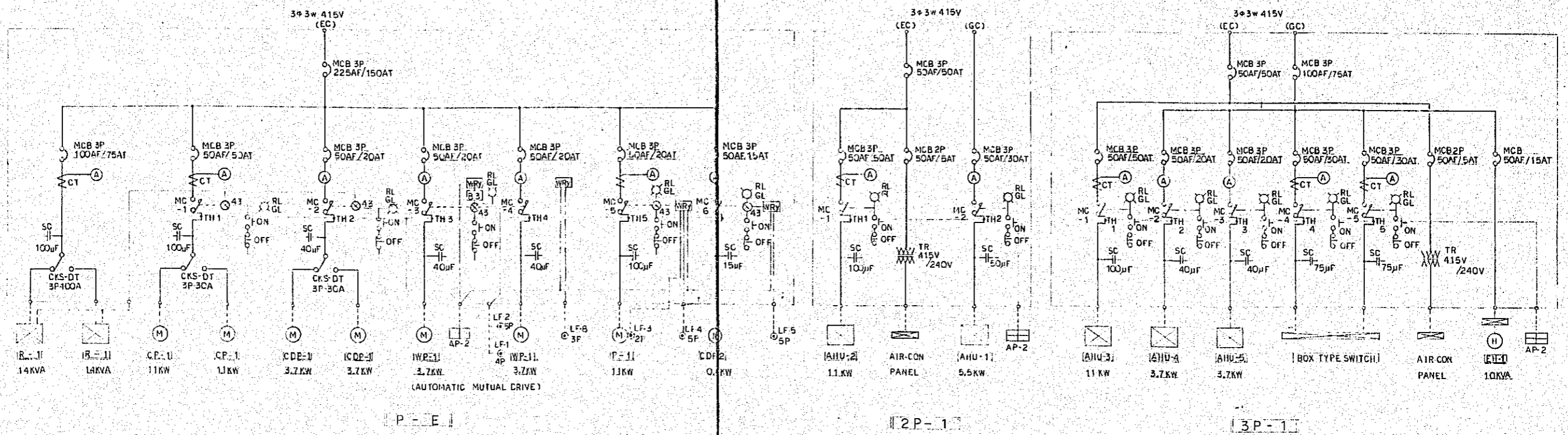


[SECTION s-1/50]

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	Doc	E-5
	SUB-STATION, BATTERY AND GENERATOR ROOM PLAN AND DETAILS	Scale	1/50
Approved By	<i>[Signature]</i>	Checked By	<i>[Signature]</i>
J.E.C.C. JAPAN ENGINEERING CONSULTANTS CO., LTD.		Date	1971

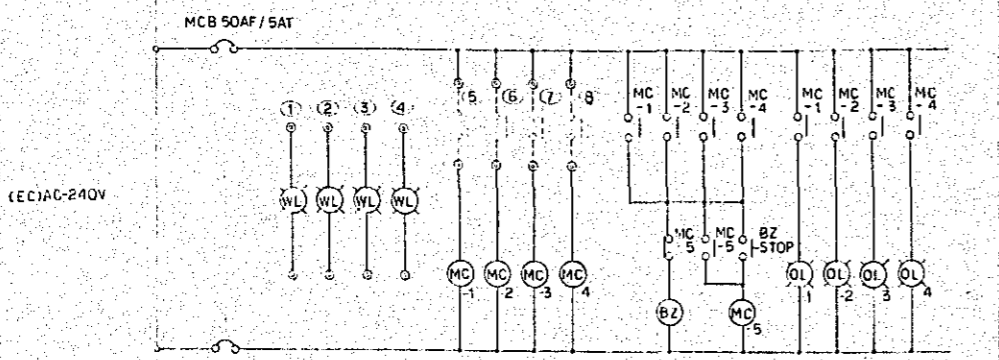


NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH		No.	E-6
SYSTEM DIAGRAM OF MAIN LINE		Scale	
Approved by	Checked by	Date	FEA 1991
JAPAN ENGINEERING CONSULTANTS CO., LTD.			



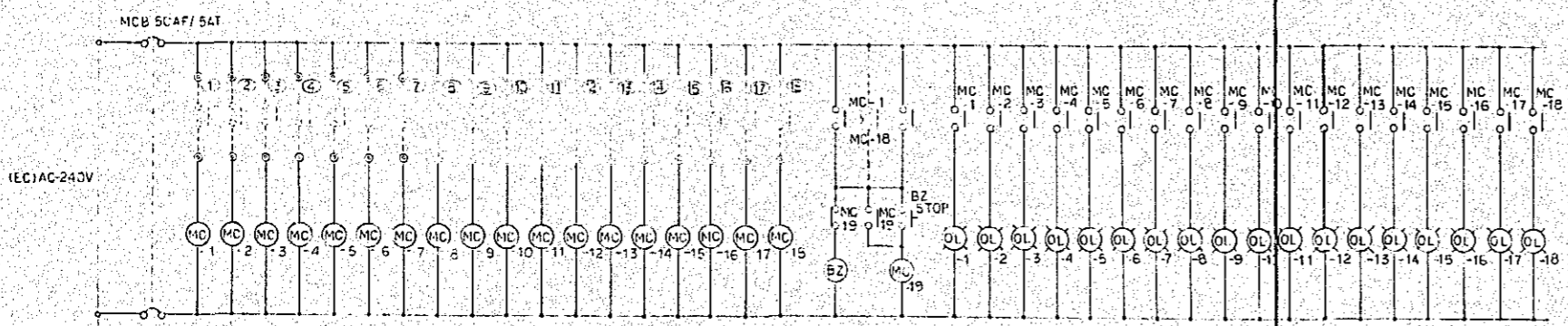
Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	E-7
POWER CONTROL BOARD CONNECTION DIAGRAM		Scale	
Approved by	Checked by	Drawn by	Date
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	FEB 1981
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			

[AP-1]



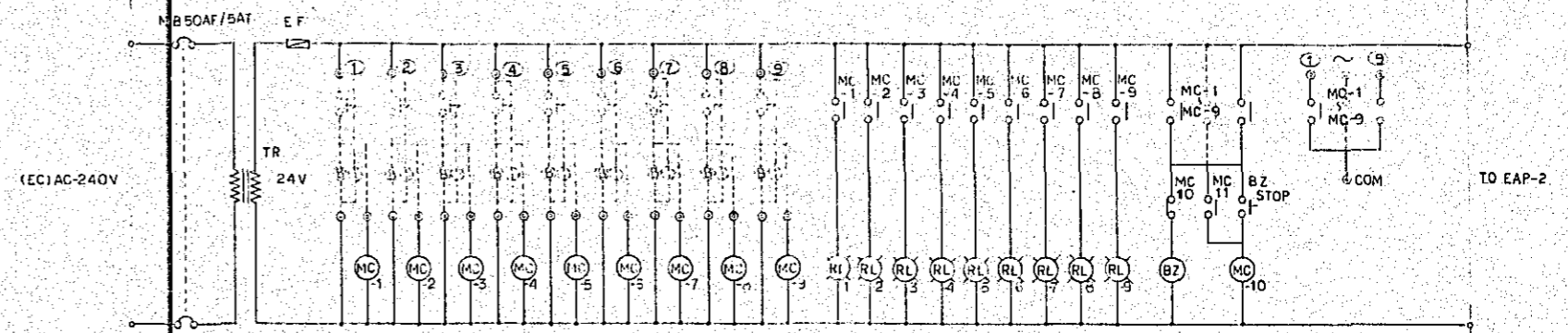
NO	ITEM
1	INCOMING PILOT
2	GENERATOR STARTING PILOT
3	C.V.C.F. PILOT
4	EMERGENCY BATTERY PILOT
5	INCOMING TROUBLE
6	GENERATOR TROUBLE
7	C.V.C.F. TROUBLE
8	EMERGENCY BATTERY TROUBLE

[AP-2]



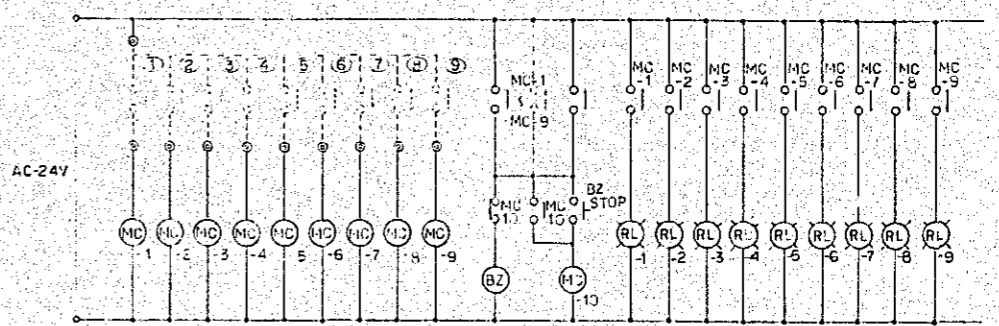
NO	ITEM	NO	ITEM
1	WATER RECEIVING TANK - OVER BLOW	12	EXPANSION TANK - OVER BLOW
2	" - SHORTAGE OF WATER	13	" - SHORTAGE OF WATER
3	ELEVATED STORAGE TANK - OVER BLOW	14	P-E TROUBLE
4	" - SHORTAGE OF WATER	15	1P-1 "
5	WELL - "	16	1P-2 "
6	WELL TANK - OVER BLOW	17	2P-1 "
7	" - SHORTAGE OF WATER	18	3P-1 "
8	SEPTIC TANK (A) - OVER BLOW		
9	" - SHORTAGE OF WATER		
10	" (B) - OVER BLOW		
11	" - SHORTAGE OF WATER		

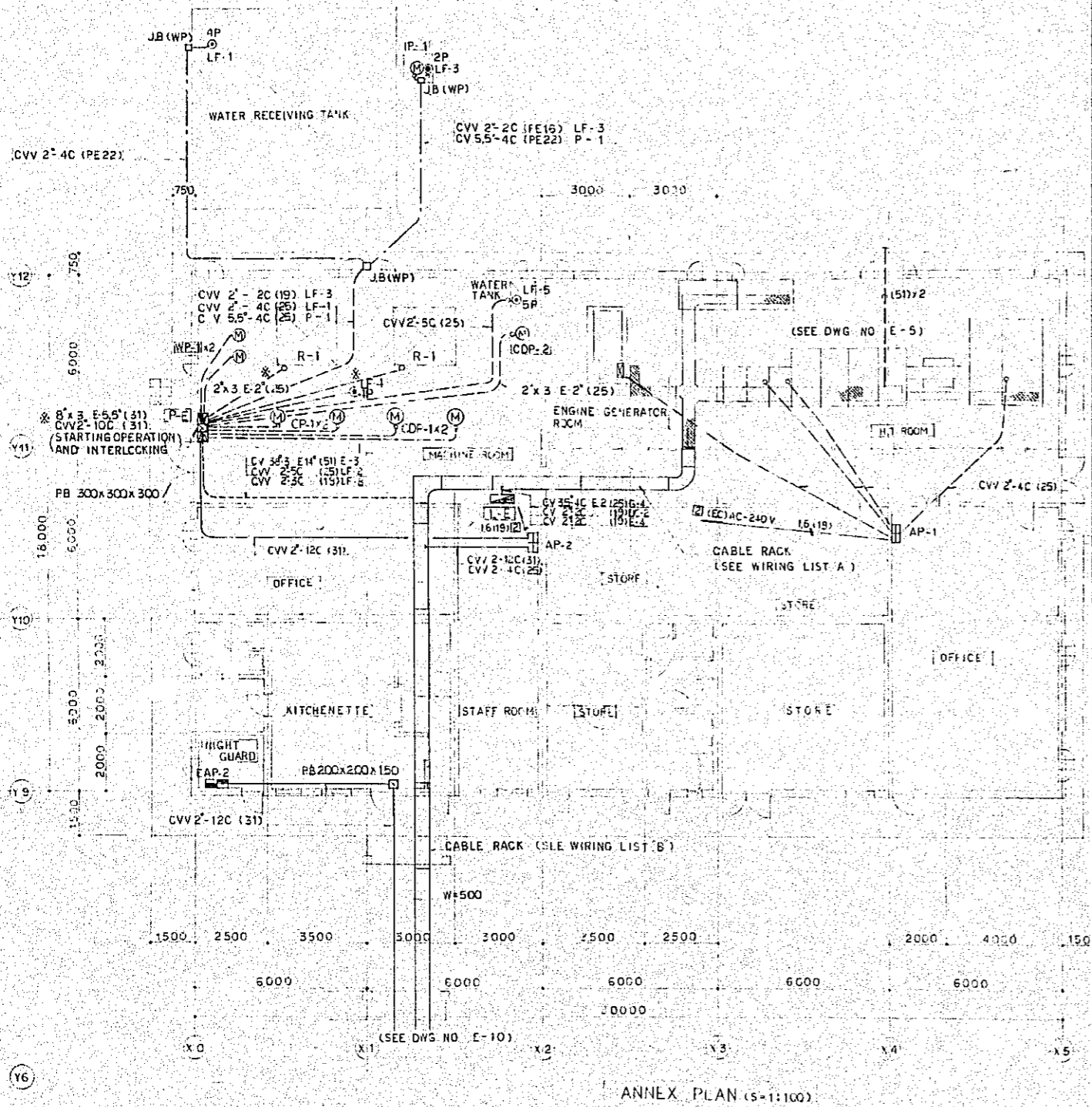
[EAP-1]



NO	ITEM
1	GROUND FLOOR
2	GROUND FLOOR
3	1ST FLOOR
4	1ST FLOOR
5	1ST FLOOR
6	2ND FLOOR
7	2ND FLOOR
8	2ND FLOOR
9	PENT HOUSE

[EAP-2]





ANNEX PLAN (S-1:100)

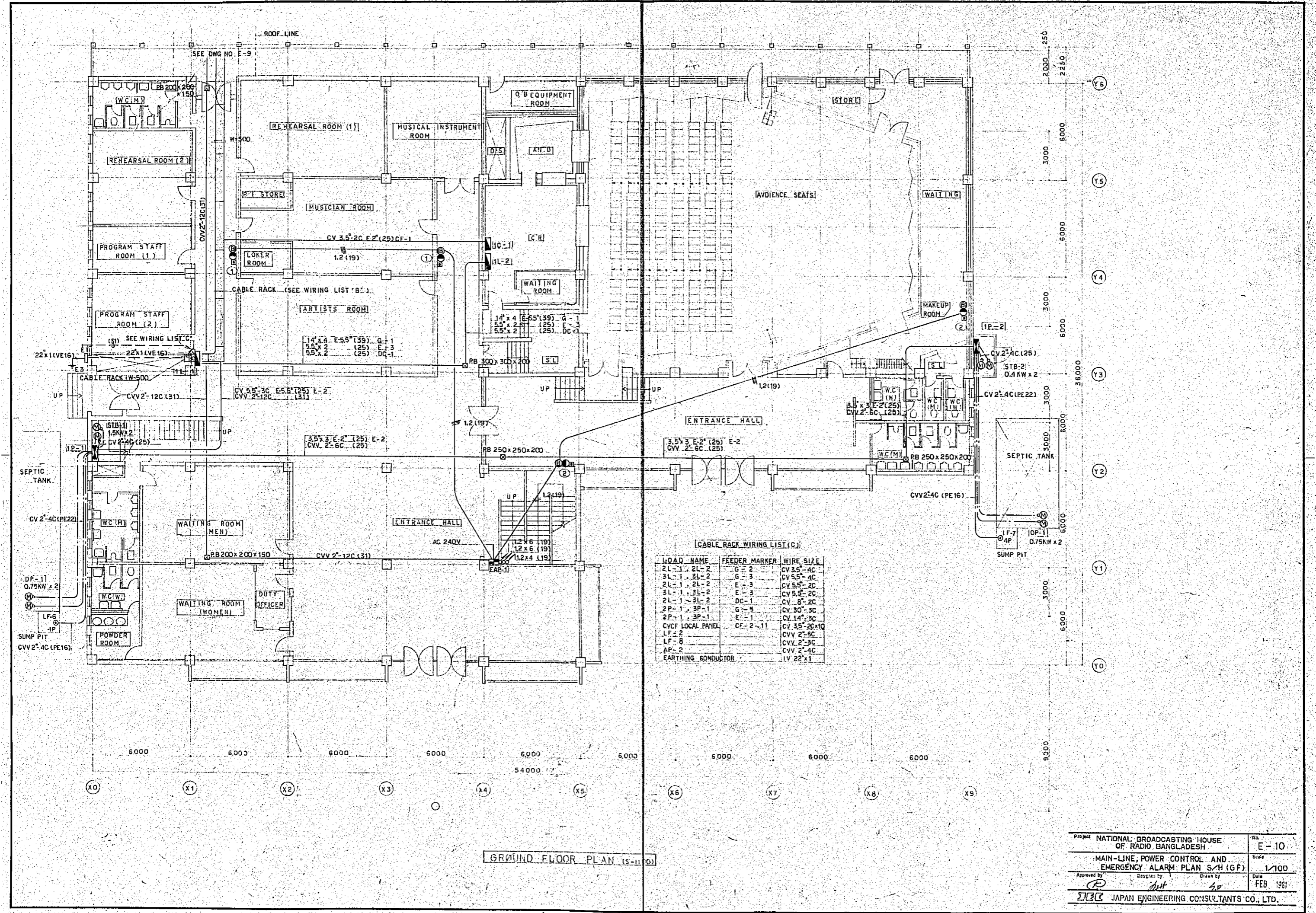
I T E M		WIRING FOR MACHINE	
R-1	WATER CHILLING UNIT	3φ3W415V 14KVA	2" x 3" E-5.5" (31)
CP-1	COLD WATER PUMP	11KW	5.5" x 3" E-5.5" (25)
CDP-1	COOLING WATER PUMP	3.7KW	2" x 3" E-2" (25)
WP-1	LIFTING WATER PUMP	3.7KW	2" x 3" E-2" (25)
P-1	DIGGING WATER PUMP	11KW	CV5.5"-4C (25)
CDP-2	COOLING WATER PUMP (GENERATOR)	0.4KW	2" x 3" E-2" (25)

CABLE RACK WIRING LIST (A)

LOAD NAME	FEEDER MARKER	WIRE SIZE
1L-1, 1L-2	G-1	CV22-4C
2L-1, 2L-2	G-2	CV35-4C
3L-1, 3L-2	G-3	CV55-4C
1L-1, 3L-2	E-3	CV14-4C
1L-1, 3L-2	DC-1	CV22-2C
2P-1, 3P-1	G-5	CV30-3C
2P-1, 3P-1	E-1	CV14-3C
1P-1, 1P-2	E-2	CV55-3C
L-E	G-4	CV35-4C
L-E	DC-2	LV 2"-2C
L-E	E-4	CV 2"-2C
P-E	E-5	CV 38"-3C
CVCF LOCAL PANEL	CF-1~11	CV 3.5"-2Cx11
EARTHING CONDUCTOR		IV 22"x1

CABLE RACK WIRING LIST (B)

LOAD NAME	FEEDER MARKER	WIRE SIZE
1L-1, 1L-2	G-1	CV22-4C
2L-1, 2L-2	G-2	CV35-4C
3L-1, 3L-2	G-3	CV55-4C
1L-1, 3L-2	E-3	CV14-4C
1L-1, 3L-2	DC-1	CV22-2C
2P-1, 3P-1	G-5	CV30-3C
2P-1, 3P-1	E-1	CV14-3C
1P-1, 1P-2	E-2	CV55-3C
CVCF LOCAL PANEL	CF-1~11	CV 3.5"-2Cx11
LF-2		CVV 2"-5C
LF-8		CVV 2"-3C
AP-2		CVV 2"-12C
AP-2		CVV 2"-4C
EARTHING CONDUCTOR		IV 22"x1

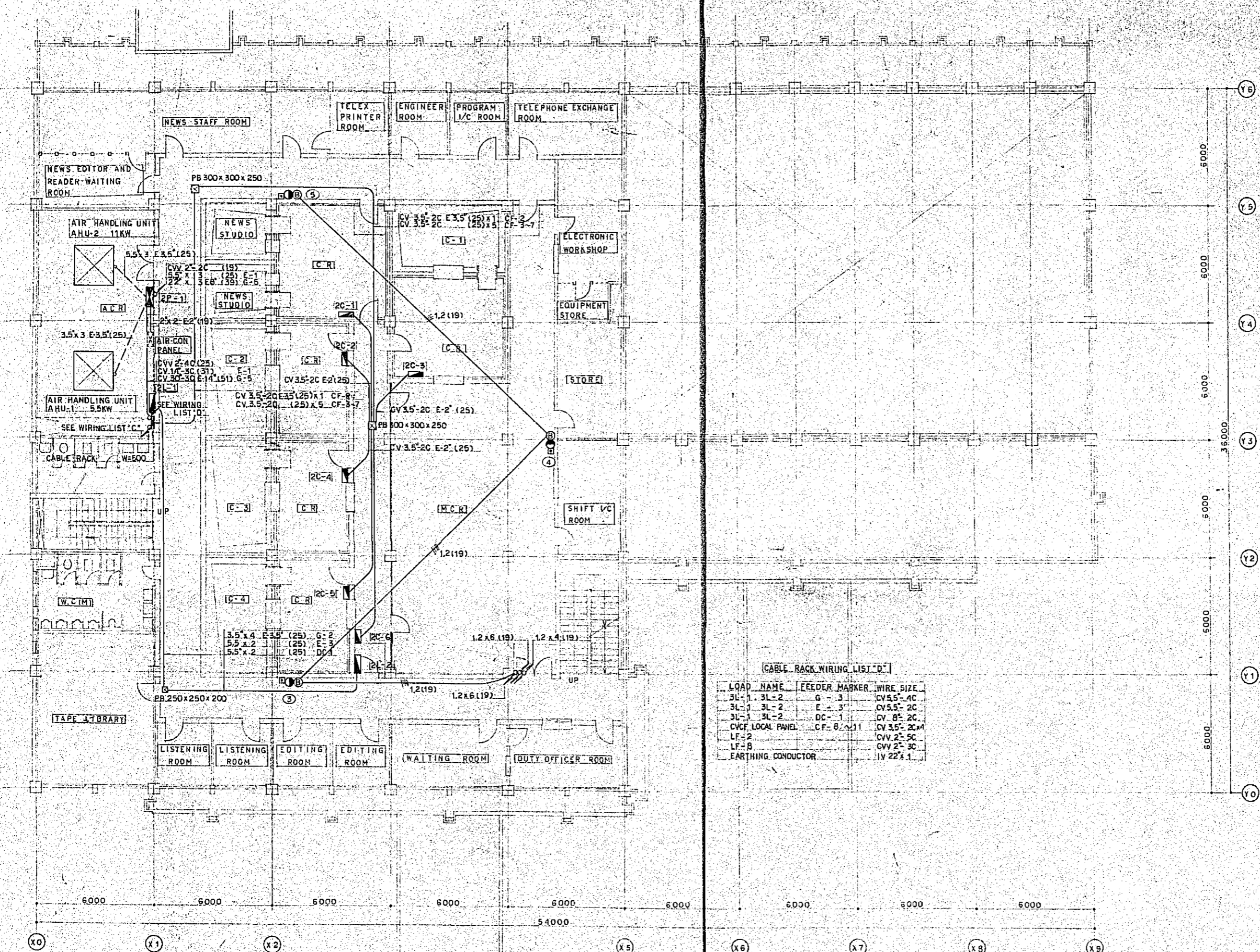


GROUND FLOOR PLAN (S-I) (O)

[CABLE RACK WIRING LIST (C)]

LOAD NAME	FEEDER MARKER	WIRE SIZE
2L-1, 2L-2	G-2	CV 3.5-4C
3L-1, 3L-2	G-3	CV 5.5-4C
2L-1, 2L-2	E-3	CV 5.5-2C
3L-1, 3L-2	E-3	CV 5.5-2C
2L-1, 3L-2	DC-1	CV 8-2C
2P-1, 3P-1	G-5	CV 30-3C
2P-1, 3P-1	E-1	CV 14-3C
CVCF LOCAL PAYEL	CF-2-11	CV 3.5-20x10
LF-2		CVV 2-5C
LF-6		CVV 2-3C
AP-2		CVV 2-4C
EARTHING CONDUCTOR		LV 22x1

Project NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH No. E-10
Scale 1/100
MAIN-LINE, POWER CONTROL AND EMERGENCY ALARM PLAN S/H (GF)
Date FEB 1951
Approved by [Signature] Drawn by [Signature]
JECR JAPAN ENGINEERING CONSULTANTS CO., LTD.

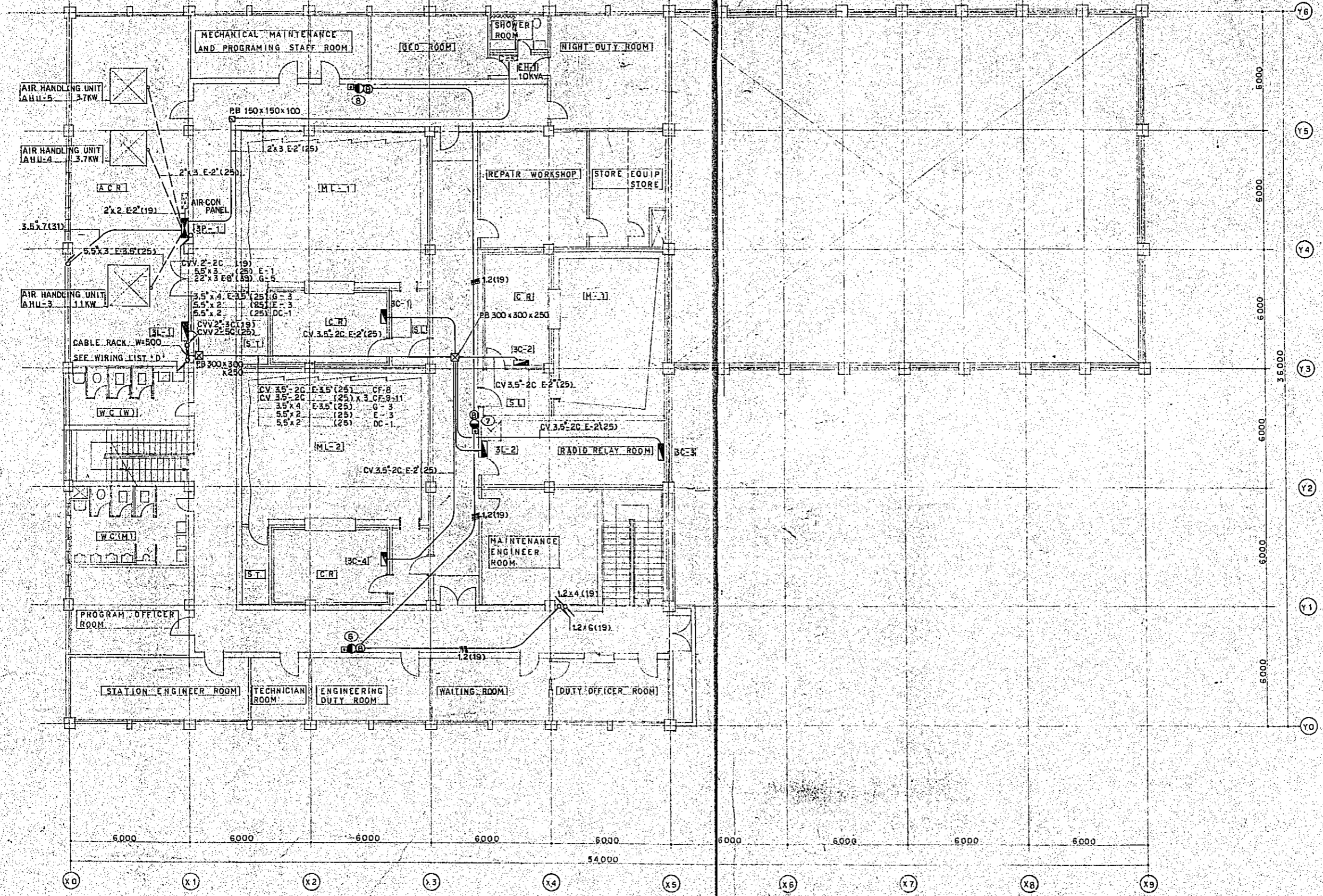


CABLE BACK WIRING LIST 'D'

LOAD NAME	FEEDER MARKER	WIRE SIZE
3L-1, 3L-2	G-3	CV5.5-4C
3L-1, 3L-2	E-3	CV5.5-2C
3L-1, 3L-2	DC-1	CV 8-2C
CVCF LOCAL PANEL	CF-0, 1, 11	CV 3.5-2C
LF-2		CVV 2-5C
LF-B		CVV 2-3C
EARTHING CONDUCTOR		1V 22x1

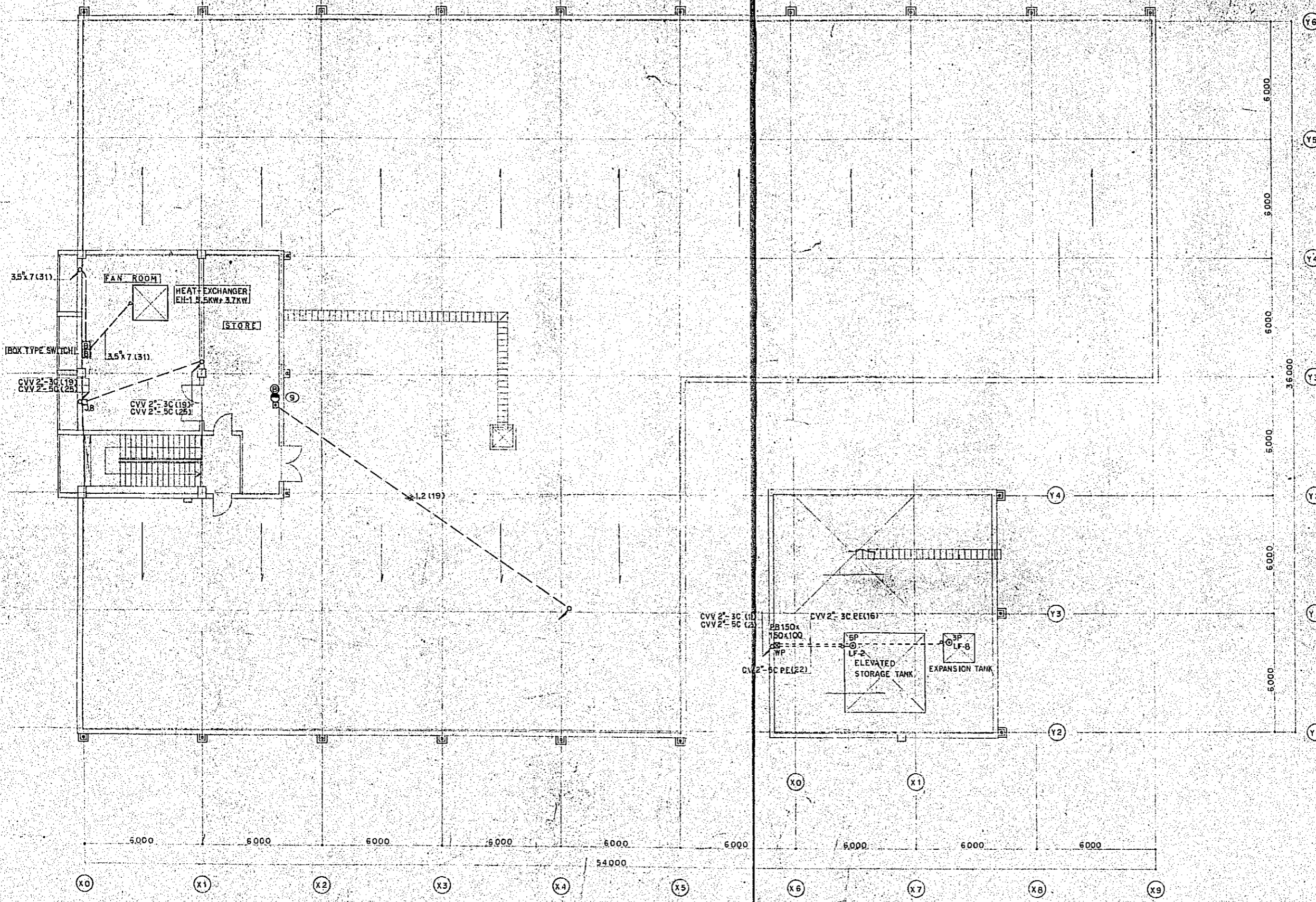
1ST FLOOR PLAN (S=1/20)

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	E-11
	MAIN-LINE, POWER CONTROL AND EMERGENCY ALARM PLAN S/H (1F)	Scale	1/100
Approved by	Designed by	Drawn by	Date
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	FEB 1981
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			



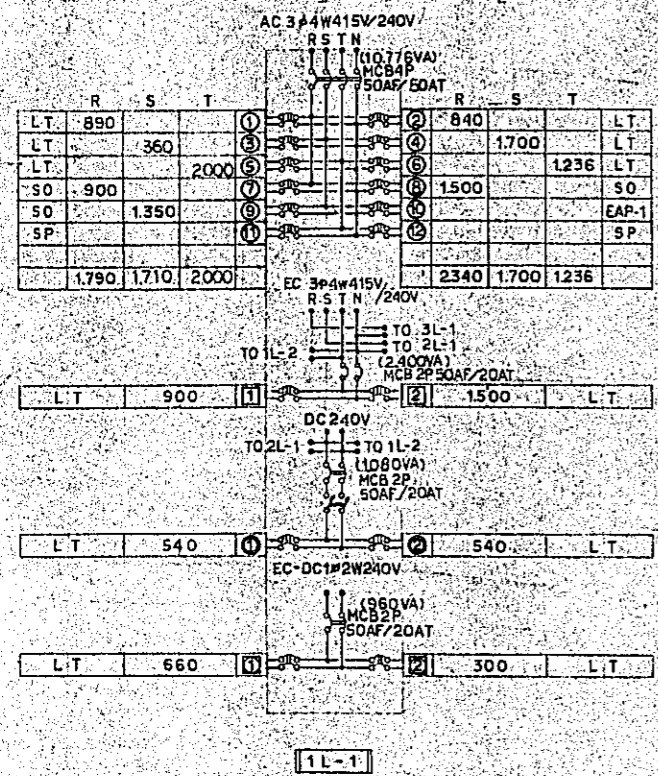
2ND FLOOR PLAN (S-11-00)

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	E-12
	MAIN-LINE, POWER CONTROL AND EMERGENCY ALARM PLAN S/H (2F)	Scale	1/100
Approved by	Design by	Drawn by	Date
			FEB. 1981
SJC&C JAPAN ENGINEERING CONSULTANTS CO., LTD.			

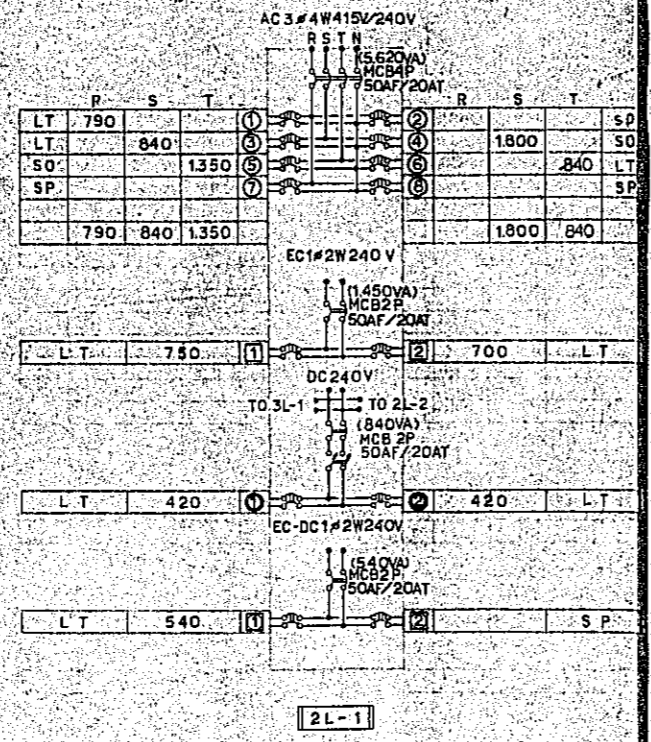


ROOF AND PENTHOUSE PLAN (S-100)

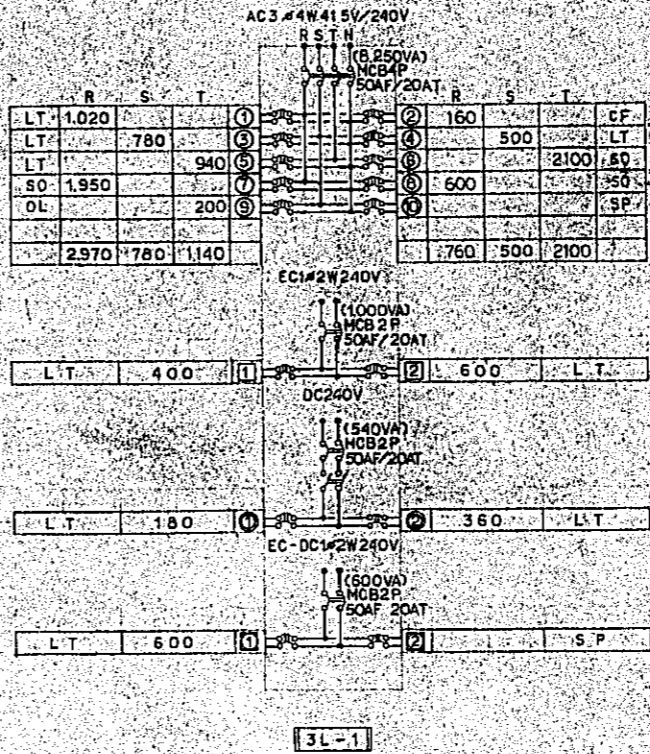
Project	NATIONAL BROADCASTING-HOUSE OF RADIO BANGLADESH	No.	E-13
Scale	1/100	Date	FEB 1981
Approved by	Designed by	Drawn by	
JELC JAPAN ENGINEERING CONSULTANTS CO., LTD.			



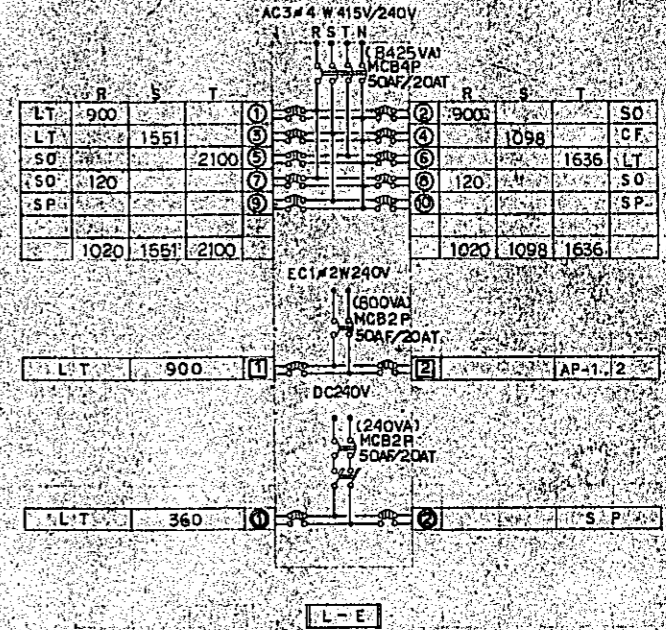
1L-1



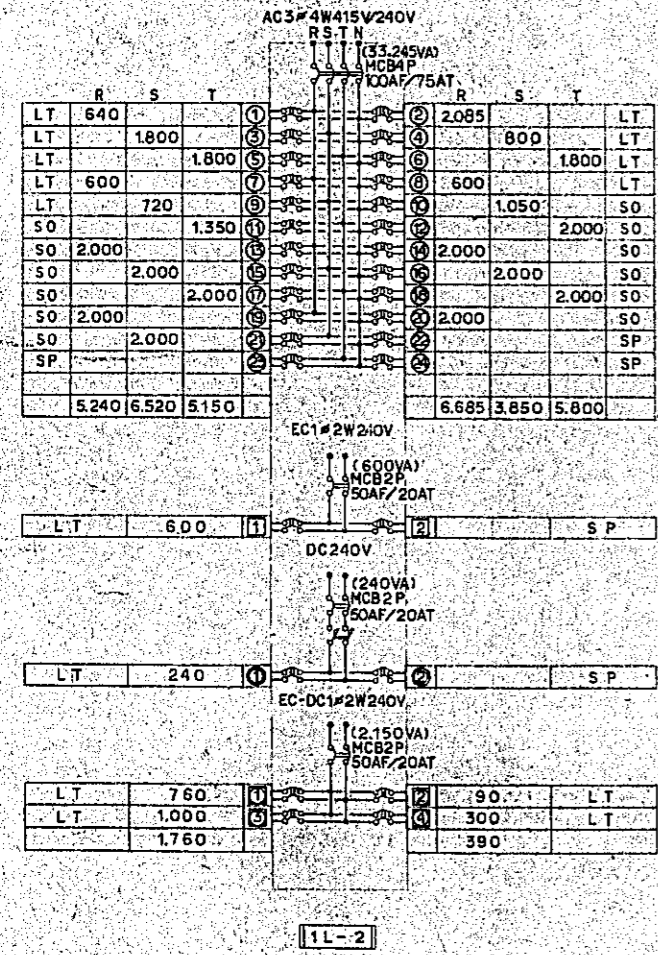
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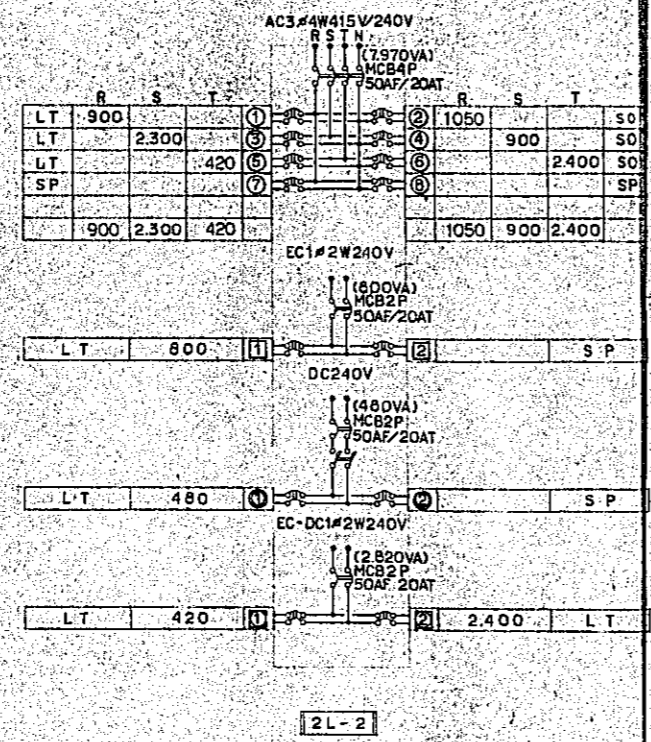
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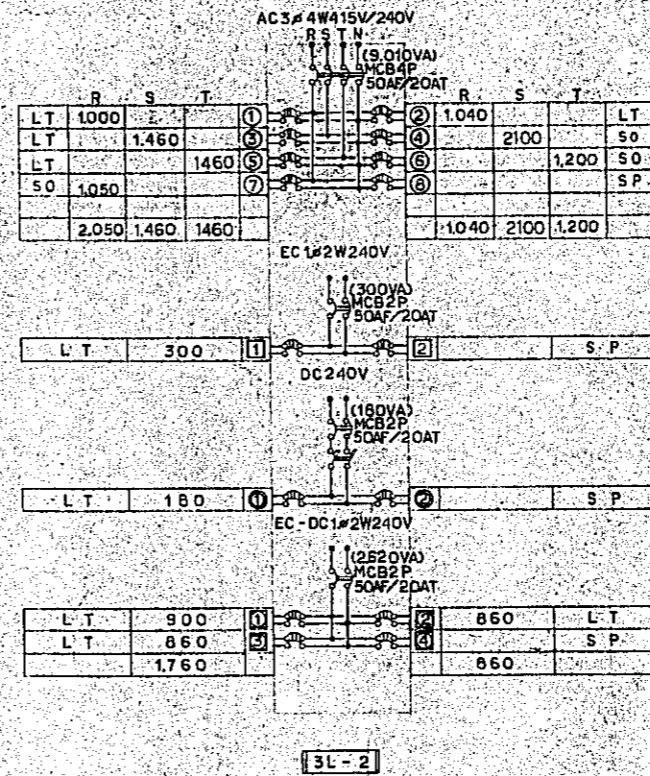
1L-E



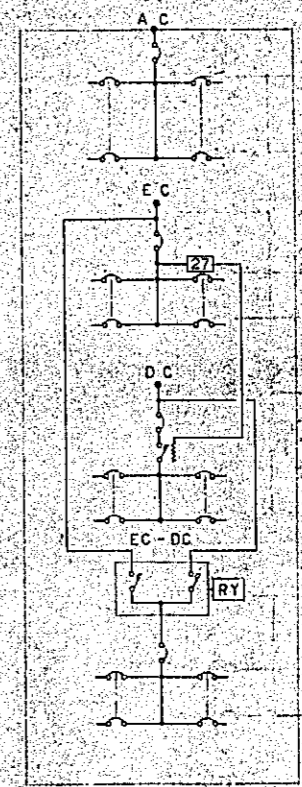
1L-2



2L-2



3L-2



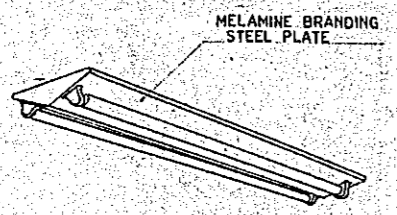
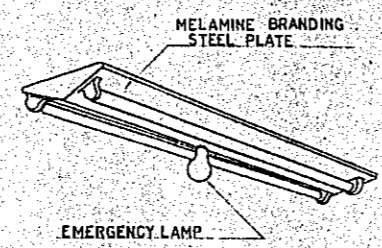
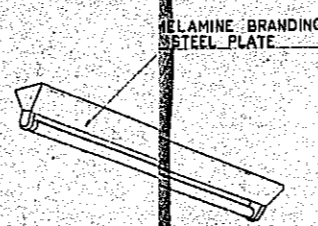
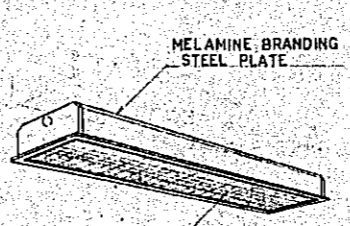
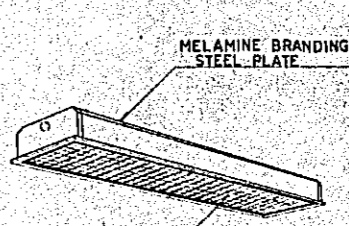
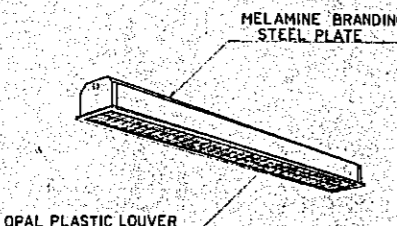
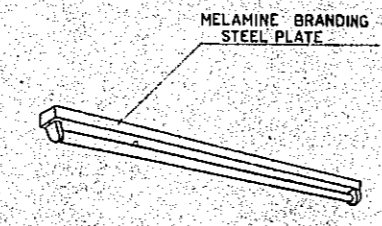
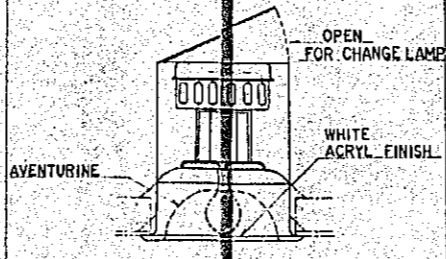
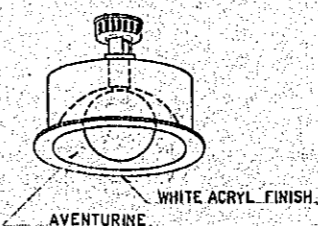
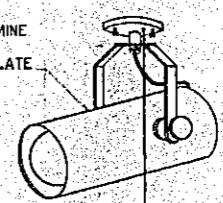
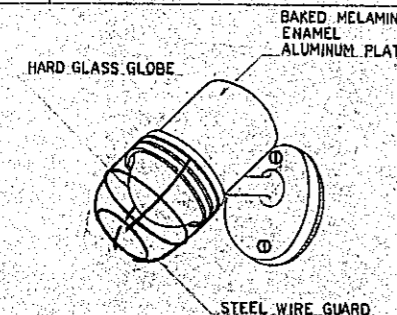
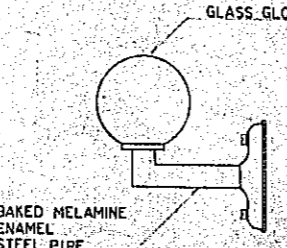

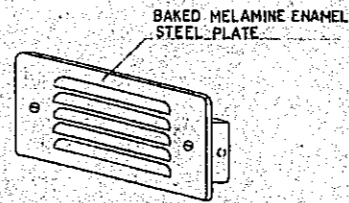
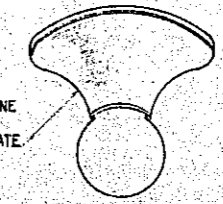
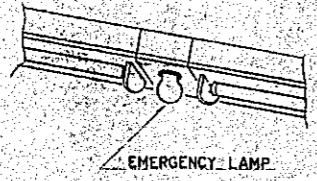
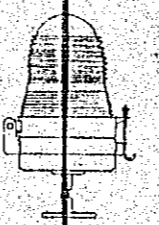
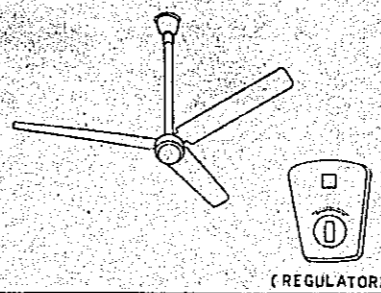
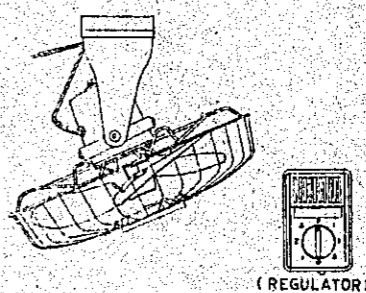
CVCF BOARD LIST

BOARD NO.	BRANCH DISCRPTION
1C-1	MCB 2P 50AF/15AT x 4
2C-1	DITTO
2C-2	DITTO
2C-3	DITTO
2C-4	DITTO
2C-5	DITTO
2C-6	MCB 2P 50AF/15AT x 8
3C-1	MCB 2P 50AF/15AT x 4
3C-2	DITTO
3C-3	DITTO
3C-4	DITTO

NOTE: MAIN MCB SHALL NOT BE USED IN ALL PANEL BOARD

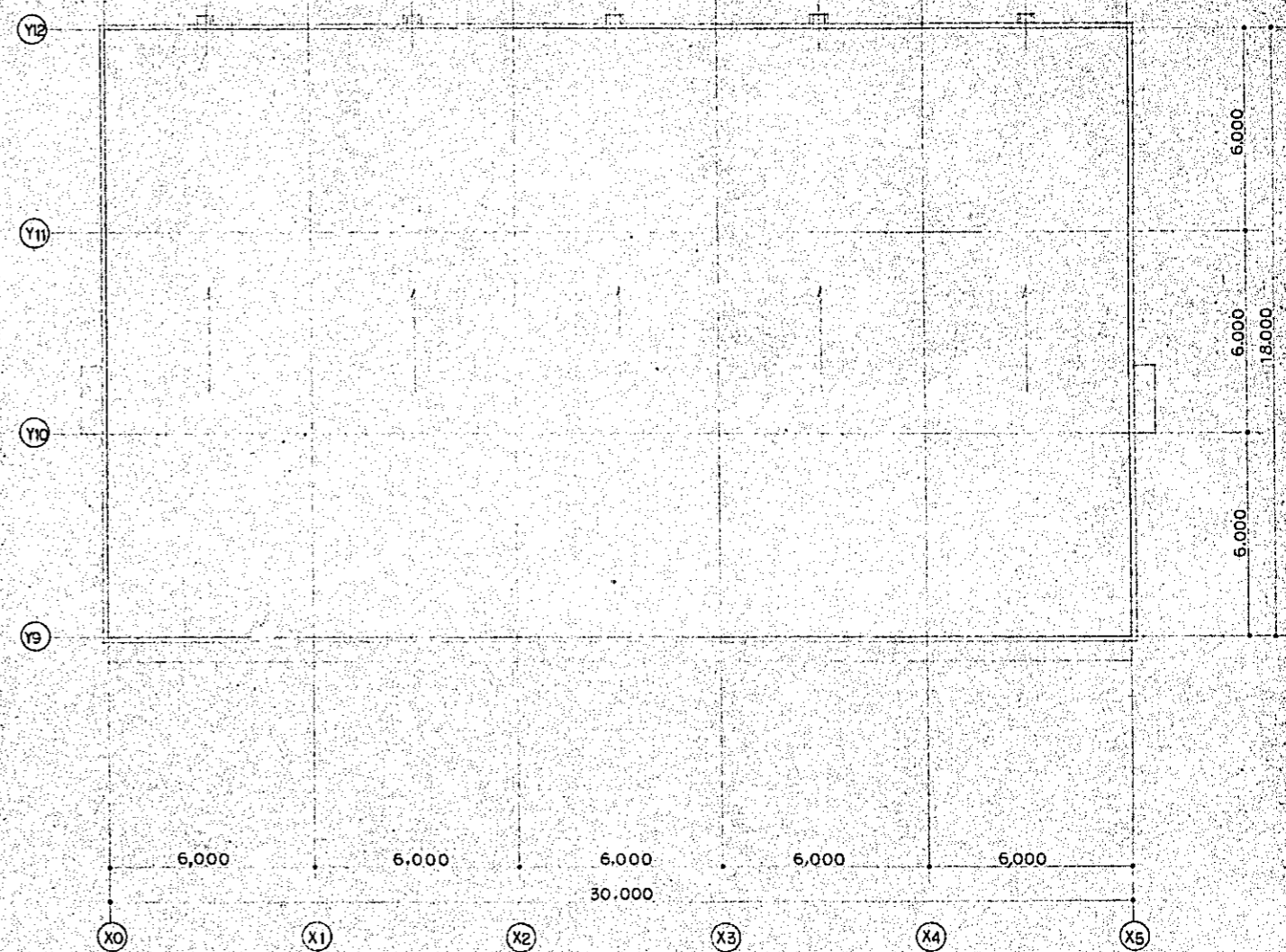
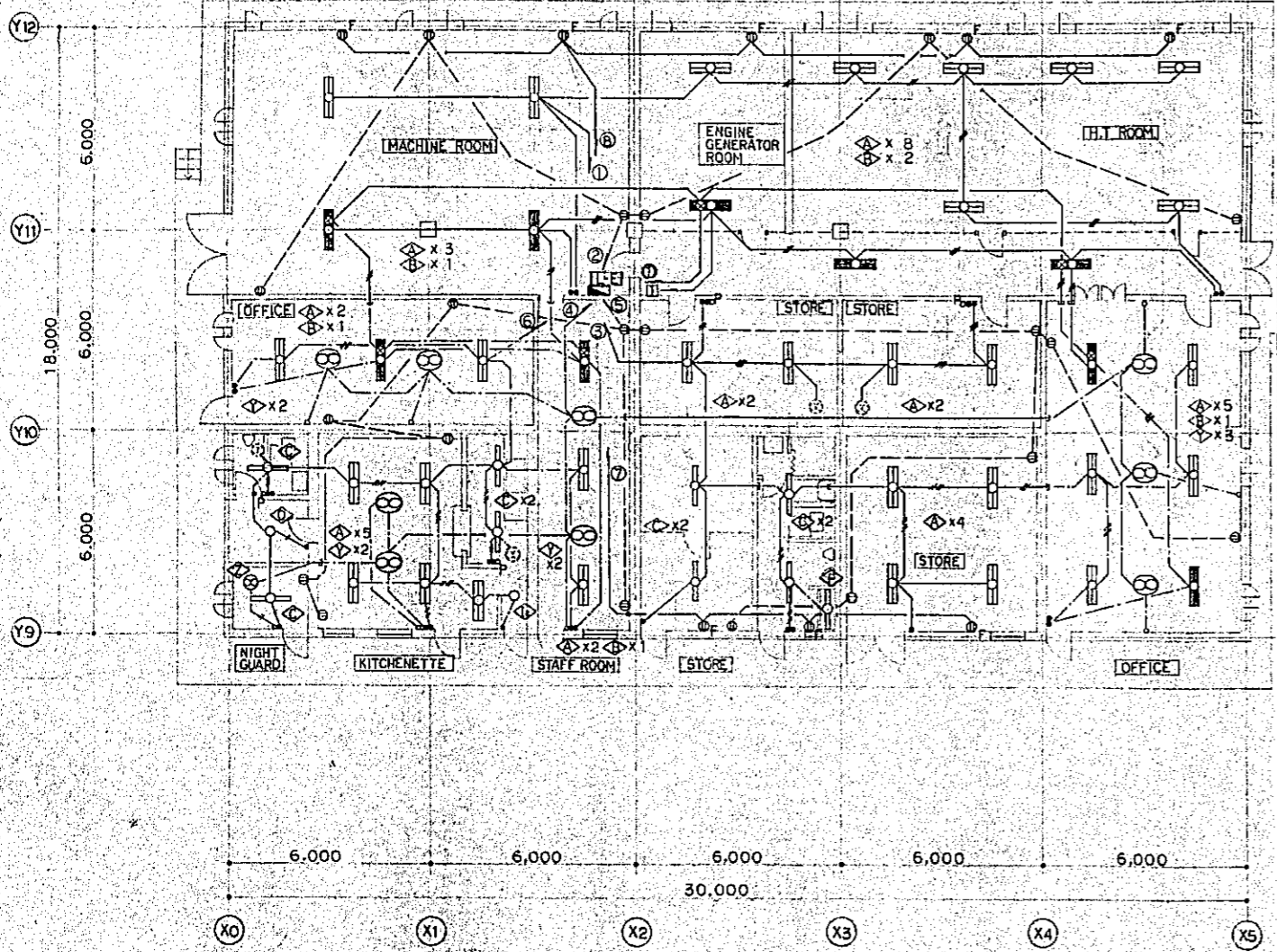
EACH PANEL OF CONNECTION DIAGRAM IS EQUAL

NOTE: LT: LIGHT OUTLET
 SO: SOCKET
 CF: FAN
 ICF: CELLIN
 SP: SPARE
 OL: AVION OBSTRUCTION LIGHT
 MCB2P 50AF/20AT

 MELAMINE BRANDING STEEL PLATE	 MELAMINE BRANDING STEEL PLATE EMERGENCY LAMP	 MELAMINE BRANDING STEEL PLATE	 MELAMINE BRANDING STEEL PLATE OPAL PLASTIC LOUVER	 MELAMINE BRANDING STEEL PLATE OPAL PLASTIC LOUVER
Ⓐ FL 40W x 2	Ⓑ FL 40W x 2 + IL 60W	Ⓒ FL 40W x 1	Ⓓ FL 40W x 2	Ⓔ FL 40W x 2 + IL 60W
 MELAMINE BRANDING STEEL PLATE OPAL PLASTIC LOUVER	 MELAMINE BRANDING STEEL PLATE	 OPEN FOR CHANGE LAMP WHITE ACRYL FINISH AVENTURINE	 WHITE ACRYL FINISH AVENTURINE	 BAKED MELAMINE ENAMEL ALUMINUM PLATE WITH CANOPY SWITCH
Ⓕ FL 40W x 1	Ⓖ FL 40W x 1	Ⓗ IL 200W Ⓙ IL 100W	Ⓛ IL 100W Ⓜ IL 60W	Ⓝ IL 100W
 HARD GLASS GLOBE BAKED MELAMINE ENAMEL ALUMINUM PLATE STEEL WIRE GUARD	 GLASS GLOBE BAKED MELAMINE ENAMEL STEEL PIPE	 BAKED MELAMINE ENAMEL STEEL PLATE GREEN COLOR GLASS AND WHITE COLOR LETTER	 BAKED MELAMINE ENAMEL STEEL PLATE FOOT LIGHT	 BAKED MELAMINE ENAMEL ALUMINUM PLATE
Ⓟ IL 60W	Ⓛ IL 100W Ⓜ IL 60W	Ⓜ IL 20W x 2	Ⓝ IL 5W	Ⓝ IL 60W
 EMERGENCY LAMP			 (REGULATOR)	 (REGULATOR)
Ⓟ IL 60W		AVION OBSTRUCTION LIGHT	Ⓝ CEILING FAN (1400 ^{mm})	Ⓝ CEILING FAN (1400 ^{mm})

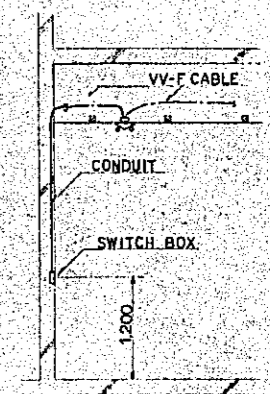
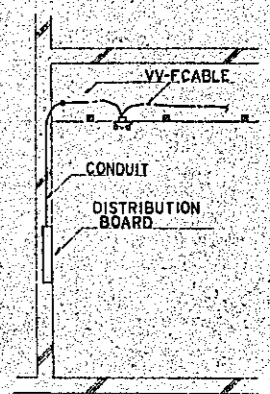
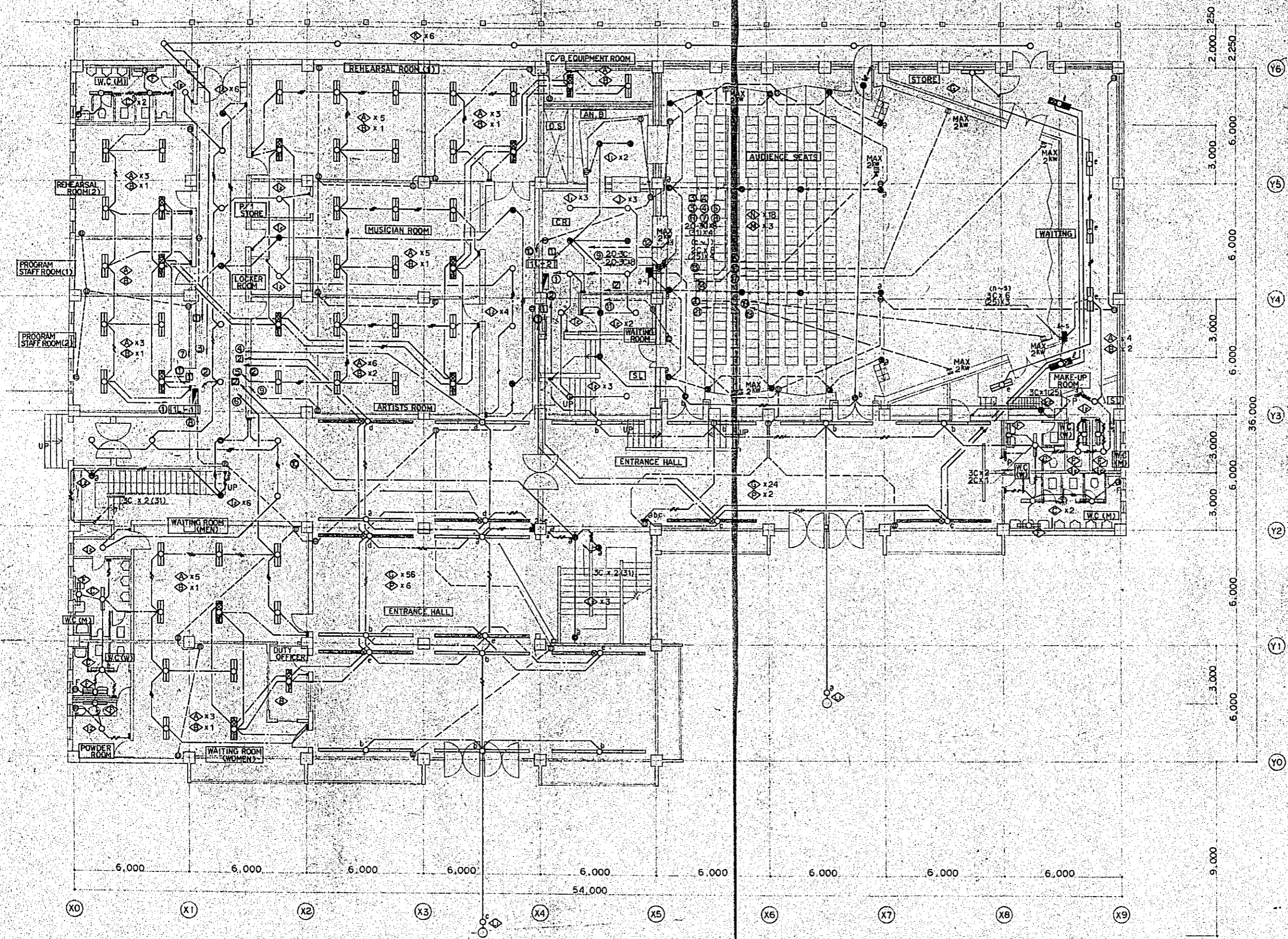
NOTE: SHALL BE, ALL 40W FLUORESCENT FIXTURE IS HIGH FACTOR, STARTING METHOD IS RAPID START

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	E-15
	INSTRUMENT FIGURE PLAN	Scale	
Approved by	Designed by	Drawn by	Date
			FEB 1981
JECES JAPAN ENGINEERING CONSULTANTS CO., LTD.			



ANNEX PLAN (S=1:100)

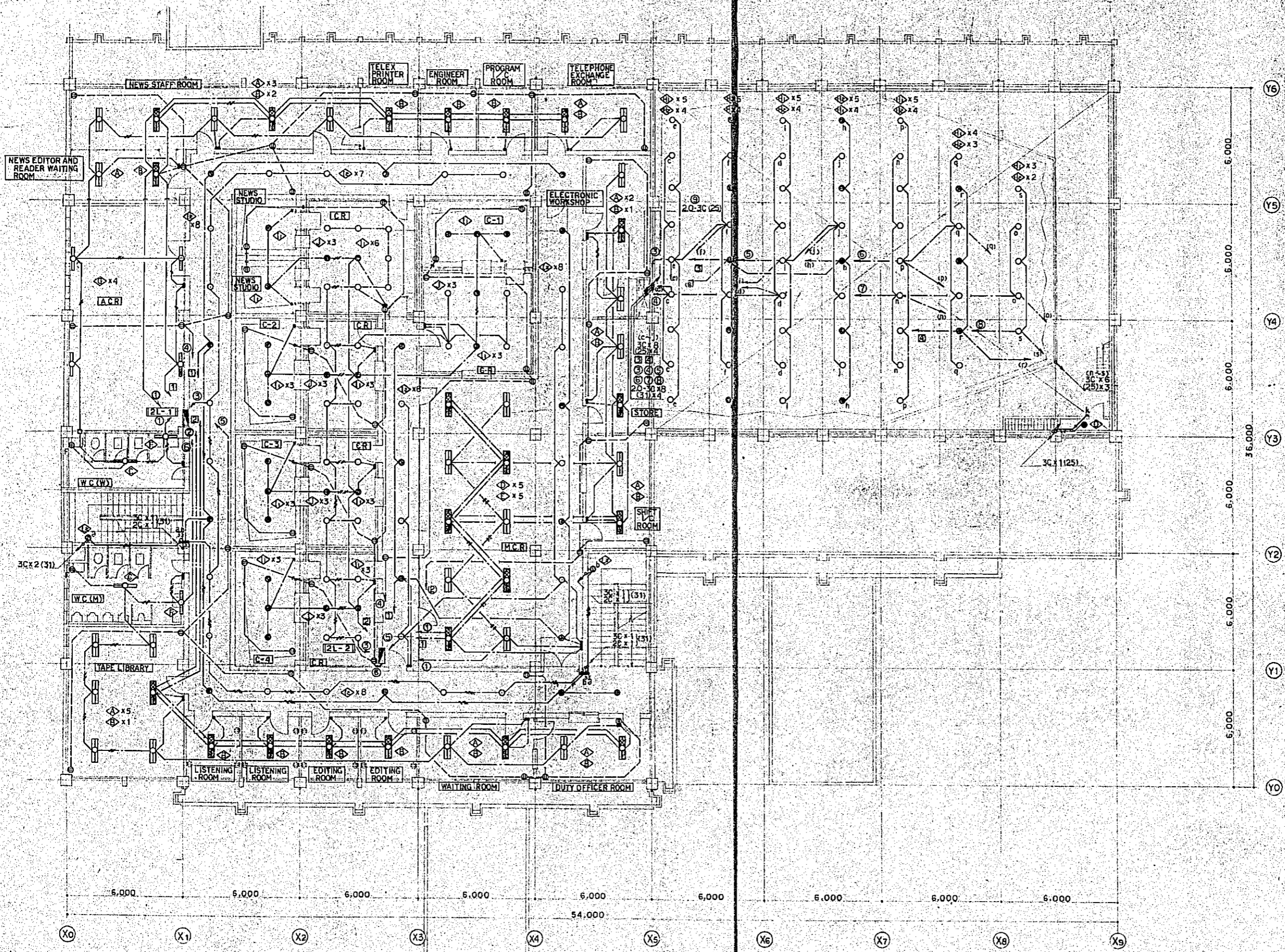
Project: NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH		No. E-16
LIGHTING FIXTURE AND SOCKET - OUTLET PLAN A (GF)		Scale 1/100
Approved by	Designed by	Drawn by
Date: FEB 1981		
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.		



TYPICAL LIGHTING DETAIL (S-NONE)

GROUND FLOOR PLAN (S=1:100)

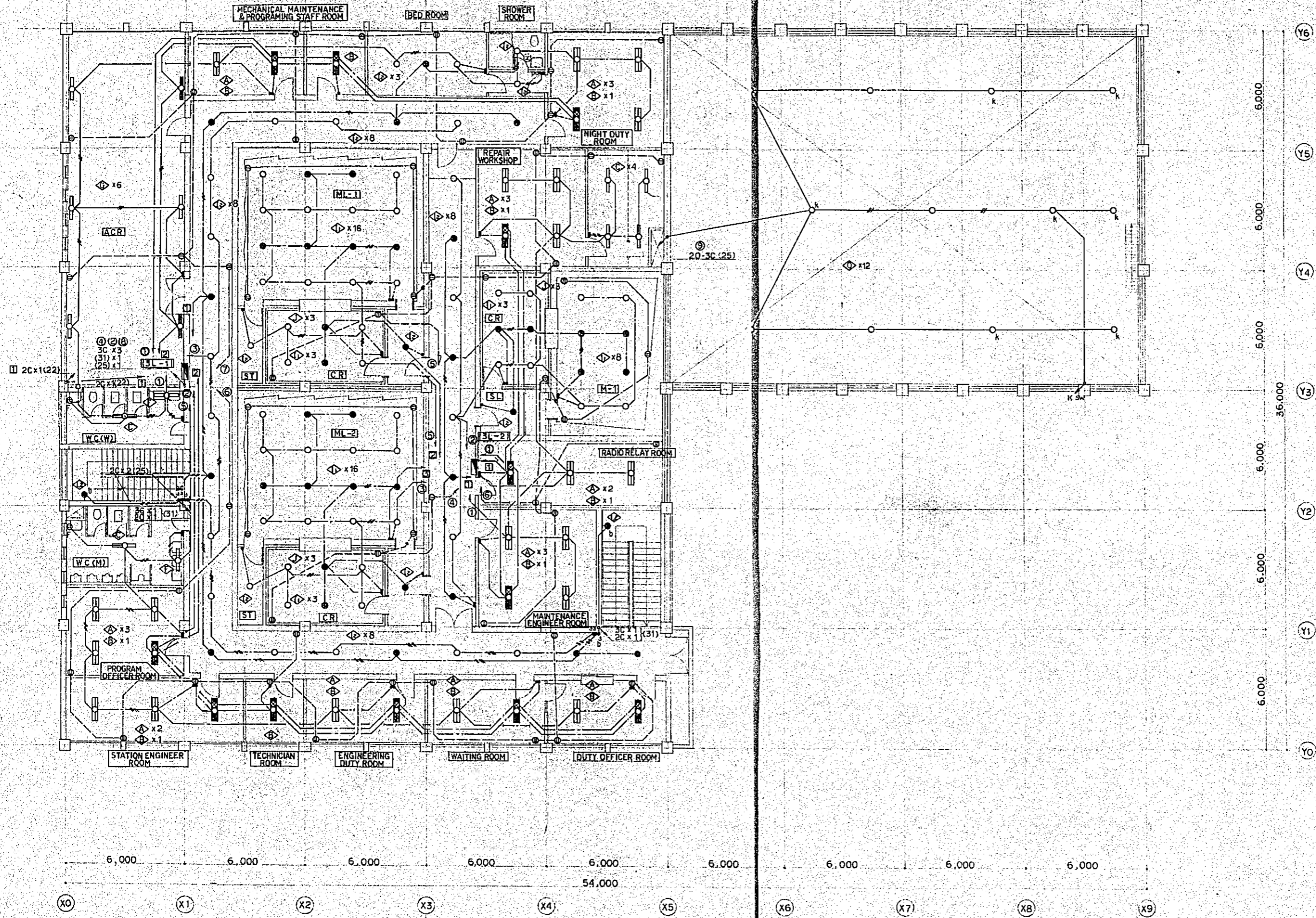
Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No	E-17
Scale	LIGHTING FIXTURE AND SOCKET-OUTLET PLAN S/H (GF)	Scale	1/100
Approved by	Designed by	Drawn by	Date
			FEB 1981
JECCL JAPAN ENGINEERING CONSULTANTS CO., LTD.			



NOTE
 ⓧ : SOCKET OUTLET FOR CYCF LINE

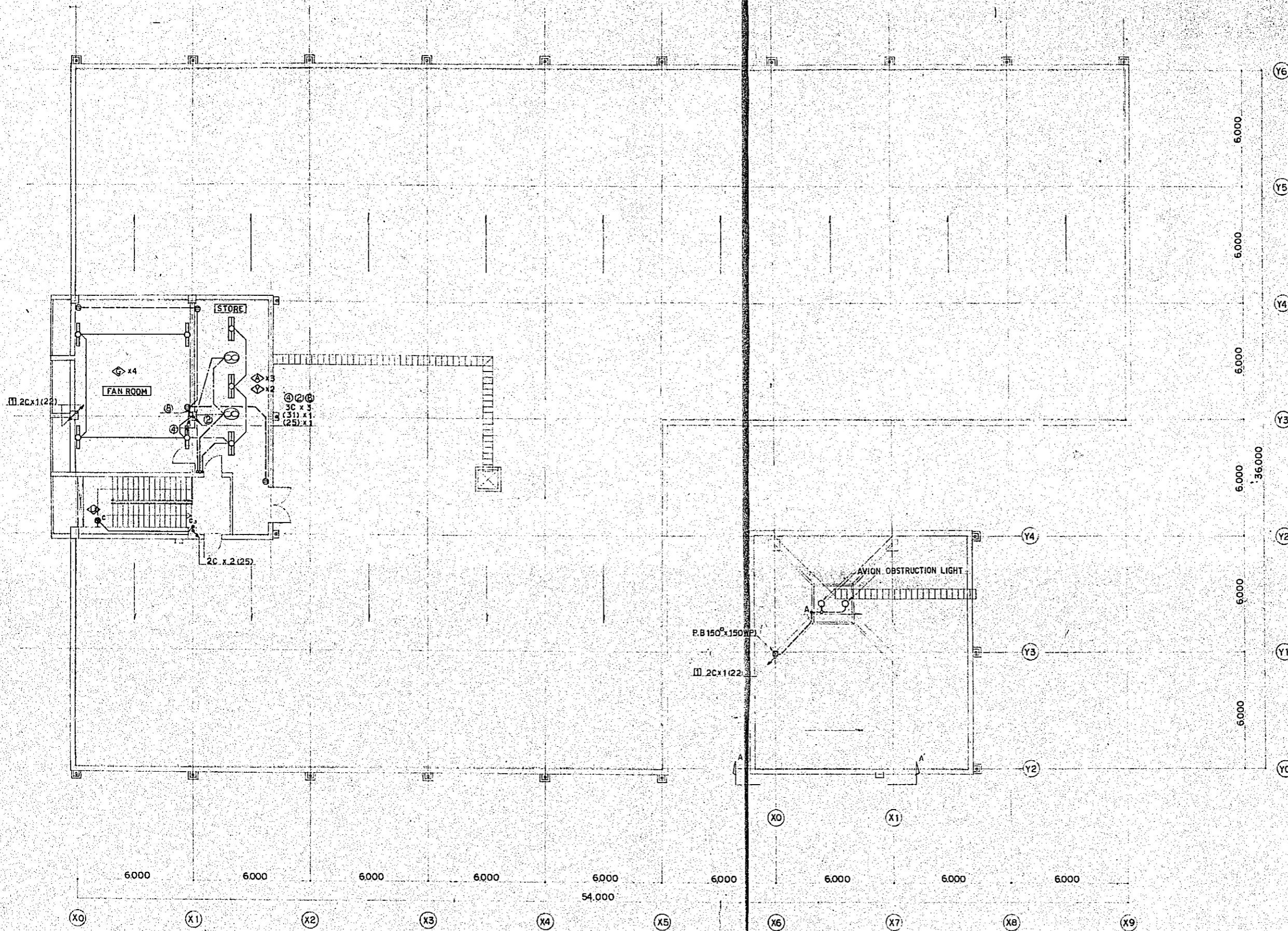
1ST FLOOR PLAN (S:1110)

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	E-18
	LIGHTING FIXTURE AND SOCKET - OUTLET PLAN S/H (IF)	Scale	1/100
Approved by	Designed by	Drawn by	Date
			FEB 1981
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			

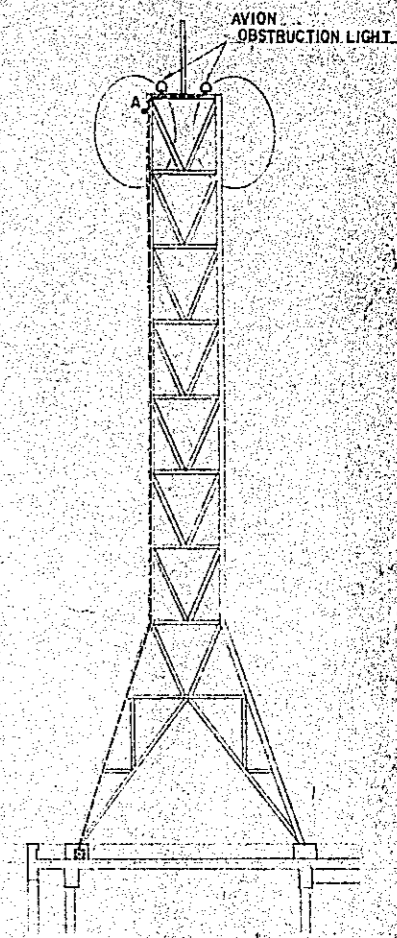


2ND FLOOR PLAN (S:1:100)

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	E-19
	LIGHTING FIXTURE AND SOCKET - OUTLET PLAN S/H (2F)	Scale	1/100
Approved by	Designed by	Checked by	Date
(Signature)	(Signature)	(Signature)	FEB 1981
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			

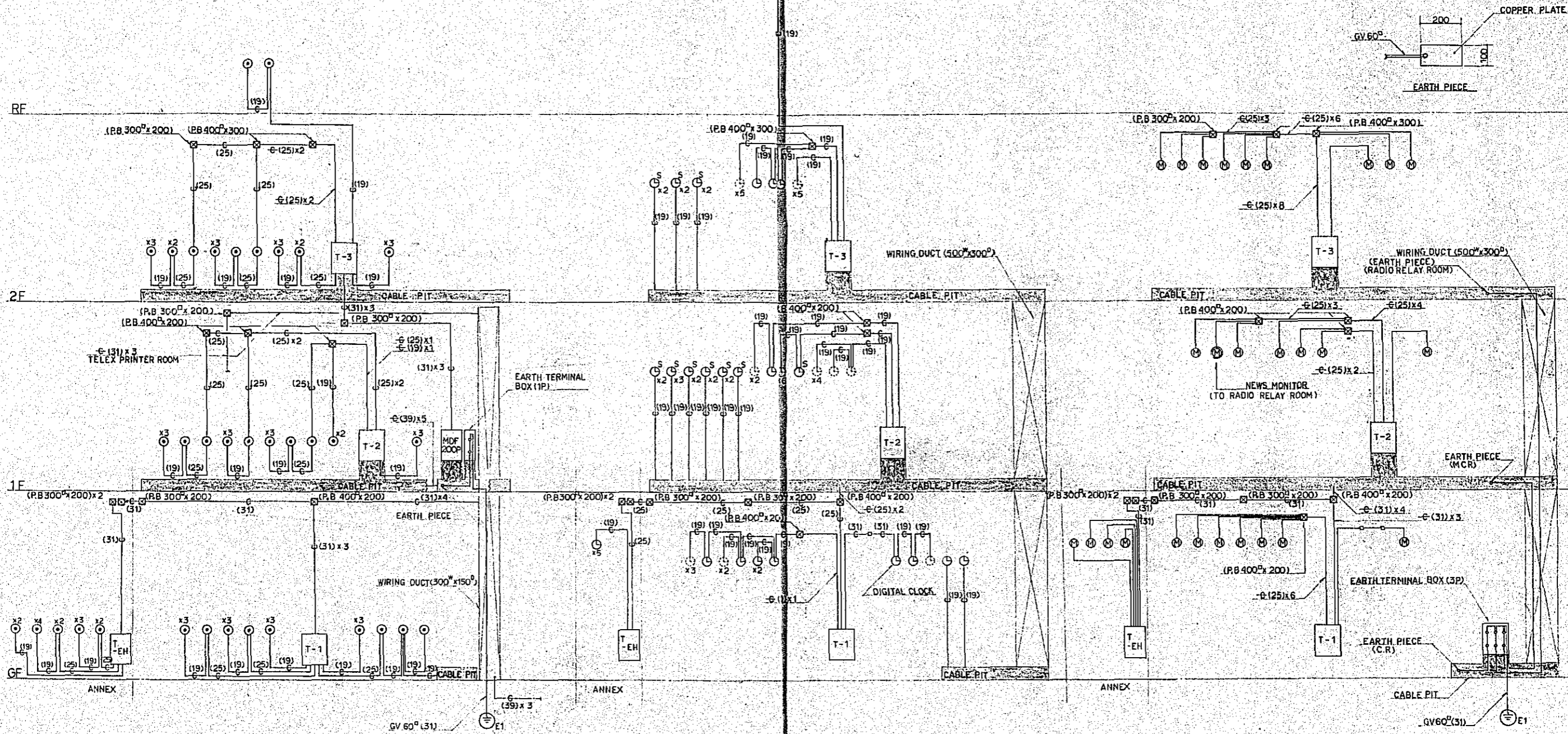


ROOF AND PENTHOUSE PLAN (S=1:100)



A-A SECTION (S=1:100)

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	E-20
	LIGHTING FIXTURE AND SOCKET-OUTLET PLAN S/H (RF)	Scale	1/100
Designed by	<i>[Signature]</i>	Checked by	<i>[Signature]</i>
Drawn by	<i>[Signature]</i>	Date	FEB 1981
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			

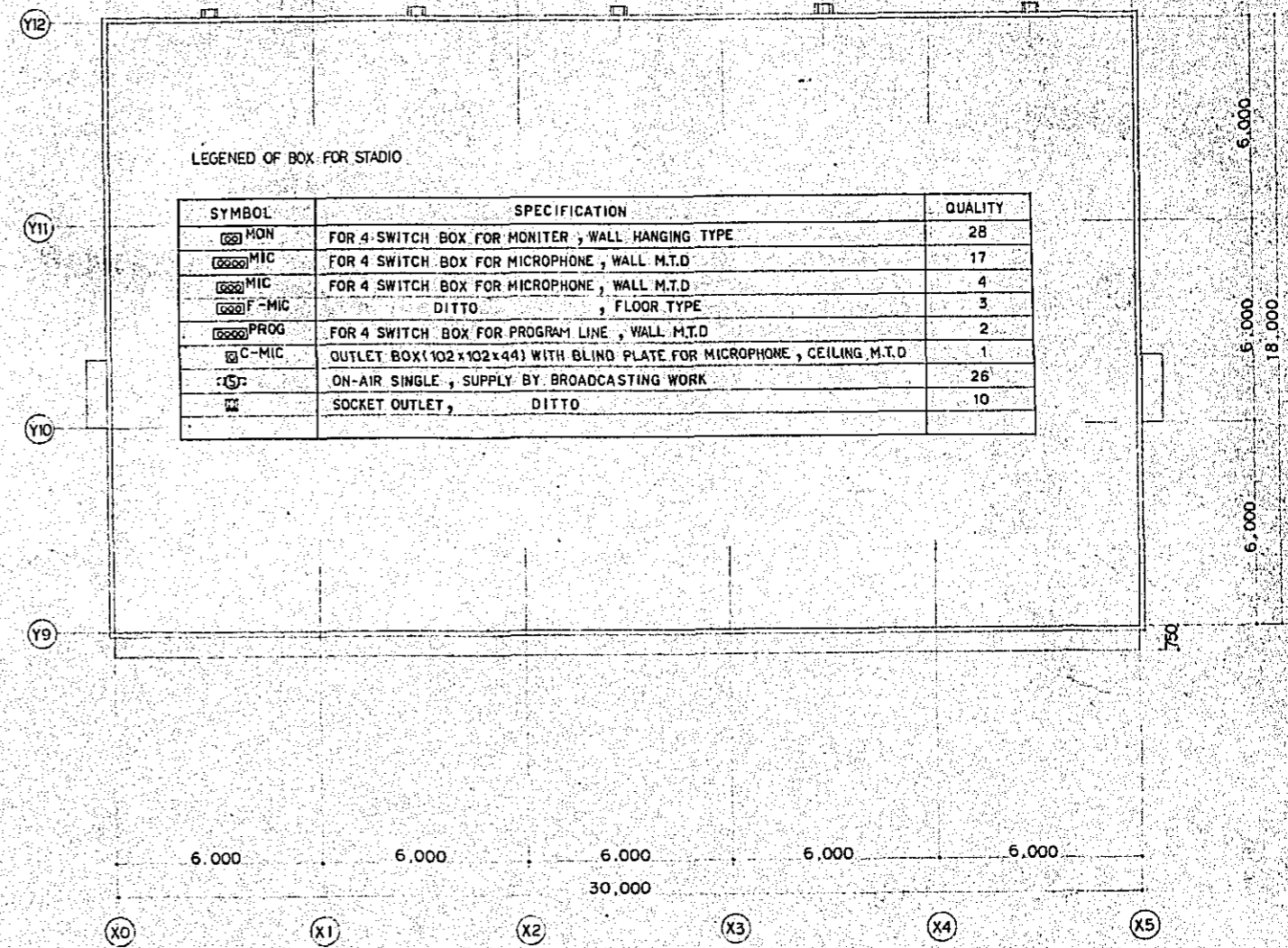
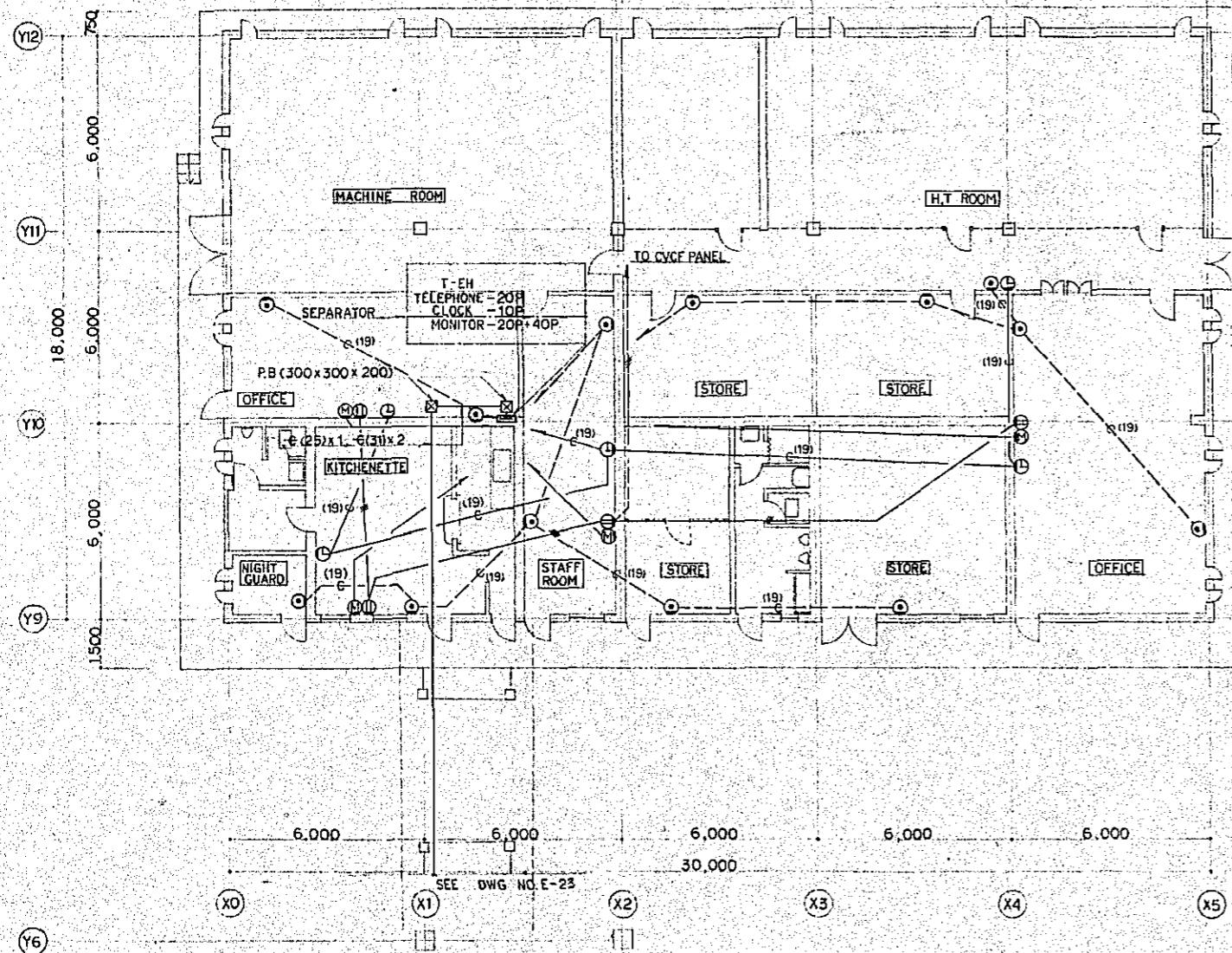


TELEPHONE SYSTEM

LOCK SYSTEM

HOUSE MONITOR SYSTEM

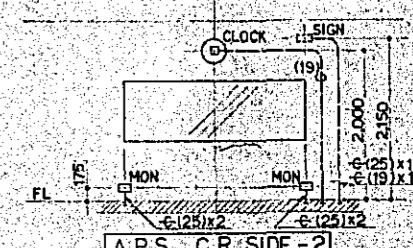
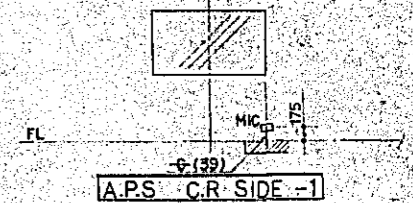
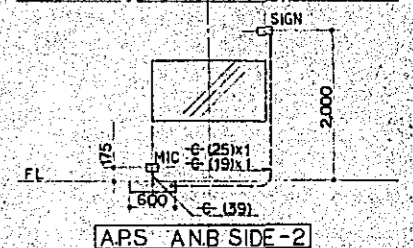
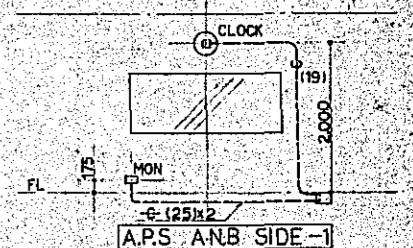
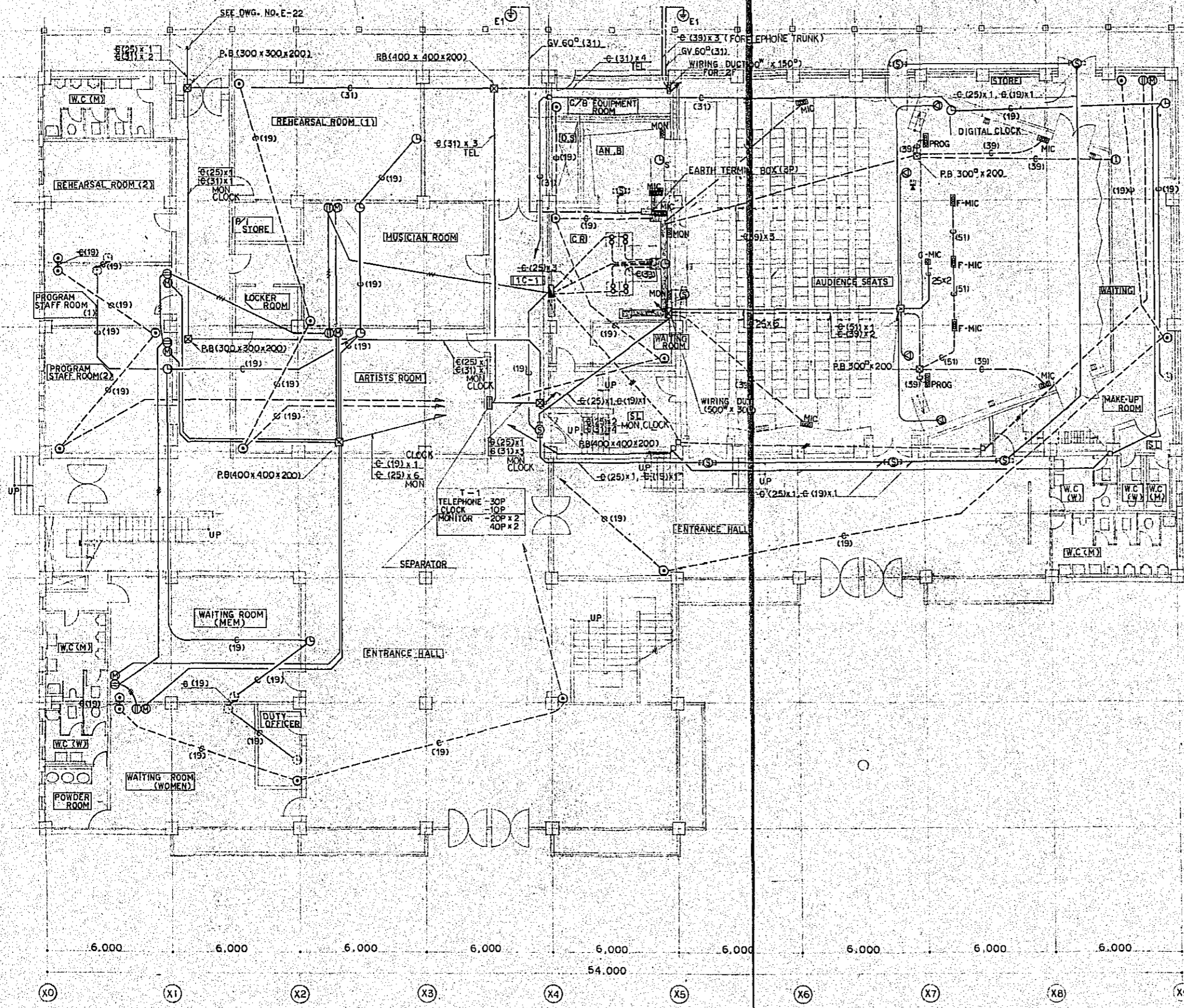
Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	E-21
System	SYSTEM DIAGRAM OF TELEPHONE, CLOCK AND HOUSE MONITOR	Scale	
Approved by	<i>[Signature]</i>	Drawn by	<i>[Signature]</i>
Designed by	<i>[Signature]</i>	Date	FEB 1971
JELCO JAPAN ENGINEERING CONSULTANTS CO., LTD.			



NOTE : 1) PIPING WITHOUT FURTHER DESIGNATION IS INDICATED AS Ø (25)
 2) SOCKET OUTLET WIRING (---) IS INDICATED AS 20x2 E20 (19)

ANNEX PLAN (S:1:100)

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	E-22
Scale	TELEPHONE, CLOCK AND BROADCASTING PLAN A (GF)	Scale	1/100
Approved by	Designed by	Drawn by	Date
			FEB 1981
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			



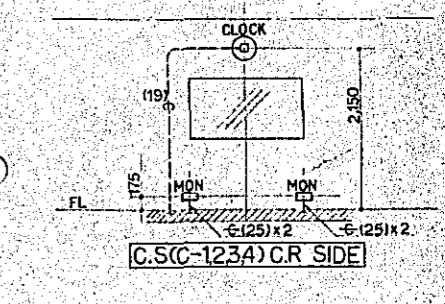
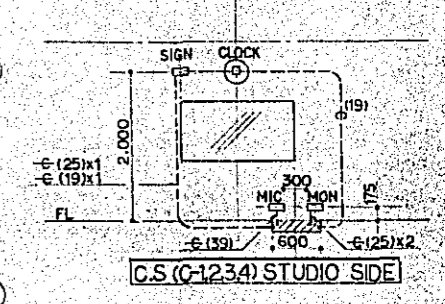
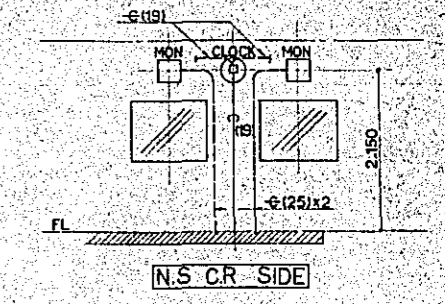
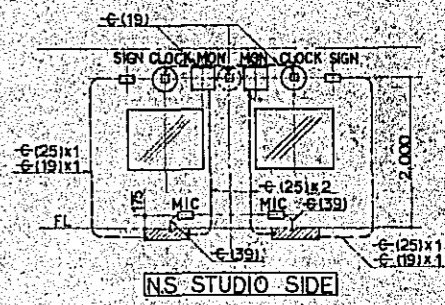
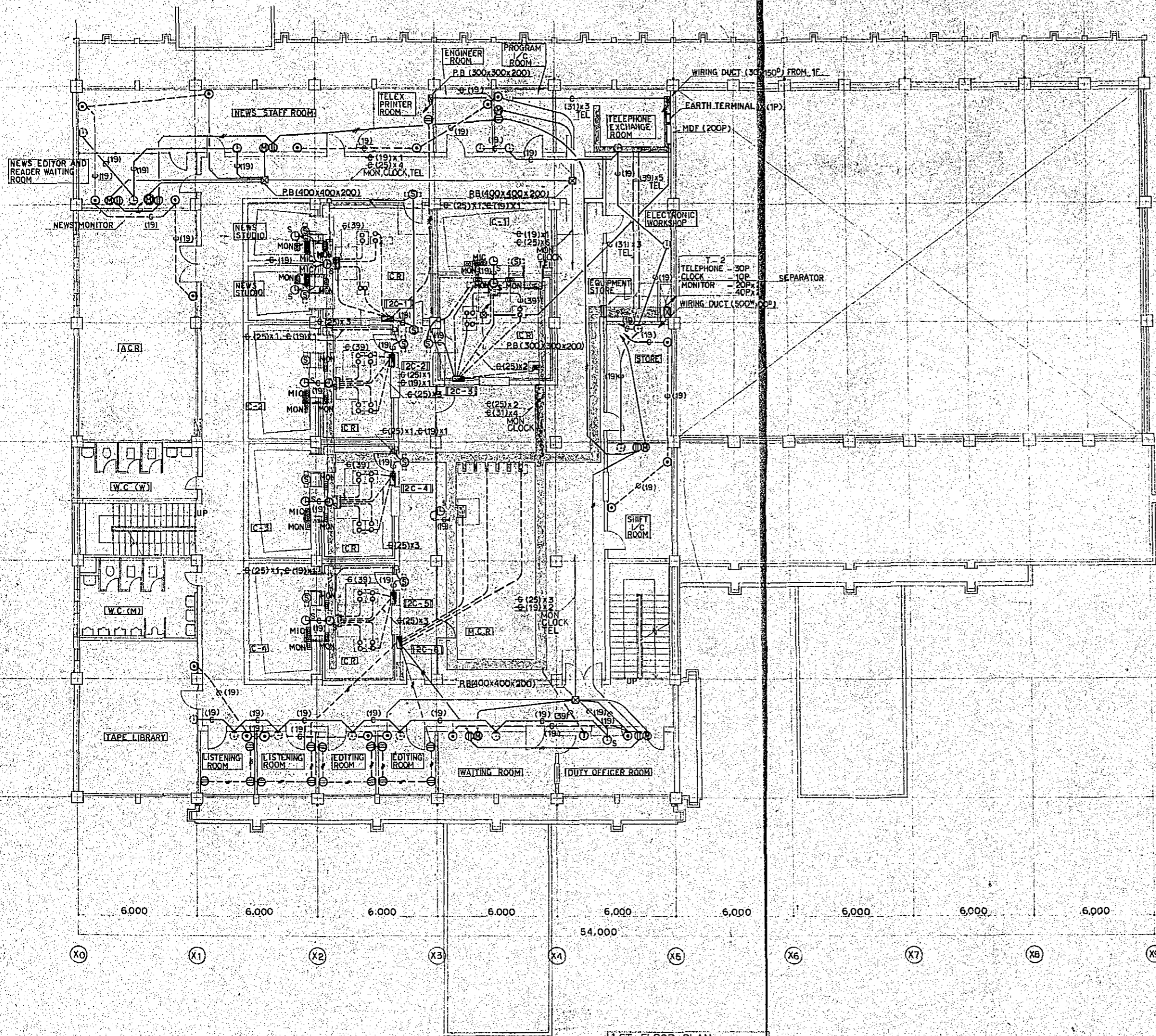
NOTE ; 1) PIPING WITHOUT FURTHER DESIGNATION IS INDICATED AS 6(25)
 2) SOCKET OUTLET WIRING (---) IS INDICATED AS 20x2 E20(19)

NOTE ; FIXTURES INSTALLATION ABOVE FLOOR SHALL BE AS FOLLOWS ;

- ⊙ : 300 mm
- ⊖ : 300 mm
- ⊕ : 2,400 mm
- ⊗ : 1,700 mm
- ⊘ : 1,700 mm

GROUND FLOOR PLAN (S:1:10)

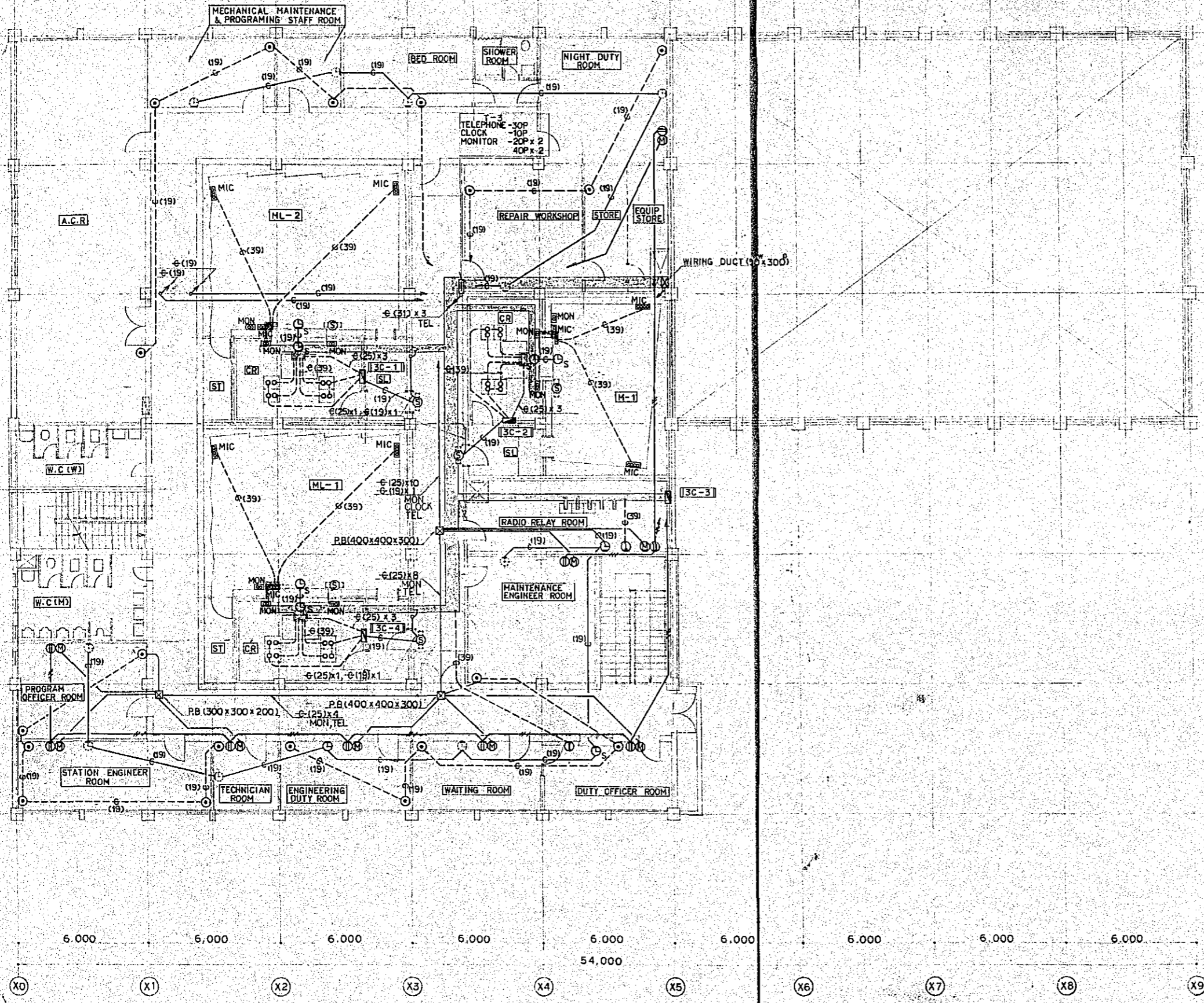
Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	E-23
	TELEPHONE CLOCK AND BROADCASTING PLAN S/H (GF)	Scale	1/100
Approved by	Designed by	Drawn by	Date
			FEB 1981
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			



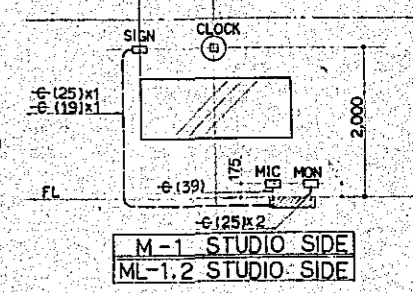
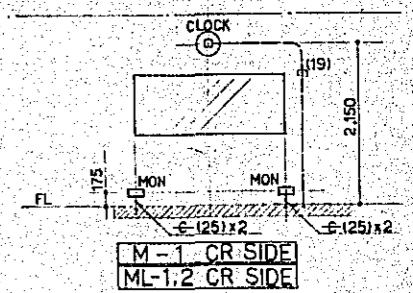
NOTE ; 1) PIPING WITHOUT FURTHER DESIGNATION IS INDICATED AS G (25)
 2) SOCKET OUTLET WIRING (---) IS INDICATED AS 2.0x2. E20(19)

1ST FLOOR PLAN (S=1:100)

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No	E-24
Scale	TELEPHONE CLOCK AND BROADCASTING PLAN S/H (1F)	Scale	1/100
Approved by	Designed by	Drawn by	Date
			FEB 1981
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			



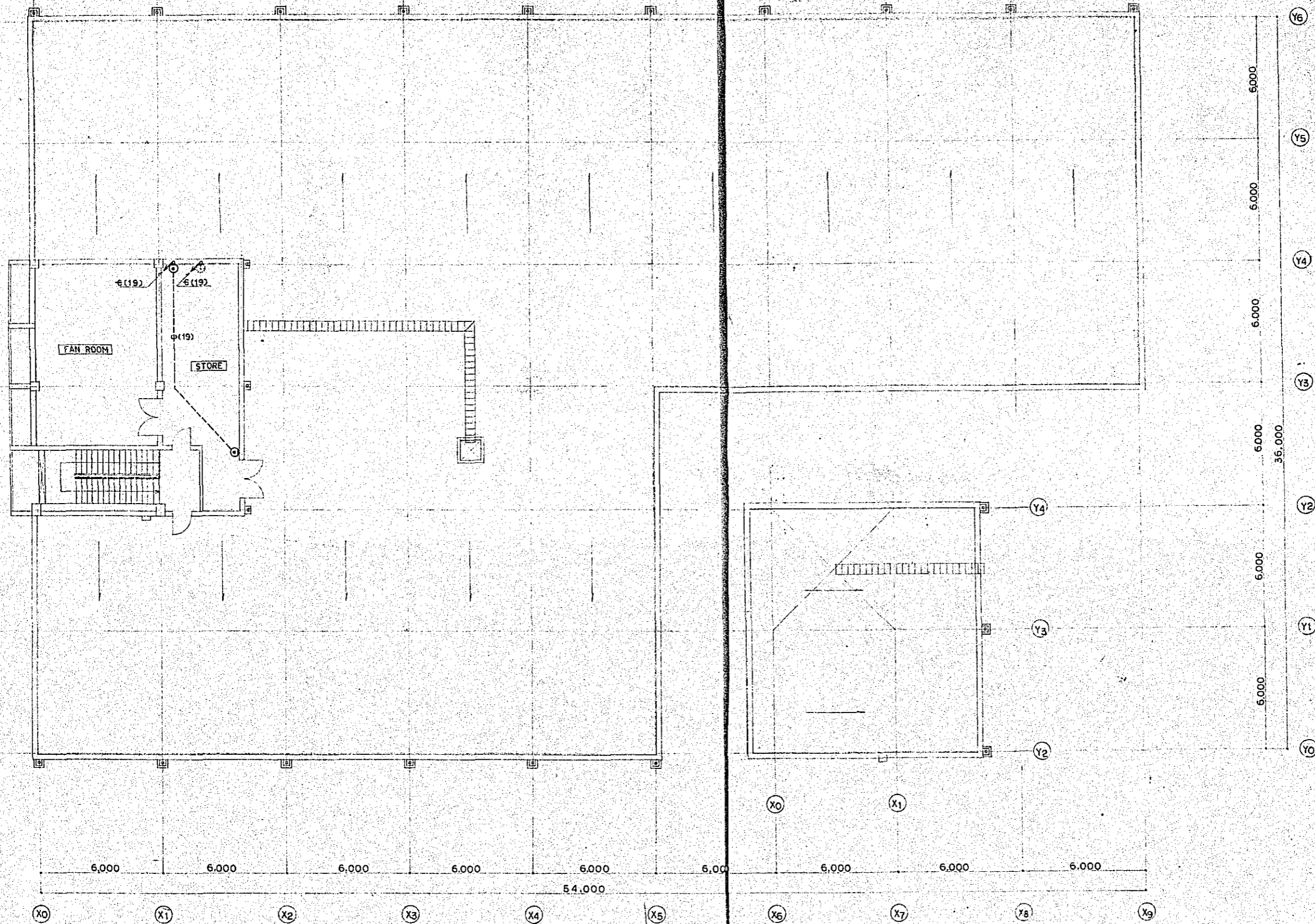
Y6
6,000
Y5
6,000
Y4
6,000
Y3
6,000
Y2
6,000
Y1
6,000
Y0



NOTE : 1) PIPING WITHOUT FURTHER DESIGNATION IS INDICATED AS 6 (25)
2) SOCKET OUTLET WIRING (---) IS INDICATED AS 2.0 x 2 E2D (19)

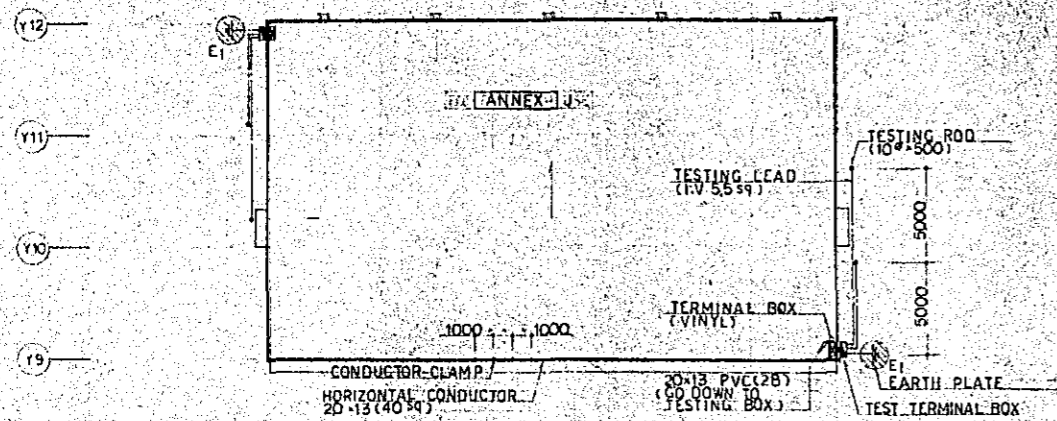
2ND FLOOR PLAN (S:1110)

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	E-25
Scale	TELEPHONE CLOCK AND BROADCASTING PLAN S/E (2F)	Scale	1/100
Approved by	Designed by	Drawn by	Date
		so	FEB 1981
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			

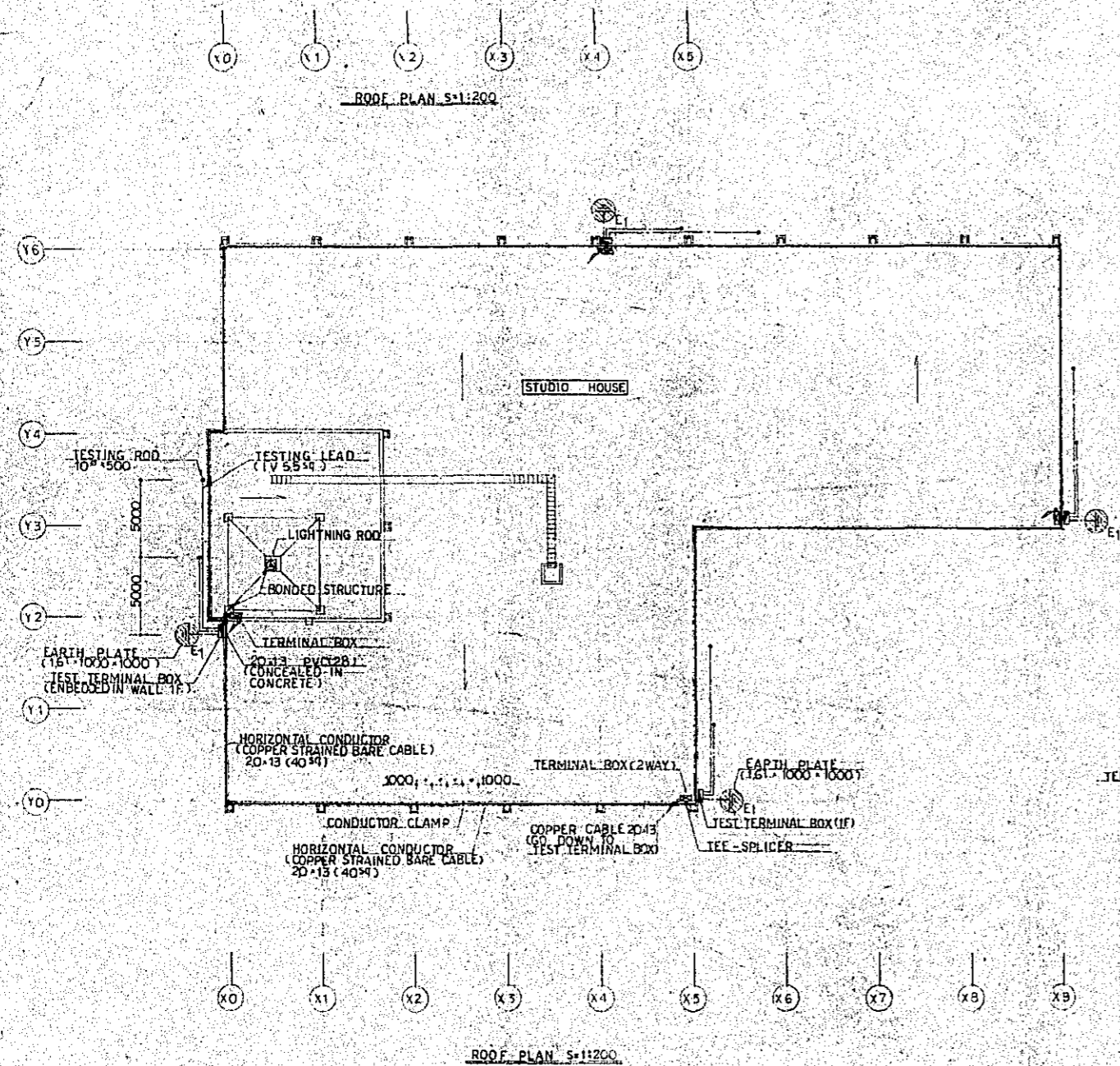


ROOF AND PENTHOUSE PLAN (S=1:100)

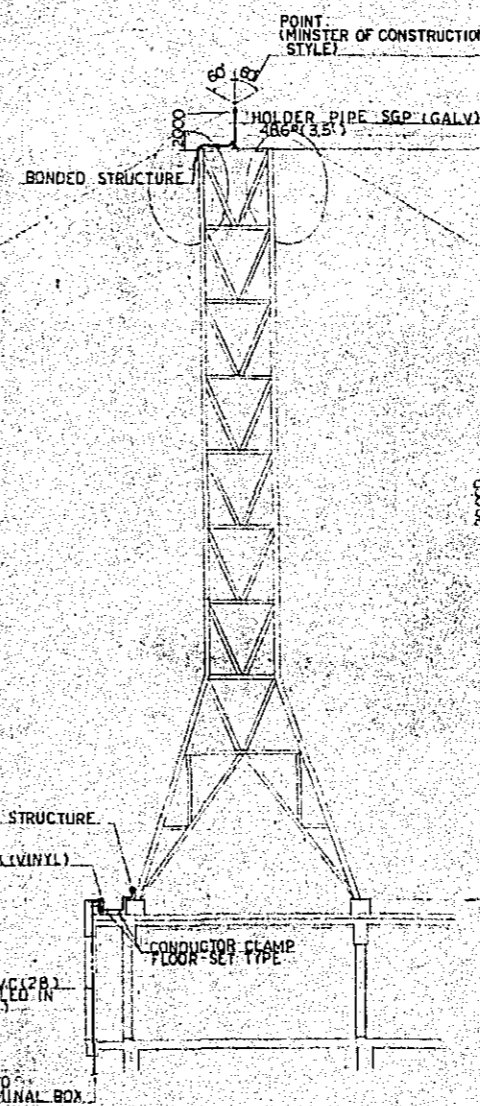
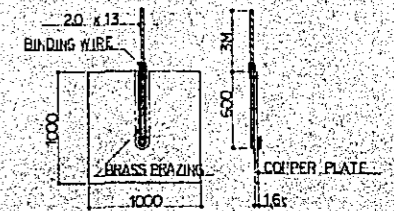
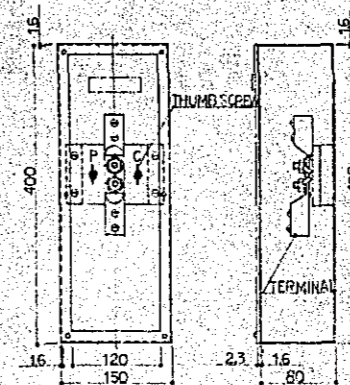
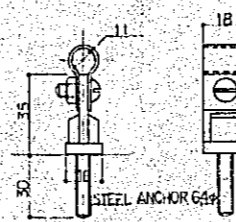
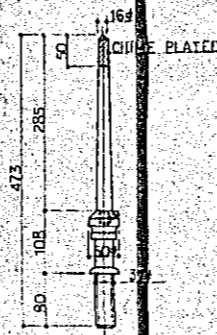
Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	E-26
	TELEPHONE CLOCK AND BROADCASTING PLAN S/E (RF)	Scale	1/100
Approved by	Designed by	Drawn by	Date
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	FFR 1981
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			



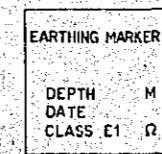
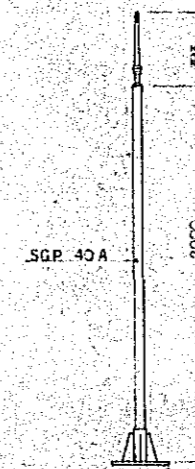
ROOF PLAN S=1:200



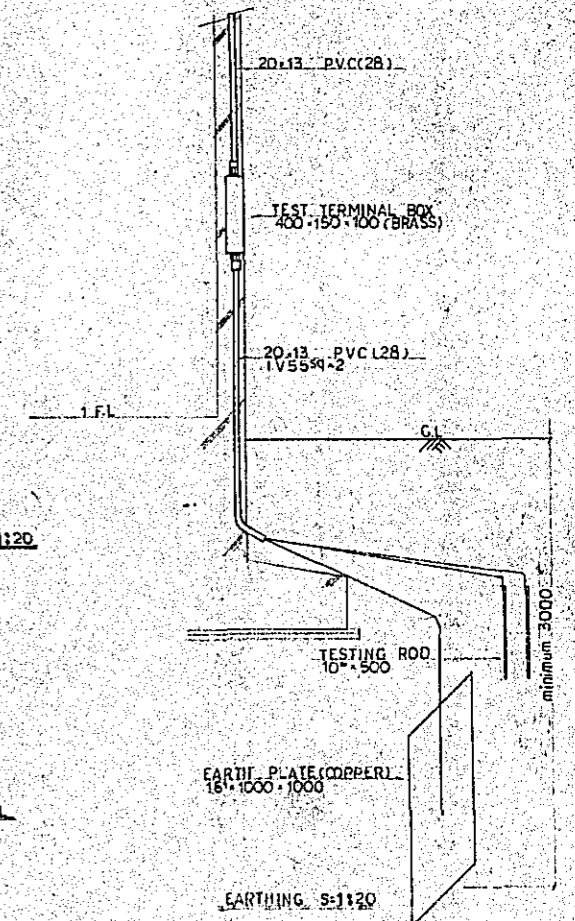
ROOF PLAN S=1:200



ELEVATION S=1:100



EARTHING MARKER DETAIL



Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	E-27
Scale	1/100, 1/200		
Approved by	Designed by	Checked by	Date
			FEB 1981
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			

LIST OF DRAWINGS FOR AIR CONDITIONING AND VENTILATION

DRGS NO.	TITLE OF DRAWINGS	SCALE	DRGS NO.	TITLE OF DRAWINGS	SCALE
M-1	LIST OF DRAWINGS FOR AIR CONDITIONING AND VENTILATION		M-16	DETAILS OF VIBRATION PROTECTION FOR PIPE	
M-2	LIST OF MACHINES		M-17	DETAILS OF VIBRATION AND SOUND PROTECTION FOR DUCTING, AND SILENCER ELBOW	
M-3	DIAGRAM OF DUCT SYSTEM AND SYMBOLS		M-18	DETAILS OF DIRECT GAS FIRED ABSORPTION LIQUID CHILLER	1/20
M-4	FLOW DIAGRAM OF PIPING, DO		M-19	DETAILS OF AIR DIFFUSERS AND TOTAL HEAT EXCHANGER	1/20, —
M-5	PLAN — GROUND FLOOR (DUCTING AND PIPING)	1/100	M-20	DETAILS OF AIR HANDLING UNIT	1/15, 1/20
M-6	PLAN — FIRST FLOOR (DUCTING AND PIPING)	1/100	M-21	DETAILS OF VIBRATION ABSORBER	1/20, 1/30
M-7	PLAN — SECOND FLOOR (DUCTING AND PIPING)	1/100	M-22	DETAILS OF DEEP WELL	1/20, —
M-8	PLAN — ROOF FLOOR (DUCTING AND PIPING)	1/100	M-23	MISCELLANEOUS DETAILS (EXPANTION TANK)	1/5
M-9	PLAN — ANNEX (DUCTING AND PIPING)	1/100			
M-10	DETAILS OF MACHINE ROOM (PIPING)	1/250			
M-11	DETAILS OF AIR CONDITIONER ROOM (FIRST FLOOR, SECOND FLOOR)	1/250			
M-12	DETAILS OF AUDIENCE STUDIO FOR DUCTING (SECTION)	1/250			
M-13	DETAILS OF STUDIO FOR DUCTING (SECTION)	1/250			
M-14	DIAGRAM OF AUTOMATIC CONTROL SYSTEM				
M-15	PLAN — FIRST AND SECOND FLOOR (AUTOMATIC CONTROL)	1/50			

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	M-1
	LIST OF DRAWINGS FOR AIR CONDITIONING AND VENTILATION	Scale	
Approved by	<i>[Signature]</i>	Drawn by	<i>m.o</i>
		Date	FEB 1991
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			

LIST OF MACHINES

NO	ITEMS	SPECIFICATIONS	QTY	PHASE	VOLT	KW	REMARKS
M-1	R-1	GAS DIRECT-FIRED ABSORPTION LIQUID CHILLER COOLING CAPACITY 272160 ^{KCAL/H} CHILLED WATER FLOW 910 ^{L/M} CHILLED WATER TEMP 7°C ~ 12°C COOLING WATER FLOW 900 ^{L/M} COOLING WATER TEMP 26°C ~ 36.4°C AMOUNT OF GAS USAGE 355 ^{HYH} CALORIFIC VALUE 9300 ^{KCAL/NM³} GAS PRESSURE (MEDIUM PRESSURE) 1000 ^{MM/AG}	2	3	415	11.5	ONE IS STAN'BY
M-2	CP-1	CHILLED WATER PUMP (CENTRIFUGAL PUMP) 80 ^Ø x 50 ^Ø x 910 ^{L/M} x 34 ^{M/AG}	2	3	415	11	ONE IS STAN'BY
M-3	CDP-1	COOLING WATER PUMP (SUBMERSIBLE PUMP) 100 ^Ø x 900 ^{L/M} x 16 ^{M/AG}	2	3	415	3.7	ONE IS STAN'BY
M-4	P-1	DEEP WELL PUMP 100 ^Ø x 1000 ^{L/M} x 40 ^{M/AG}	2	3	415	11	WITH ELECTRIC WIRE/40 ^M , FOR POWER SUPPLY AND ANTIRACING (* ONE IN STORE FOR SPARE)
M-5	EX-1	TOTAL HEAT EXCHANGER UNIT TYPE (WITH FAN) OUTDOOR AIR VOLUME 8470 x 25 ^{MMAG} (WITH FLAT TYPE AIR FILTER AFI:80%) EXHAUST AIR VOLUME 4860 x 40 ^{MMAG} (WITH FLAT TYPE AIR FILTER AFI:80%)	1	3	415	55	
M-6	EXT-1	EXPANSION TANK STEEL PLATE 3.2t CAPACITY 100 ^Ø 500 x 500 x 500 ^H	1	-	-	-	WITH STAND H:500 ^{MM}
M-7	AHU-1	AIR HANDLING UNIT HORIZONTAL TYPE: AIR VOLUME 7200 ^{CMH} (OA 1560 ^{CMH}) EXTERNAL SP 60 ^{MMAG} COOLING CAPACITY 42100 ^{KCAL/H} CHILLED WATER FLOW 150 ^{L/M} CHILLED WATER TEMP 7°C ~ 12°C COOLING COIL ROW 6 AIR FILTER FLAT TYPE EFFICIENCY AFI:80%	1	3	415	5.5	
M-8	AHU-2	AIR HANDLING UNIT HORIZONTAL TYPE: AIR VOLUME 17200 ^{CMH} (OA 1600 ^{CMH}) EXTERNAL SP 70 ^{MMAG} COOLING CAPACITY 7400 ^{KCAL/H} CHILLED WATER FLOW 260 ^{L/M} CHILLED WATER TEMP 7°C ~ 12°C COOLING COIL ROW 4 AIR FILTER FLAT TYPE EFFICIENCY AFI:80%	1	3	415	11	
M-9	AHU-3	AIR HANDLING UNIT HORIZONTAL TYPE: AIR VOLUME 15400 ^{CMH} (OA 1580 ^{CMH}) EXTERNAL SP 70 ^{MMAG} COOLING CAPACITY 67400 ^{KCAL/H} CHILLED WATER FLOW 240 ^{L/M} CHILLED WATER TEMP 7°C ~ 12°C COOLING COIL ROW 6 AIR FILTER FLAT TYPE EFFICIENCY AFI:80%	1	3	415	11	
M-10	AHU-4	AIR HANDLING UNIT HORIZONTAL TYPE: AIR VOLUME 5600 ^{CMH} (OA 2700 ^{CMH}) EXTERNAL SP 70 ^{MMAG} COOLING CAPACITY 47000 ^{KCAL/H} CHILLED WATER FLOW 170 ^{L/M} CHILLED WATER TEMP 7°C ~ 12°C COOLING COIL ROW 8 AIR FILTER FLAT TYPE EFFICIENCY AFI:80%	1	3	415	3.7	
M-11	AHU-5	AIR HANDLING UNIT HORIZONTAL TYPE: AIR VOLUME 3500 ^{CMH} (OA 1030 ^{CMH}) EXTERNAL SP 75 ^{MMAG} COOLING CAPACITY 23300 ^{KCAL/H} CHILLED WATER FLOW 90 ^{L/M} CHILLED WATER TEMP 7°C ~ 12°C COOLING COIL ROW 6 AIR FILTER FLAT TYPE EFFICIENCY AFI:80%	1	3	415	3.7	
M-12	EF-1	EXHAUST FAN (GF WC) VENTILATOR 150 ^Ø x 300 ^{M³/H}	5	1	240	0.03	
M-13	EF-2	EXHAUST FAN (GF STAGE WC) CENTRIFUGAL FAN (CEILING MOUNTED) 170 ^Ø x 300 ^{M³/H} x 10 ^{MMAG}	1	1	240	0.124	
M-14	EF-3	EXHAUST FAN (1.2F WC etc) VENTILATOR 200 ^Ø x 400 ^{M³/H}	2	1	240	0.03	
M-15	EF-4	EXHAUST FAN (1.2F WC) VENTILATOR 200 ^Ø x 500 ^{M³/H}	2	1	240	0.03	
M-16	EF-5	EXHAUST FAN (SHOWER ROOM) CEILING MOUNT TYPE 180 ^Ø x 250 ^{M³/H}	1	1	240	0.046	
M-17	EF-6	EXHAUST FAN (H.T ROOM) HIGH PRESSURE TYPE VENTILATOR 300 ^Ø x 1200 ^{M³/H}	2	1	240	0.075	
M-18	EF-7	EXHAUST FAN (GENERATOR ROOM) HIGH PRESSURE TYPE VENTILATOR 200 ^Ø x 400 ^{M³/H}	1	1	240	0.03	
M-19	EF-8	EXHAUST FAN (EQP HOUSE WC) CEILING MOUNT TYPE 140 ^Ø x 100 ^{M³/H}	1	1	240	0.023	
M-20	EF-9	EXHAUST FAN (KITCHENETTE) CENTRIFUGAL FAN (CEILING MOUNTED) 210 ^Ø x 900 ^{M³/H} x 10 ^{MMAG}	1	1	240	0.29	
M-21	EF-10	EXHAUST FAN (STORE) VENTILATOR 150 ^Ø x 300 ^{M³/H}	1	1	240	0.03	
M-22	EF-11	EXHAUST FAN (STORE) CEILING MOUNT TYPE 180 ^Ø x 400 ^{M³/H}	2	1	240	0.068	
M-23	EF-12	EXHAUST FAN (STORE) VENTILATOR 200 ^Ø x 540 ^{M³/H}	1	1	240	0.03	
M-24	EF-13	EXHAUST FAN (MACHINE ROOM) HIGH PRESSURE TYPE VENTILATOR 250 ^Ø x 1050 ^{M³/H}	2	1	240	0.043	

Project NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH		No. M-2
LIST OF MACHINES		
Approved By	Checked By	Drawn By
<i>(Signature)</i>	<i>(Signature)</i>	<i>(Signature)</i>
Date FEB 1981		
S.P.L. ENGINEERING CONSULTANTS CO., LTD.		

SYMBOL	
SYMBOL	ITEMS
	AIR DUCT (GALVANIZED STEEL SHEET)
	AIR VOLUME DAMPER
	AIR CHAMBER
	SILENCER CHAMBER
	SILENCER ELBOW
	OUTLET DEFFUSER
	OUTLET DEFFUSER
	INLET DEFFUSER
	INLET DEFFUSER
	FLEXIBLE CANVAS DUCT
	SOUND PROOF DUCT (MORTAR T-25 mm)

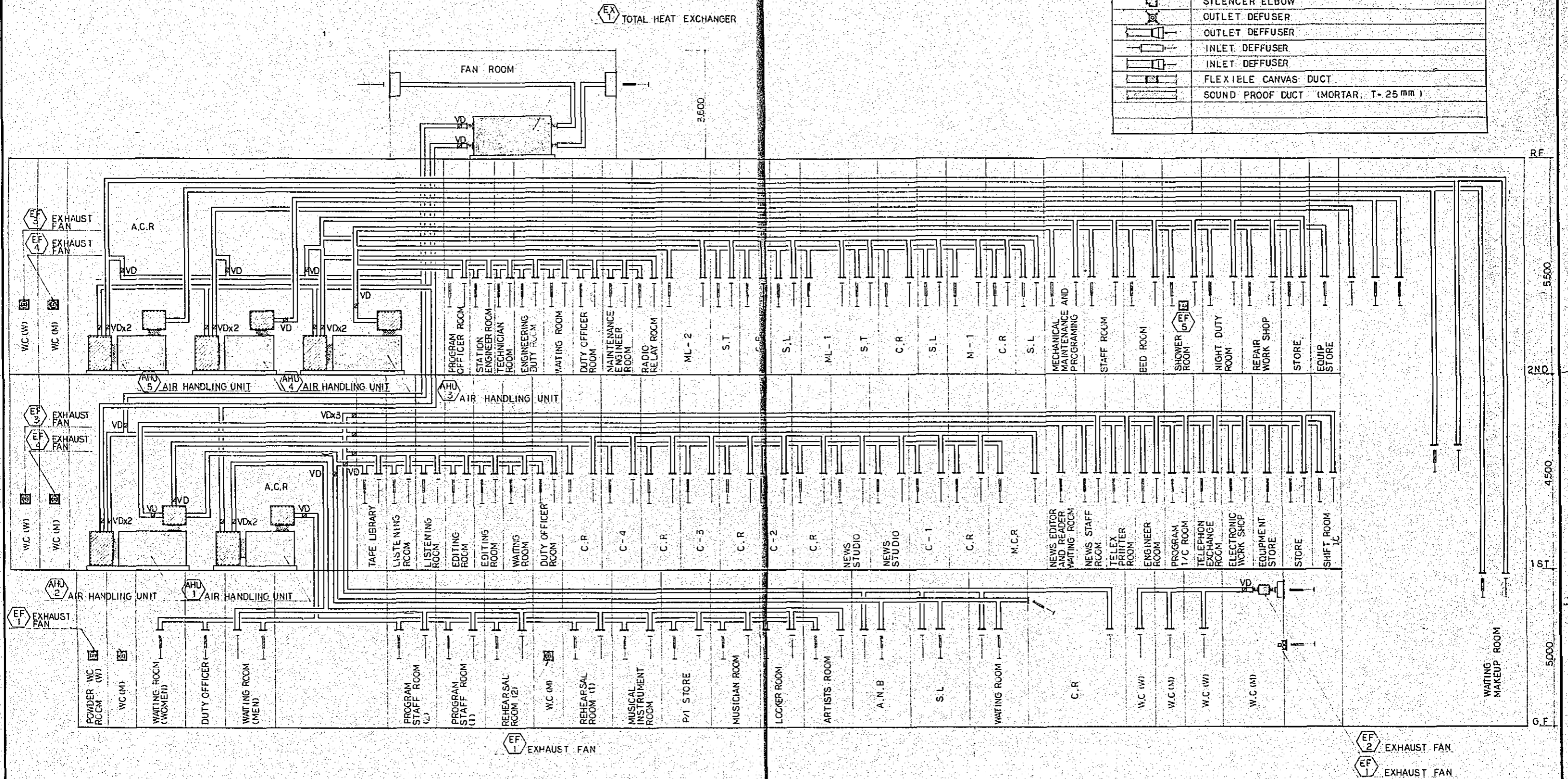


DIAGRAM OF DUCT SYSTEM

NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH

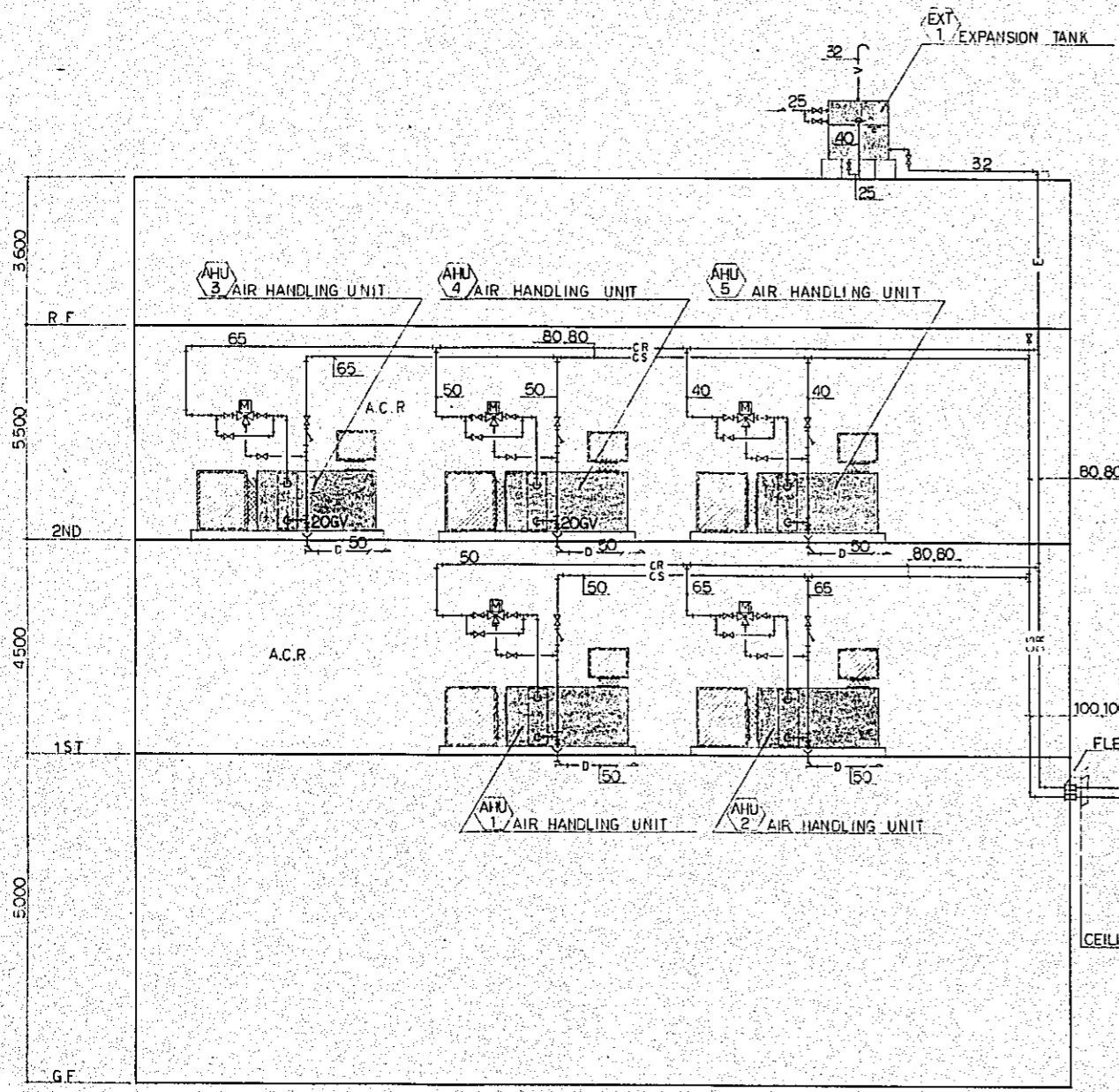
DIAGRAM OF DUCT SYSTEM AND SYMBOLS

Approved by: Designed by: Drawn by: Date: FEB 1991

JERC JAPAN ENGINEERING CONSULTANTS CO., LTD.

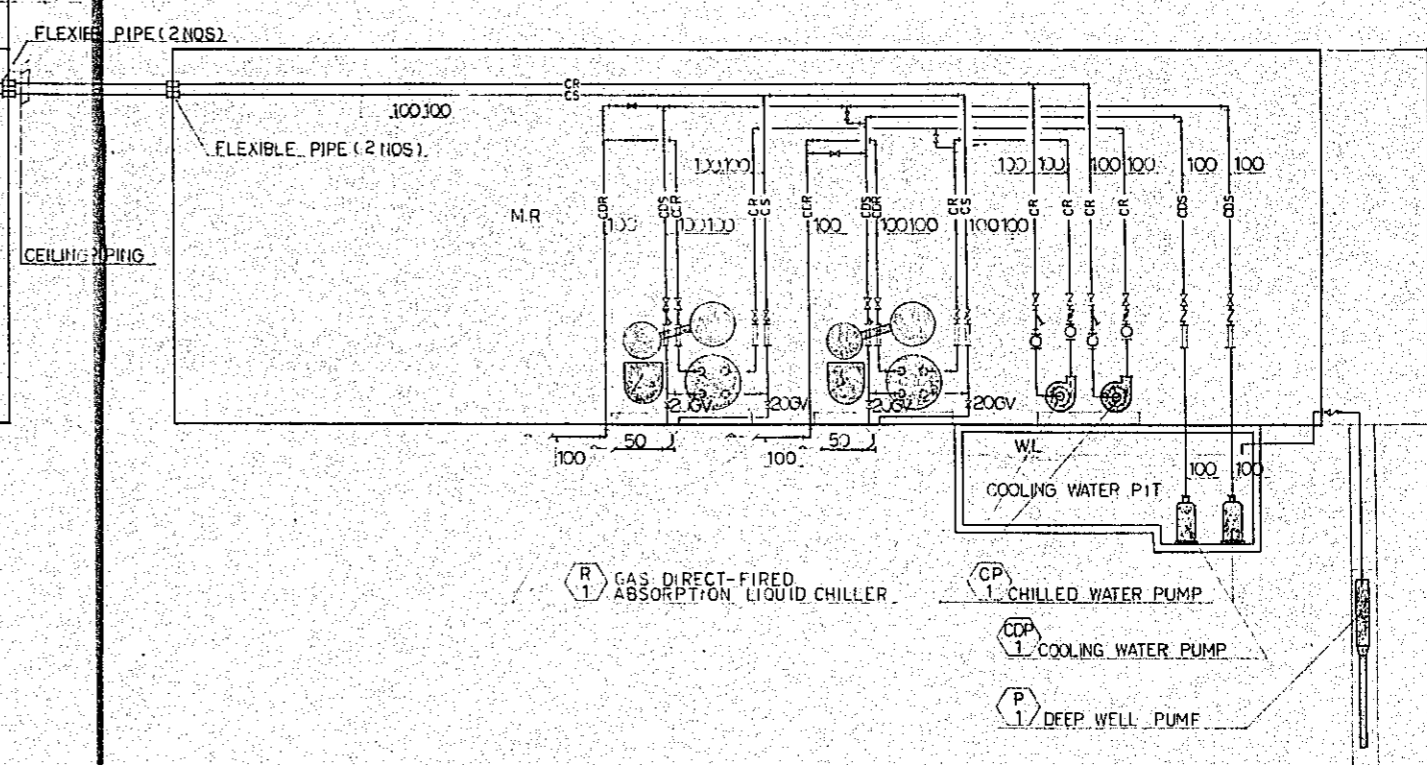
No. M-3

Scale: —



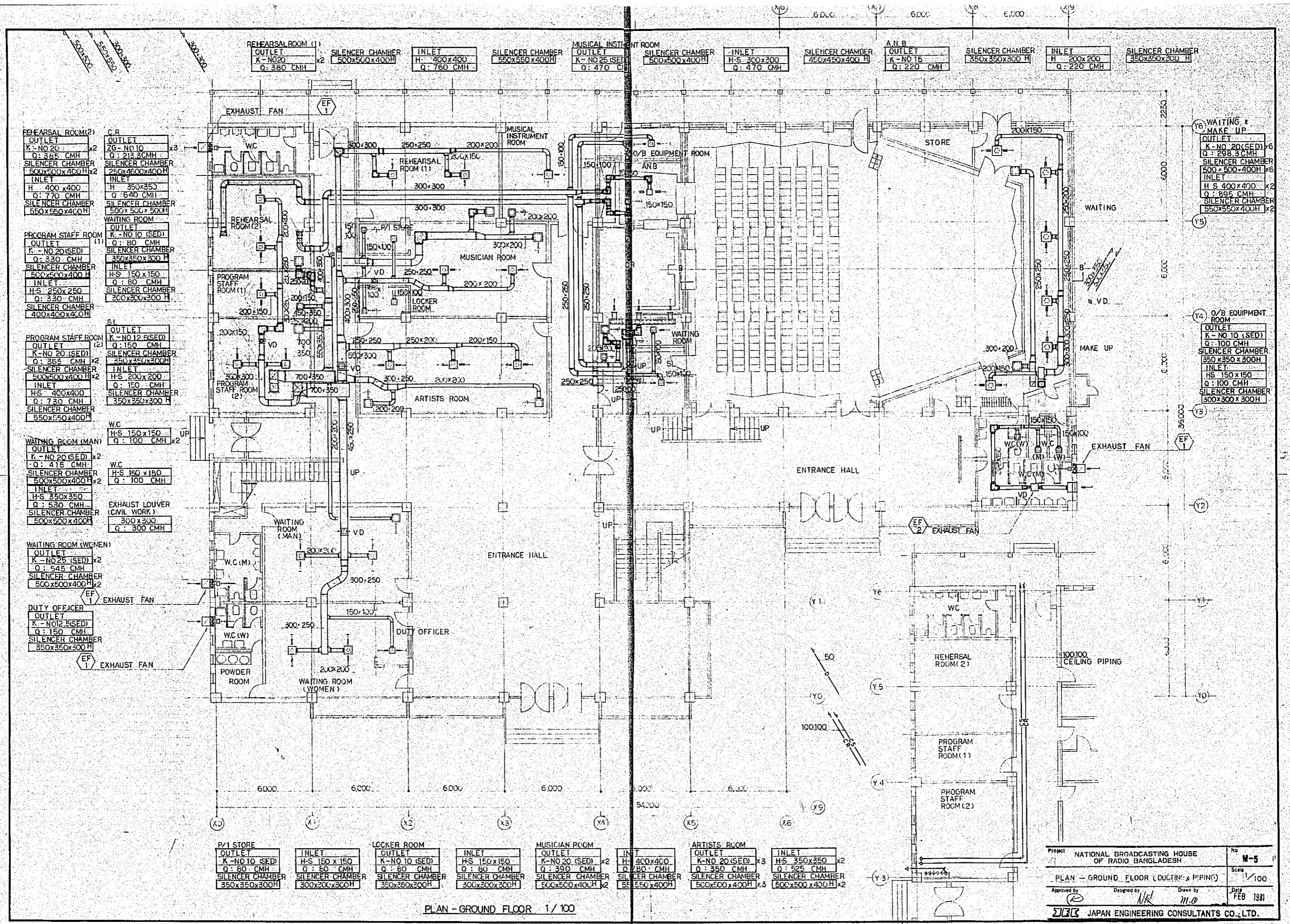
EXPLANATION OF SYMBOLS FOR PIPING

SYMBOLS	ITEMS	REMARKS
—cs—	CHILLED WATER SUPPLY PIPE	GALVANIZED PIPE
—cr—	CHILLED WATER RETURN PIPE	DO
—	WATER PIPE	DO
—d—	DRAIN PIPE	DO
—GV—	GATE VALVE	JIS 10 KG/CM ²
—CV—	CHECK VALVE	DO
—	THREE WAY MOTOR OPERATED VALVE	
—	CHECK VALVE ABSORBENT OF CONCUSSION TYPE	JIS 10 KG/CM ²
—	FLEXIBLE PIPE	
—	Y-STRAINER	
—c.s.—	COOLING WATER SUPPLY PIPE	GALVANIZED PIPE
—c.r.—	COOLING WATER RETURN PIPE	DO
—	FLEXIBLE PIPE (SILENCER TYPE)	



FLOW DIAGRAM OF PIPING

Project NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH		No. M-4
FLOW DIAGRAM OF PIPING AND SYMBOLS		Scale —
Approved by	Designed by	Drawn by M.O
		Date FEB. 1981
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.		



PLAN - GROUND FLOOR 1/100

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No	M-5
Scale	1/100	Date	FEB 1981
Approved by	Designed by	Drawn by	
JEC		JAPAN ENGINEERING CONSULTANTS CO., LTD.	

P/1 STORE
OUTLET
K-NO 10 (SED)
Q: 80 CMH
SILENCER CHAMBER
350x350x300H

INLET
H-S 150x150
Q: 80 CMH
SILENCER CHAMBER
300x200x300H

LOCKER ROOM
OUTLET
K-NO 10 (SED)
Q: 80 CMH
SILENCER CHAMBER
350x350x300H

INLET
H-S 150x150
Q: 80 CMH
SILENCER CHAMBER
300x200x300H

MUSICIAN ROOM
OUTLET
K-NO 20 (SED) x2
Q: 390 CMH
SILENCER CHAMBER
500x500x400H x2

INLET
H-S 400x400
Q: 780 CMH
SILENCER CHAMBER
550x550x400H

ARTISTS ROOM
OUTLET
K-NO 20 (SED) x3
Q: 350 CMH
SILENCER CHAMBER
500x500x400H x3

INLET
H-S 350x350 x2
Q: 525 CMH
SILENCER CHAMBER
500x500x400H x2

WAITING & MAKE UP
OUTLET
K-NO 20 (SED) x6
Q: 298.3 CMH
SILENCER CHAMBER
500x500x400H x6
INLET
H-S 400x400 x2
Q: 895 CMH
SILENCER CHAMBER
550x550x400H x2

O/B EQUIPMENT ROOM
OUTLET
K-NO 10 (SED)
Q: 100 CMH
SILENCER CHAMBER
350x350x300H
INLET
H-S 150x150
Q: 100 CMH
SILENCER CHAMBER
300x300x300H

REHEARSAL ROOM (2)
OUTLET
K-NO 20
Q: 365 CMH
SILENCER CHAMBER
500x500x400H x2
INLET
H 400x400
Q: 770 CMH
SILENCER CHAMBER
550x550x400H

PROGRAM STAFF ROOM (1)
OUTLET
K-NO 20 (SED)
Q: 330 CMH
SILENCER CHAMBER
500x500x400H
INLET
H-S 250x250
Q: 330 CMH
SILENCER CHAMBER
400x400x400H

PROGRAM STAFF ROOM (2)
OUTLET
K-NO 20 (SED)
Q: 365 CMH x2
SILENCER CHAMBER
500x500x400H x2
INLET
H-S 400x400
Q: 730 CMH
SILENCER CHAMBER
550x550x400H

WAITING ROOM (MAN)
OUTLET
K-NO 20 (SED) x2
Q: 415 CMH
SILENCER CHAMBER
500x500x400H x2
INLET
H-S 350x350
Q: 530 CMH
SILENCER CHAMBER
500x500x400H

WAITING ROOM (WOMEN)
OUTLET
K-NO 25 (SED) x2
Q: 545 CMH
SILENCER CHAMBER
500x500x400H x2
EXHAUST FAN
EF 1

DUTY OFFICER
OUTLET
K-NO 12 (SED)
Q: 150 CMH
SILENCER CHAMBER
350x350x300H
EXHAUST FAN
EF 1

REHEARSAL ROOM (1)
OUTLET
K-NO 20
Q: 380 CMH
SILENCER CHAMBER
500x500x400H x2
INLET
H 400x400
Q: 760 CMH
SILENCER CHAMBER
550x550x400H

INLET
H-S 350x350
Q: 640 CMH
SILENCER CHAMBER
500x500x500H
WAITING ROOM
OUTLET
K-NO 10 (SED)
Q: 80 CMH
SILENCER CHAMBER
350x350x300H
INLET
H-S 150x150
Q: 80 CMH
SILENCER CHAMBER
300x300x300H

PROGRAM STAFF ROOM (1)
OUTLET
K-NO 20 (SED)
Q: 330 CMH
SILENCER CHAMBER
500x500x400H
INLET
H-S 250x250
Q: 330 CMH
SILENCER CHAMBER
400x400x400H

PROGRAM STAFF ROOM (2)
OUTLET
K-NO 20 (SED)
Q: 150 CMH
SILENCER CHAMBER
350x350x300H
INLET
H-S 200x200
Q: 150 CMH
SILENCER CHAMBER
350x350x300H

W.C.
H-S 150x150
Q: 100 CMH x2
W.C.
H-S 150x150
Q: 100 CMH
EXHAUST LOUVER (CIVIL WORK)
300x300
Q: 300 CMH

W.C. (M)
W.C. (W)
POWDER ROOM
WAITING ROOM (WOMEN)
DUTY OFFICER

MUSICAL INSTRUMENT ROOM
OUTLET
K-NO 25 (SET)
Q: 470 CMH
SILENCER CHAMBER
500x500x400H
INLET
H-S 300x300
Q: 470 CMH
SILENCER CHAMBER
450x450x400H

A.N.B.
OUTLET
K-NO 15
Q: 220 CMH
SILENCER CHAMBER
350x350x300H
INLET
H 200x200
Q: 220 CMH
SILENCER CHAMBER
350x350x200H

WAITING & MAKE UP
OUTLET
K-NO 20 (SED) x6
Q: 298.3 CMH
SILENCER CHAMBER
500x500x400H x6
INLET
H-S 400x400 x2
Q: 895 CMH
SILENCER CHAMBER
550x550x400H x2

O/B EQUIPMENT ROOM
OUTLET
K-NO 10 (SED)
Q: 100 CMH
SILENCER CHAMBER
350x350x300H
INLET
H-S 150x150
Q: 100 CMH
SILENCER CHAMBER
300x300x300H

REHEARSAL ROOM (2)
OUTLET
K-NO 20 (SED) x2
Q: 365 CMH
SILENCER CHAMBER
500x500x400H x2
INLET
H-S 400x400
Q: 730 CMH
SILENCER CHAMBER
550x550x400H

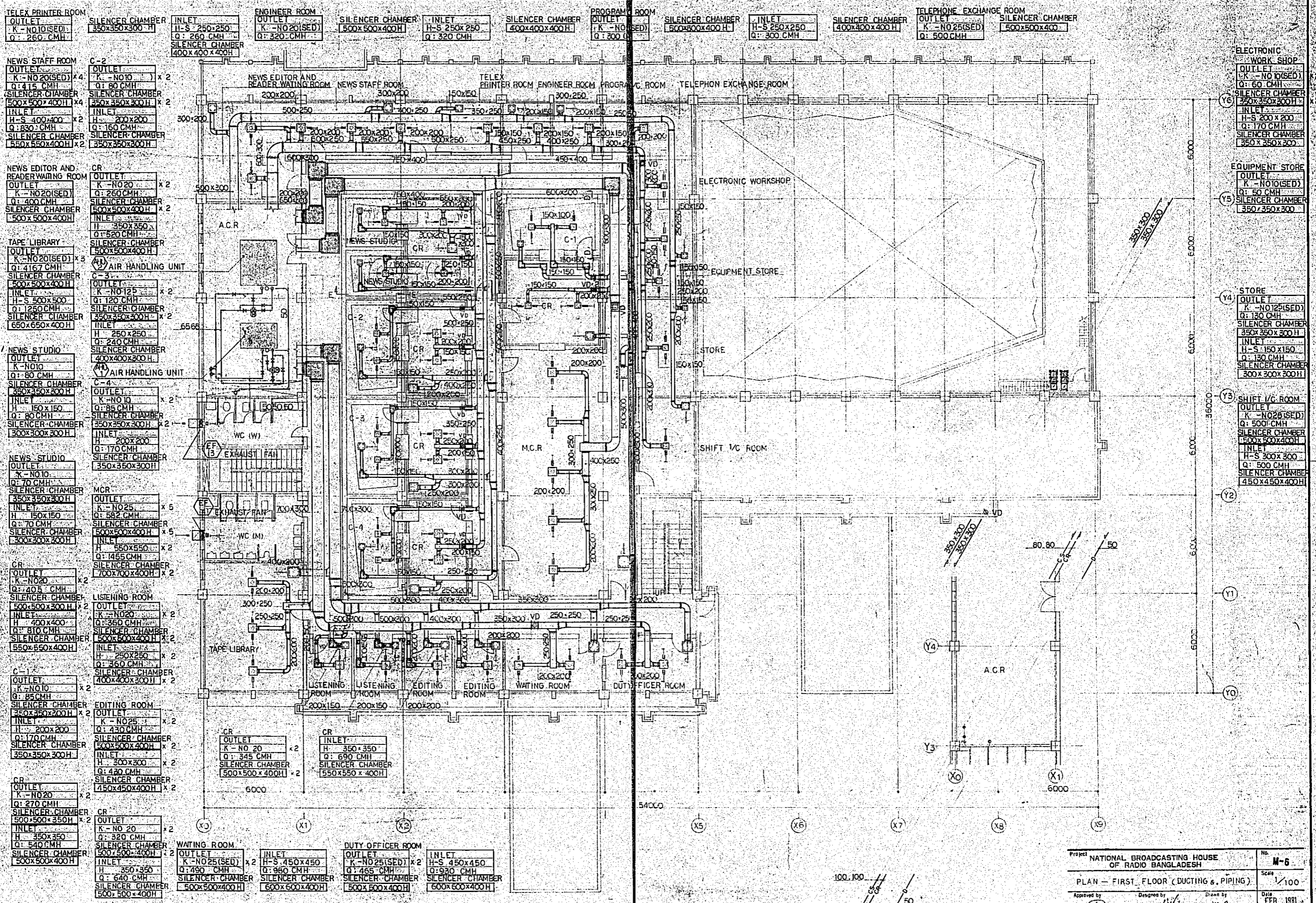
PROGRAM STAFF ROOM (1)
OUTLET
K-NO 20 (SED)
Q: 330 CMH
SILENCER CHAMBER
500x500x400H
INLET
H-S 250x250
Q: 330 CMH
SILENCER CHAMBER
400x400x400H

PROGRAM STAFF ROOM (2)
OUTLET
K-NO 20 (SED)
Q: 365 CMH x2
SILENCER CHAMBER
500x500x400H x2
INLET
H-S 400x400
Q: 730 CMH
SILENCER CHAMBER
550x550x400H

WAITING ROOM (MAN)
OUTLET
K-NO 20 (SED) x2
Q: 415 CMH
SILENCER CHAMBER
500x500x400H x2
INLET
H-S 350x350
Q: 530 CMH
SILENCER CHAMBER
500x500x400H

WAITING ROOM (WOMEN)
OUTLET
K-NO 25 (SED) x2
Q: 545 CMH
SILENCER CHAMBER
500x500x400H x2
EXHAUST FAN
EF 1

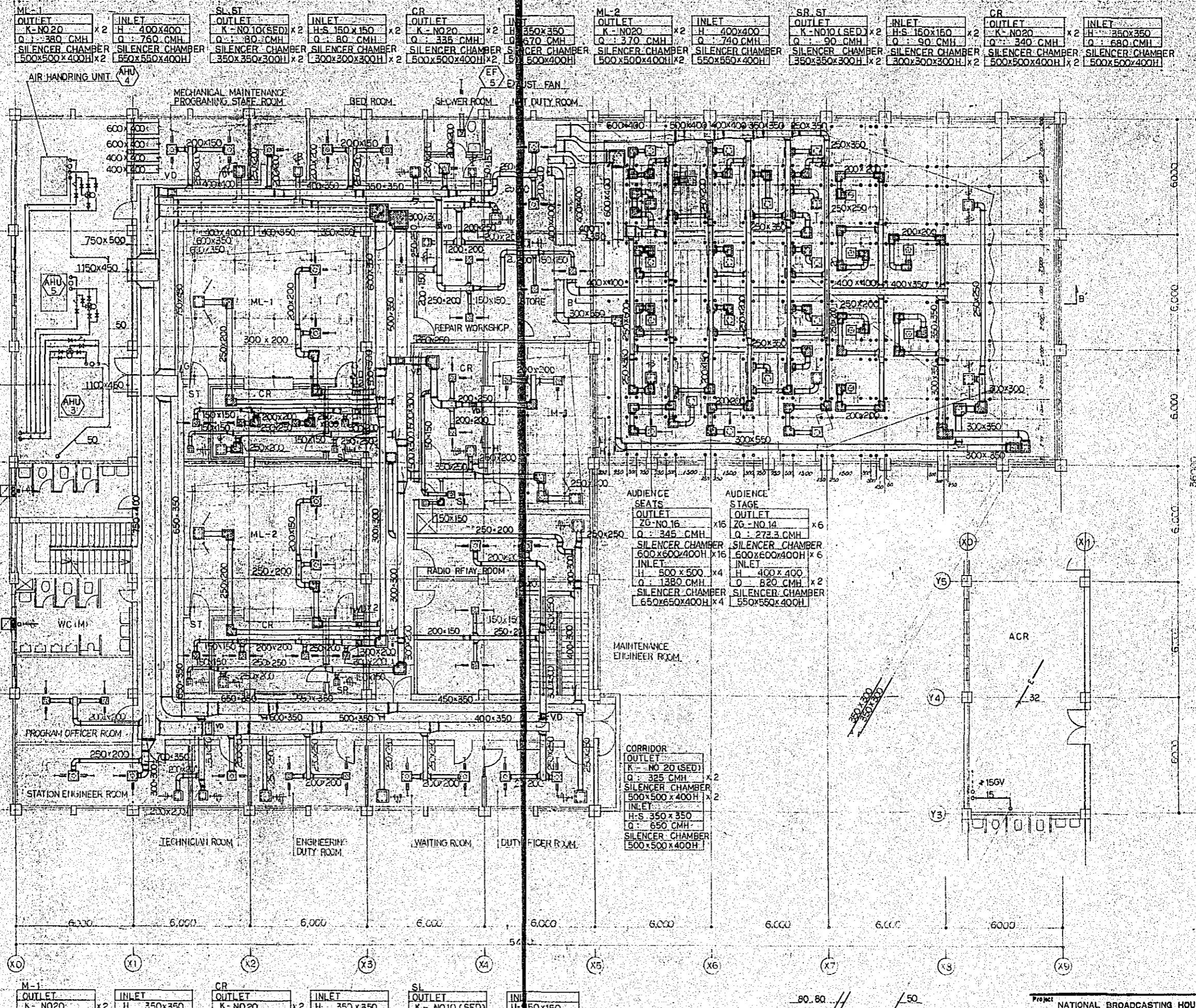
DUTY OFFICER
OUTLET
K-NO 12 (SED)
Q: 150 CMH
SILENCER CHAMBER
350x350x300H
EXHAUST FAN
EF 1



PLAN - FIRST FLOOR 1/100

Project NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH		No. M-6
PLAN - FIRST FLOOR (DUCTING & PIPING)		Scale 1/100
Approved by	Designed by	Drawn by
		Date FEB 1991

MAINTENANCE PROGRAM OFFICER AND PROGRAMMING STAFF ROOM OUTLET K-NO20(SED) x 2 Q : 380 CMH SILENCER CHAMBER 500x500x400H x 2 INLET H-S 400x400 Q : 750 CMH SILENCER CHAMBER 550x550x400H INLET H-S 300x300 Q : 380 CMH SILENCER CHAMBER 450x450x350H	STATION ENGINEER ROOM OUTLET K-NO25(SED) x 2 Q : 665 CMH SILENCER CHAMBER 500x500x400H x 2 INLET H-S 350x350 Q : 990 CMH SILENCER CHAMBER 500x500x400H	TECHNICIAN ROOM OUTLET K-NO25(SED) x 2 Q : 470 CMH SILENCER CHAMBER 500x500x400H INLET H-S 300x300 Q : 470 CMH SILENCER CHAMBER 450x450x300H	ENGINEERING DUTY ROOM OUTLET K-NO25(SED) x 2 Q : 420 CMH SILENCER CHAMBER 500x500x400H x 2 INLET H-S 400x400 Q : 840 CMH SILENCER CHAMBER 550x550x400H	WAITING ROOM OUTLET K-NO25(SED) x 2 Q : 485 CMH SILENCER CHAMBER 500x500x400H x 2 INLET H-S 450x450 Q : 970 CMH SILENCER CHAMBER 600x600x400H	REPAIR WORKSHOP OUTLET K-NO15(SED) x 2 Q : 175 CMH SILENCER CHAMBER 350x350x300H x 2 INLET H-S 250x250 Q : 350 CMH SILENCER CHAMBER 400x400x300H	STORE OUTLET K-NO125(SED) x 2 Q : 140 CMH SILENCER CHAMBER 350x350x300H INLET H-S 250x250 Q : 320 CMH SILENCER CHAMBER 400x400x300H	EQUIP STORE OUTLET K-NO15(SED) x 2 Q : 180 CMH SILENCER CHAMBER 350x350x300H	RED ROOM OUTLET K-NO20(SED) x 2 Q : 320 CMH SILENCER CHAMBER 500x500x400H x 2 INLET H-S 350x350 Q : 640 CMH SILENCER CHAMBER 500x500x400H	MAINTENANCE ENGINEER ROOM OUTLET K-NO15(SED) x 2 Q : 215 CMH SILENCER CHAMBER 350x350x300H x 2 INLET H-S 300x300 Q : 430 CMH SILENCER CHAMBER 450x450x300H
--	---	---	---	--	---	--	---	--	---

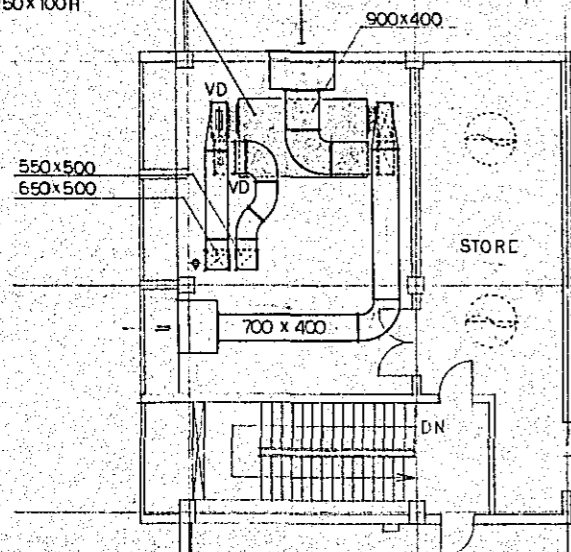


M-1 OUTLET K-NO20 Q : 315 CMH SILENCER CHAMBER 500x500x400H x 2 INLET H 350x350 Q : 630 CMH SILENCER CHAMBER 500x500x400H	CR OUTLET K-NO20 Q : 325 CMH SILENCER CHAMBER 500x500x400H x 2 INLET H 350x350 Q : 650 CMH SILENCER CHAMBER 500x500x400H	SL OUTLET K-NO10(SED) Q : 90 CMH SILENCER CHAMBER 350x350x300H INLET H 150x150 Q : 90 CMH SILENCER CHAMBER 300x300x300H
--	---	--

PLAN - SECOND FLOOR 1/100

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	M-7
Scale	1/100	Date	FEB 1981
Approved by	Designed by	Drawn by	
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			

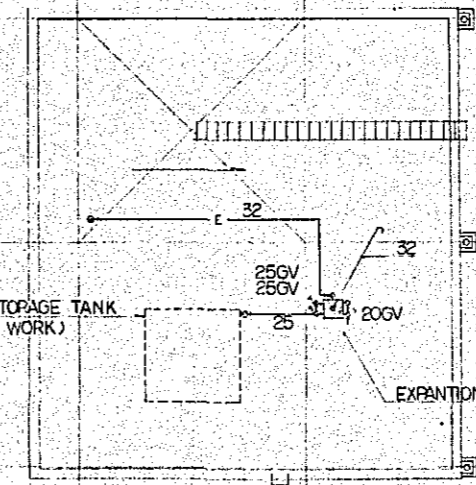
EX 1
TOTAL HEAT EXCHANGER
CONCRETE BASE
3600 x 2250 x 100H



SUPPLY LOUVER
(CIVIL WORK)
1700 x 700
Q: 8470 CMH

EXHAUST LOUVER
(CIVIL WORK)
1000 x 700
Q: 4850 CMH

ELEVATED STORAGE TANK
(PLUMBING WORK)

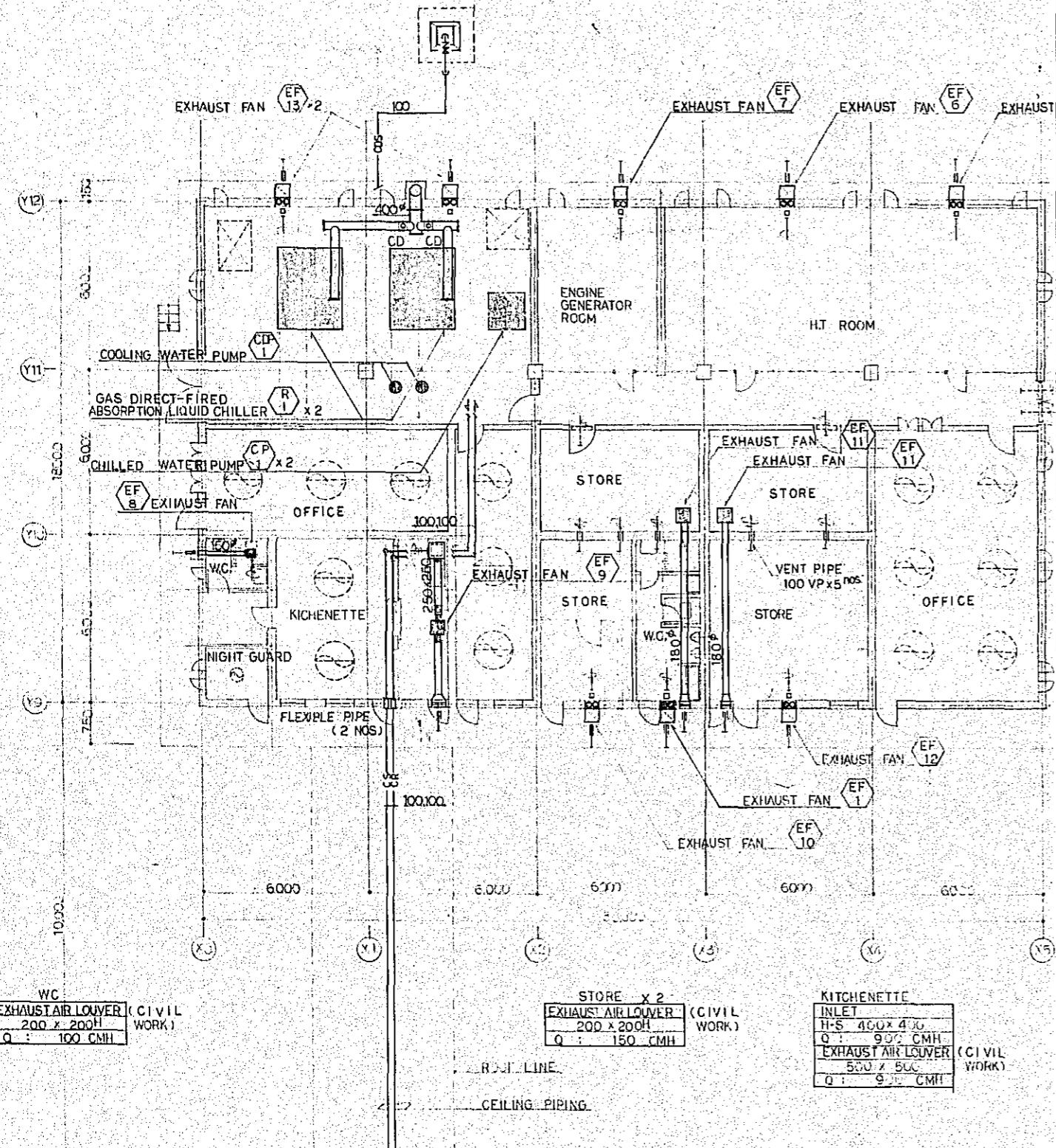


EX 1
CONCRETE BASE
700 x 700 x 300H

PLAN - ROOF FLOOR 1/100

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	M-8
Scale	1/100		
Approved by	Designed by	Drawn by	Date
			FEB 1981
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			

DEEP WELL PUMP (P1)

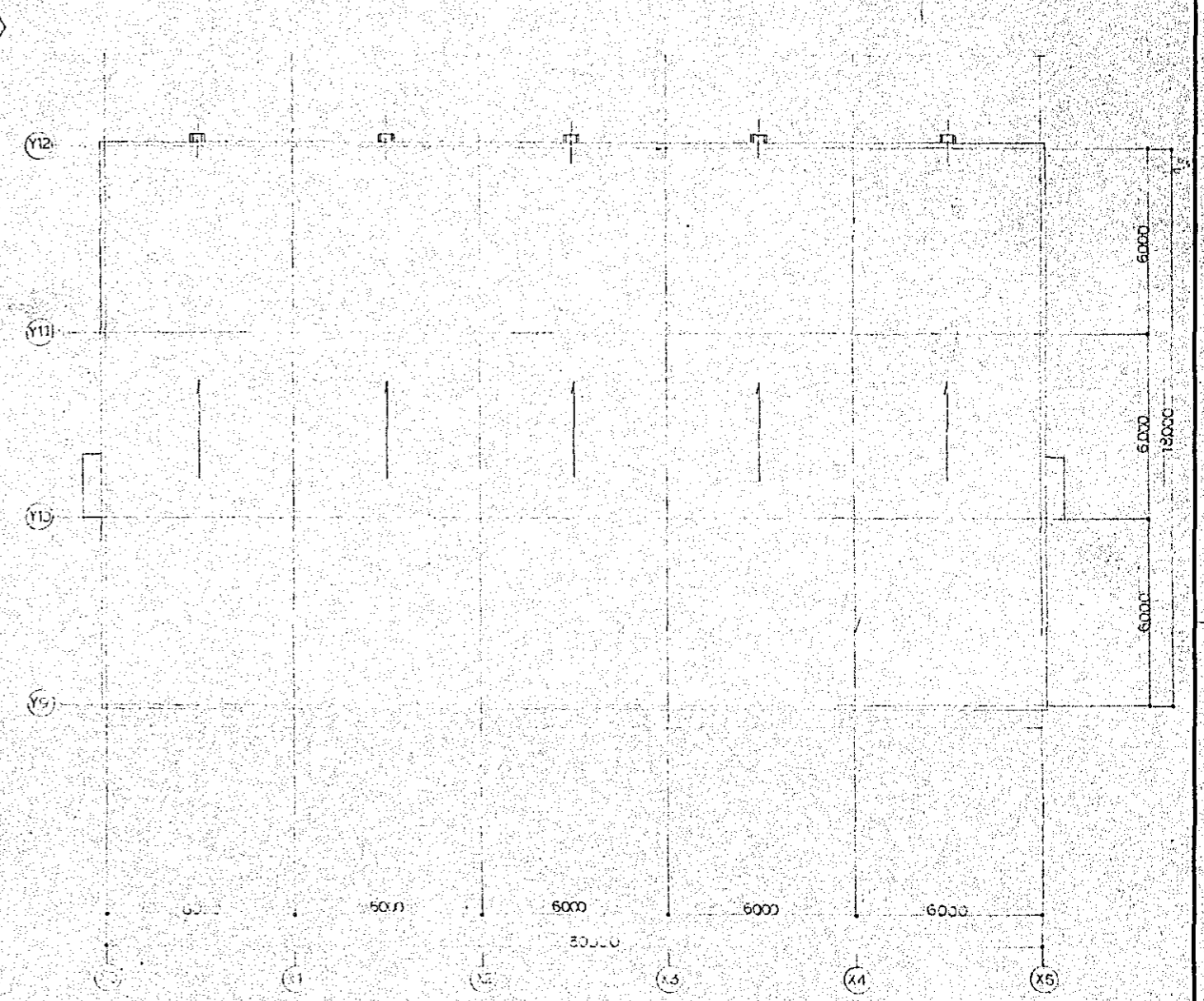


WC	EXHAUST AIR LOUVER	(CIVIL WORK)
200 x 200H		
Q : 100 CMH		

STORE x 2	EXHAUST AIR LOUVER	(CIVIL WORK)
200 x 200H		
Q : 150 CMH		

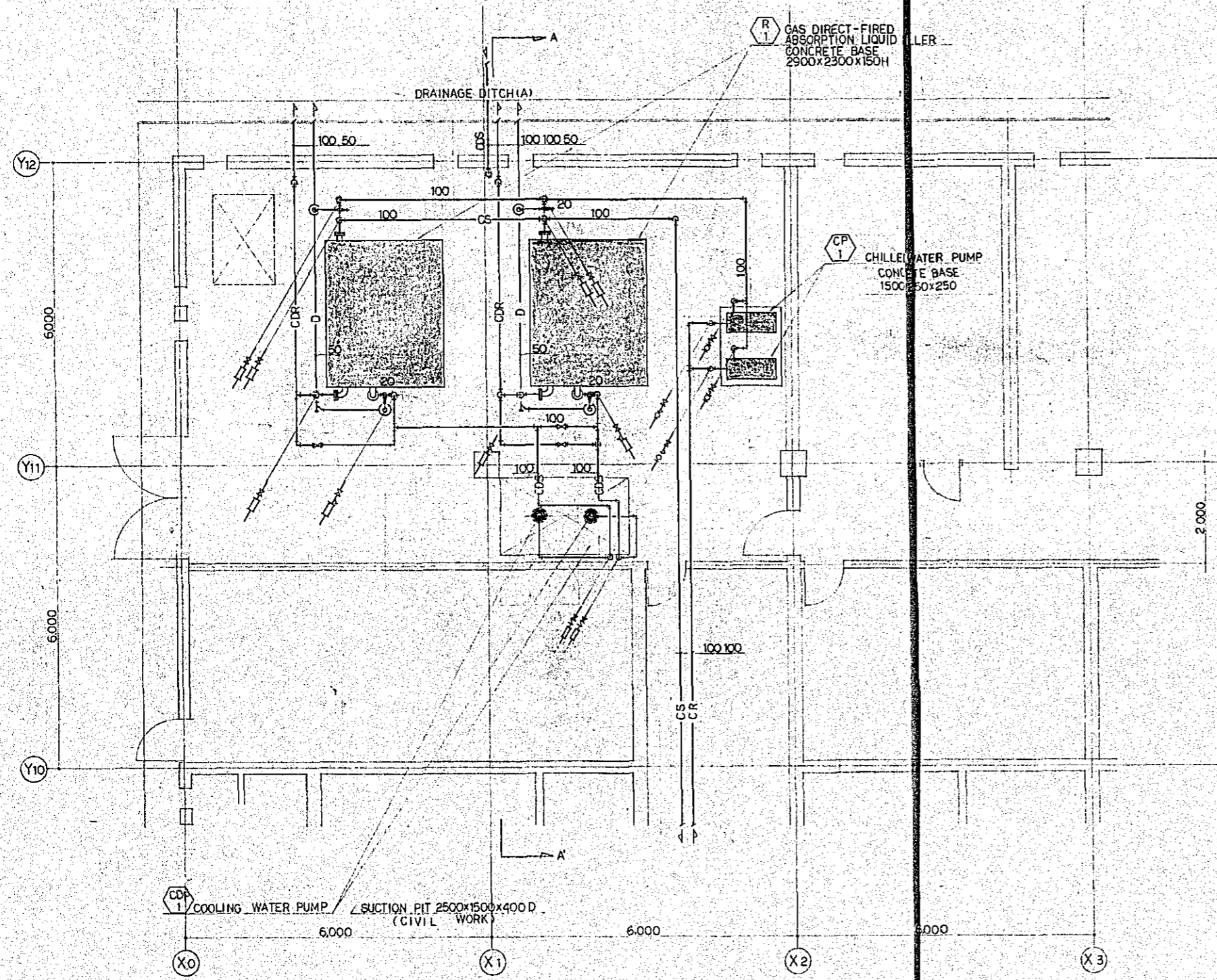
KITCHENETTE	INLET	
H-S 400 x 400		
Q : 900 CMH		
EXHAUST AIR LOUVER	(CIVIL WORK)	
500 x 500		
Q : 900 CMH		

PLAN - GROUND FLOOR 1/100

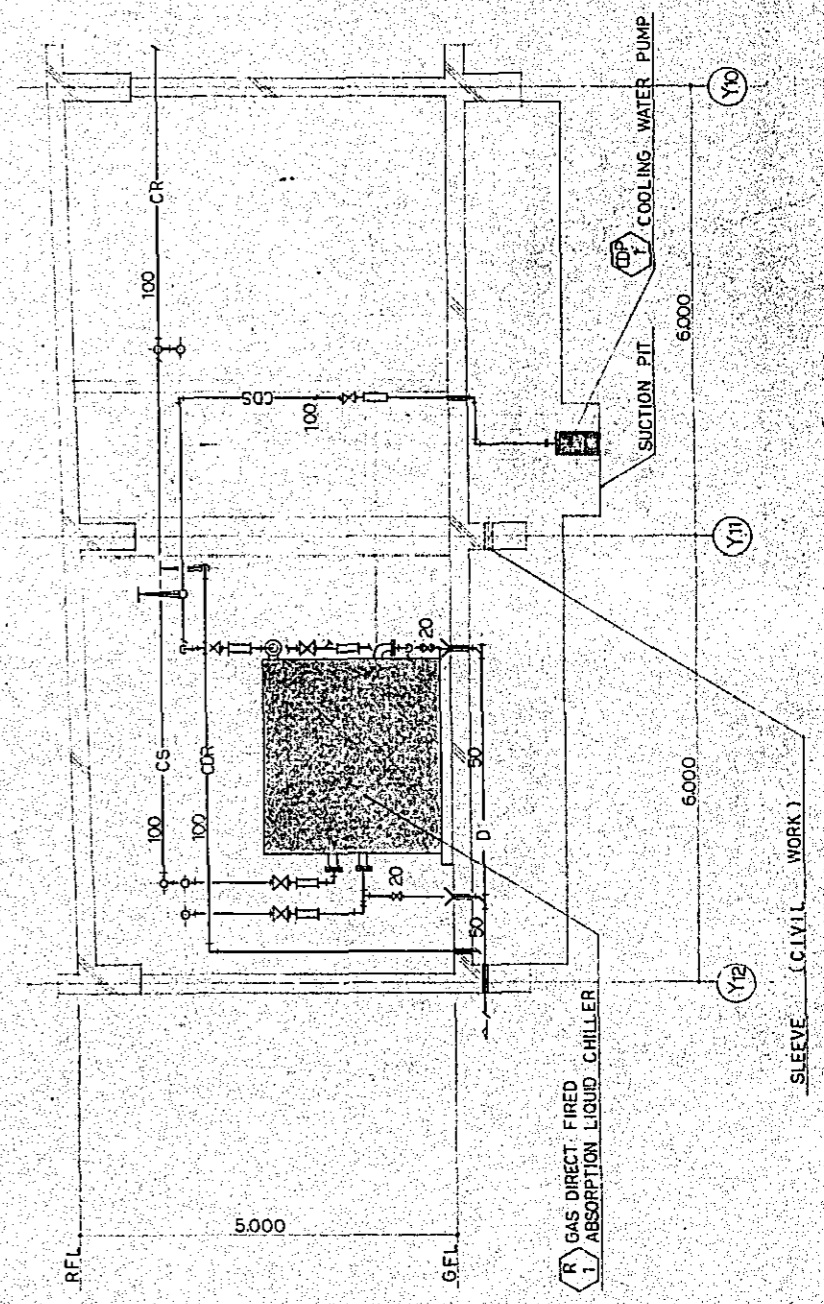


PLAN - ROOF FLOOR 1/100

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	M-9
PLAN - ANNEX (DUCTING & PIPING)		Scale	1/100
Approved by	Designed by	Drawn by	Date
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	FEB 1981
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			

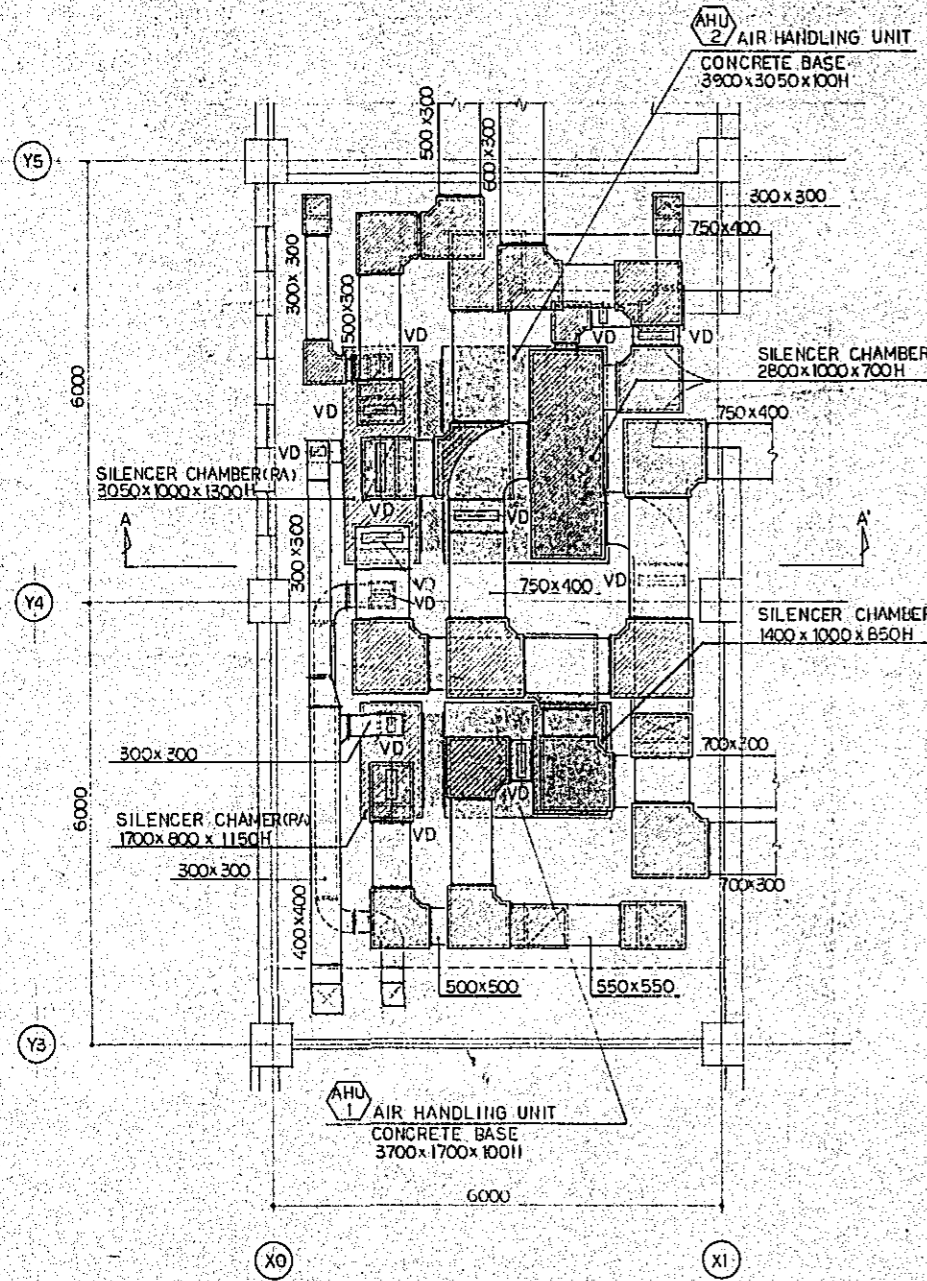


DETAIL OF MACHINE ROOM FOR PIPING WORK 1/50

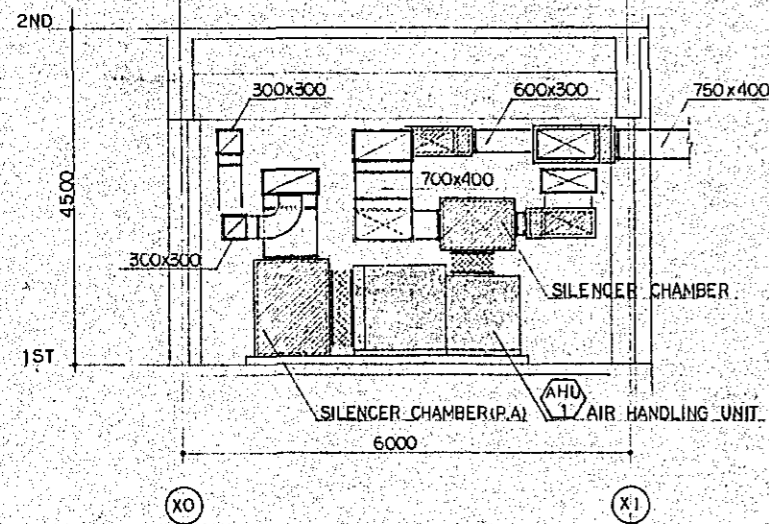


A-A' SECTION DETAIL 1/50

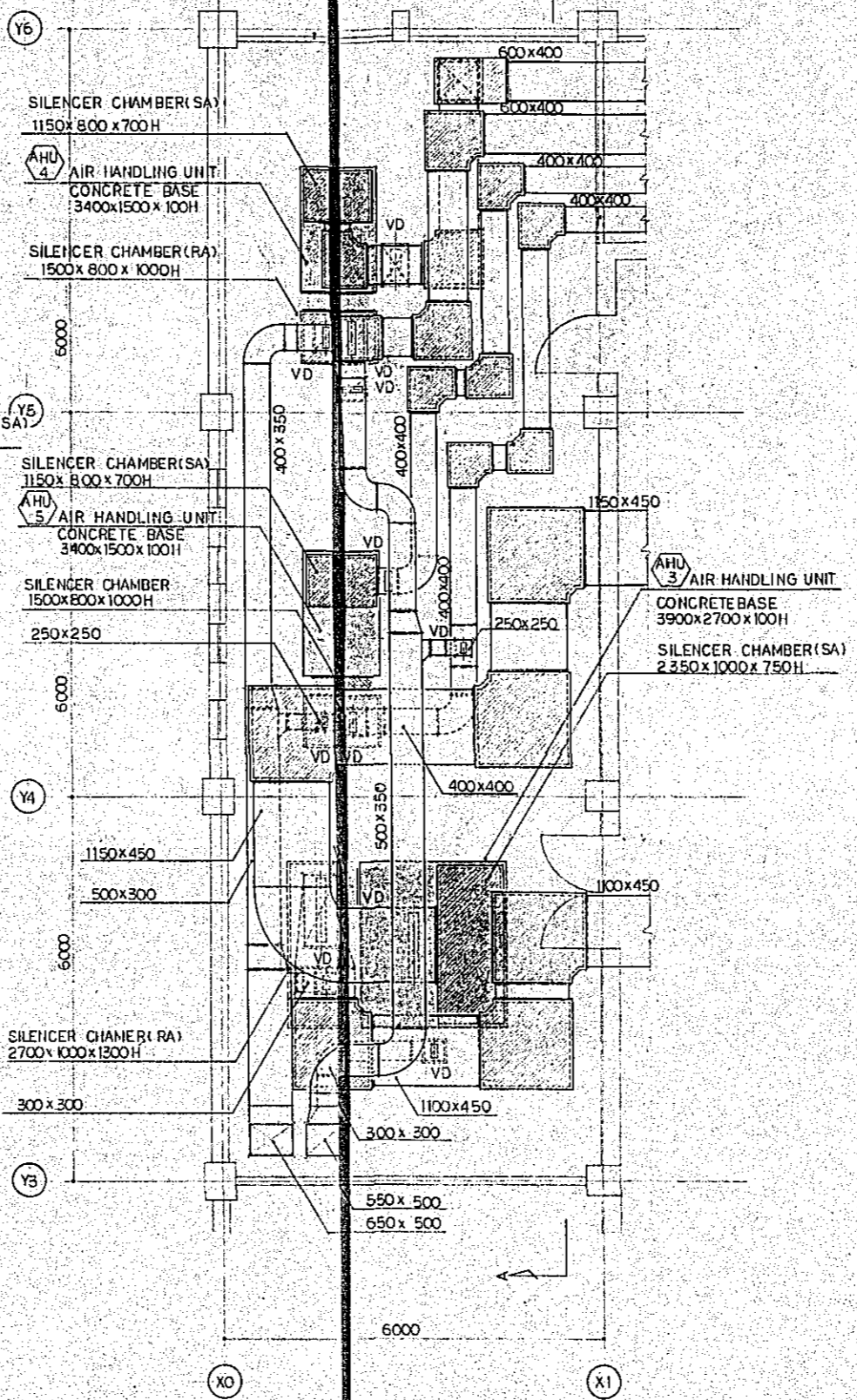
Project NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH		No. M-10
DETAILS OF MACHINE ROOM (PIPING)		Scale 1/50
Approved by <i>[Signature]</i>	Designed by <i>[Signature]</i>	Drawn by <i>[Signature]</i>
Date FEB 1981		
JECR JAPAN ENGINEERING CONSULTANTS CO., LTD.		



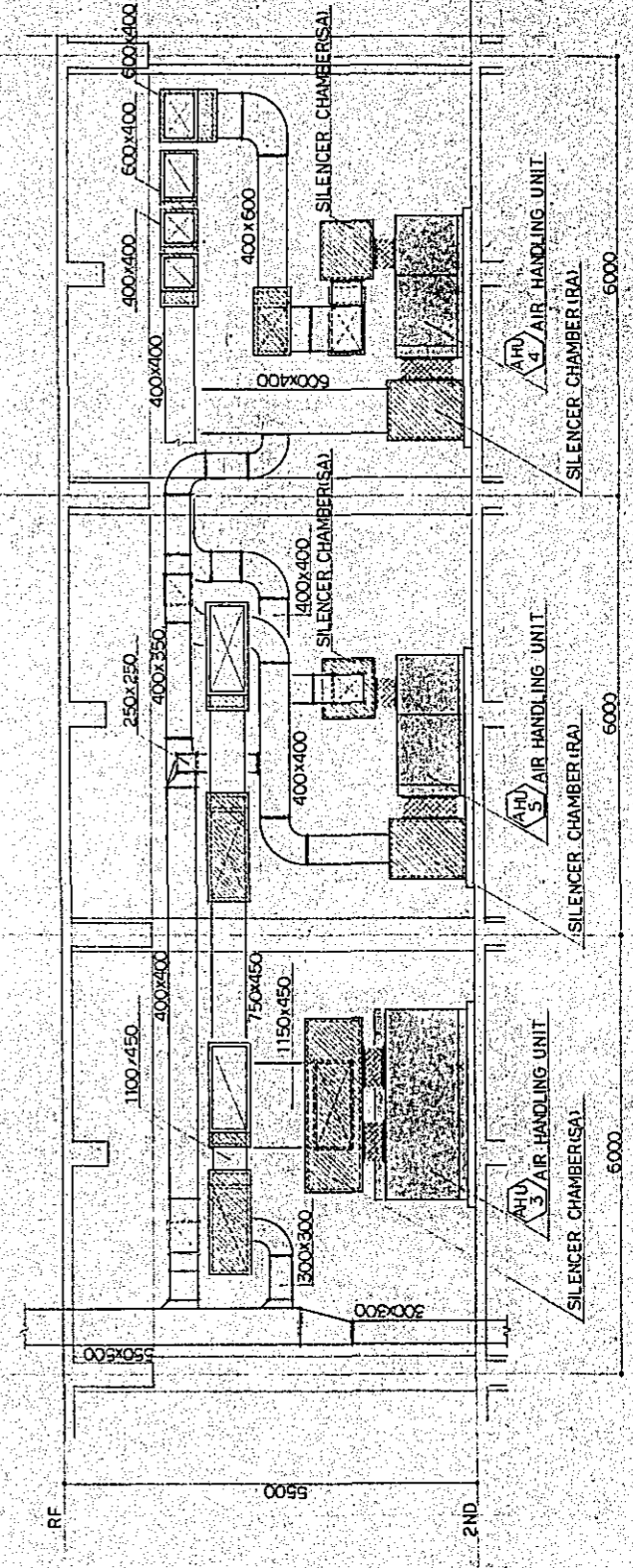
DETAIL OF AIR CONDITIONER ROOM (1ST) FOR DUCT WORK 1/50



A-A' SECTION DETAIL 1/50



DETAIL OF AIR CONDITIONER ROOM (2ND) FOR DUCT WORK 1/50

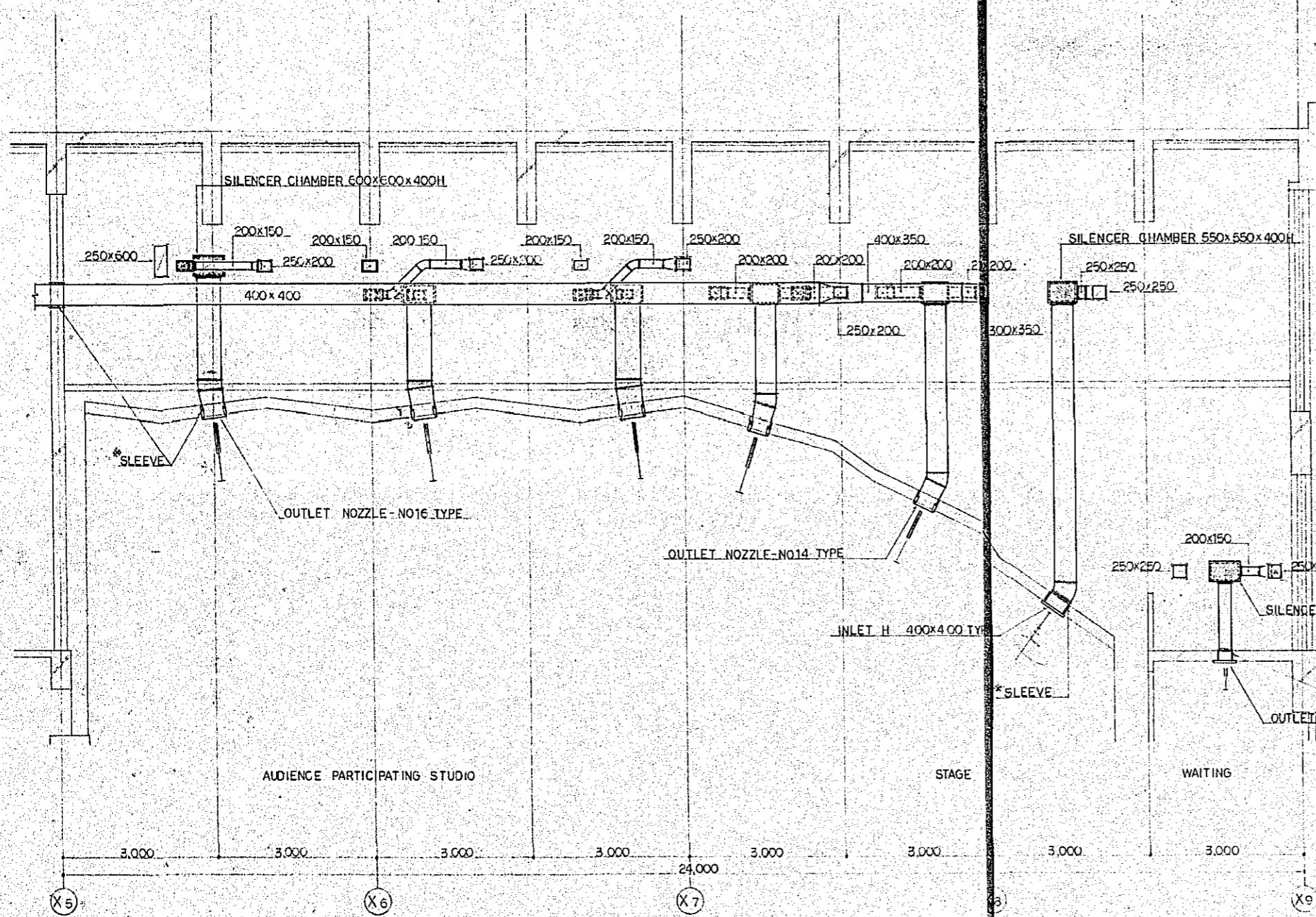


A-A' SECTION DETAIL 1/50

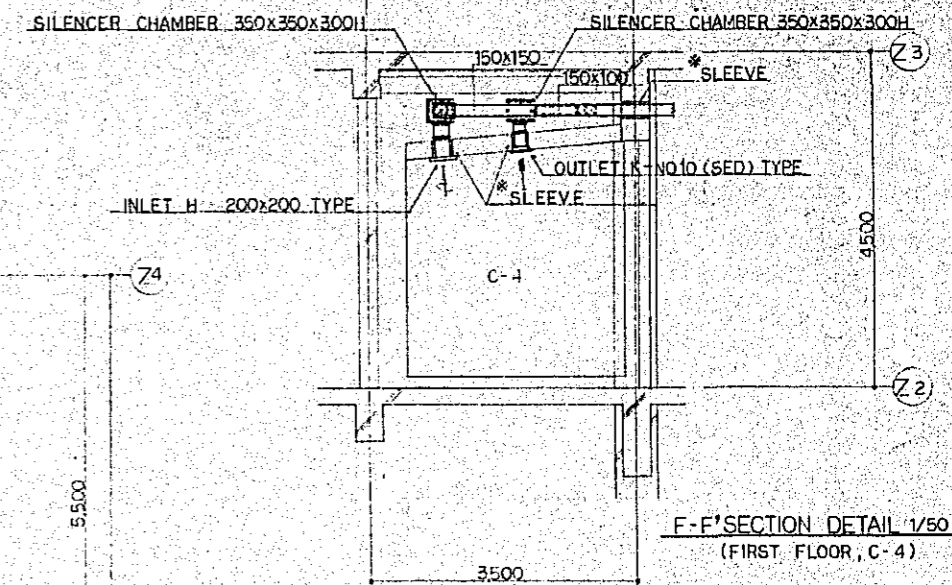
NOTE V.D IS NOT SHOWN IN SECTION DETAILS

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	M-11
Scale	1/50	Drawn by	M.O.
Date	FEB 1981	Designed by	M.O.
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			

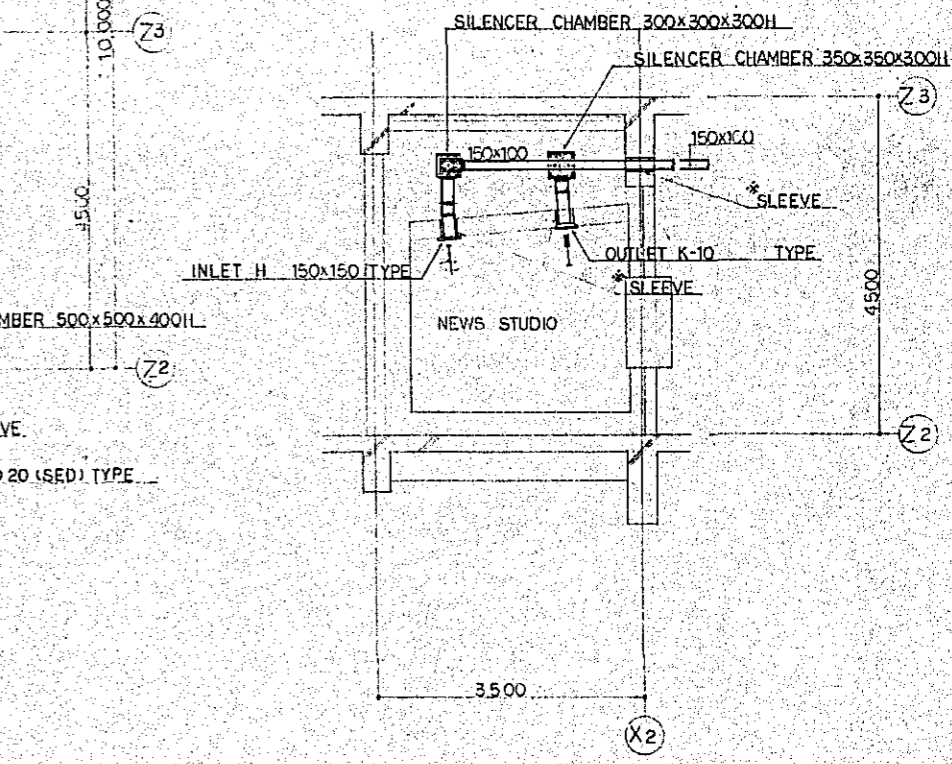
* SLEEVE : SOUND PROOF TYPE



B-B' SECTION DETAIL 1/50
 (GROUND FLOOR, SECOND FLOOR, AUDIENCE PARTICIPATING, STAGE)
 (GROUND FLOOR, WAITING)

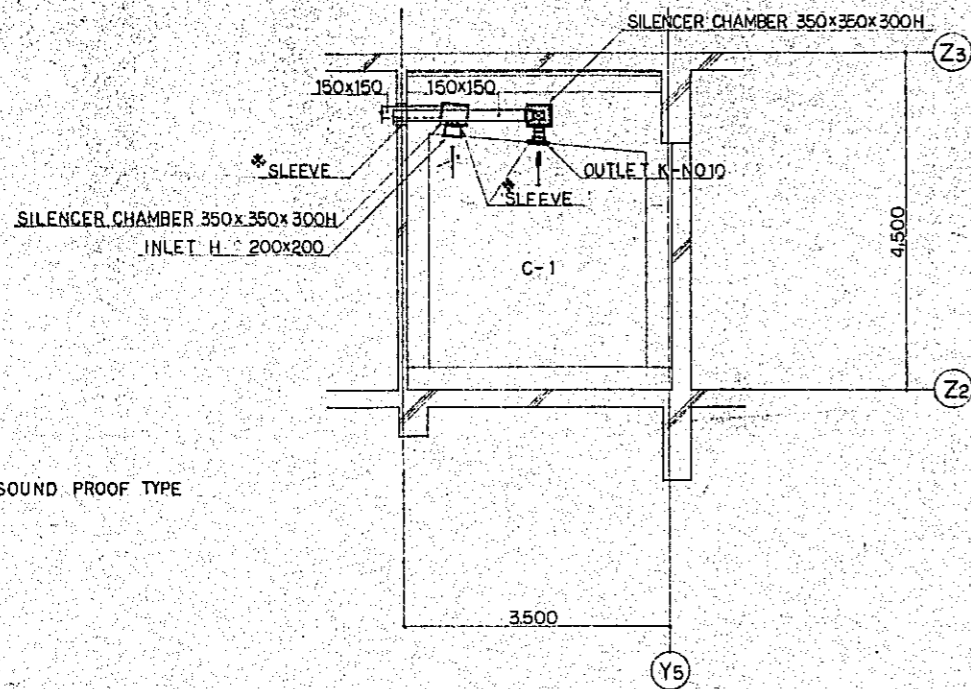


F-F' SECTION DETAIL 1/50
 (FIRST FLOOR, C-4)

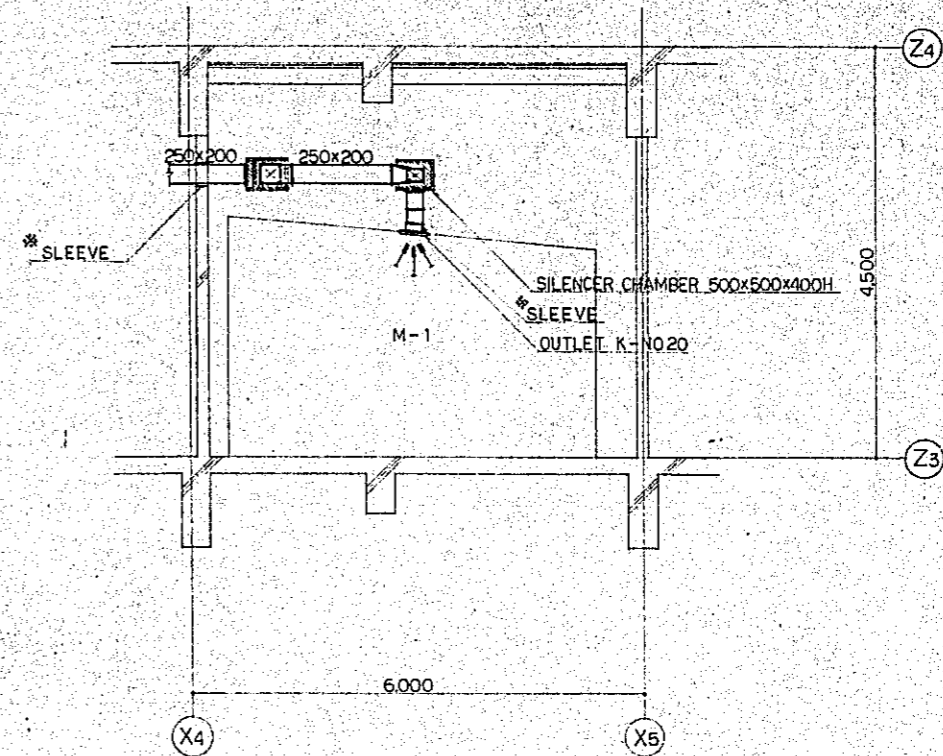


E-E' SECTION DETAIL 1/50
 (FIRST FLOOR, NEWS STUDIO)

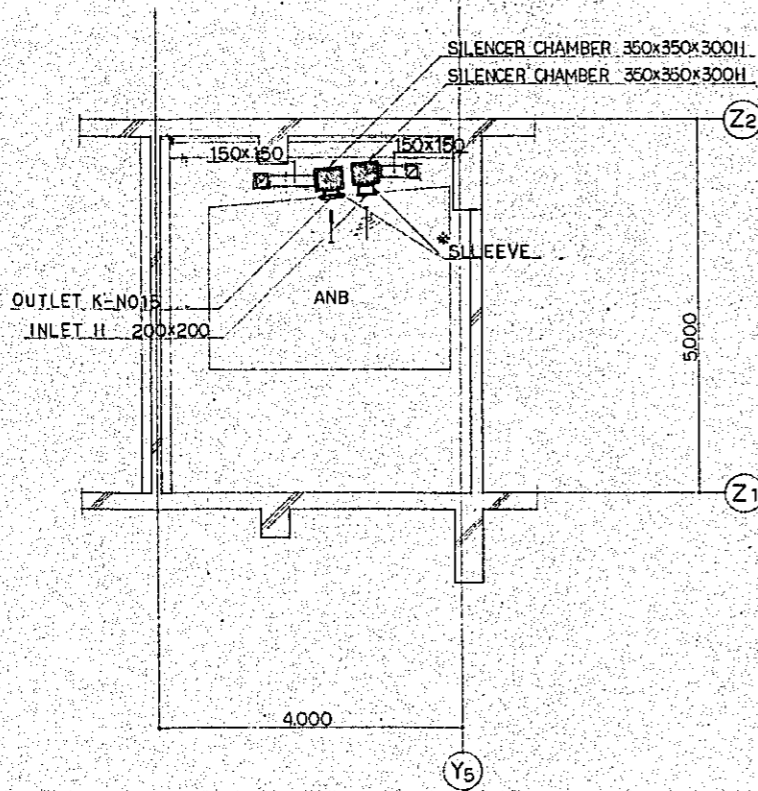
Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	M-12
Scale	1/50		
Approved by	Designed by	Drawn by	Date
		M.O	FEB 1981
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			



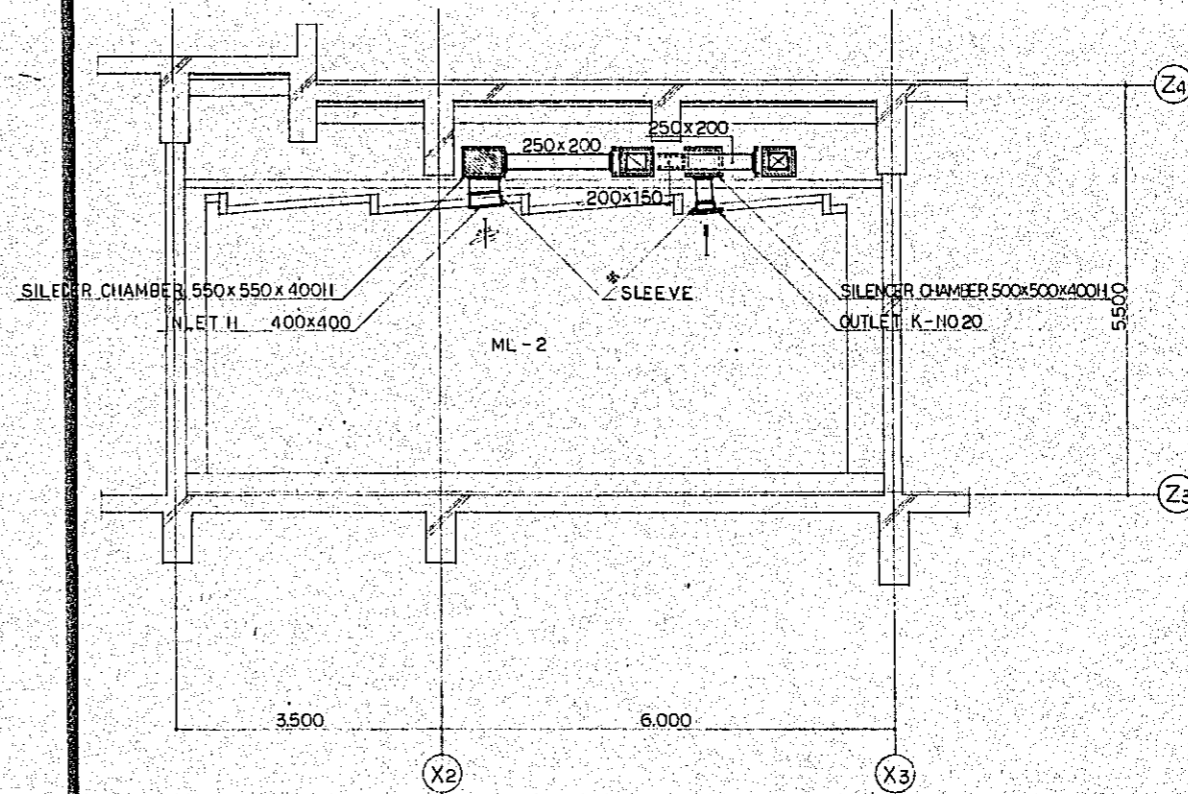
D-D' SECTION DETAIL 1/50
(FIRST FLOOR, C-1)



H-H' SECTION DETAIL 1/50
(SECOND FLOOR, M-1)



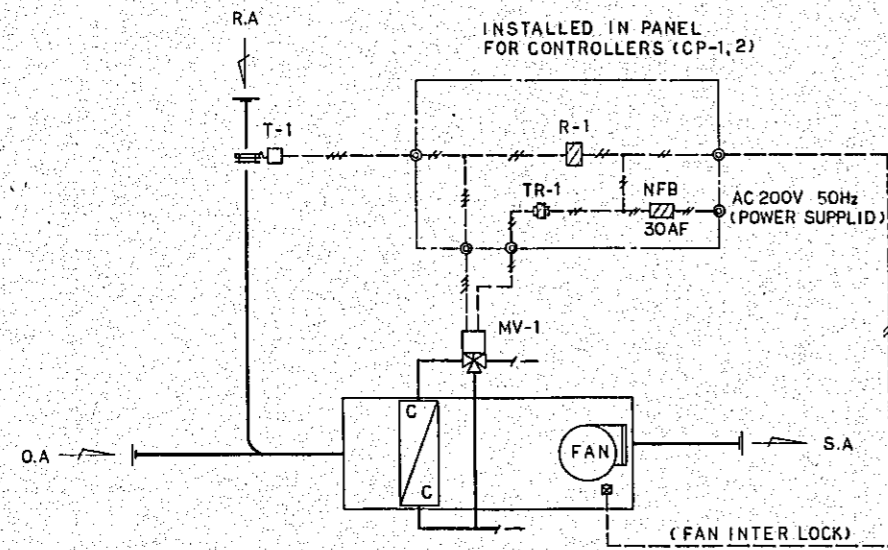
C-C' SECTION DETAIL 1/50
(GROUND FLOOR, ANB)



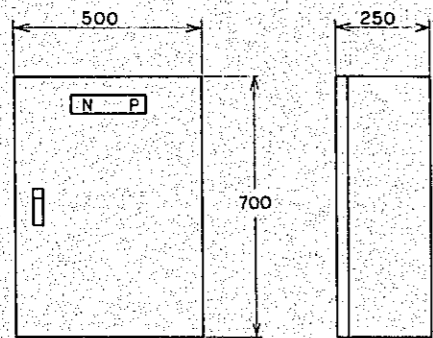
G-G' SECTION DETAIL 1/50
(SECOND FLOOR, ML-2)

* SLEEVE: SOUND PROOF TYPE

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	M-13
DETAILS OF STUDIO FOR DUCTING (SECTION)		Scale	1/50
Approved by	Designed by	Drawn by	Date
			FEB 1981



AIR HANDLING UNIT	AHU 1	1 SET
AIR HANDLING UNIT	AHU 2	1 SET
AIR HANDLING UNIT	AHU 3	1 SET
AIR HANDLING UNIT	AHU 4	1 SET
AIR HANDLING UNIT	AHU 5	1 SET
TOTAL		5 SETS



DIMENSIONS OF PANEL FOR CONTROLLERS (CP-1, CP-2)

DIAGRAM OF AUTOMATIC CONTROL SYSTEM

AUTOMATIC CONTROL DIAGRAM & TABLE

MARK	NAME	MODEL TYPE	Q'TY	NOTE
T-1	INSERTION-TYPE TEMPERATURE CONTROLLER	T 915C	5	W/ELEMENT HOLDER
R-1	AUXILIARY RELAY	R482C	5	
TR-1	POWER TRANS FORMER	AT72J I	5	200V/24V, 23VA
MV-1	"MODUTROL" MOTORS	M904E	5	
	VALVE LINKAGES	Q455C	5	
	MIXING 3-WAY VALVE	V5065A	5	

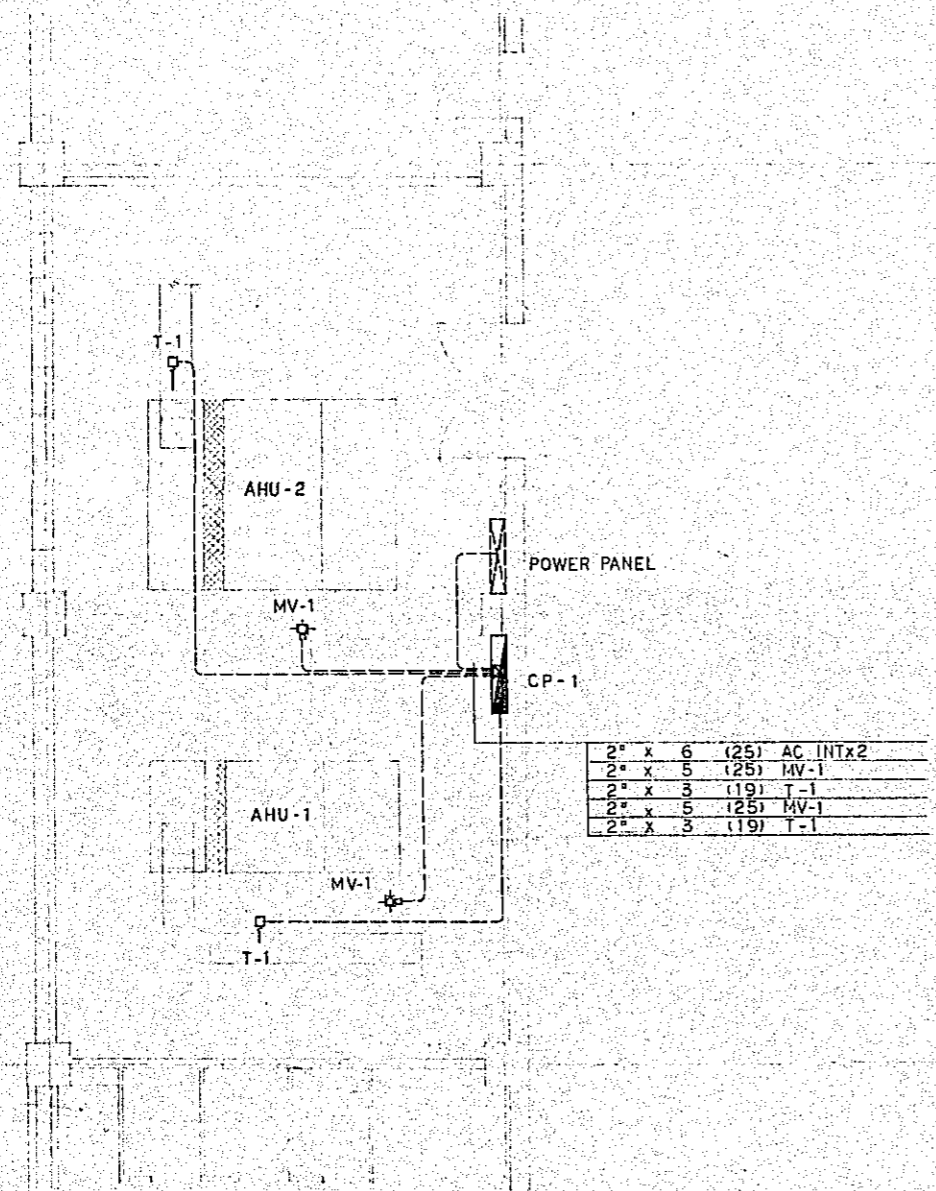
TABLE OF VALVE SIZE

SYSTEM	FLOW RATE (LITER MIN)	CAPACITY INDEX (CV)	VALVE SIZE	NOTE
AHU 1	150	19.2	1 1/2 x 1 1/4 B	
AHU 2	260	33.28	2 x 2 B	
AHU 3	240	30.72	2 x 2 B	
AHU 4	170	21.76	1 1/2 x 1 1/2 B	
AHU 5	90	11.52	1 x 1 B	

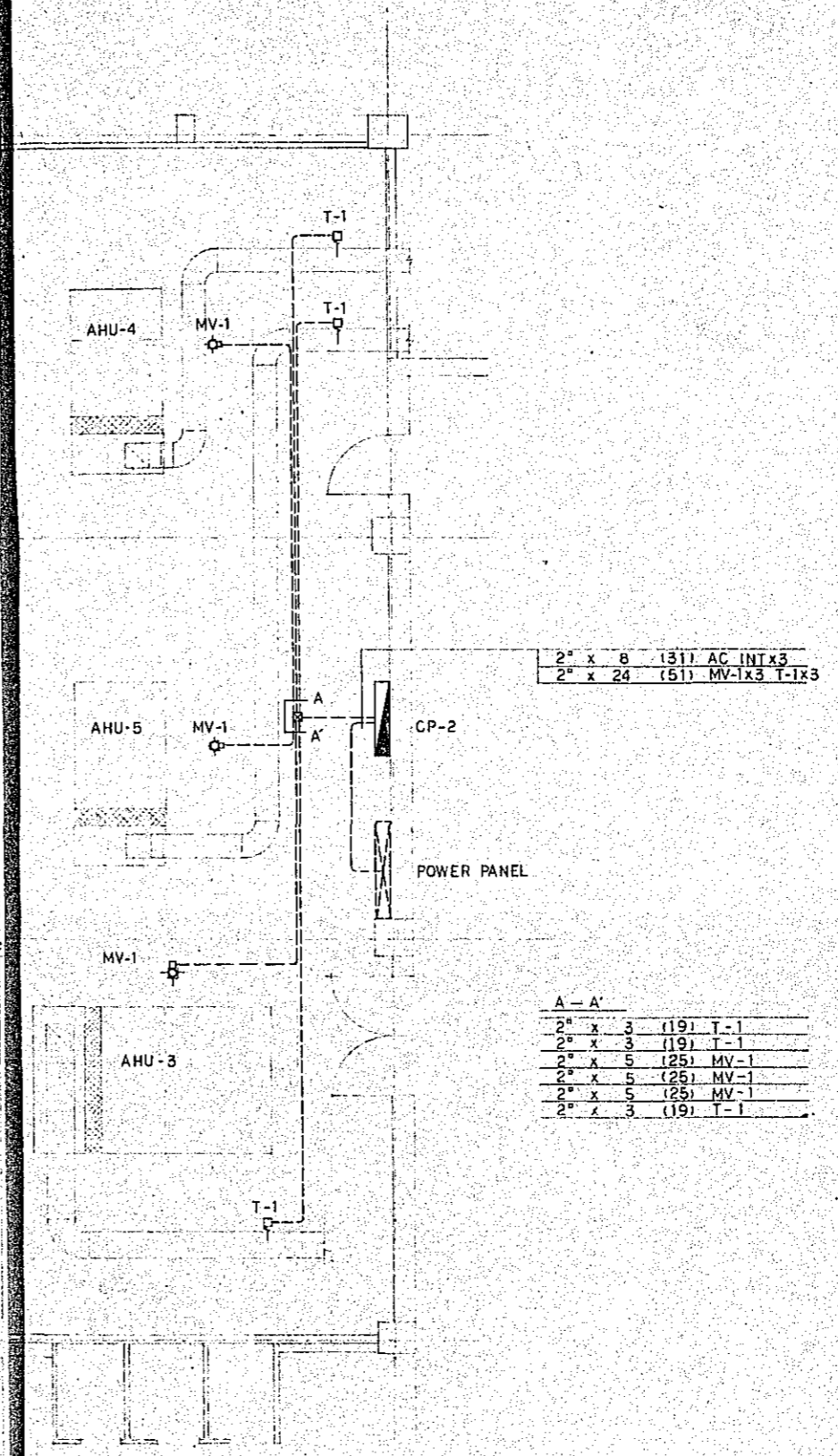
LEGEND

- 1V2mm²
- LOCATED IN PANELS

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	M-14
DIAGRAM OF AUTOMATIC CONTROL SYSTEM		Scale	
Approved by	Designed by	Drawn by	Date
		M.B.	FEB 1981
JAPAN ENGINEERING CONSULTANTS CO., LTD.			

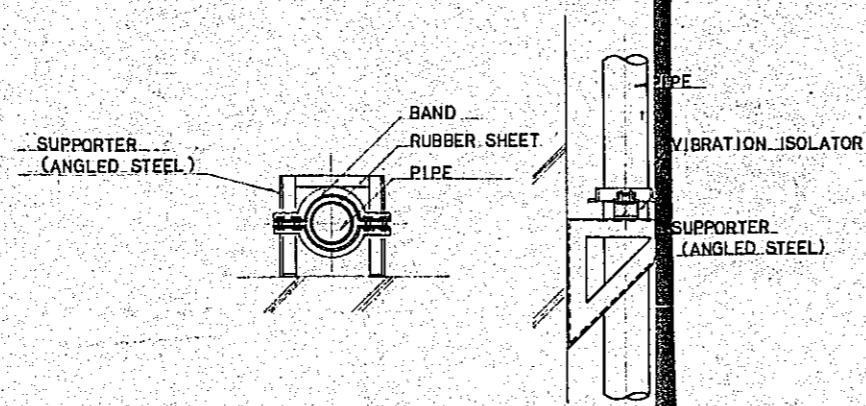


PLAN FIRST FLOOR 1/50

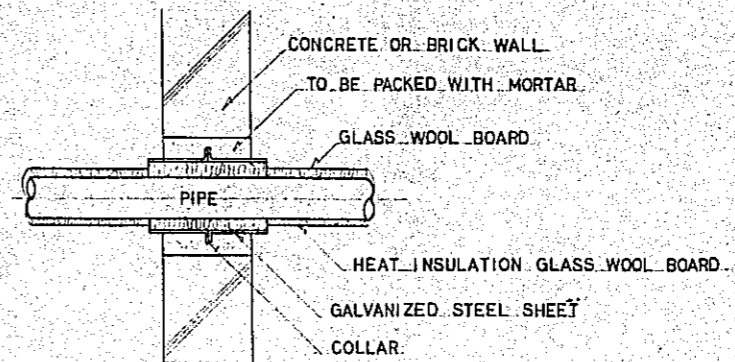


PLAN SECOND FLOOR 1/50

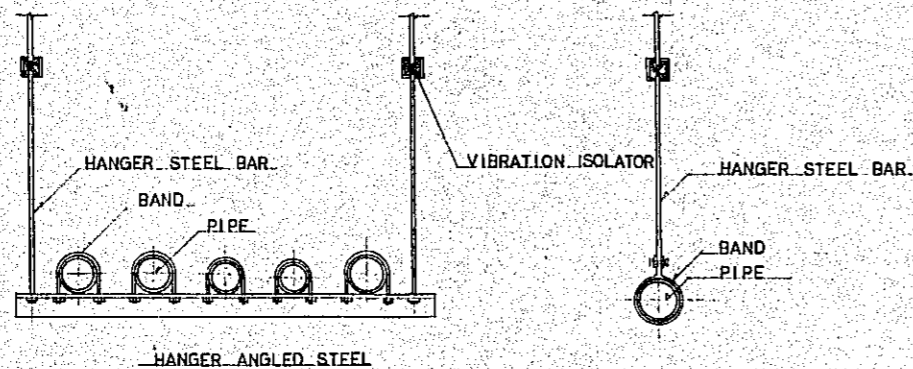
Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	M-15
PLAN	FIRST AND SECOND FLOOR (AUTOMATIC CONTROL)	Scale	1/50
Approved by	Designed by	Drawn by	Date
			FEB 1981
JEC JC JAPAN ENGINEERING CONSULTANTS CO., LTD.			



DETAIL OF PIPE SUPPORT



DETAIL OF VIBRATION PROTECTION FOR PASSING THROUGH THE STRUCTURAL WALL



DETAIL OF VIBRATION PROTECTION FOR PIPE HANGER

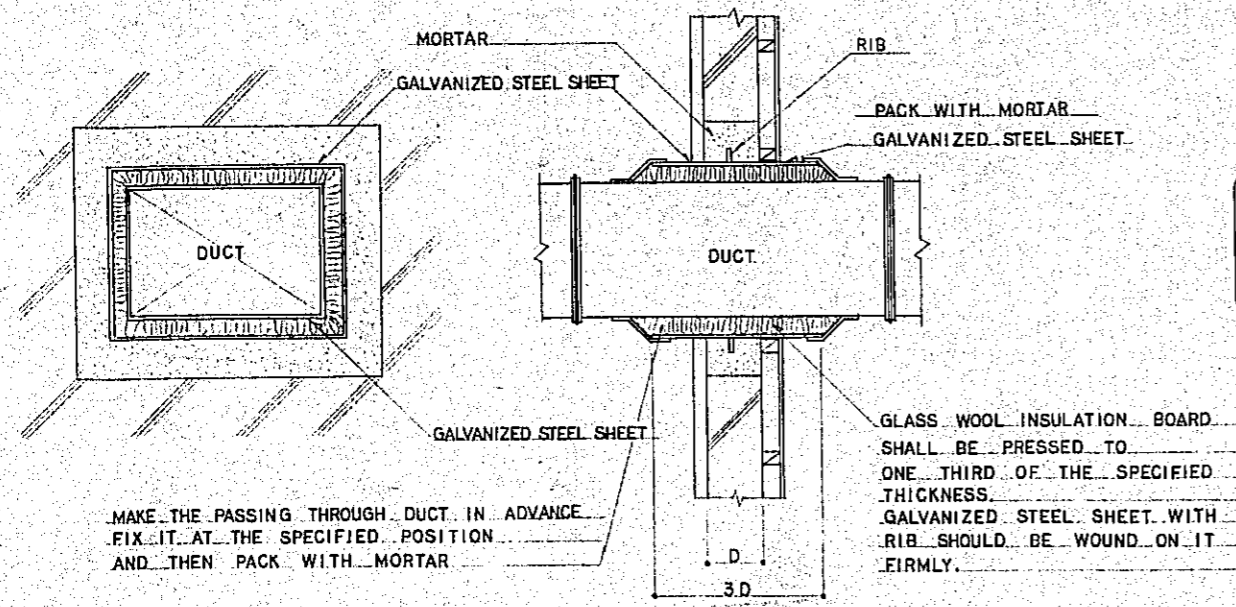
EXPLANATION OF VIBRATION PROTECTION FOR PASSING THROUGH THE STRUCTURAL WALL

A SLEEVE INSERTED SHOULD BE REMOVED AFTER CONCRETE WORK. THE PIPE SHOULD BE COVERED BY INSULATING COVER AND THEN BE COVERED BY STEEL SHEET WITH COLLAR. AFTER THESE PROCEDURES THE PASS-THROUGH SECTION SHOULD BE SUFFICIENTLY FILLED WITH MORTAR FROM THE BOTH ENDS BEFORE FILLING MORTAR. THE POSITION OF PIPE SHOULD BE PROPERLY ADJUSTED SO THAT THE LOAD OF PIPE WILL NOT AFFECT TO THE PASS-THROUGH SECTION DIRECTLY.

EXPLANATION OF FLEXIBLE JOINT

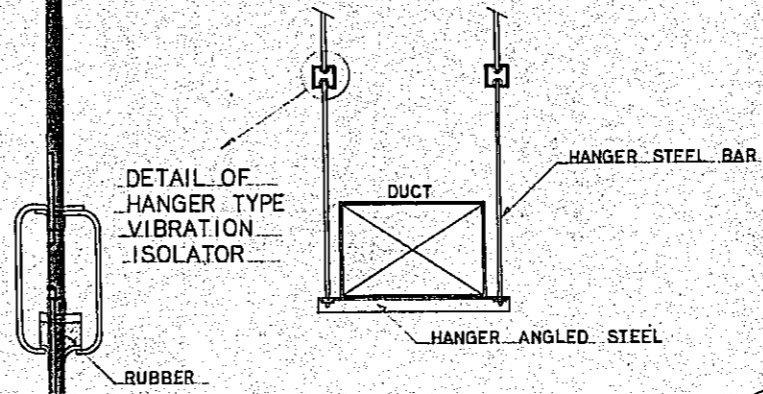
FOR THE CONNECTING PART WITH EQUIPMENT WHICH GENERATES VIBRATION (WATER CHILLING UNIT, PUMPS, AIRHANDLING UNIT) A FLEXIBLE JOINT SHOULD BE APPLIED.

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	M-16
Scale		Scale	
Approved by	Designed by	Drawn by	Date
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	FEB 1981
JELC JAPAN ENGINEERING CONSULTANTS CO., LTD.			

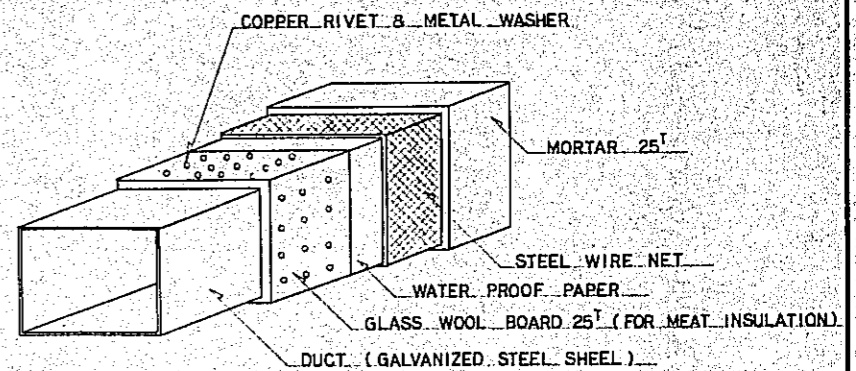


MAKE THE PASSING THROUGH DUCT IN ADVANCE
FIX IT AT THE SPECIFIED POSITION
AND THEN PACK WITH MORTAR

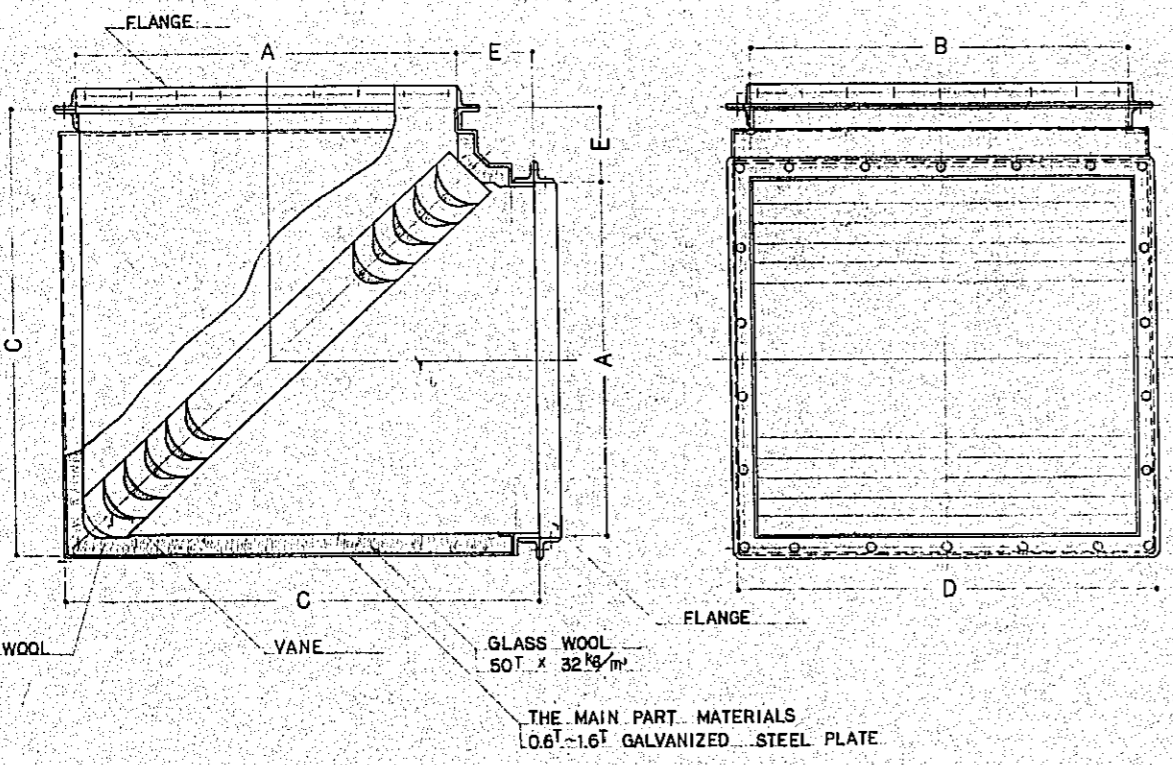
DETAIL OF THE PART OF PASSING THROUGH
THE STRUCTURAL WALL OR CEILING OF STUDIO,
STAGE, & ANOUNCE BOOTH. (SOUND PROOF SLEEVE)



DETAIL OF VIBRATION PROTECTION FOR DUCT



DETAIL OF SOUND PROOF DUCT



SILENCER ELBOW

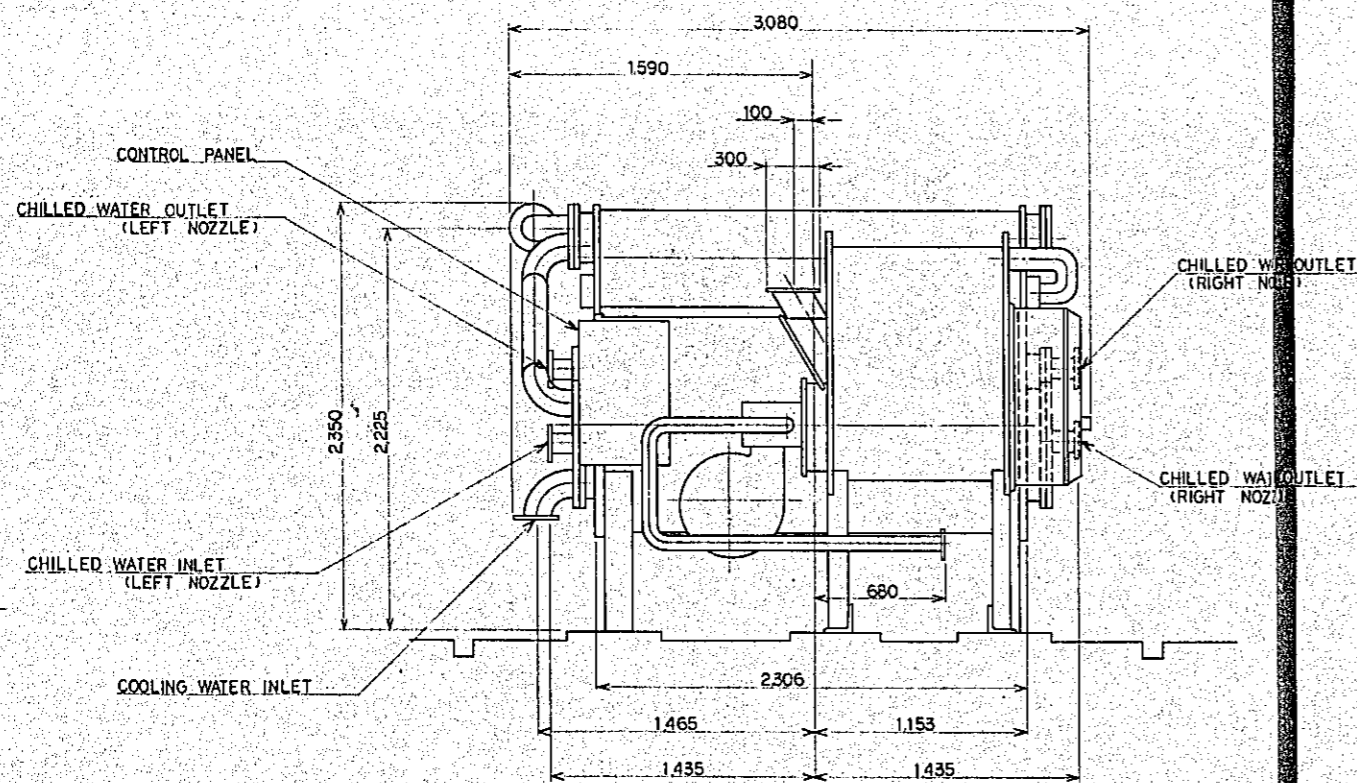
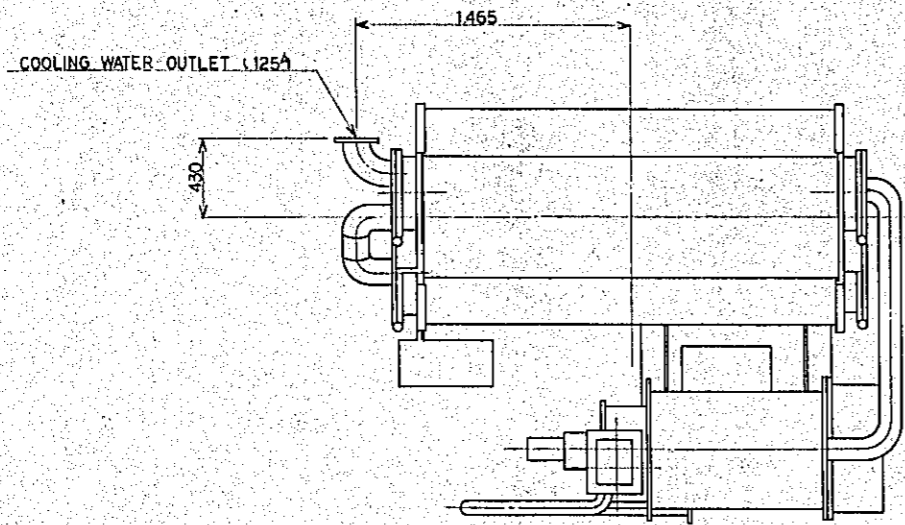
USE OF DECREASE AND RECTIFYING ELBOW UNIT (FOR SQUARE SHAPE DUCT)

A	B	C	D	E	FLANGE
200 ~ 599	200 ~ 1600	A + 250	B + 100	200	L30 x 30 x 3
600 ~ 1600	200 ~ 1600	A + 300	B + 100	250	L40 x 40 x 3

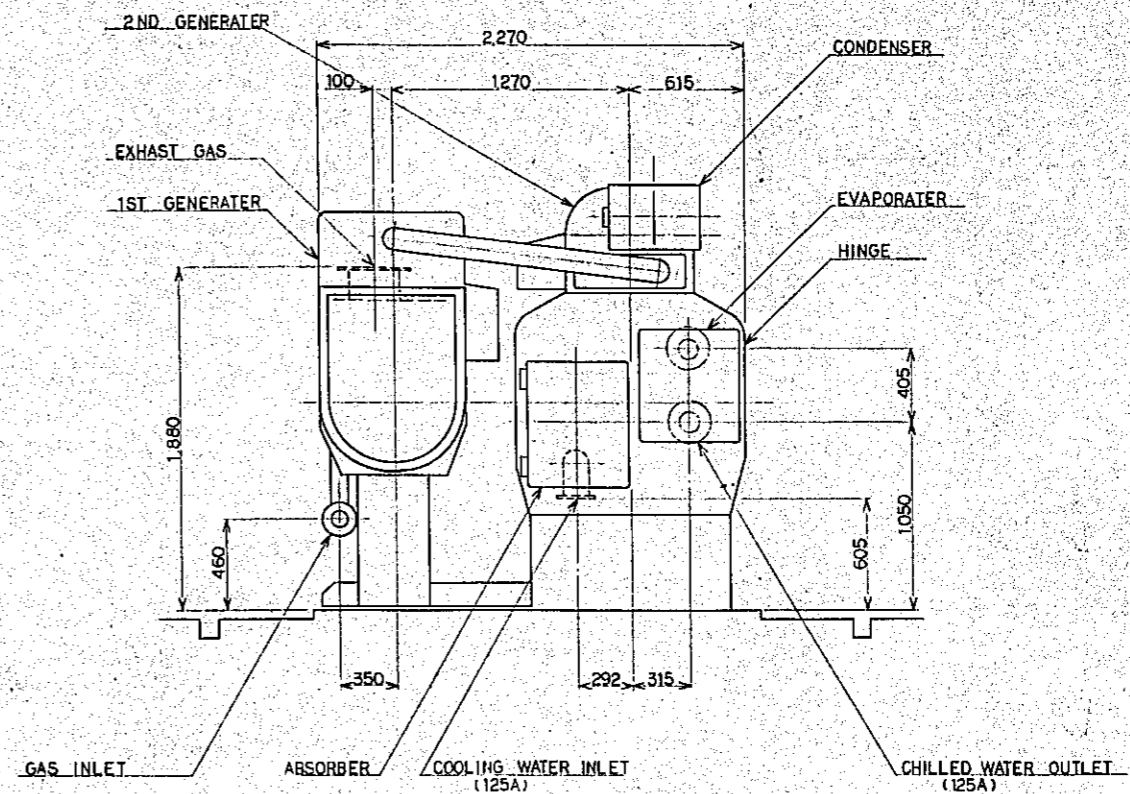
UNIT : mm

T : THICKNESS mm

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	M-17
DETAILS OF VIBRATION AND SOUND PROTECTION FOR DUCTING & SILENCER ELBOW		Scale	
Approved by	Designed by	Drawn by	Date
			FEB 1961
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			



FRONT VIEW



RIGHT VIEW

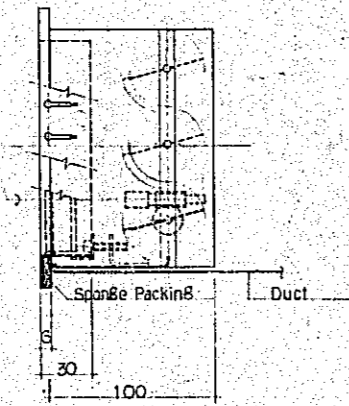
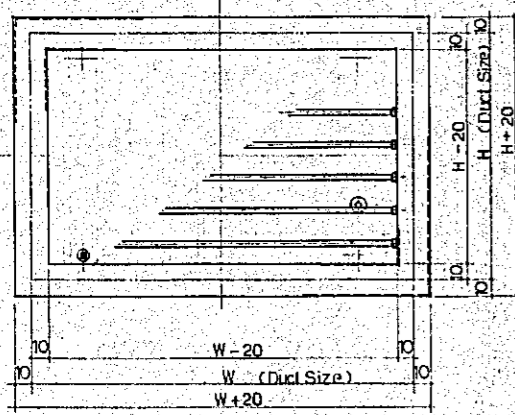
NOTE
THIS CHILLER SHALL BE MAINTAINED AND INSPECTED BY THE EXPERT ENGINEER TRAINED TO OPERATION FOR CHILLER

COLLING CAPACITY 272160 kcal/h
 CHILLED WATER TEMP 7°C ~ 12°C
 CHILLED WATER FLOW 910 l/min
 COLLING WATER TEMP 26°C ~ 36.4°C
 COLLING WATER FLOW 900 l/min
 INPUT 11.5 kVA
 POWER SUPPLY 3 ϕ x 415 V

GAS DIRECT FIRED ABSORPTION LIQUID CHILLER 1/20

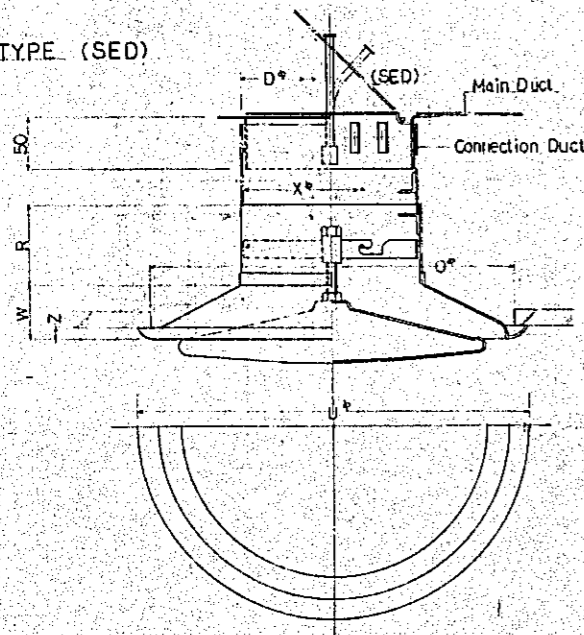
Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	M-18
DETAILS OF DIRECT GAS FIRED ABSORPTION CHILLER		Scale	1/20
Approved by	Designed by	Drawn by	Date
			FEB 1981
JEC JAPAN ENGINEERING CONSULTANTS CO., LTD.			

H(S) TYPE



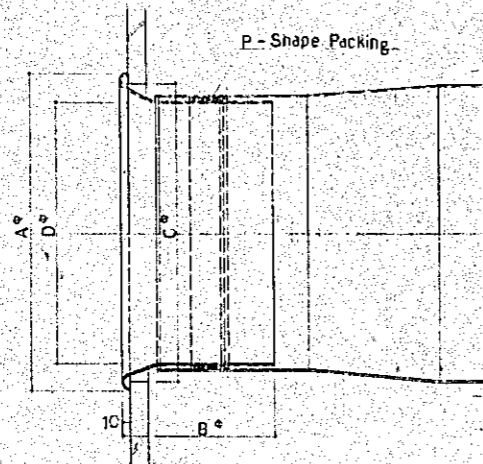
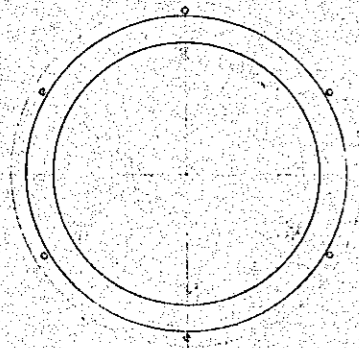
W	H	Q'TY
150	150	17
200	200	5
250	250	9
300	300	7
350	350	15
400	400	16
450	450	5
500	500	5
550	550	2

K TYPE (SED)

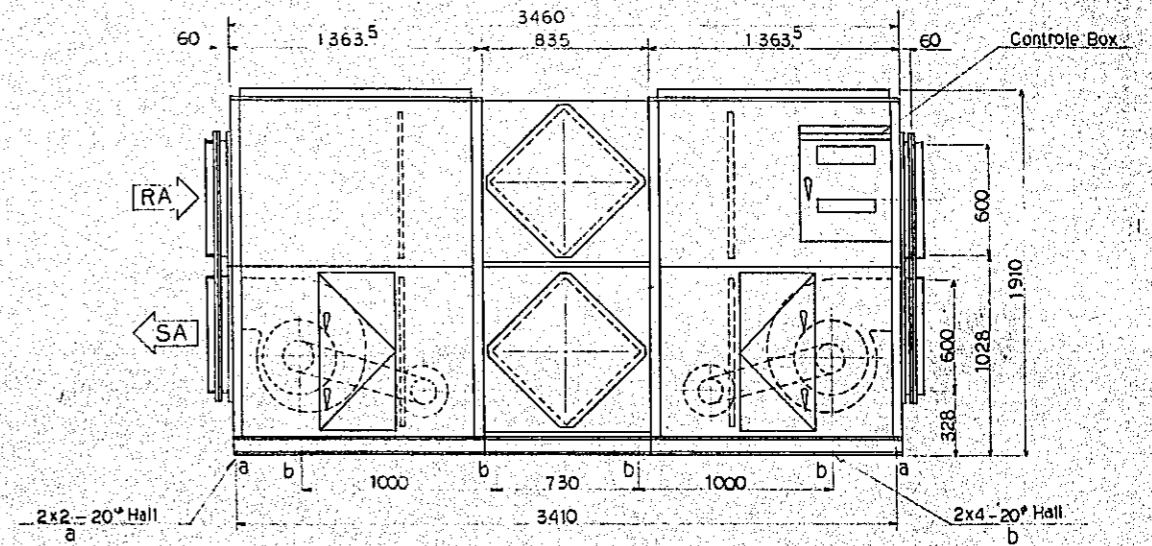
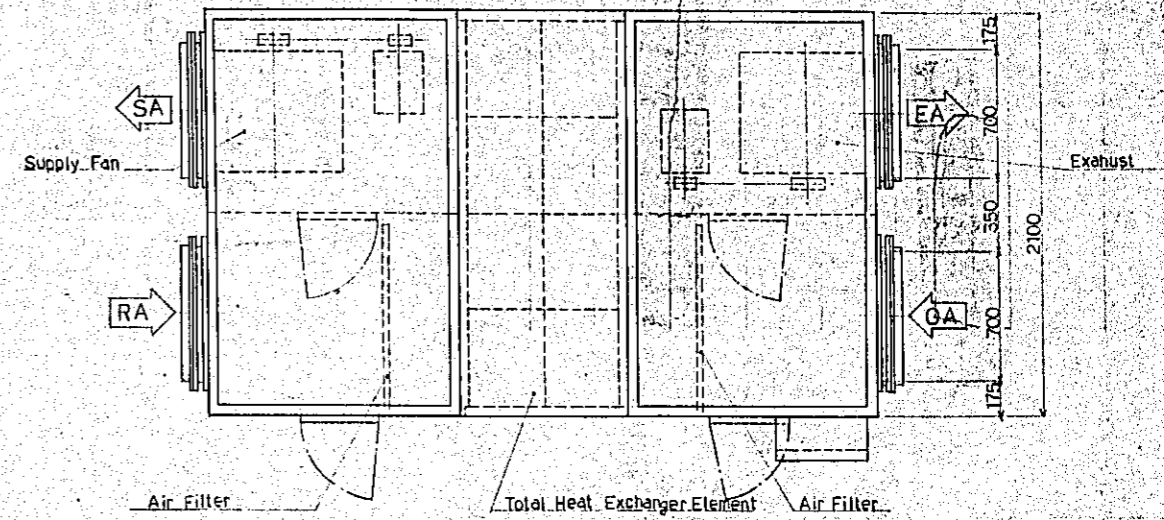


	X°	D°	U°	O°	W	R	Z	Q'TY
#10	102	100	289	269	32	64	10	21
12.5	127	125	289	269	32	64	10	6
15	153	150	336	316	38	76	10	6
20	204	200	432	407	51	89	15	63
25	254	250	527	502	64	95	15	29

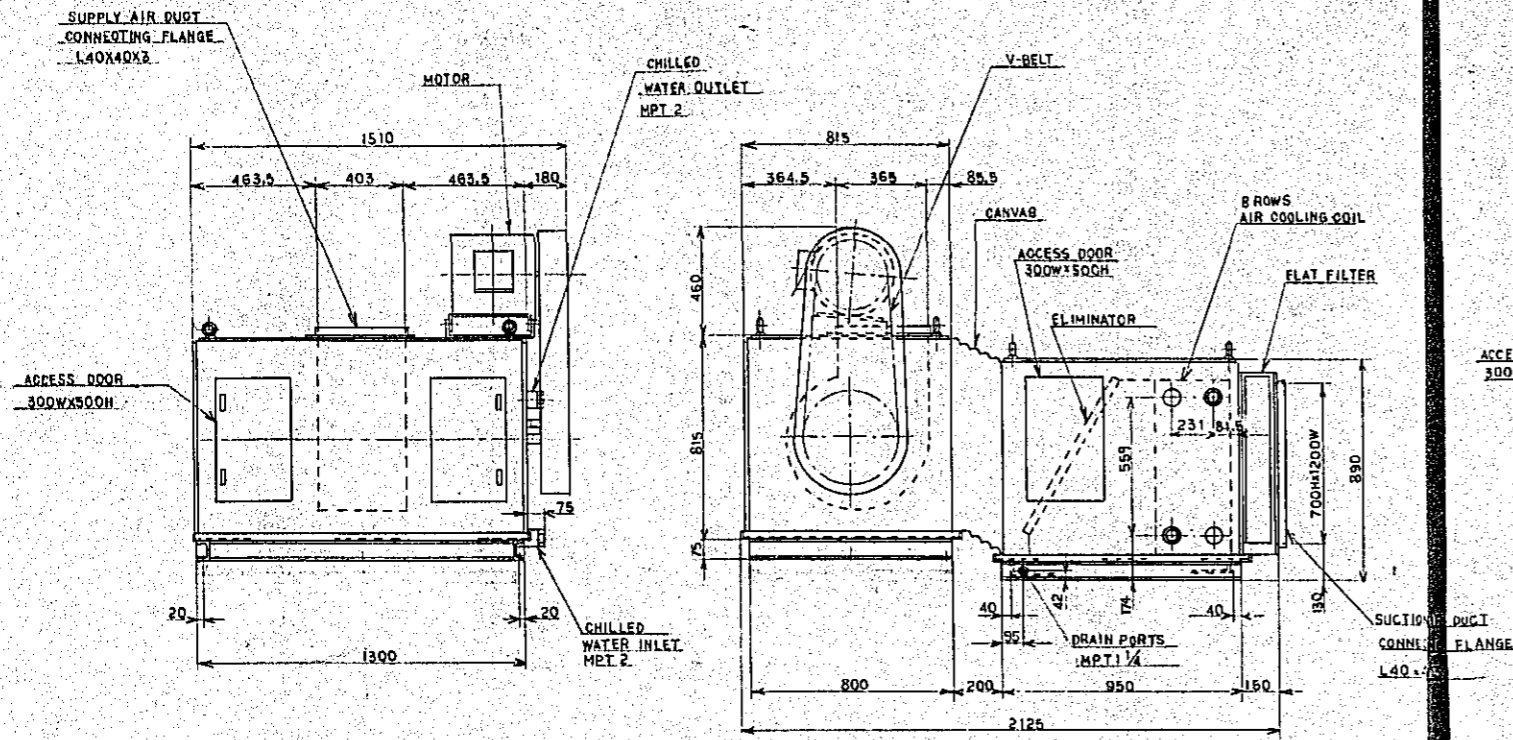
ZG TYPE



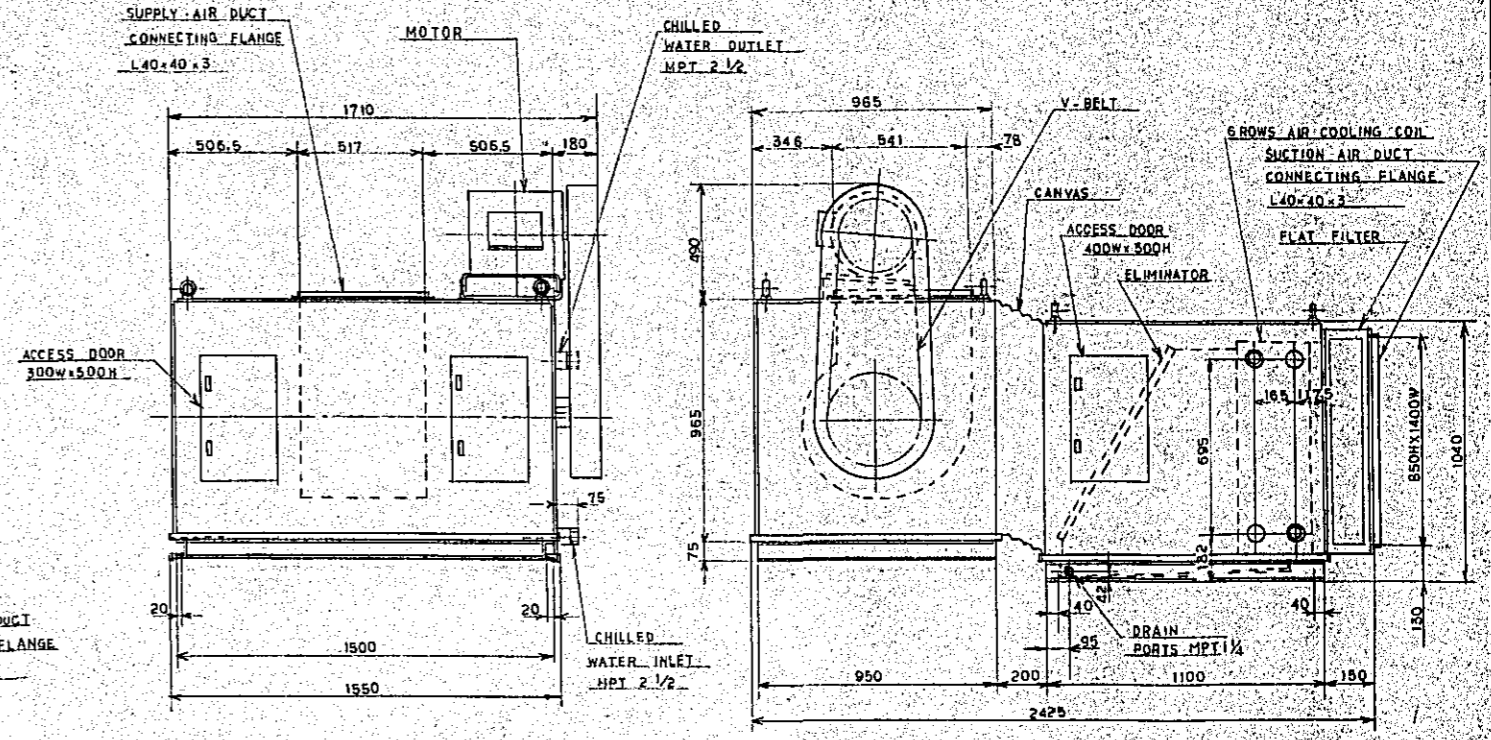
SIZE	A	B	D	Q'TY
#10	320	150	250	3
14	420	200	350	6
16	470	220	400	16



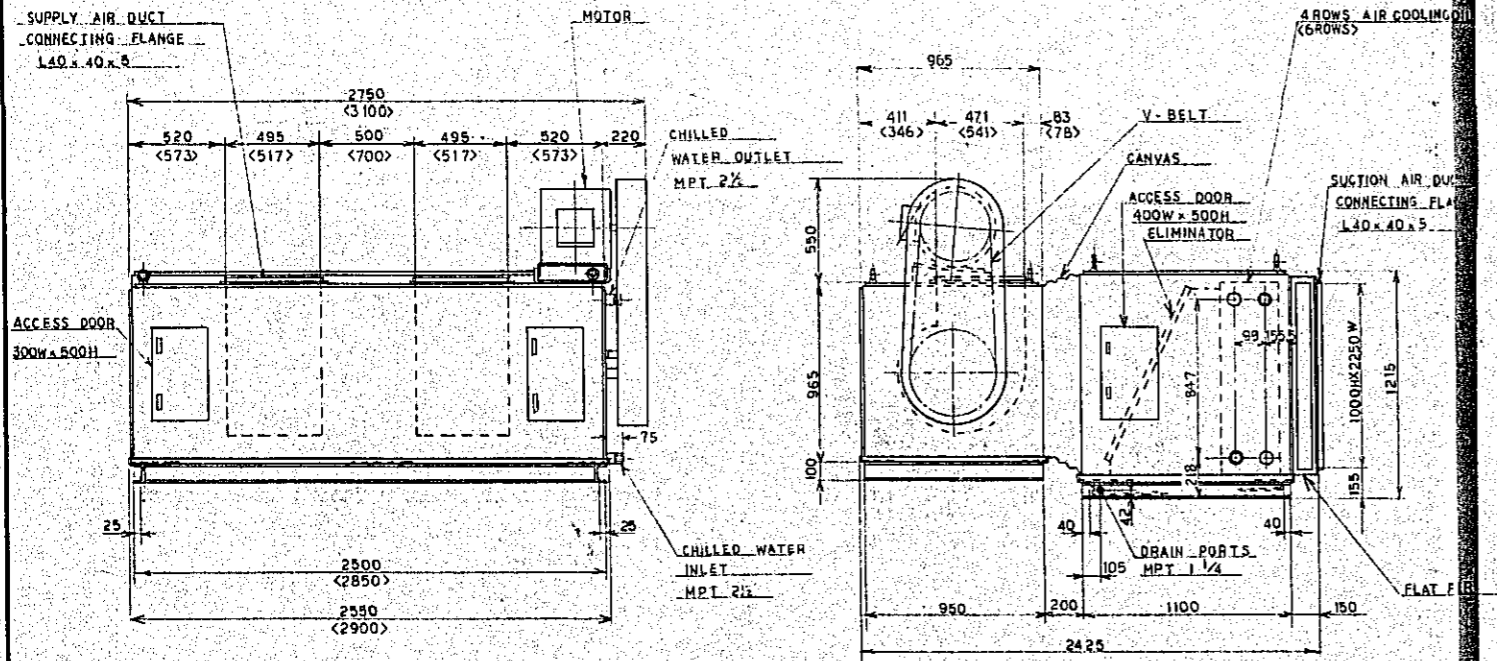
TOTAL HEAT EXCHANGER UNIT 1/20



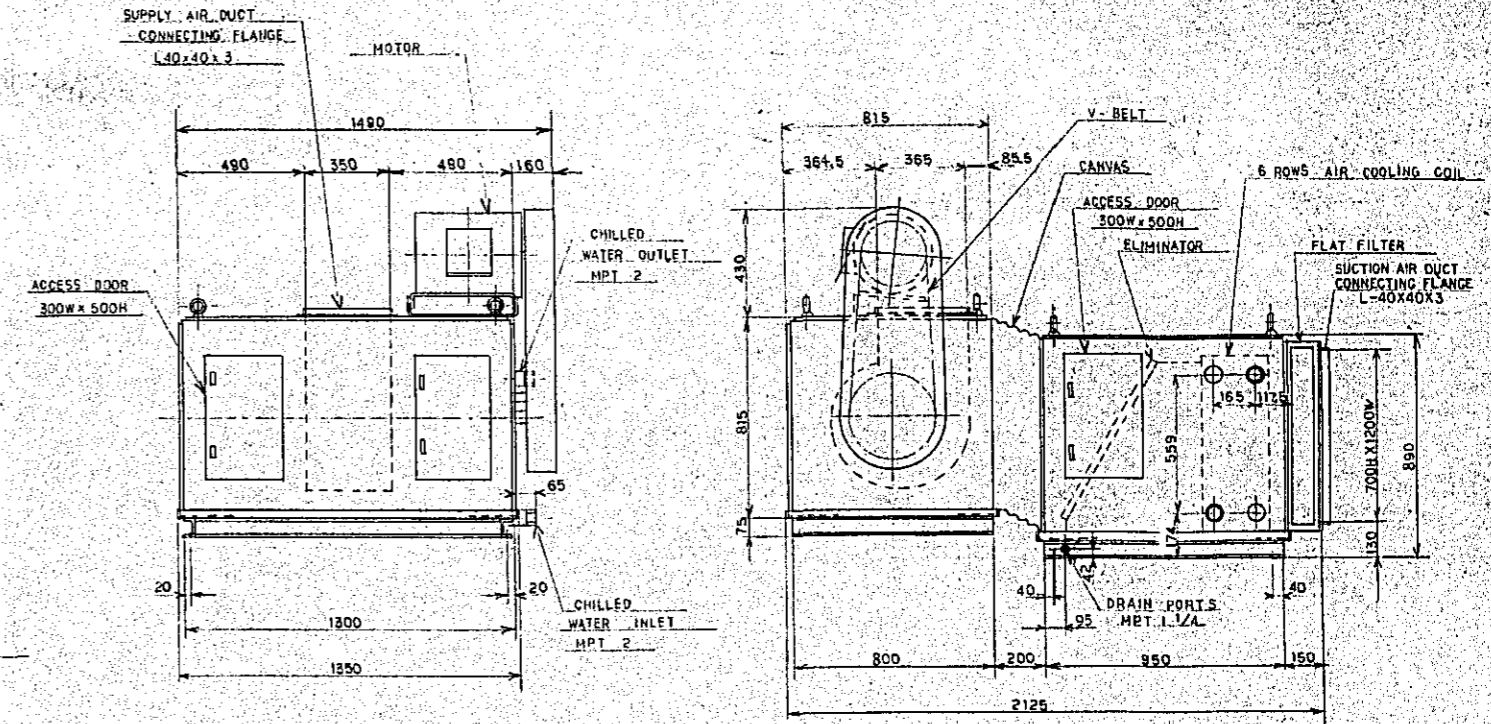
AHU-4 1/15



AHU-1 1/15



AHU-2, AHU-3 1/20



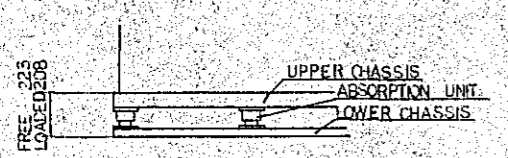
AHU-5 1/15

		SPECIFICATION					
		AHU-4	AHU-2	AHU-3	AHU-1	AHU-5	
MODEL		AD-100NA-MH	AD-400NA-SH	AD-300NA-SH	AD-150NA-SH	AD-70NA-SH	
FAN	AIR VOLUME	M ³ /Hr	5600	17200	15400	7200	3500
	S.P. EXTERNAL	mmHg	70	70	70	60	75
	CAPACITY OF MOTOR	KW	3.7	11	11	5.5	3.7
	CAPACITY	Kcal/Hr	47000	74000	67400	42100	23300
	AIR ON COIL TEMP.	DB/WB °C	28.2/23.8	24.5/19.0	24.6/19.1	27/21.5	23.7/22.2
	WATER TEMP.	IN/OUT °C	7/12	7/12	7/12	7/12	7/12
	FLOW RATE	/min	150	260	240	150	90
COOLING COIL	ROWS		8	4	6	6	6

NOTE
DRAIN PAN OF AIR HANDLING UNIT SHOULD BE MADE BY STAINLESS STEEL (SUS 304).

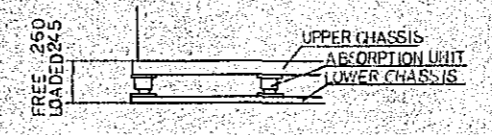
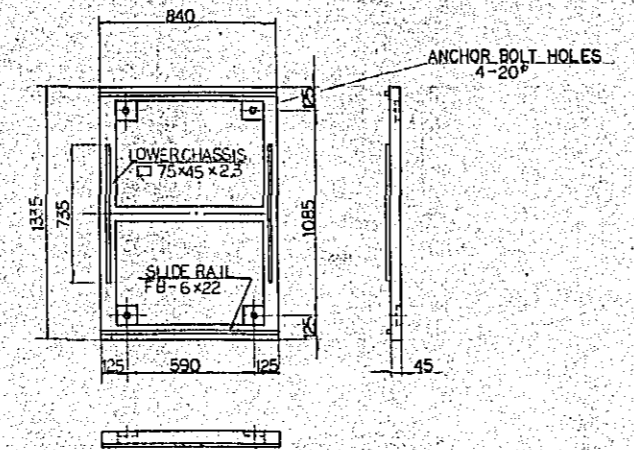
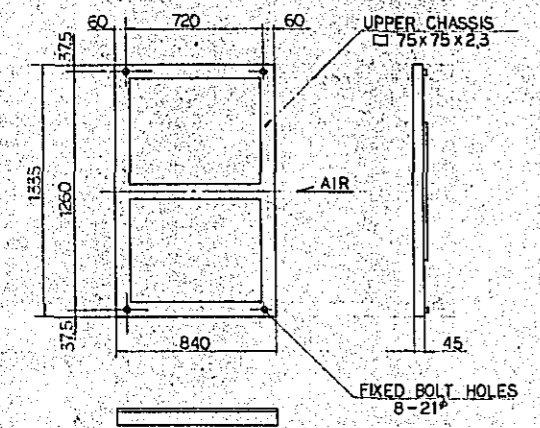
AIR HANDLING UNIT 1/15, 1/20

Project	NATIONAL BROADCASTING HOUSE OF RADIO BANGLADESH	No.	M-20
Details of	AIR HANDLING UNIT	Scale	1/15, 1/20
Approved by	Designed by	Drawn by	DATE
			FEB 1981
JEC/JC JAPAN ENGINEERING CONSULTANTS CO., LTD.			



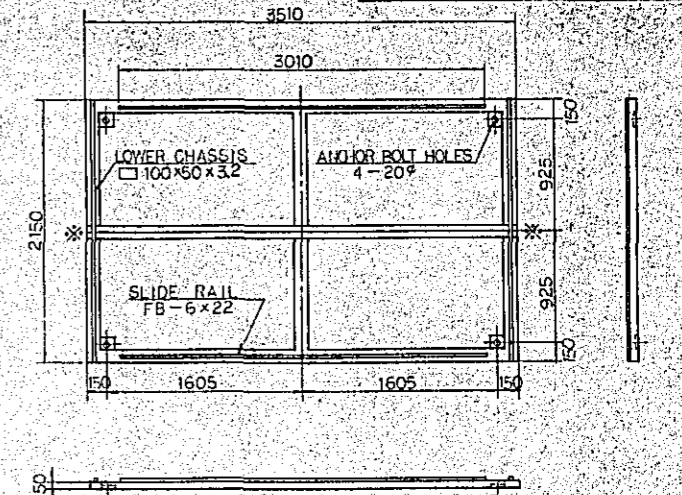
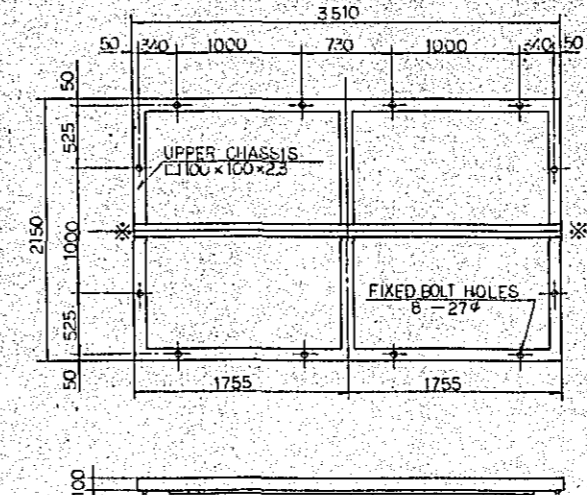
AIR HANDLING UNIT (AD-70KB)
OS VIBRATION ABSORBER URH-207ADKB
1/20

SPECIFICATIONS	
WEIGHT	UPPER CHASSIS 24 kg
	LOWER CHASSIS 24 kg
	TOTAL 52 kg
ISOLATER	SPRING DIAMETER 50mm
	SUPPORT POINT 8 p
	K 4.30 kg/mm
ACCESSORIES : STOPPER x 4	
K: SPRING CONSTANT	

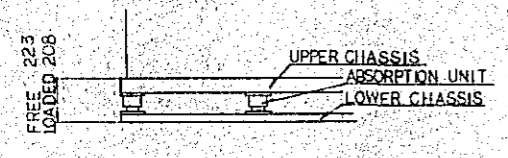


TOTAL HEAT EXCHANGER UNIT (LP-800)
OS VIBRATION ABSORBER UR-3880LP
1/30

SPECIFICATIONS	
WEIGHT	UPPER CHASSIS 170 kg
	LOWER CHASSIS 136 kg
	TOTAL 324 kg
ISOLATER	SPRING DIAMETER 65mm
	SUPPORT POINT 18 p
	K 6.22 kg/mm
ACCESSORIES : STOPPER x 8	

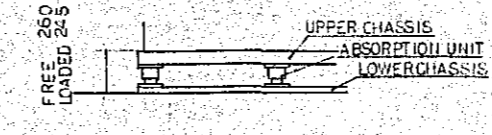
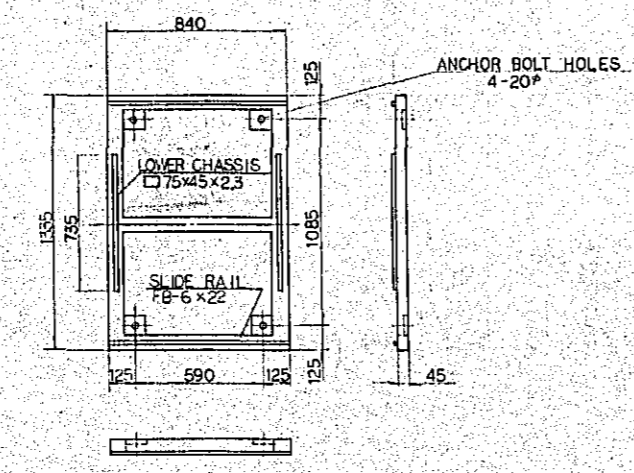
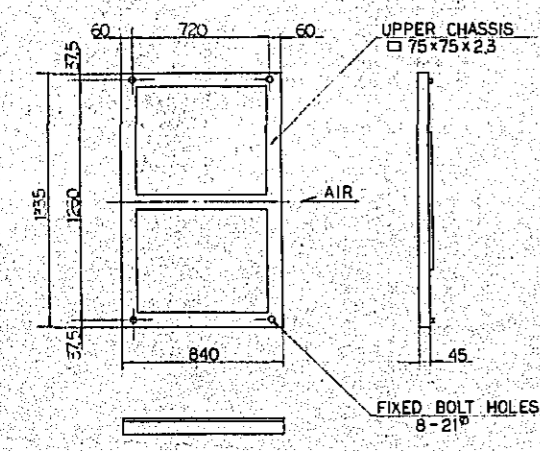


NOTE
* - * PARTING LINE



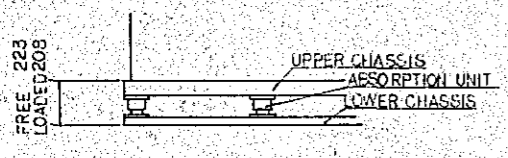
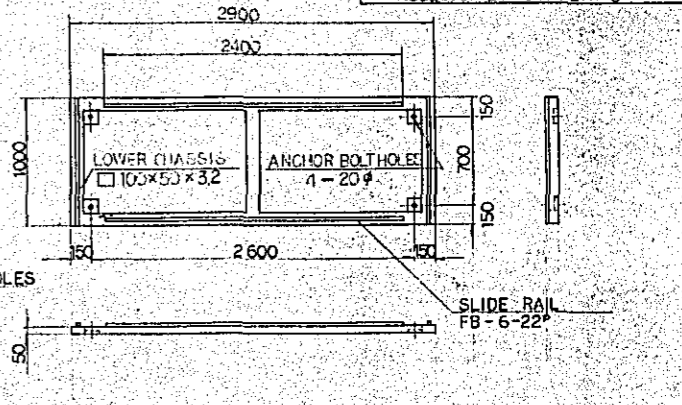
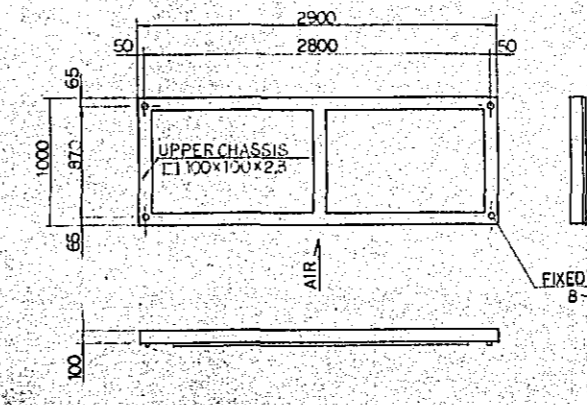
AIR HANDLING UNIT (AD-100KB)
OS VIBRATION ABSORBER URH-2010ADKB
1/20

SPECIFICATIONS	
WEIGHT	UPPER CHASSIS 24 kg
	LOWER CHASSIS 24 kg
	TOTAL 52 kg
ISOLATER	SPRING DIAMETER 50mm
	SUPPORT POINT 8 p
	K 4.30 kg/mm
ACCESSORIES : STOPPER x 4	



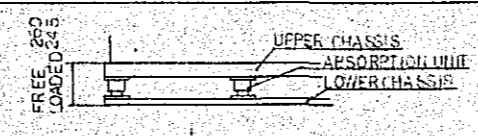
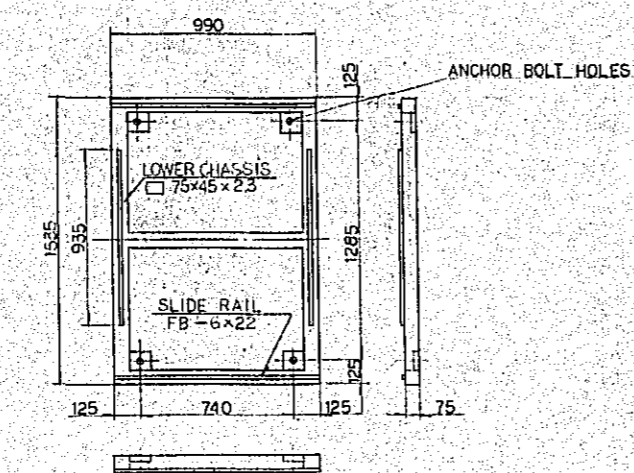
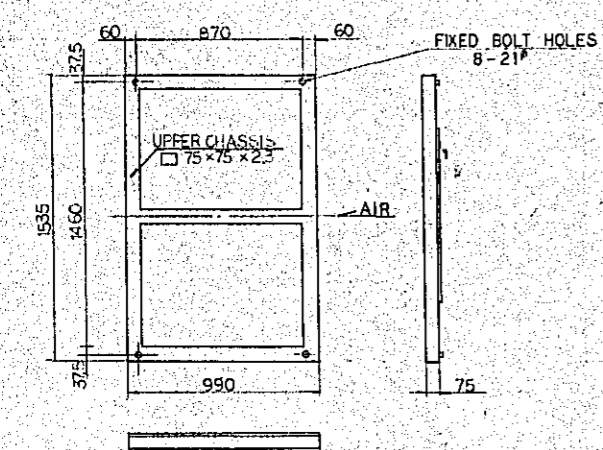
AIR HANDLING UNIT (AD-400KB)
OS VIBRATION ABSORBER URH-3740ADKB
1/30

SPECIFICATIONS	
WEIGHT	UPPER CHASSIS 67 kg
	LOWER CHASSIS 67 kg
	TOTAL 144 kg
ISOLATER	SPRING DIAMETER 60mm
	SUPPORT POINT 10 p
	K 7.46 kg/mm
ACCESSORIES : STOPPER x 8	



AIR HANDLING UNIT (AD-150KB)
OS VIBRATION ABSORBER URH-2415ADKB
1/20

SPECIFICATIONS	
WEIGHT	UPPER CHASSIS 35 kg
	LOWER CHASSIS 29 kg
	TOTAL 68 kg
ISOLATER	SPRING DIAMETER 50mm
	SUPPORT POINT 8 p
	K 4.30 kg/mm
ACCESSORIES : STOPPER x 4	



AIR HANDLING UNIT (AD-300KB)
OS VIBRATION ABSORBER URH-3530ADKB
1/30

SPECIFICATIONS	
WEIGHT	UPPER CHASSIS 62 kg
	LOWER CHASSIS 62 kg
	TOTAL 134 kg
ISOLATER	SPRING DIAMETER 60 mm
	SUPPORT POINT 10 p
	K 6.22 kg/mm
ACCESSORIES : STOPPER x 8	

