

THE KINGDOM OF NEPAL
DETAIL DESIGN REPORT
ON
THE ESTABLISHMENT PROGRAMME
OF
MEDIUM WAVE RADIO BROADCASTING NETWORK

VOLUME IV
DESIGN DRAWINGS OF BROADCASTING EQUIPMENT

MARCH 1981

JAPAN INTERNATIONAL COOPERATION AGENCY

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VOLUME IV-1
DESIGN DRAWINGS OF BROADCASTING EQUIPMENT

MARCH 1981

JAPAN INTERNATIONAL COOPERATION AGENCY

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国際協力事業団		
受入 月日	86.11.07	L116
登録 No.	15657	79 SDS

LIST OF DRAWINGS

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(KATHMANDU TRANSMITTING STATION)

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PT - 003	SCHEMATIC DIAGRAM OF POWER SUPPLY
PT - 007	SCHEMATIC DIAGRAM OF AUDIO SYSTEM - PRODUCTION STUDIO
PT - 008	FLOOR LAYOUT OF PRODUCTION STUDIO
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






















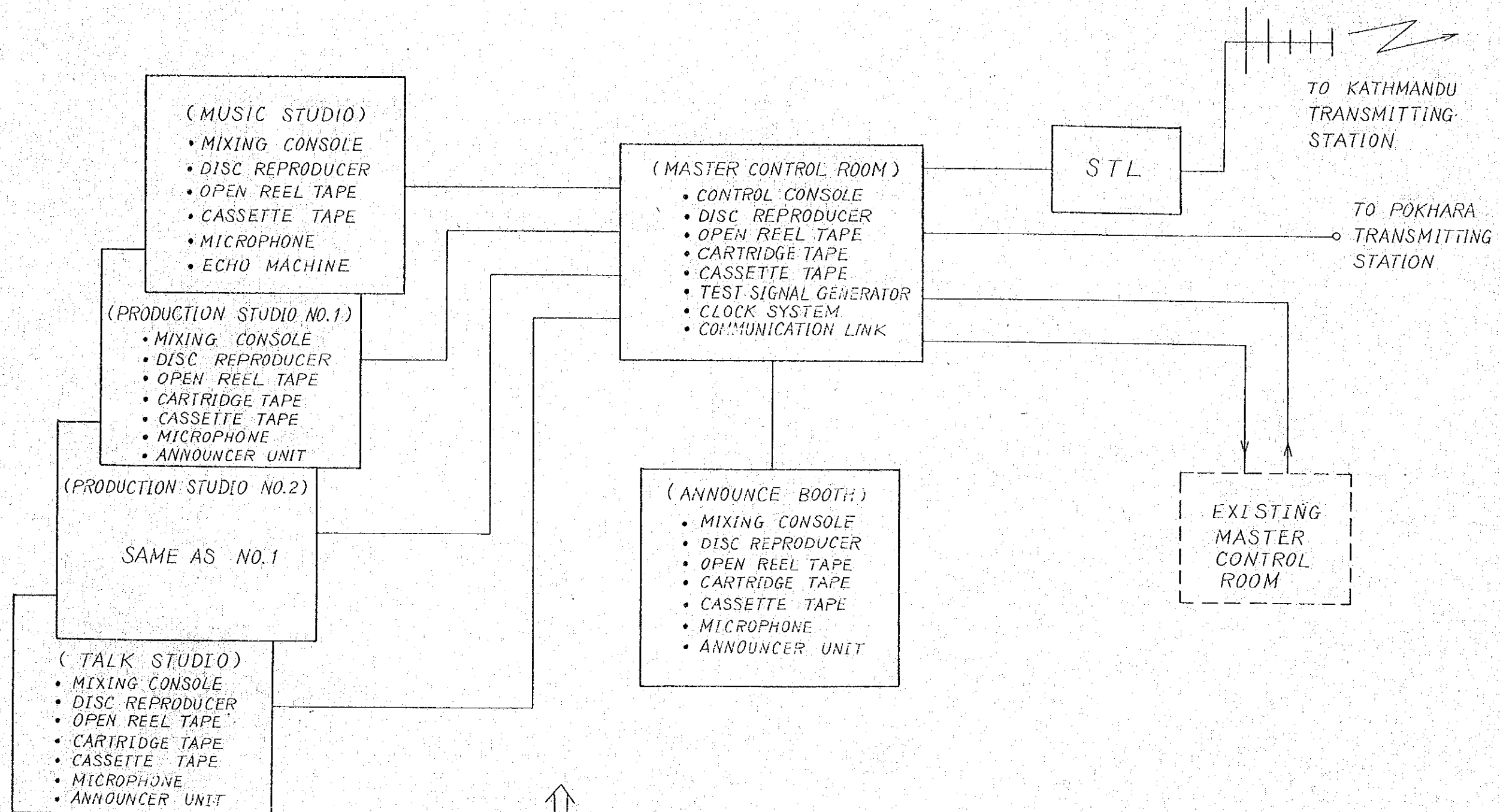
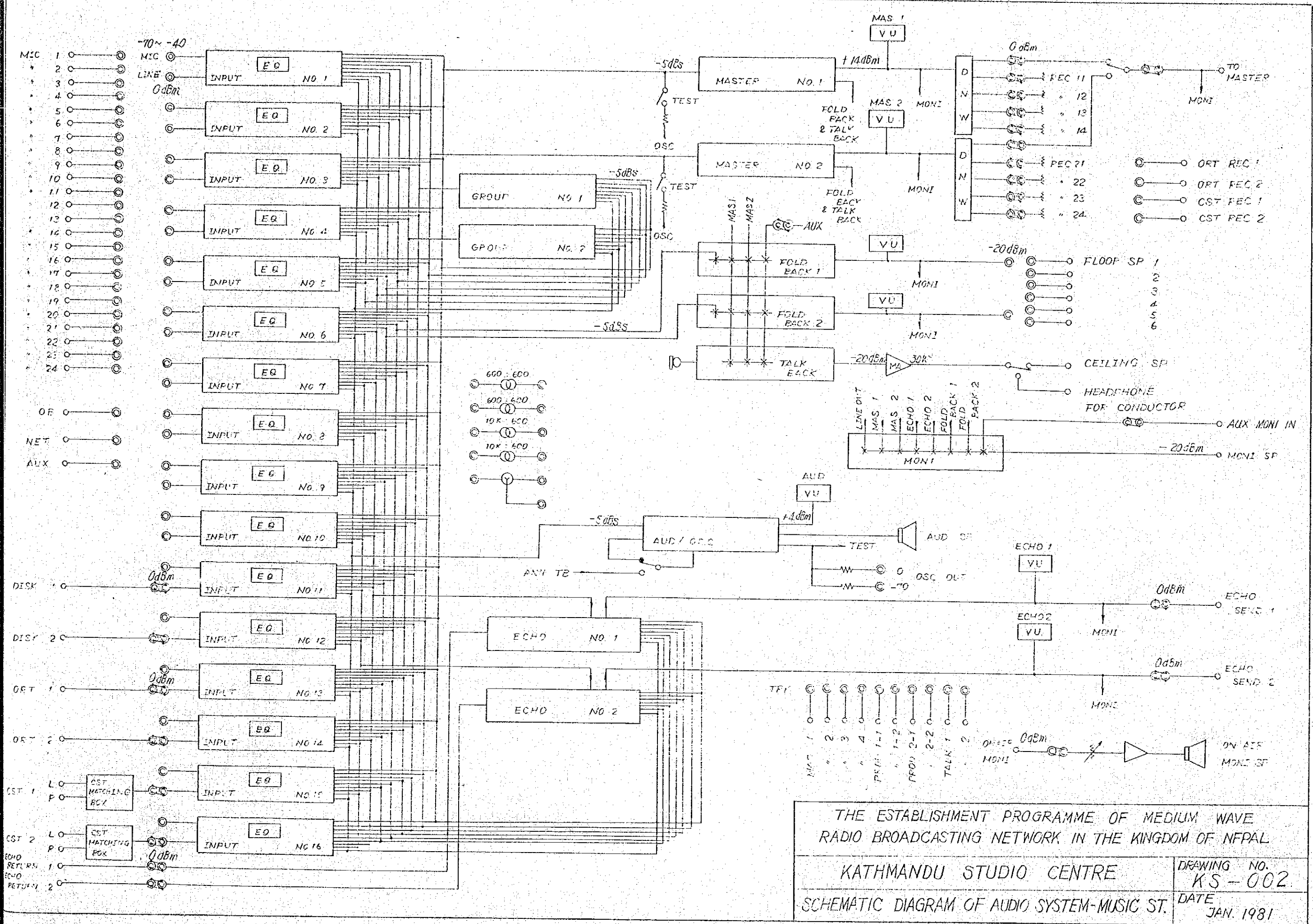
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
MIC	MICROPHONE	LIM. AMP.	LIMITING AMPLIFIER	AVR	AUTOMATIC VOLTAGE REGULATOR
OB	OUTSIDE BROADCASTING WAGON	LINE. AMP.	LINE AMPLIFIER	IVR	INDUCTION TYPE VOLTAGE REGULATOR
NET	NETWORK		FADER OR VOLUME	MC	MAGNETIC CONTACTOR
AUX	AUXILIARY	PGM	PROGRAMME	NFB	NO FUSE BREAKER
DISC	DISC REPRODUCER	P. I. E.	PROGRAMME INPUT/MONITORING EQUIPMENT		THREE (3) WIRES
ORT	OPEN REEL TAPE MACHINE	H. S. P.	HIGH SPEED SURGE PROTECTOR		FOUR (4) WIRES
CRT	CARTRIDGE TAPE MACHINE	A. T. U.	ANTENNA TUNING UNIT		POWER DISTRIBUTION BOARD
CST	CASSETTE TAPE MACHINE	OLR	OVER LOAD RELAY	LT	LOW - TENSION
OSC	OSCILLATOR	NTR	NOTCHING RELAY	HT	HIGH - TENSION
SP	SPEAKER	TX	TRANSMITTER	P.P.	PUSH - PULL
MONI	MONITOR	STL	STUDIO TO TRANSMITTER LINK		OUTLET BOX
REC	RECORDING	ACB	AUTOMATIC CIRCUIT BREAKER		
TRK	TRUNK LINE	TR	TRANSFORMER		
ST	STUDIO		OVER VOLTAGE RELAY		
PROD	PRODUCTION		OVER CURRENT RELAY		
DNW	DISTRIBUTION NETWORK		VOLTMETER		
EQ	EQUALIZER		FREQUENCY METER		
ADA	AUDIO DISTRIBUTION AMPLIFER		AMMETER		
	POWER AMPLIFIER		WATTMETER		
	BUFFER AMPLIFIER		POWER - FACTOR METER		
	VU METER		INTEGRATING WATTMETER		
	SWITCH		CHANGEOVER SWITCH		
	JACK		CHANGEOVER SWITCH		
	PAD		GENERATOR		
HA	HEAD AMPLIFIER		EXCITER		

TABLE OF SYMBOLS



THE ESTABLISHMENT PROGRAMME OF MEDIUM WAVE
 RADIO BROADCASTING NETWORK IN THE KINGDOM OF NEPAL

KATHMANDU STUDIO CENTRE	DRAWING No. KS - 001
SCHEMATIC DIAGRAM OF KATHMANDU STUDIO CENTRE	DATE JAN. 1981

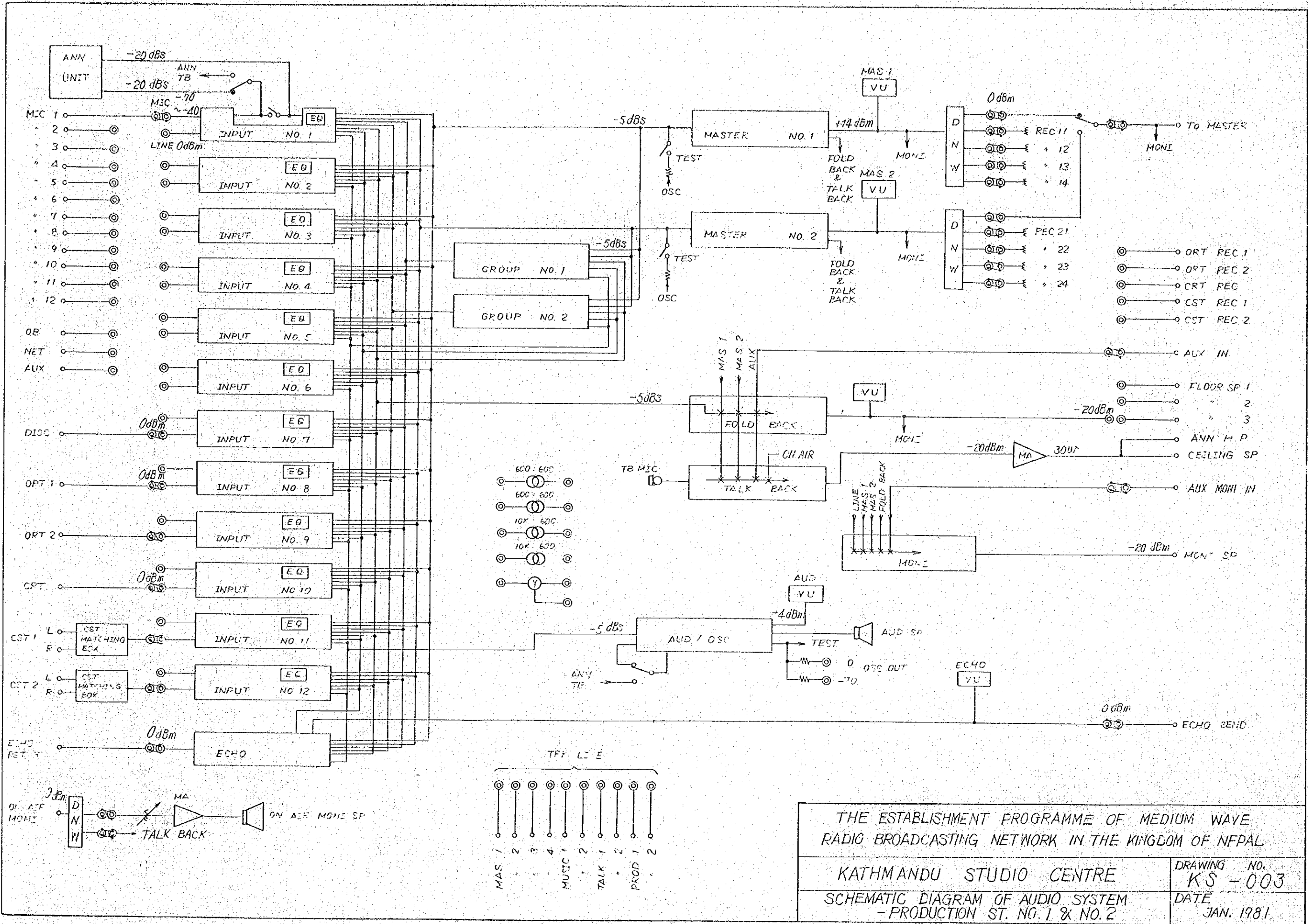


THE ESTABLISHMENT PROGRAMME OF MEDIUM WAVE
RADIO BROADCASTING NETWORK IN THE KINGDOM OF NEPAL

KATHMANDU STUDIO CENTRE

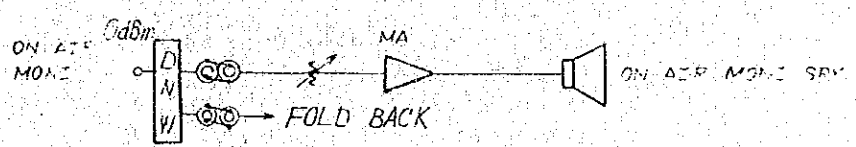
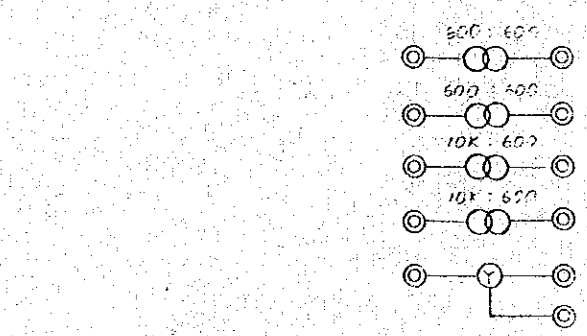
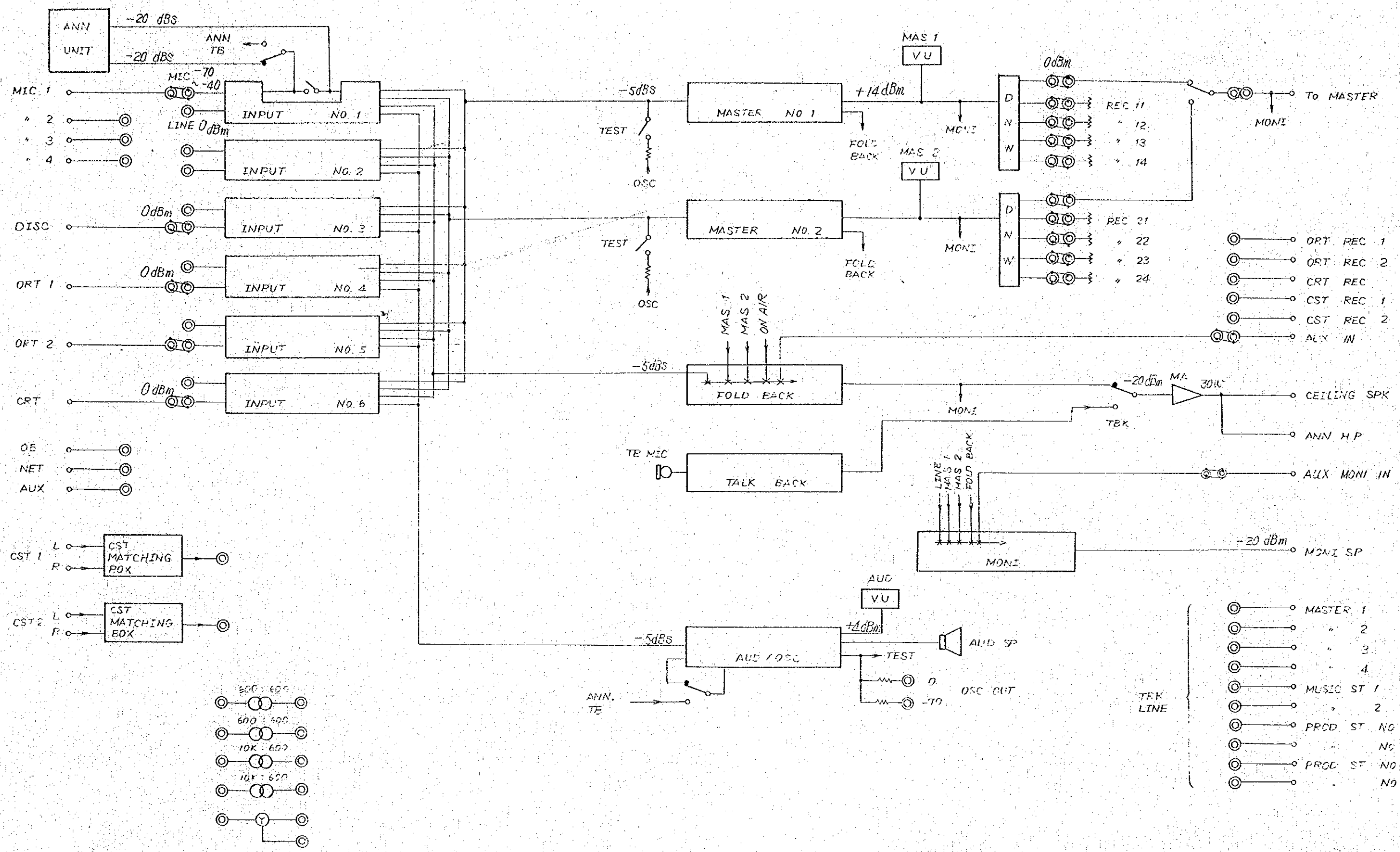
SCHEMATIC DIAGRAM OF AUDIO SYSTEM-MUSIC ST.

DRAWING NO. KS-002	DATE JAN. 1981
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THE ESTABLISHMENT PROGRAMME OF MEDIUM WAVE
RADIO BROADCASTING NETWORK IN THE KINGDOM OF NEPAL

KATHMANDU STUDIO CENTRE	DRAWING NO. KS - 003
SCHEMATIC DIAGRAM OF AUDIO SYSTEM - PRODUCTION ST. NO. 1 & NO. 2	DATE JAN. 1981

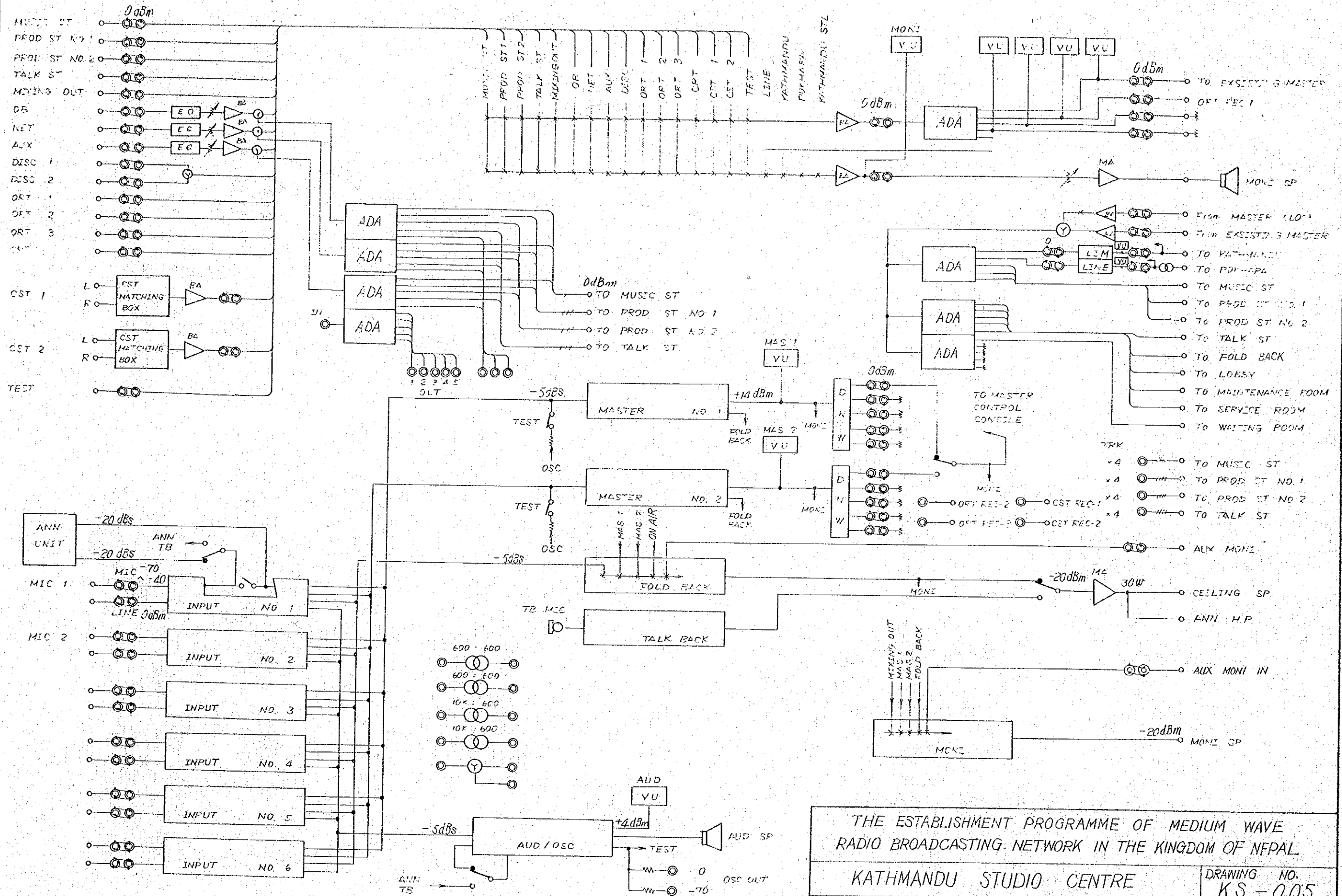


THE ESTABLISHMENT PROGRAMME OF MEDIUM WAVE
RADIO BROADCASTING NETWORK IN THE KINGDOM OF NEPAL

KATHMANDU STUDIO CENTRE

SCHEMATIC DIAGRAM OF AUDIO SYSTEM-TALK ST.

DRAWING No. KS - 004
DATE JAN. 1981



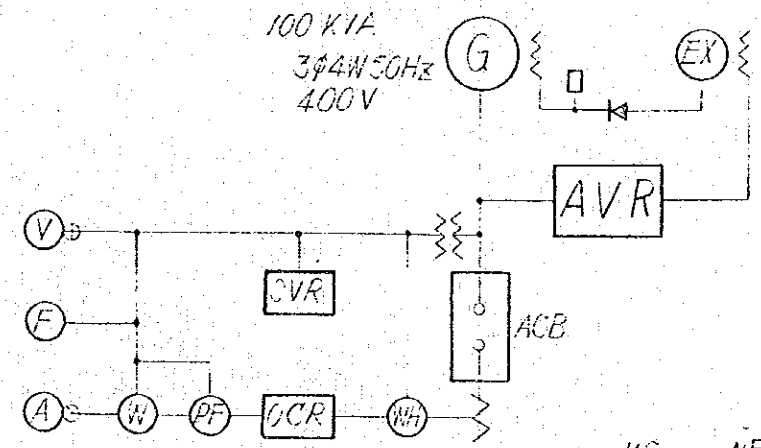
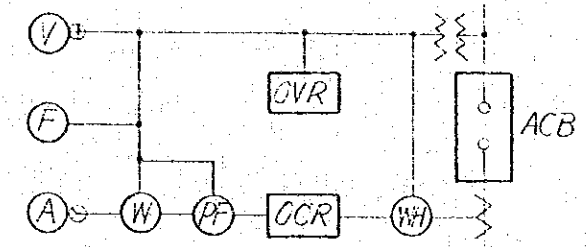
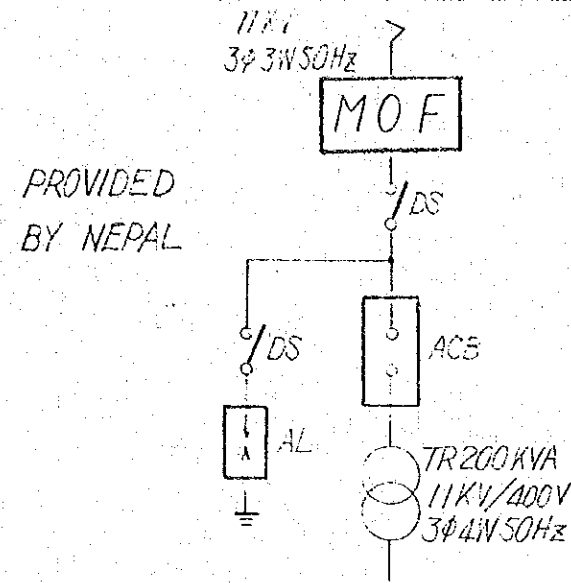
THE ESTABLISHMENT PROGRAMME OF MEDIUM WAVE
 RADIO BROADCASTING NETWORK IN THE KINGDOM OF NEPAL

KATHMANDU STUDIO CENTRE

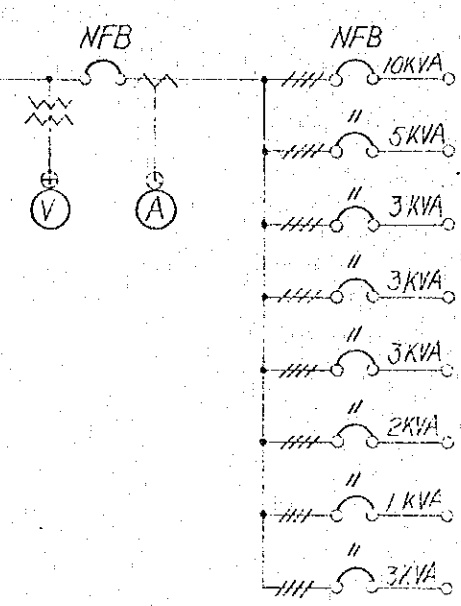
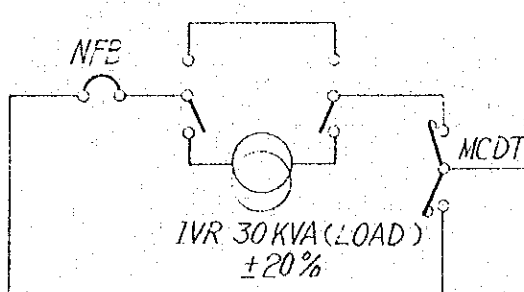
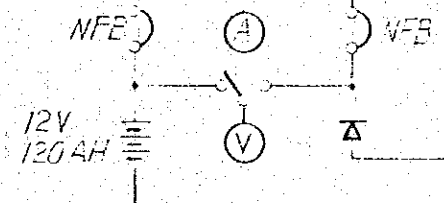
SCHEMATIC DIAGRAM OF AUDIO SYSTEM
 - MASTER CONTROL ROOM

DRAWING NO.
 KS-005

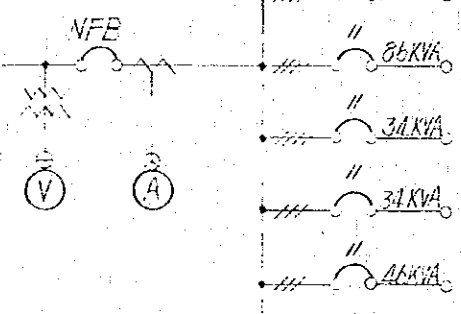
DATE
 JAN, 1981



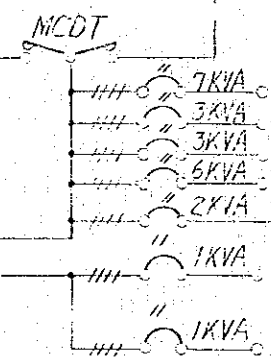
TO ENGINE STARTER



- 10KVA MASTER CONTROL ROOM
- 5KVA MUSIC STUDIO SUB-CONTROL ROOM
- 3KVA PRODUCTION STUDIO SUB-CONTROL ROOM (1)
- 3KVA " " (2)
- 3KVA TALK STUDIO SUB-CONTROL ROOM
- 2KVA BROADCASTING BATTERY
- 1KVA AC SOCKET FOR MEASURING EQUIPMENT
- 3KVA SPARE



- 10KVA LAMP & AC SOCKET FOR BUILDING
- 8KVA AIR CONDITIONER & VENTILATING FAN (1)
- 3KVA " " (2)
- 3KVA " " (3)
- 4KVA " " (4)
- SPARE



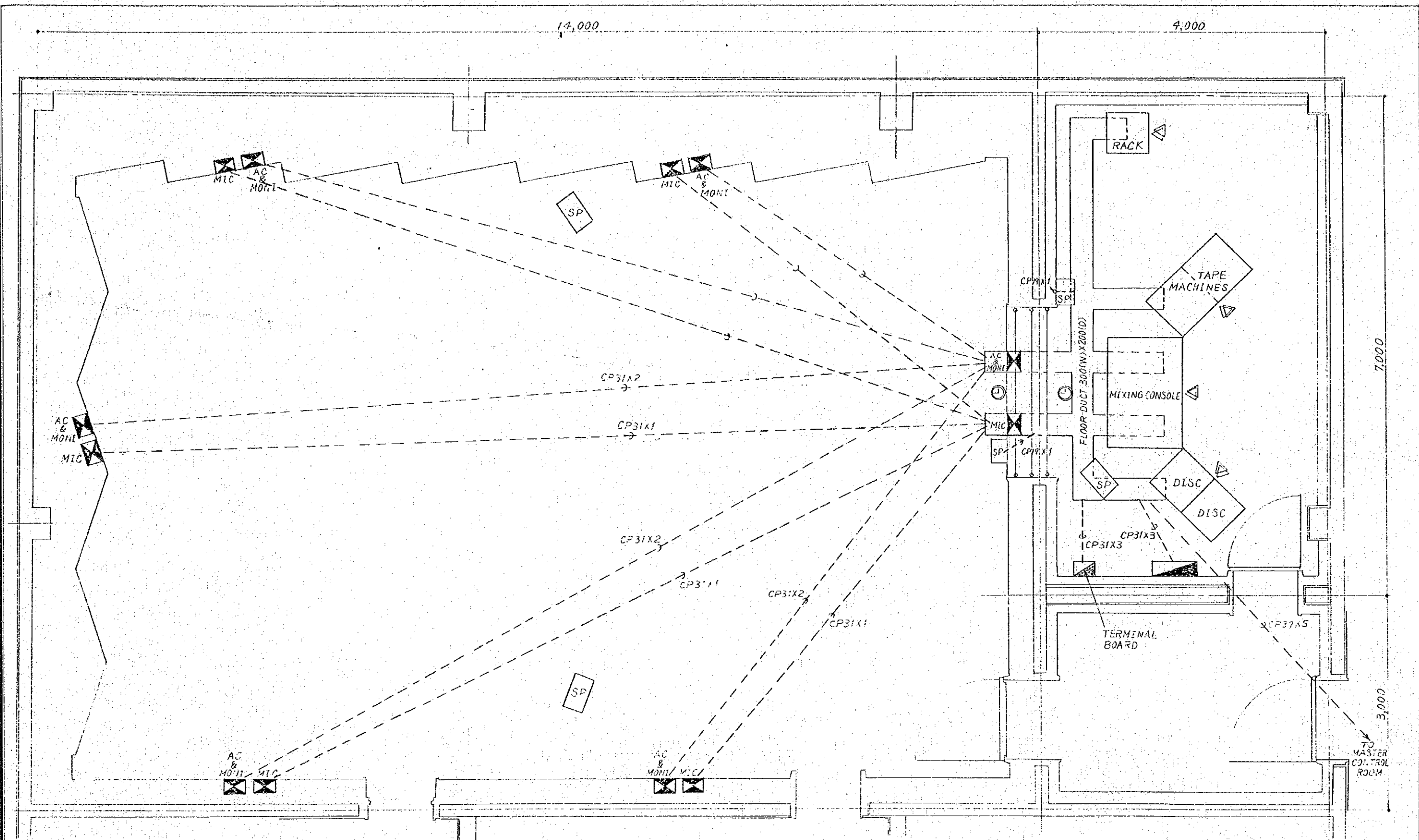
- 7KVA EMERGENCY LIGHT (1)
- 3KVA " " (2)
- 3KVA " " (3)
- 6KVA " " (4)
- 2KVA
- 1KVA
- 1KVA

MC NFB TO DIMMY LOAD



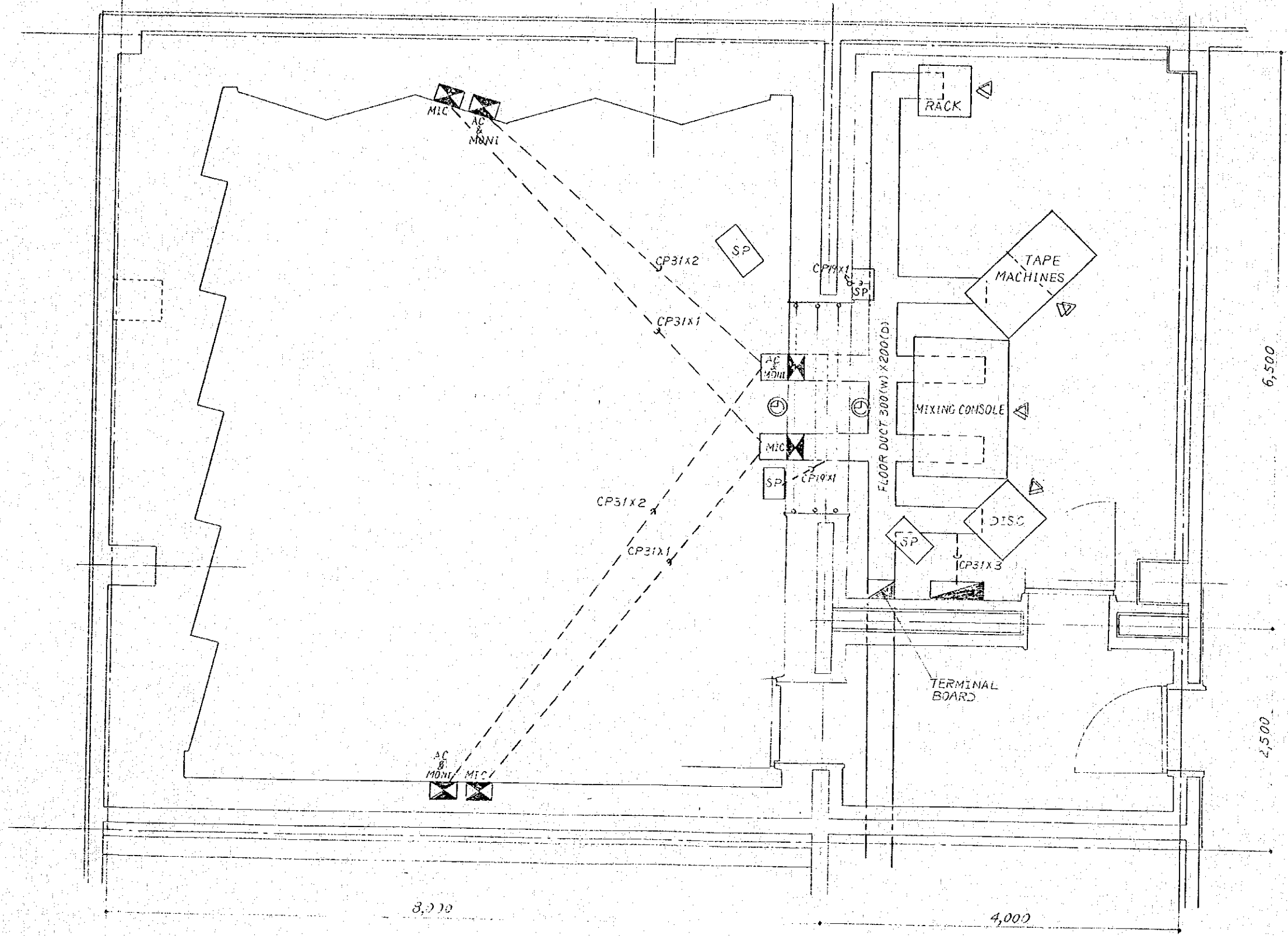
DC LAMP

THE ESTABLISHMENT PROGRAMME OF MEDIUM WAVE RADIO BROADCASTING NETWORK IN THE KINGDOM OF NEPAL	
KATHMANDU STUDIO CENTRE	DRAWING NO. KS-006
SCHEMATIC DIAGRAM OF POWER SUPPLY	DATE JAN. 1951

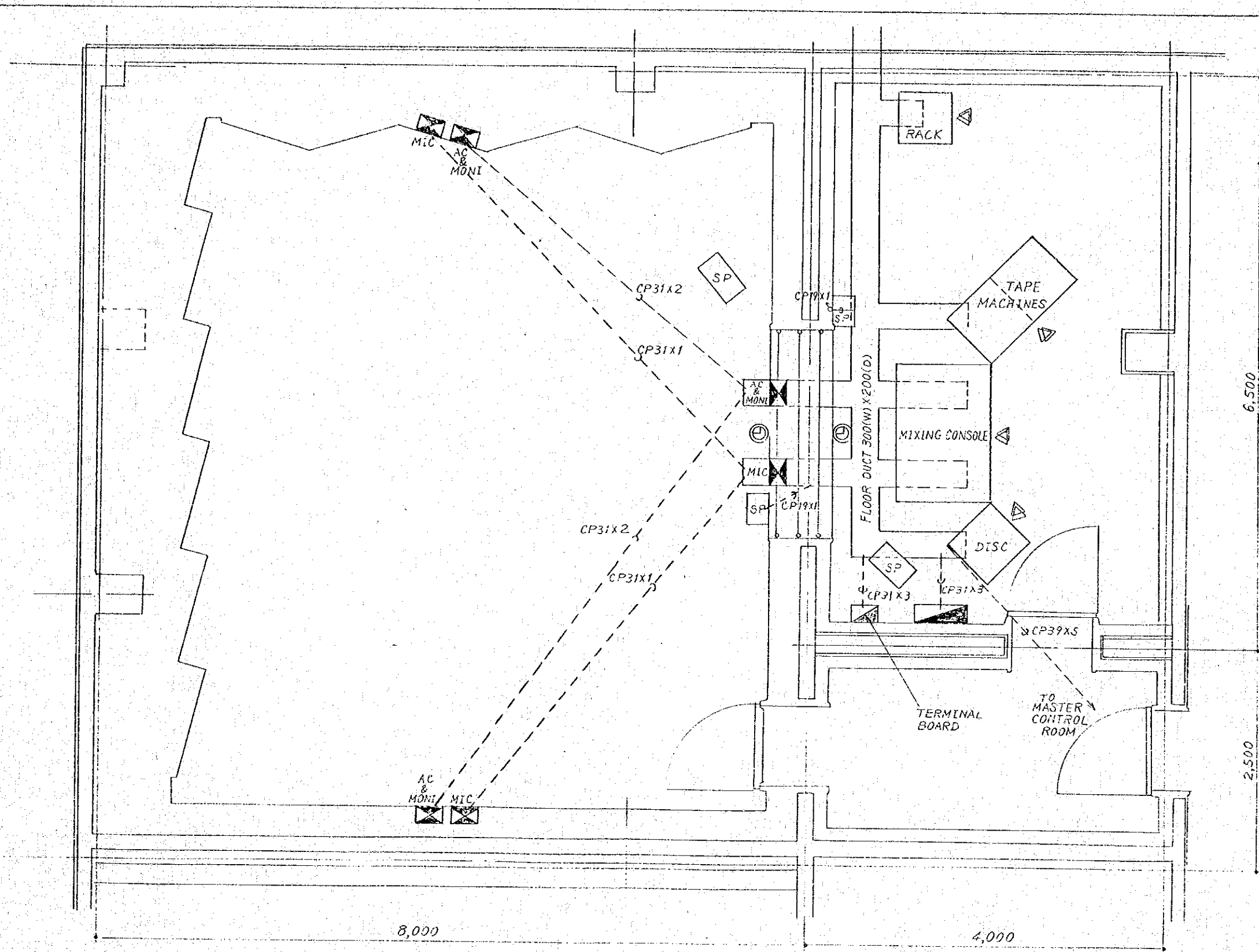


THE ESTABLISHMENT PROGRAMME OF MEDIUM WAVE
 RADIO BROADCASTING NETWORK IN THE KINGDOM OF NEPAL

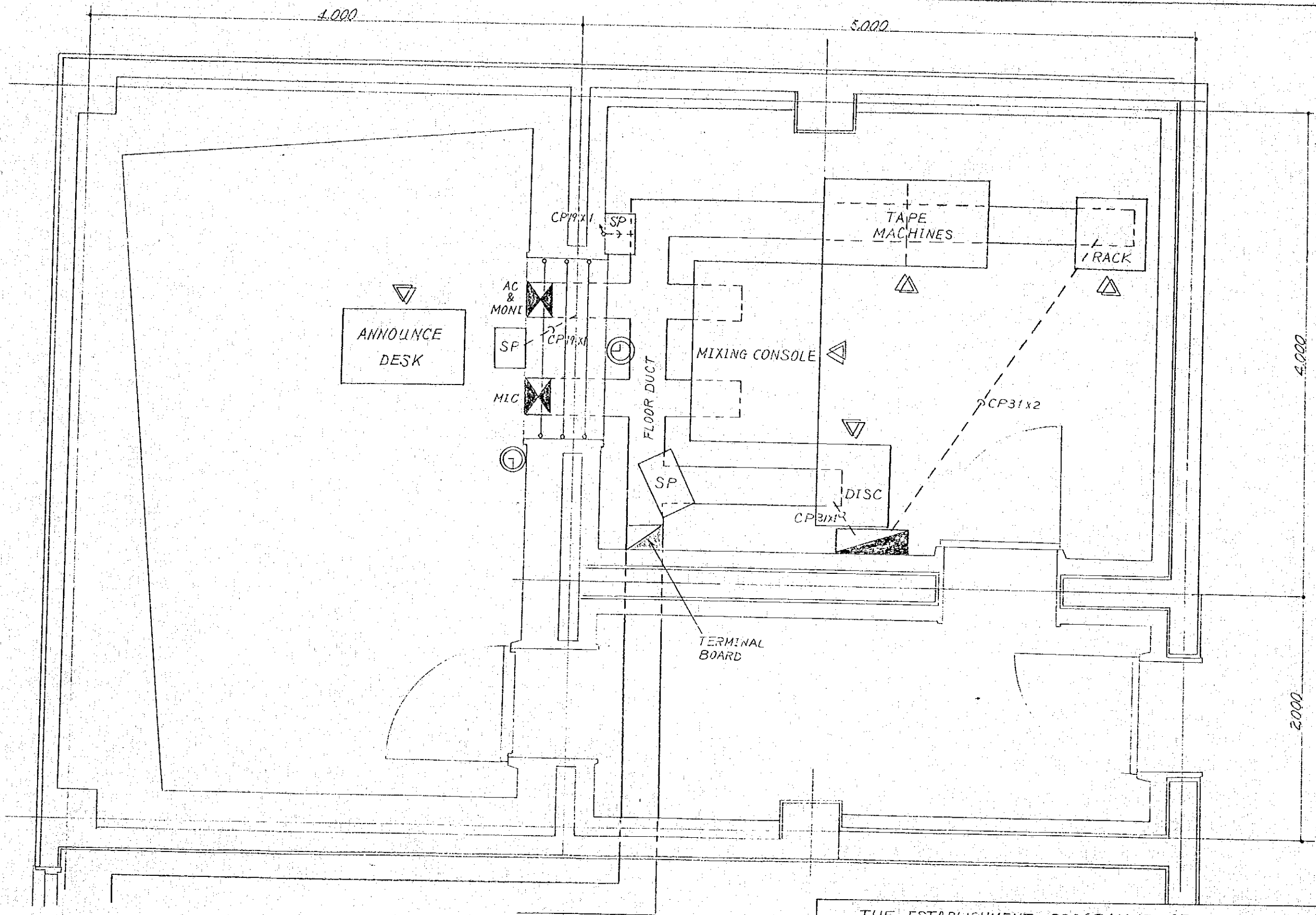
KATHMANDU STUDIO CENTRE	DRAWING NO. KS-007
FLOOR LAYOUT OF MUSIC STUDIO	DATE JAN. 1981



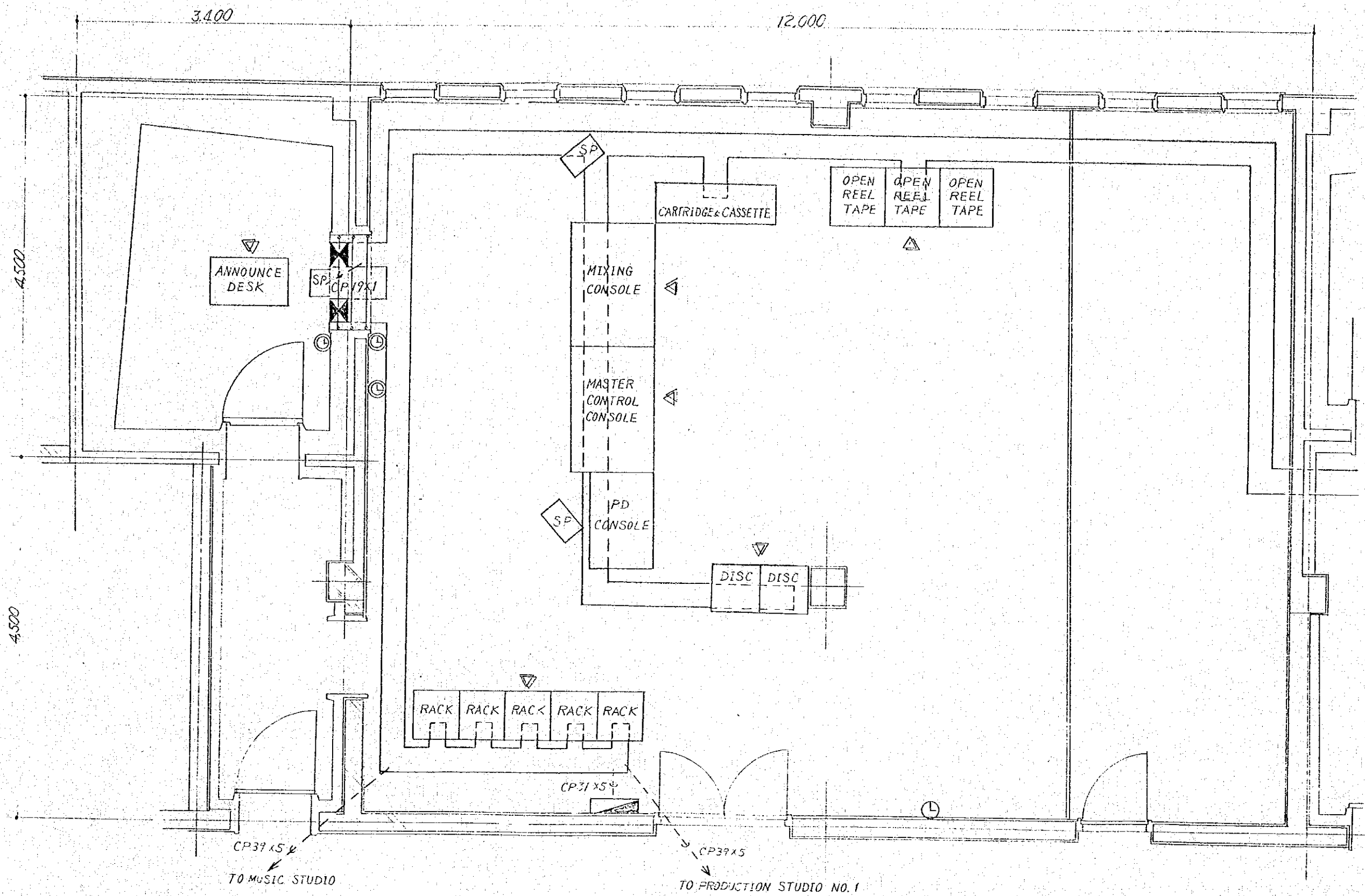
THE ESTABLISHMENT PROGRAMME OF MEDIUM WAVE RADIO BROADCASTING NETWORK IN THE KINGDOM OF NEPAL	
KATHMANDU STUDIO CENTRE	DRAWING NO. KS-008
FLOOR LAYOUT OF PRODUCTION STUDIO NO. 1	DATE JAN. 1981



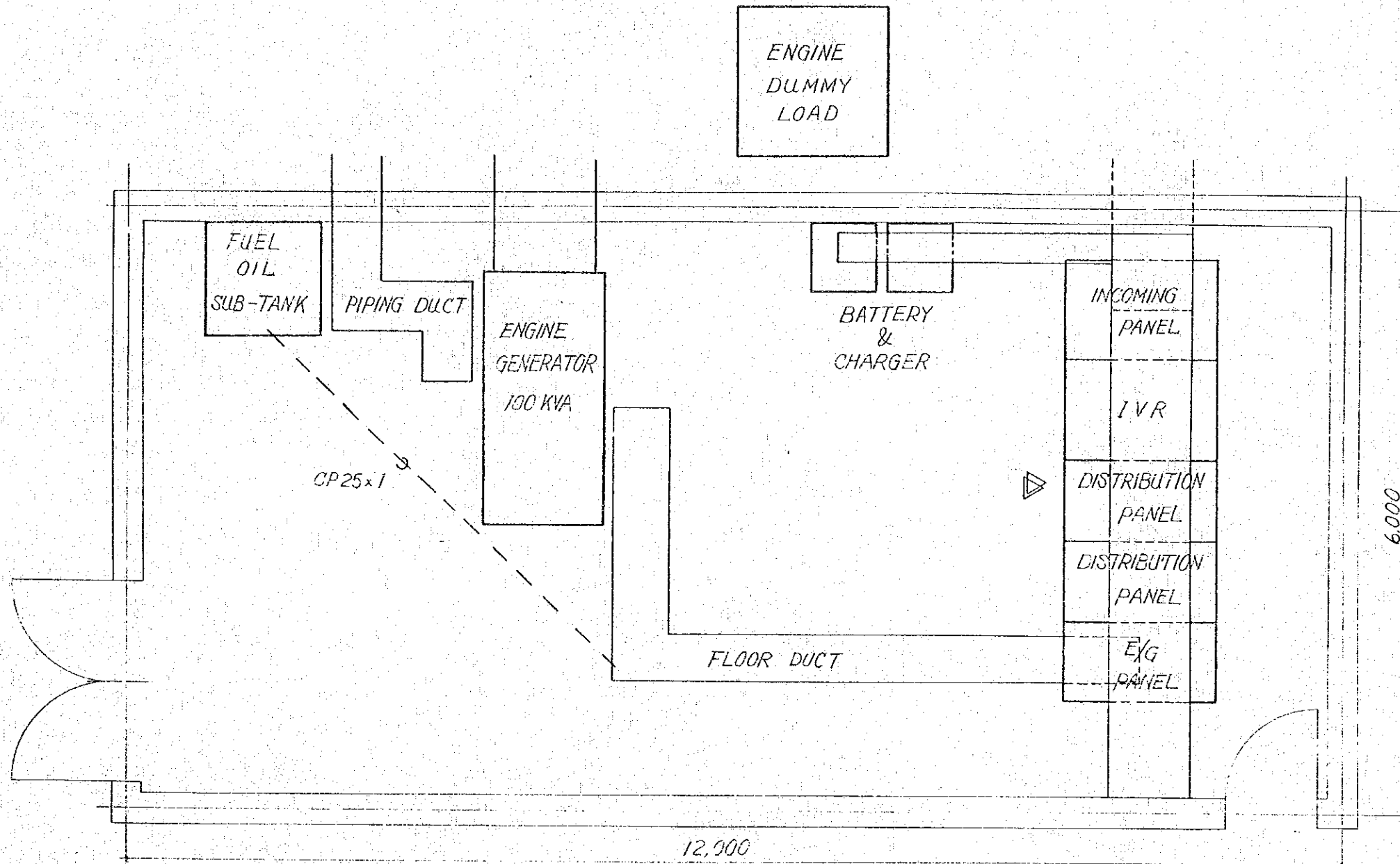
THE ESTABLISHMENT PROGRAMME OF MEDIUM WAVE RADIO BROADCASTING NETWORK IN THE KINGDOM OF NEPAL	
KATHMANDU STUDIO CENTRE	DRAWING NO. KS-009
FLOOR LAYOUT OF PRODUCTION STUDIO No. 2	DATE JAN. 1991



THE ESTABLISHMENT PROGRAMME OF MEDIUM WAVE RADIO BROADCASTING NETWORK IN THE KINGDOM OF NEPAL	
KATHMANDU STUDIO CENTRE	DRAWING NO. KS-010
FLOOR LAYOUT OF TALK STUDIO	DATE JAN. 1981

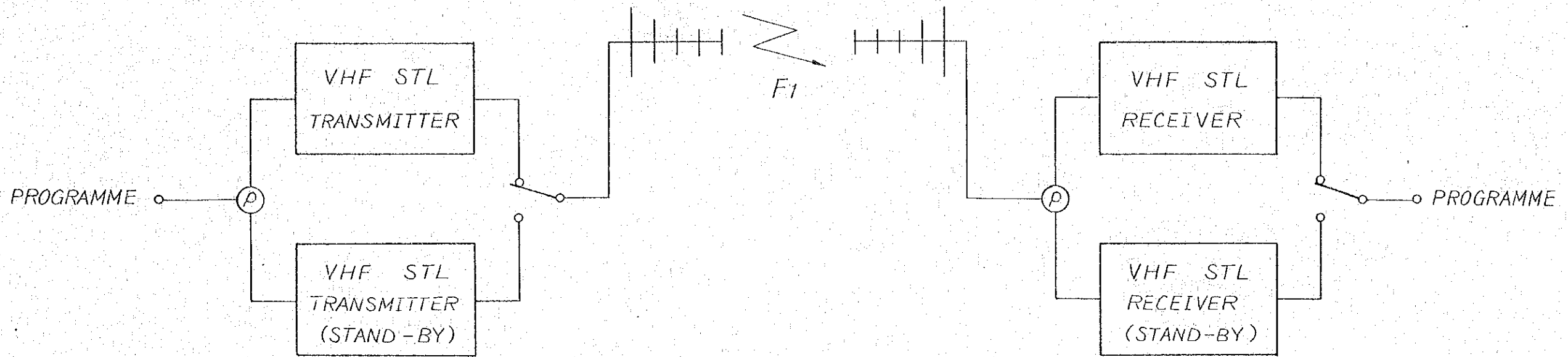


THE ESTABLISHMENT PROGRAMME OF MEDIUM WAVE RADIO BROADCASTING NETWORK IN THE KINGDOM OF NEPAL	
KATHMANDU STUDIO CENTRE	DRAWING NO. KS-011
FLOOR LAYOUT OF MASTER CONTROL ROOM	DATE JAN. 1981

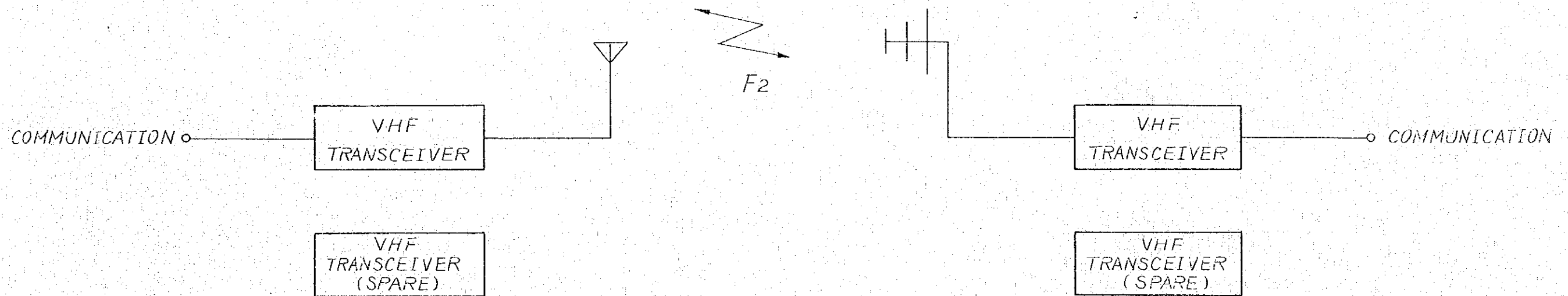


THE ESTABLISHMENT PROGRAMME OF MEDIUM WAVE RADIO BROADCASTING NETWORK IN THE KINGDOM OF NEPAL	
KATHMANDU STUDIO CENTRE	DRAWING NO. KS - 012
FLOOR LAYOUT OF POWER ROOM	DATE JAN. 1981

PROGRAMME TRANSMISSION LINK (STL)



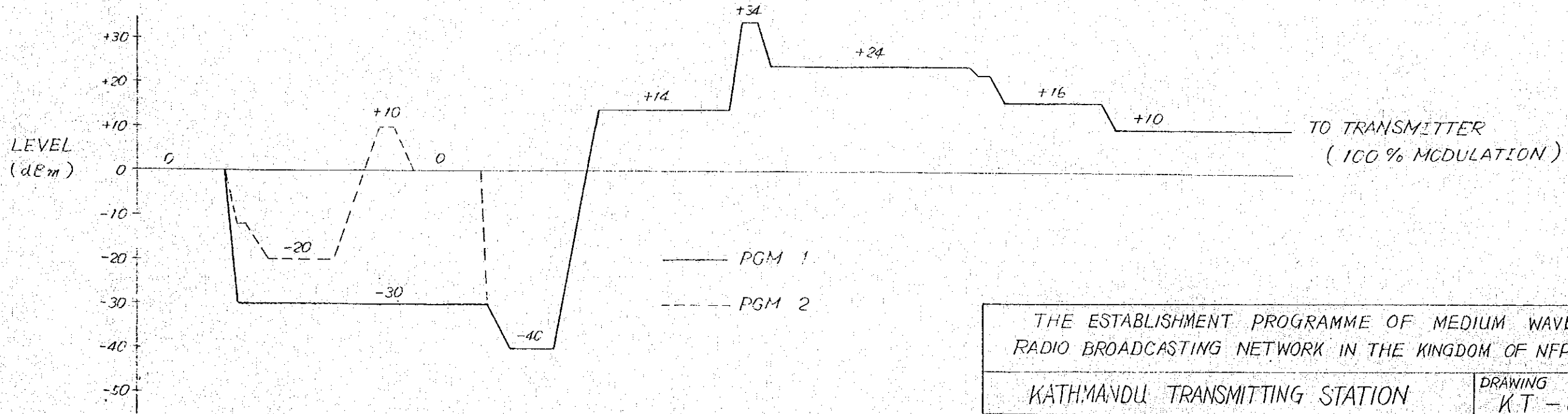
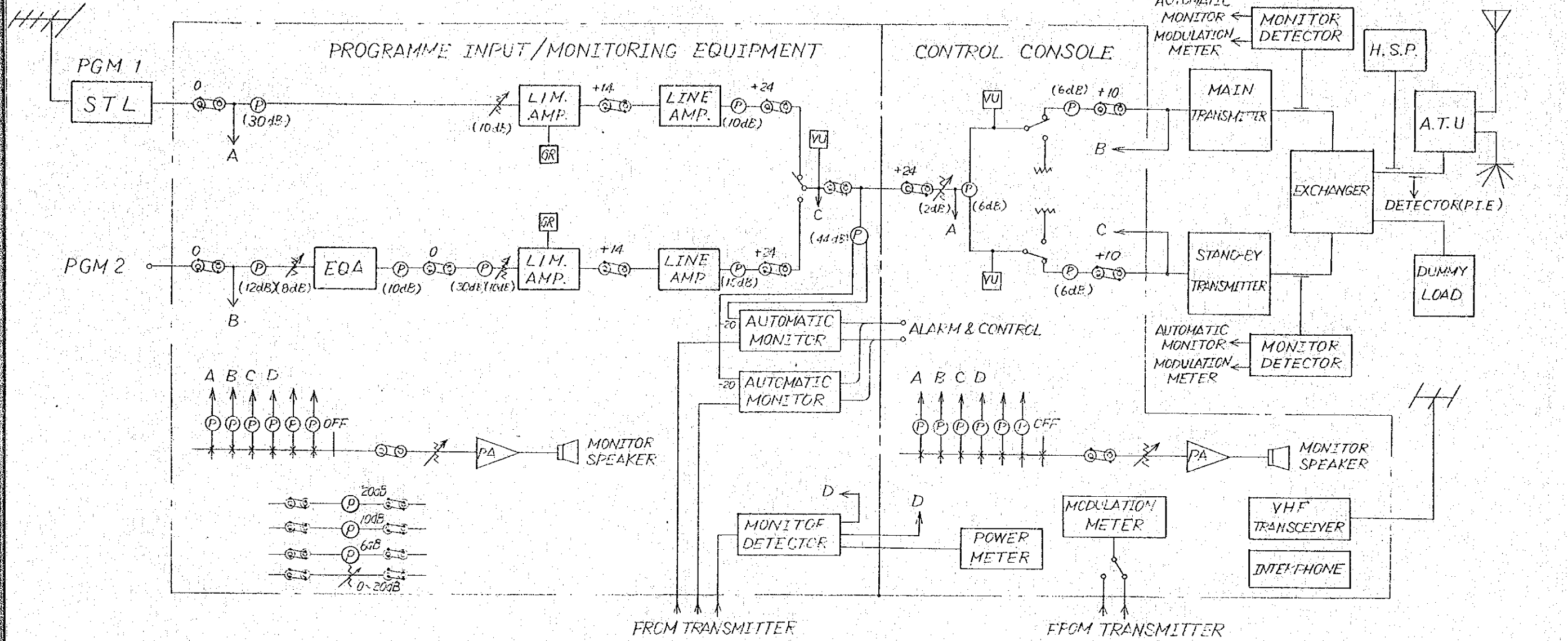
COMMUNICATION LINK



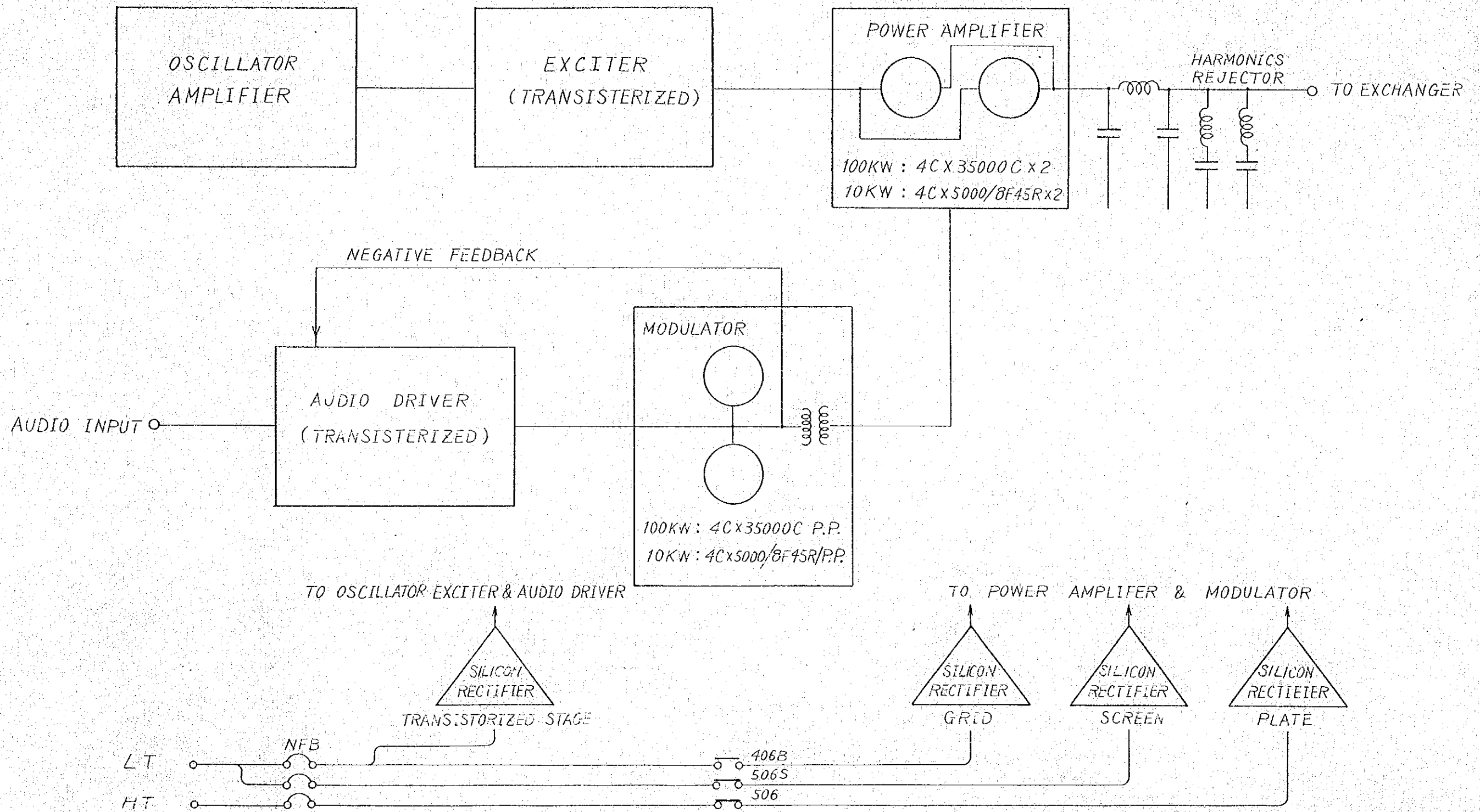
[KATHMANDU STUDIO CENTRE] ← 5.8 Km → [KATHMANDU TRANSMITTING STATION]

THE ESTABLISHMENT PROGRAMME OF MEDIUM WAVE RADIO BROADCASTING NETWORK IN THE KINGDOM OF NEPAL	
KATHMANDU STUDIO CENTRE	DRAWING No. KS-013
SCHEMATIC DIAGRAM OF COMMUNICATION LINK	DATE JAN. 1981

FROM STUDIO CENTER



THE ESTABLISHMENT PROGRAMME OF MEDIUM WAVE RADIO BROADCASTING NETWORK IN THE KINGDOM OF NEPAL	
KATHMANDU TRANSMITTING STATION	DRAWING NO. KT-001
SCHEMATIC DIAGRAM OF KATHMANDU TRANSMITTING STATION	DATE JAN. 1981



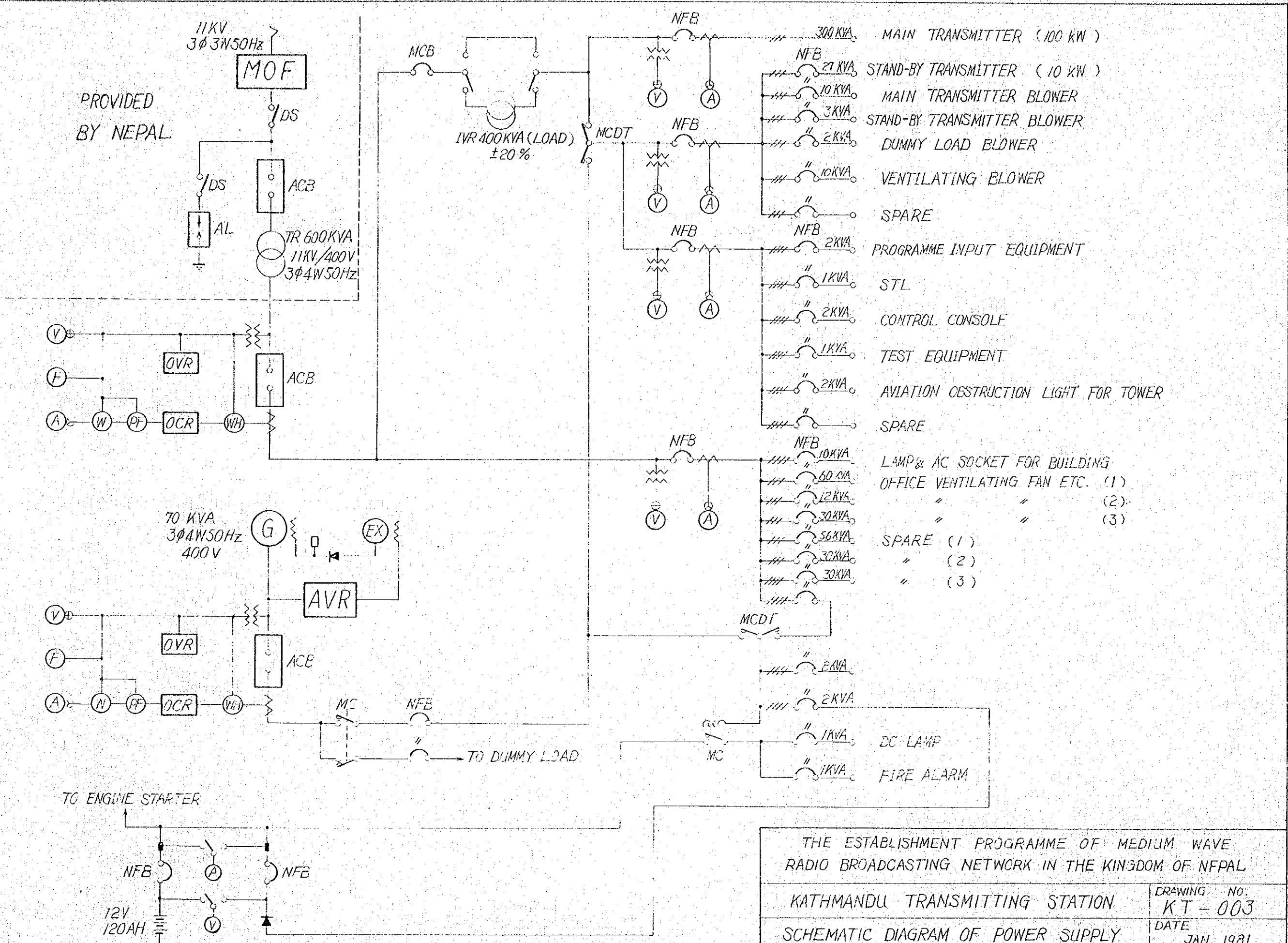
THE ESTABLISHMENT PROGRAMME OF MEDIUM WAVE
 RADIO BROADCASTING NETWORK IN THE KINGDOM OF NEPAL

KATHMANDU/POKHARA TRANSMITTING STATION

SCHMATIC LIAGRAM OF TRANSMITTER

DRAWING No.
 KT/PT-002

DATE
 JAN. 1981



- 300 KVA MAIN TRANSMITTER (100 KW)
- 27 KVA STAND-BY TRANSMITTER (10 KW)
- 10 KVA MAIN TRANSMITTER BLOWER
- 3 KVA STAND-BY TRANSMITTER BLOWER
- 2 KVA DUMMY LOAD BLOWER
- 10 KVA VENTILATING BLOWER
- SPARE
- 2 KVA PROGRAMME INPUT EQUIPMENT
- 1 KVA STL
- 2 KVA CONTROL CONSOLE
- 1 KVA TEST EQUIPMENT
- 2 KVA AVIATION OBSTRUCTION LIGHT FOR TOWER
- SPARE
- 10 KVA LAMP & AC SOCKET FOR BUILDING
- 60 KVA OFFICE VENTILATING FAN ETC. (1)
- 12 KVA " " (2)
- 30 KVA " " (3)
- 56 KVA SPARE (1)
- 30 KVA " (2)
- 30 KVA " (3)

- 2 KVA
- 1 KVA DC LAMP
- 1 KVA FIRE ALARM

THE ESTABLISHMENT PROGRAMME OF MEDIUM WAVE RADIO BROADCASTING NETWORK IN THE KINGDOM OF NEPAL	
KATHMANDU TRANSMITTING STATION	DRAWING NO. KT-003
SCHEMATIC DIAGRAM OF POWER SUPPLY	DATE: JAN. 1981