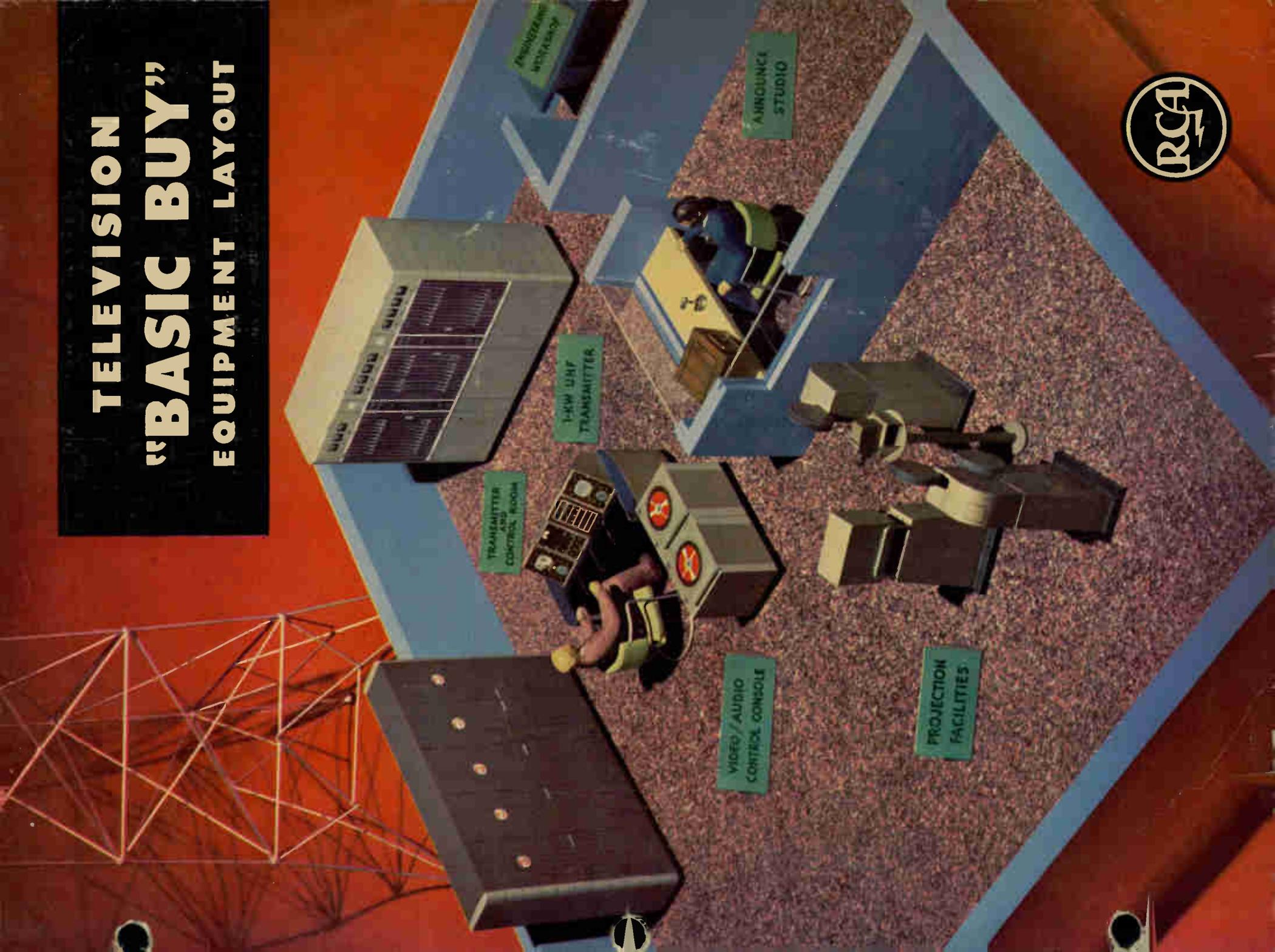


TELEVISION "BASIC BUY" EQUIPMENT LAYOUT



RCA "BASIC BUY" EQUIPMENT

OUTSTANDING FEATURES

- Reduces Investment in Equipment and Manpower to Minimum—Yet Makes Steady Income Possible!
- Does the Most with Least Equipment—Handles up to Four Different Types of Programs.
- Makes Possible Small, Compact, Yet Efficient Layout — Reduces "Housing-Facilities" Investment.
- Employs Only RCA TV Units of "Matched" Design and Appearance—Easy to Add "Matching" Equipment Later.
- Basic Buy Permits You to Start Small and Expand as Income Grows.
- Includes Unique "Audio/Video" Control and Switching Console for "Centralized" Operation.
- "One-Man" Operation is Possible—All Controls for Programming Accessible from 4-Section "Basic-Buy" Console.
- Increase to High Power May Be Made Later by Use of RCA "Add-on" Amplifiers.
- Studio Facilities Are Easily Added by Use of RCA Equipment of "Matched" Design and Appearance.
- All "Basic Buy" Equipment of Same Quality and Design as That Employed by Larger Stations.

THE "BASIC BUY" — WHAT IT DOES

The RCA Basic Buy Equipment is specifically designed to answer the needs of Broadcasters planning Television Program operations which can be handled with a *minimum investment in equipment and technical manpower*.

Of course, the simplest and most inexpensive type of television station to equip would be one that plans to use network programs entirely. However, in such a station there would be no means for presenting essential local advertising material. For assuring a steady income, a more practical station is one which can present local film programs interspersed with network, or one using film alone (dependent upon the station's location with respect to network facilities).

Therefore, RCA's "Basic Buy" incorporates all the facilities needed to handle TV shows received from the network, providing station identification and locally inserted commercials as required. And, in addition, it *offers an independent source of revenue* . . . by including film and slide facilities for handling *local shows and spots*.

With the minimum equipment supplied in the "Basic

Buy", four different types of programs are handled.

- (1) Network programs
- (2) Local film program from 16mm projectors
- (3) Local slide projection programs
- (4) Test pattern from monoscope

The advertising or commercial function can be of local or network origin.

THE "BASIC BUY" PACKAGE

The Basic Buy station facilities include:

- A transmitter and an antenna (necessary for any TV station),
- Monitoring equipment (required by FCC),
- Film and slide equipment (for local programs—and extra income),
- Monoscope camera for reproducing a test pattern of known quality (important for good station operation and as an aid to receiver adjustment),
- A control console that saves operator time and effort (it enables one man to run the station during many "on-air" periods).

... FOR TV STATIONS PLANNING TO START OPERATION WITHOUT LIVE TALENT STUDIOS

The equipment "package" required to perform programming operations consists essentially of an RCA type TK-20 film camera chain, TM-5A Master Monitor, two TP-16, 16mm film projectors, a slide projector, multiplexer, TK-1B monoscope camera, TG-1A studio synchronizing generator, TC-4A audio-video switching console, two stabilizing amplifiers, two turntables, microphones, transmitter, antenna, audio equipment, and miscellaneous accessories such as power supplies. The block diagram illustrates the major equipments incorporated in the "Basic Buy".

The transmitter furnished in the "Basic Buy" package will, of course, depend upon the individual station's power and frequency requirements (UHF or VHF). All other equipment items in the package with the exception of antenna and transmission line remain the same for any TV station, regardless of power (UHF or VHF).

Matched design and appearance of equipment units make it easy to add facilities later without discarding any part of the basic package. All basic equipment is identical to that used in the largest TV stations.

"BASIC BUY" STATION LAYOUTS

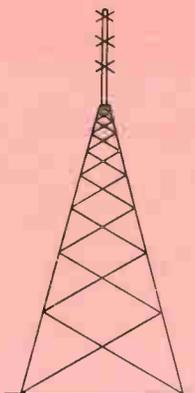
The building or "plant" space required to accommodate the "Basic Buy" station equipment varies with:

- (1) The size and power of the transmitter,
- (2) The particular arrangement of individual units,
- (3) The space or clearance planned between units,
- (4) The number of rooms desired,
- (5) Plans for future expansion.

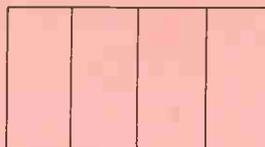
Because of these variables in planning, considerable difference in TV station arrangement is expected, ranging from very compact to roomy layouts.

Two possible layouts for the "Basic Buy" equipment are illustrated on the following pages with photos and floor plans. They indicate the approximate "building" space to house the equipment needed to get "on-the-air". In each layout, the major location of the following components is illustrated.

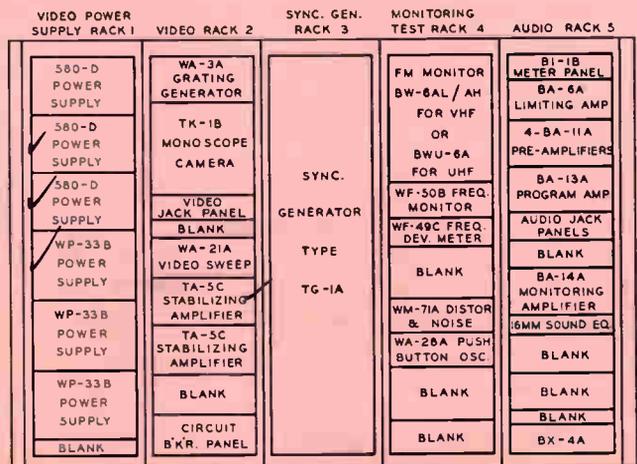
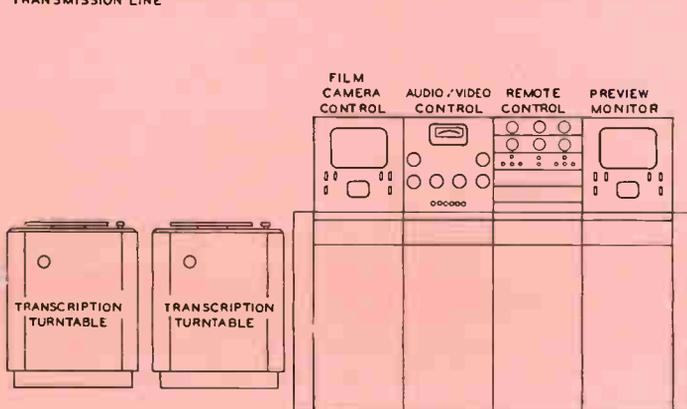
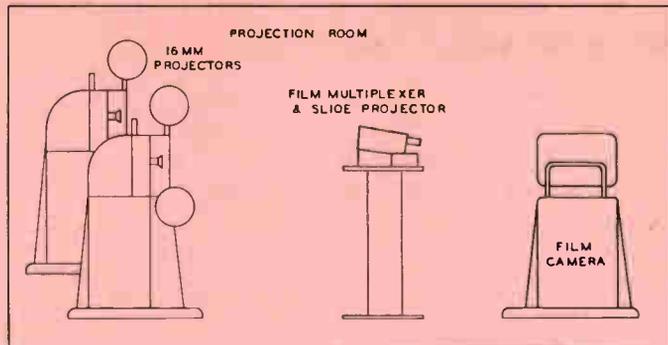
1. Transmitter, including vestigial side-band filter, antenna diplexer and dummy load.
2. Rack equipment consisting of:
 - (a) Sound, visual frequency, modulation monitors.
 - (b) Synchronizing generator.
 - (c) DC power supplies.



ANTENNA AND TRANSMISSION LINE



TRANSMITTER



1-KW "BASIC BUY" STATION LAYOUT

- (d) Audio input equipment such as pre-amplifiers, limiting and monitoring amplifiers.
- (e) Video input equipment such as stabilizing amplifiers, video jacks, monoscope camera and test equipment.

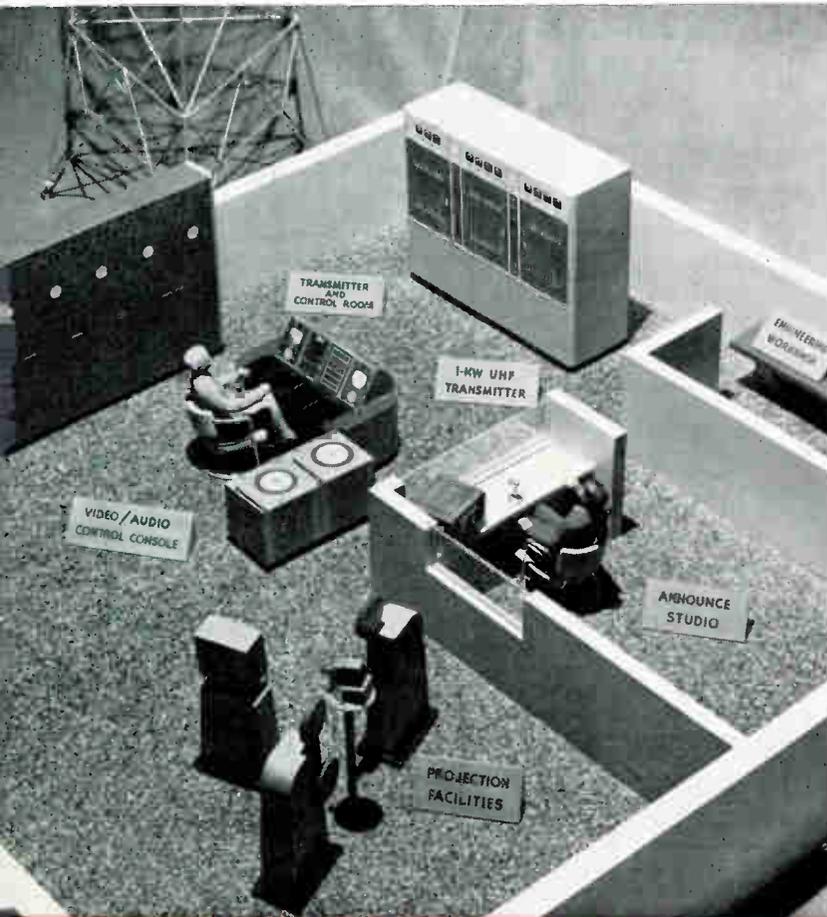
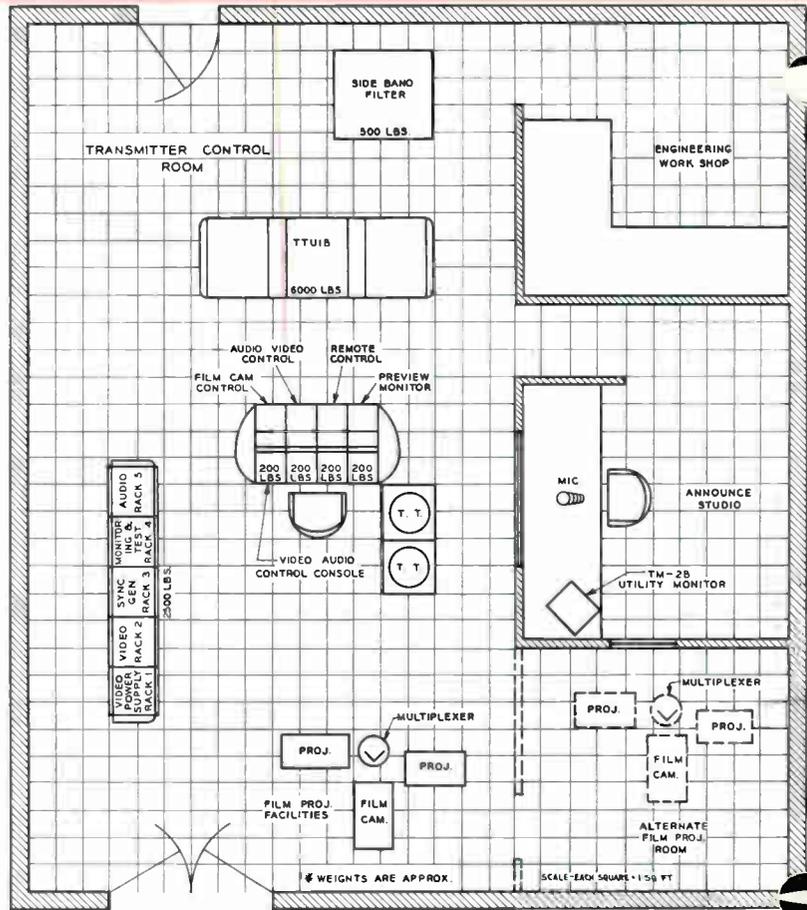
3. Audio-Video control desk, designed to handle the switching and fading of six video signals and their corresponding audio counterparts.

A model layout and companion floor plan of a "Basic Buy" station employing a 1 KW UHF transmitter is shown in the illustrations on this page. For cities where UHF channels are available, this setup with the RCA UHF antenna provides powers up to 20 KW ERP.

THE 1-KW PLAN

This compact, yet workable arrangement of equipment occupies a space of only 900 square feet (see floor plan) and provides network, film, spot and station break facilities. In this particular layout, the "in-line" control console is centrally located in front of the transmitter, with equipment racks at left, turntables, and announce studio at right—and film facilities

Floor plan (in one-foot squares) for the 1 KW UHF station showing the approximate size and location of major components in a total area of about 900 square feet.



ties at the rear. Many broadcasters may prefer to enclose the film projectors, multiplexer and film camera in a separate room. This can be done without increasing the space requirements and is recommended from an operational standpoint.

Broadcasters planning to increase UHF power at a later date with RCA 10 KW "add-on" amplifiers should plan to allow more space—or decrease the size of the announce studio and engineering workshop shown in the floor plan. Another possible arrangement would be to locate the announce booth in one corner of the film room if a single combination room is desired. The announce booth is equipped with a TM-2B utility monitor and located (see photo at left) so that "visual cue" can be given from the control console position.

THE 10-KW PLAN

The model layout shown on the next page is somewhat similar to that of the 1 KW UHF layout. The major difference, of course, is in the use of the 10 KW transmitter and associated components which result in a slightly larger room. The photo (at the right) shows the use of an RCA 10 KW VHF transmitter. However, the over-all layout size is equally

Model layout of a "Basic Buy" station employing a 1 KW UHF transmitter. With the film facilities and announce booth provided, network, film, slides, spots and remotes are possible.

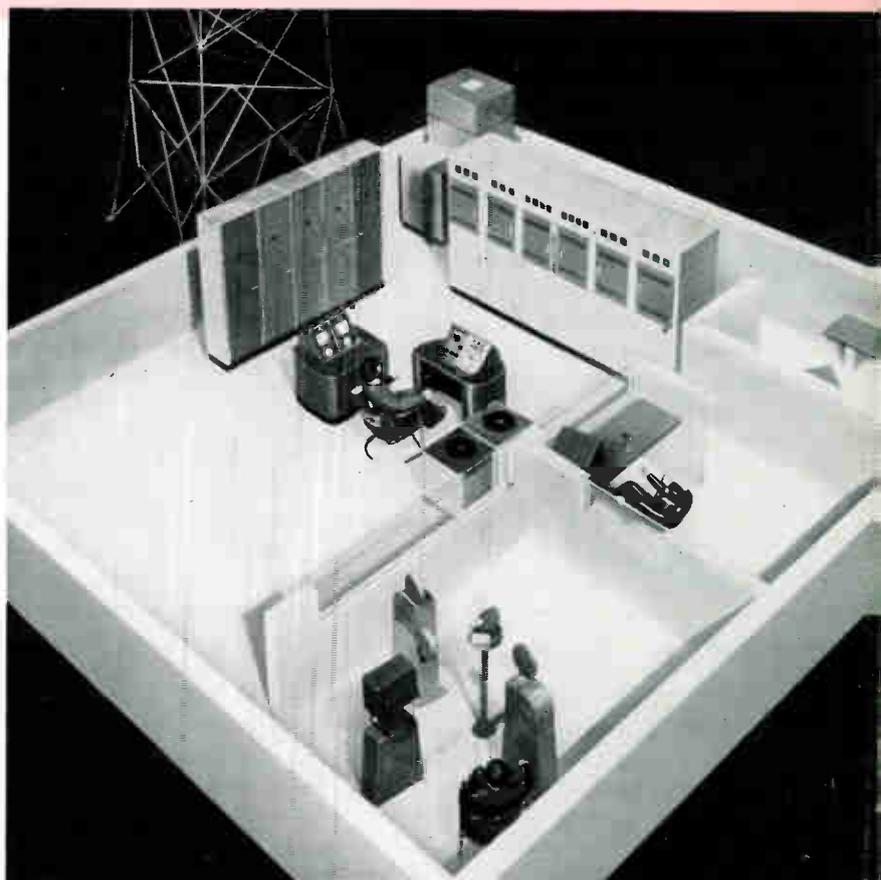
10-KW "BASIC BUY" STATION LAYOUT

suitable for accommodating the RCA 10 KW UHF transmitter which is approximately 30 inches longer. This can be accomplished, as shown in the floor plan below, by use of a slightly different arrangement for the Engineering Workshop.

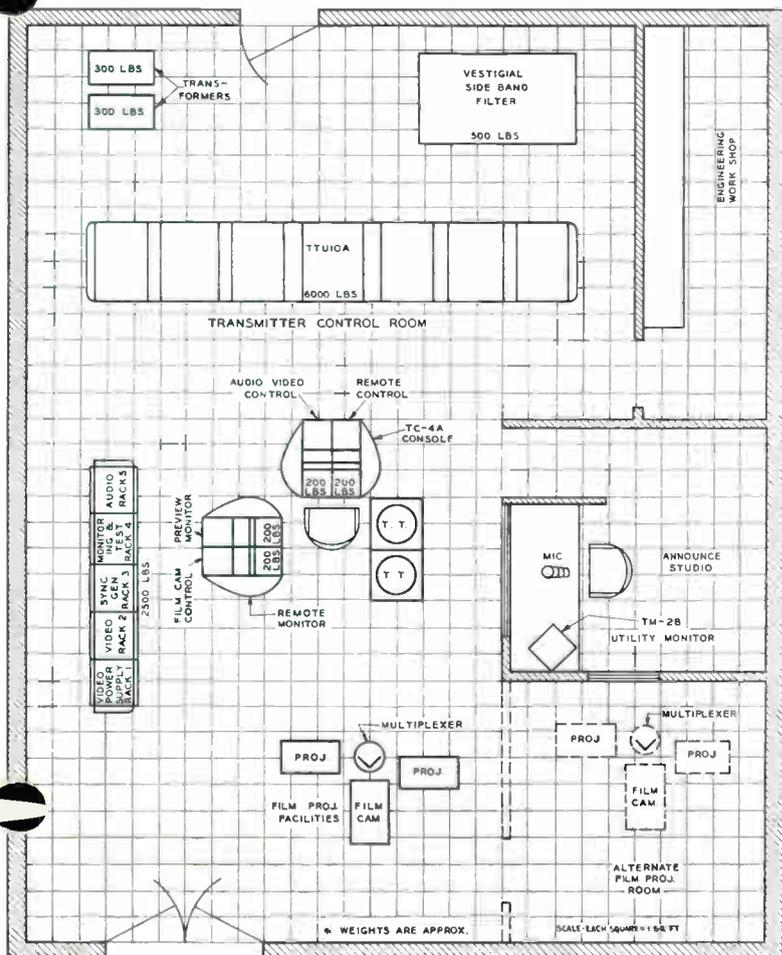
In either case, all items in this layout are accommodated in an over-all space of approximately 1100 square feet. The side-band filter and diplexer can be located directly behind the transmitter as shown in the floor plan—or at the left behind the transmitter, as shown in the photo. The 10-KW transmitter employed in this arrangement provides power up to 100 KW, ERP, by utilizing an RCA high-gain antenna.

Film facilities are provided for station breaks and spots during network hours. Although not shown in the photo, the announce booth may be located separately or combined with the film room as described in the 1 KW (UHF) layout.

Another variation from the 1 KW (UHF) layout is the block "U" arrangement of the control console and



Model layout of a 10 KW "Basic Buy" station (UHF or VHF). In this set-up, the Console is separated to form a "U" arrangement—with monitors at left and the TC-4A sections in center, and turntables at right.



turntables. In this setup, the operator faces the TC-4A Audio/Video console and transmitter. Monitors and equipment racks are easily accessible at the left and turntables at the right.

CENTRALIZED CONTROL CONSOLE

Smooth and successful performance is made possible to a large extent by the proper grouping of important controls to make them easily accessible to the operator. This is accomplished by using the new RCA TC-4A Audio-Video switching console (which consists of two standard console sections) plus one film camera control and one TM-5A master monitor mounted in standard console sections. These four standard RCA console sections are arranged "in-line" (with the TC-4A sections in the center) to form the simple unified console of the "Basic Buy". This console, when coupled with a film camera control, forms the nucleus of a complete television station operation, and may be used by small and large stations, as described later.

FILM CAMERA CONTROL SECTION

The section at the extreme left of the "Basic Buy" Console (see photo and panel layout) is required

Floor plan of the 10 KW UHF layout showing alternate "U" console arrangement and location of components. All equipment is located in a space of approximately 1100 square feet. (Each square represents approximately one foot.)

COMBINATION AUDIO-VIDEO CONSOLE PR

to house film camera control unit. In the upper part of this console section is a TM-5A master monitor which has a ten-inch picture tube and a five-inch CRO tube. In the lower portion of the housing is the film camera control chassis. It supplies the blanking and driving signals to the film camera and reproduces a picture generated by the film camera. Controls for the adjustment of picture levels and shading are located on the sloping desk panel of this console section. The film camera control is located at the left end of the TC-4A console for convenience of operation. However, the unit may be removed from this position if desired, and placed at another location without disturbing the functions of the remainder of this switching console.

THE TC-4A CONSOLE SECTIONS

The RCA TC-4A console is composed of the two center console sections of the "Basic Buy" four-section operating console which provides audio and video controls and monitoring facilities. All major console control panel circuits are brought out to coaxial connectors at the rear or bottoms of the panels to provide access for test, wiring or maintenance.

This console, plus the rack mounted equipment consisting of associated power supplies, amplifiers, jack panel and transmitter, may form a complete television station operation where network programs are available.

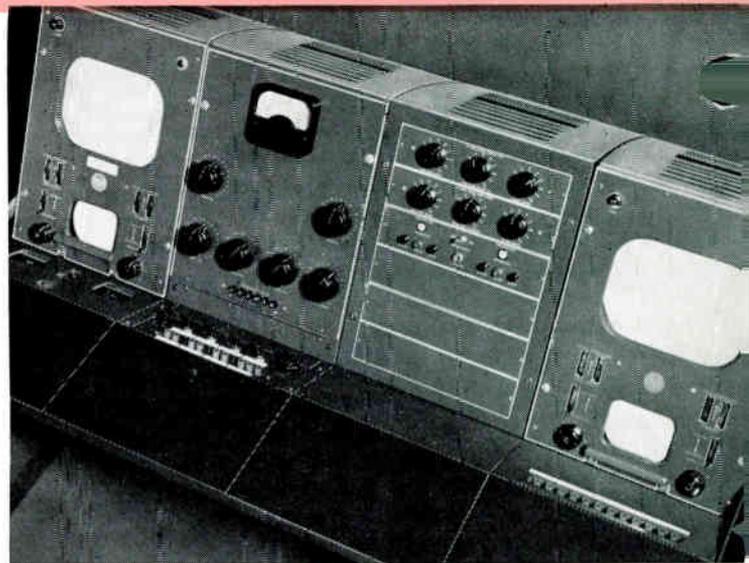
With the addition of a synchronizing generator, a film camera chain, slide projector, film projector, turntables, and microphones, this station is self sufficient in that it can produce entertainment programs and commercial advertising. By adding other equipments, the programming facilities are expanded to produce more complex shows.

The two center console sections that comprise the TC-4A console, reading from left to right, are:

1. Audio control with combined audio-video program switching.
2. Remote control section.

TC-4A AUDIO-VIDEO SECTION

On the sloping portion of the audio-video section (second from left) (see photograph above) are located the program switching controls composed of one row of key switches for audio control, one row of pushbuttons for video control, a video clip-fader control and a tie switch for combining audio and video switching controlled from the video pushbuttons.



Close-up view of the four console sections and associated control panels which are located on turrets and on sloping desk surfaces.

The combined audio-video switching is obtained by using relays. This system provides for eight inputs of audio and eight of video with one output for each.

AUDIO CONTROL OF "BASIC BUY"

The audio portion of the "Basic Buy" provides for eight inputs to four mixer positions. Audio key switches provide means of selecting any input such as turntable, projector, studio, remote or network. The inputs are relay operated so they can be controlled by the video selector switch when desired, simplifying the audio-video combination switching. At the same time, it allows the audio and video switches to be closed together for convenient operation, and keeps the actual circuits apart to prevent crosstalk. The relays are interlocked to prevent accidental doubling of the circuits.

A selector switch allows a monitor amplifier and speaker to check most of the audio circuits including transmitter input and output, and turntable cueing. It is visualized that a separate cueing amplifier and speaker may be used in most applications.

One rack of equipment is needed in addition to the panel. This houses the pre-amplifiers; program, monitor, and limiting amplifiers; and power supplies. Jacks are provided for all amplifier inputs and outputs.

VIDEO CONTROL OF "BASIC BUY"

The video pushbuttons also provide a means of selecting any one of eight signals, such as film, studio, monoscope, remotes or network for transmission. In addition, by using the "lock-in" switch on the left

IDES EFFICIENT, CENTRALIZED SWITCHING

side of the panel, certain audio and video signals may be switched simultaneously by means of the video pushbuttons. When switching from local to remote or network signal, contacts on the switches provide automatic removal of local synchronizing signal.

On the right side of the switching panel is a remote "clip-fade" control. By means of this control, the signal may be faded to black, at which time an instantaneous switch may be made to a new signal, and then the new signal faded up.

Lap dissolves or superpositions cannot be made with this arrangement. However, with the flexibility of the RCA unit-type construction, other RCA equipments to accomplish this type of programming may be added.

TC-4A REMOTE CONTROL SECTION

The other section of the TC-4A console (third from left) houses all the remote controls that are necessary to provide finger tip operation of those equipments that are necessary for simple basic programming.

The two top panels control stabilizing amplifiers. One of these amplifiers is for network or remote signals and the second is for controlling any signal to the transmitter. The second stabilizing amplifier is also used for mixing the "sync" and video signals since some form of local signal is necessary for advertising purposes.

The third panel in this control is the projector switching control. Three groups of pushbuttons and tally lights are located on this panel, the groups at either end composed of three buttons and a separate lamp are identical while one pushbutton and toggle switch are located in the center. The center toggle switch is for turning the power on a slide projector. The pushbutton directly under the switch has a tally light built in and may be used to switch slides in the slide projector.

The tally light at the top of the panel at either end indicates when control has been transferred from the film projector to this remote operating position. The pushbutton on the left of the group is used to start the projector and has a built-in tally light to indicate that the machine is running. The center button of the group with built-in tally light is for transferring sound and picture from one machine to the other, when two film projectors are used. The third button is for stopping the projector, and does not have a built-in light

Another group of buttons at the other end of the panel is identical and performs the same functions for a second projector

Further controls may be added in the blank panel positions for additional film projectors, stabilizing amplifier, power switching, monoscope camera, or placed at various operating positions in the station where means of transferring control to other points is provided for by jack panels.

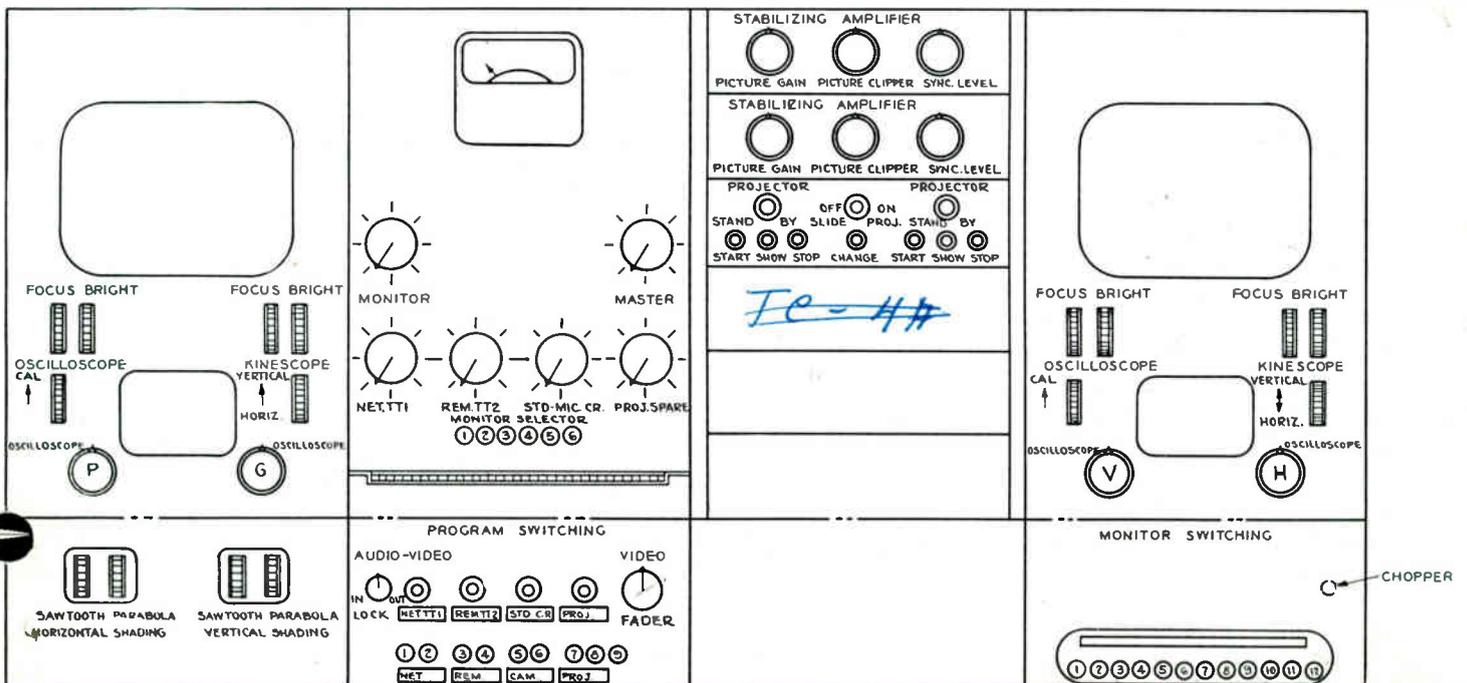
Detailed Panel Layout of the "Basic Buy" Audio-Video Control Console.

TC-4A
MAST-11
PREVIEW MONITOR

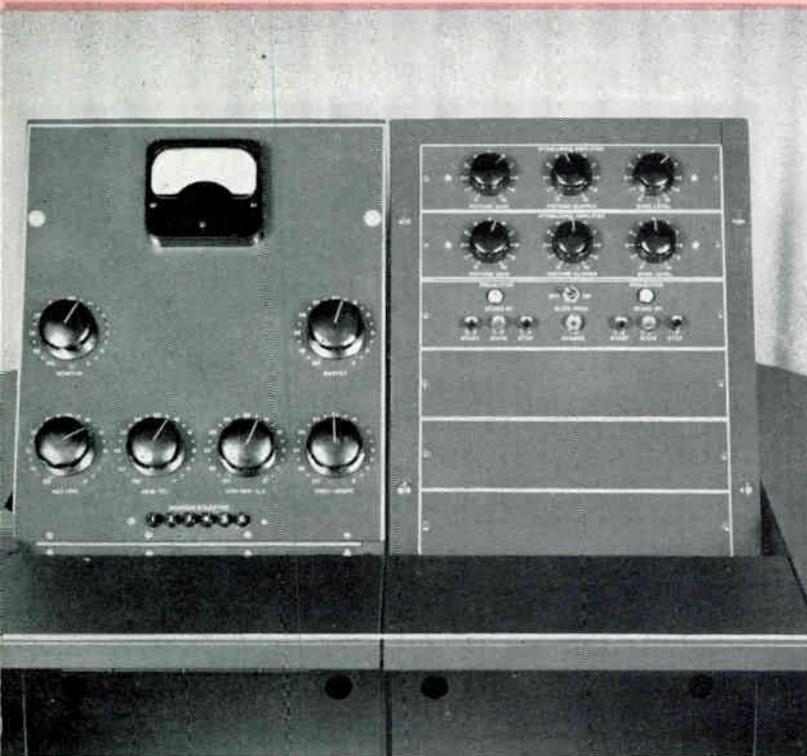
FILM CAMERA CONTROL

AUDIO/VIDEO CONTROL

REMOTE CONTROL



"ONE-MAN" OPERATION POSSIBLE



Close-up view of the "Audio/Video" and "Remote Control" panels which together form the "TC-4A" equipment.

A pushbutton for chopper control is provided to select a calibrating signal for indicating percentage of picture modulation to the transmitter.

If only the TC-4A is purchased (without TM-5B Master Monitor), the pushbutton switches for monitor selection are mounted in the sloping desk surface of the "Remote Control" console section.

TM-5A MASTER MONITOR

The fourth section at the extreme right-hand end of the console contains an RCA TM-5A master monitor, and on the sloping desk surface are located the pushbutton switches for monitor selection. Each switch is mechanically interlocked. Provision is made for twelve inputs and one output. This unit may be used to monitor all the necessary transmitter signals in addition to serving as a preview monitor for remotes and networks. In the normal position, this monitor will register the line signal.

"ONE-MAN" OPERATION

With the arrangement shown, the "Basic Buy" console could easily be operated by one man. All of the necessary controls for programming are centralized

in the 4-section "Basic Buy" console except the audio and video jack panels which are located in nearby equipment racks.

Even with the addition of one or two film camera controls, it would also be possible for one person to handle both network and film programs. However, many stations will prefer to use two operators, and two are easily accommodated with the proposed arrangements.

APPLICATION FLEXIBILITY

The "Basic Buy" console or any section of it may be used for various purposes at locations remote from the transmitter. For example, the preview monitor and audio console could be used in a studio control room or remote position along with the other video equipment.

Similarly, the remote control section could be used in a studio control room or master control.

Some applications of the TC-4A switching console are:

1. Small station operation (no studio) with all equipment at transmitter site.
2. Larger station operation with TC-4A console and film equipment at the transmitter location or master control for "off hour" use when the studios are in rehearsal or shut down.
3. Large station operation same as 2 except that the transmitter is remote from the studios.

Because of the unit construction of this console, it is possible to obtain any of the individual console housings for uses at various locations. For example, the audio console may be used at remote points and the monitoring console may be used in the studio control room if and when studios are added. Also, it is possible to set up the four console sections as individual, dual-unit consoles to suit a particular floor plan or operating arrangement (see "10-KW" floor plan).

The future addition of a single live talent studio to any "Basic Buy" station is quite easy to accomplish. Since a television studio may be considered as simply another signal source such as remotes or network—studio arrangements can be planned separately from the "Basic Buy" facilities.

EQUIPMENT FOR "BASIC BUY"

Qty.	MI Number	TRANSMITTER AND ANTENNA EQUIPMENT Description
		Transmitter (UHF or VHF), including 2 Sets Crystals, 1 Set Tubes, Sideband Filter.
		Set of Operating Spare Tubes.
		Antenna (UHF or VHF), including Diplexer.
		Sleet Melting Equipment.
		Dummy Load.
55	19113-1 or 19089	Transmission Line, 3/8", 51 ohm, flanged, 20-foot sections (VHF or UHF).
50	19113-14	Dual Spring Hangers.
1	On Application	Signal Demodulator Type BW-4AL/AH or WM-20A for VHF, and BWU-4A for UHF.

Qty.	MI Number	FILM CAMERA, PROJECTORS AND CONTROL EQUIPMENT Description
1	26910-A	TK-20A Film Camera Equipment including Film Camera and Pedestal. Balance of equipment supplied, such as Film Camera Control, Housing and TM-5A Master Monitor become part of overall "Basic Buy Console."
2	26930-C	TP-16D 16mm Projectors.
1	26131	Automatic Slide Projector.

Qty.	MI Number	"BASIC BUY CONSOLE" EQUIPMENT Description
1	26970	TC-4A Audio/Video Switching Console, consisting of Audio Panel, Audio/Video Switching Panel, Monitor Switching Panel and Remote Control Panels for Projector Switching and Stabilizing Amplifiers.
1	26266-B	Console Housing for "On Air" Monitor.
1	26135-B	TM-5A Master Monitor (incl. Tubes and Blower).
1	26265-1	Left-hand "Finish" End Section.
1	26265-2	Right-hand "Finish" End Section.

Qty.	MI Number	RACK EQUIPMENT NO. 1 - POWER SUPPLIES Description
1	30951-D84	BR-84D Cabinet Rack and Rear Door (less Side Panels and Front Door).
3	21523-C	580-D Power Supply for Stabilizing Amplifiers and Monoscope.
3	26085-B	WP-33B, Power Supplies for Master Monitor, Film Monitor and Film Camera.
1	4570-A	Terminal Board Bracket.
1	4568	Power Terminal Block.
1	4591-B	Blank Panel-3 1/2".

Qty.	MI Number	NO. 2 - VIDEO RACK EQUIPMENT Description
1	30951-D84	BR-84D Cabinet Rack and Rear Door (less Side Panels and Front Door).
1	26960-A	TK-1B Monoscope Camera (incl. Tubes).
2	26160-C	TA-5C Stabilizing Amplifiers (incl. Tubes).
1	26244	Video Jack Panel.
8	19118	Video Jack Plug.
4	7233-4	Video Jack Cord-24".
1	4593-A	Blank Panel-7".
1	30003-A	WA-3A Grating Generator.
1	30021-A	WA-21A Video Sweep Generator.
1	4591-B	Blank Panel-3 1/2".
1	4570-A	Terminal Board Bracket.
1	4568	Terminal Block.
1	26240	Circuit Breaker Panel.
3	26764-1	Circuit Breaker, 10 amp.
1	26764-2	Circuit Breaker, 20 amp.
1	26764-3	Circuit Breaker, 40 amp.

Qty.	MI Number	NO. 3 - SYNCHRONIZING GENERATOR Description
1	26915	TG-1A Studio Synchronizing Generator complete with Tubes and Cabinet Rack (incl. Doors and End Shields).

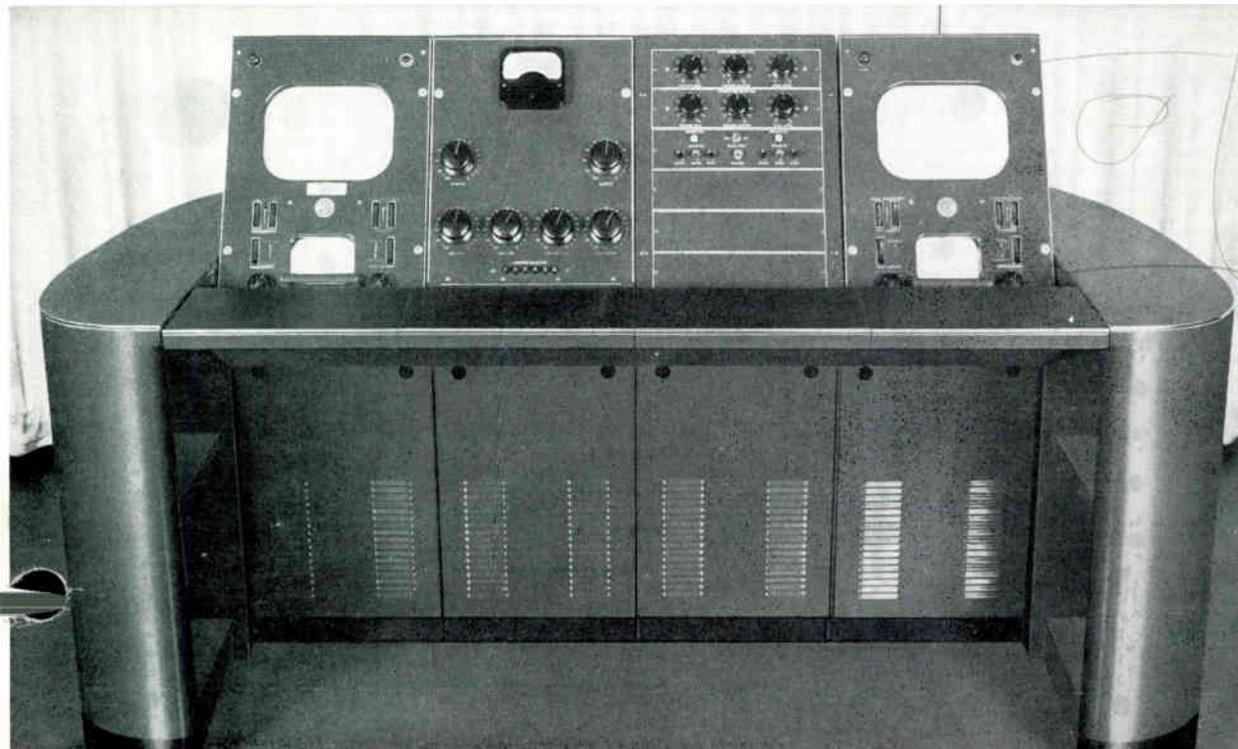
Qty.	MI Number	NO. 4 - TRANSMITTER MONITORS Description
1	30951-D84	BR-84D Cabinet Rack and Rear Door.
1		Type BW-6AL/AH or BWU-6A Frequency and Modulation Monitor with one set of tubes.
1	30059-A	WF-50B Carrier Frequency Monitor.
1	30049-B	WF-49C Frequency Deviation Meter.
1	30071-A	WM-71A Distortion and Noise Meter.
1	30028-A	WA-28A Push Button Oscillator.
1	4595-B	Blank Panel-10 1/2".
1	4593-A	Blank Panel-7".
1	4570-A	Terminal Board Bracket.
1	4568	Terminal Block.

Qty.	MI Number	NO. 5 - AUDIO RACK Description
1	30951-D84	BR-84D Cabinet Rack and Rear Door (less Side Panels and Front Door).
1	11225	BA-6A Limiting Amplifier (incl. Panel).
1	11599	Shelf for BA-6A.
1	11289	Tube Kit for BA-6A.
1	11388	BI-1B Meter Panel.
2	11645	BJ-24 Double Jack Panel.
2	11647-2	Jack Mat.
4	4652-B	Patch Cords, 2 foot.
4	11231	BA-11A Pre-Amplifiers for Turntable and Microphone Circuits.
1	11288	Tube Kits for BA-11A.
1	11233	BA-13A Program Amplifiers for Network and Microphone Circuits.
1	11266	Tube Kits for BA-13A.
1	11234	BA-14A Monitoring Amplifier.
1	11267	Tube Kit for BA-14A.
1	11305-D	BX-1E Power Supply.
1	11262	Tube Kit for BX-1E.
3	11598/11599	BR-2A Panel and Shelf.
1	11309	Relay Power Supply.
1	4570-A	Terminal Board Bracket.
1	26313	Sound Equalizer (for 16mm Projector).
1	4568	Power Terminal Block.
1	26581	Panel and Shelf for Sound Equalizer.
1	4569	Audio Terminal Block.
1	4591-B	Blank Panel-3 1/2".
1	4594-B	Blank Panel-8 3/4".
2	4592-B	Blank Panel-5 1/4".

Note: Cueing amplifier and speaker optional equipment.

Qty.	MI Number	MISCELLANEOUS EQUIPMENT Description
2	11801-B	70-D Turntables.
1	4045-C	77-D Microphone.
1	4092-D	91-B Desk Stand.
1	11411	LC-1A Speaker Mechanism.
1	11406	LC-5A Wall Baffle for MI-11411.
3	26298	TM-2B Utility Monitor.
3	26533	Speaker Accessory Kits for TM-2B.
1	26130	TP-1A "Preview" Slide Projector.
1	1311	RCA "400" Senior "Preview" Projector.

Qty.	MI Number	PORTABLE TEST EQUIPMENT Description
1		WV-97A Senior VoltOhmyst.
1		Techtronix 511-AD Oscilloscope.



View of the overall "Basic Buy" console complete with finished end sections, as normally used in the television station.

IT'S SIMPLE TO ADD STUDIO FACILITIES LATER



Studio Camera Control Unit consisting of TM-5A Monitor and Camera Control Chassis (MI-26055) mounted in Console Housing (MI-26266B).

RCA Studio Camera mounted on the TD-11A Tripod and TD-15A Dolly.

A typical single studio might be arranged by the addition of one studio camera chain, tripod and dolly and equipment rack for power supplies. The studio camera control unit may be added as a "fifth" section to the "Basic-Buy" console, in cases where the studio can be located as a part of, or adjacent to the "Basic Buy" transmitter room.

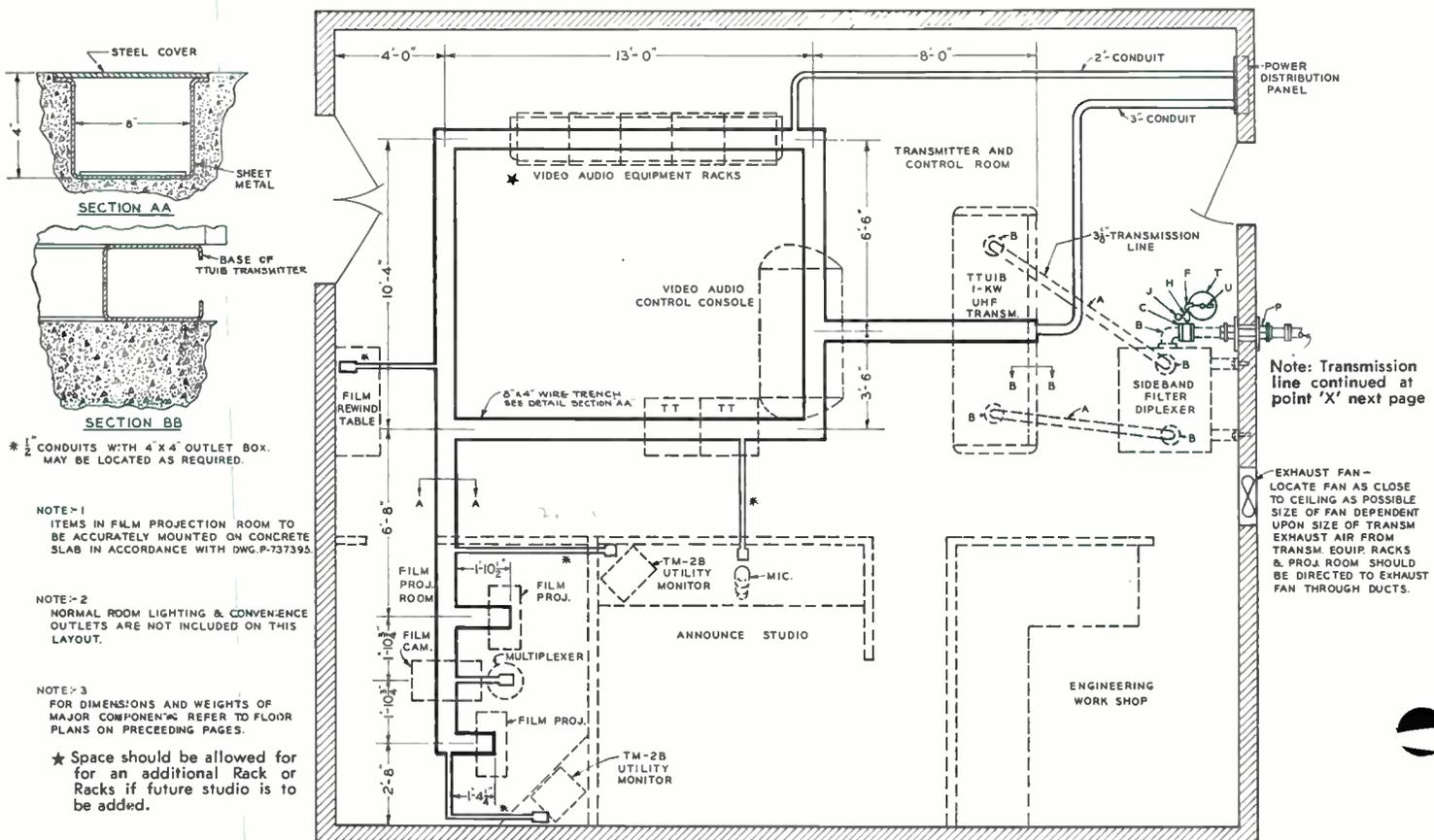
The facilities for the live-talent studio could be located as (1) a second floor of an existing building, (2) expansion of building at the same level, or (3) a studio remote from other facilities.

For more elaborate programming and where the studio location is remote from other facilities (as in (1) and (3) above) additional equipment is required. This would include additional studio cameras, TS-10A switching equipment and "on-air" monitor, audio console, sync generator, turntables.

Item	Quantity	Description
1	1	Studio Camera, Control Unit and Power Supplies (Type TK-10A)
2	1	Metal Tripod, TD-11, TD-15A Dolly and Friction Head (MI-26205)
3	1	Microphone Boom Stand (KS-4-A or MI-26574)
4	1	Rack containing power supplies
5	1	77-D Microphone

Refer to the "RCA Broadcast Equipment" catalog for a complete description of these items.

SUGGESTED "BASIC BUY" CONDUIT LAYOUT



TYPICAL TOWER TRANSMISSION LINE LAYOUT

TYPICAL INSTALLATION OF 3 1/8" UHF TRANSMISSION LINE ON TOWER, SINGLE LINE IS USED FOR TFU-24B, RCA UHF ANTENNA.

SYMBOL DESIGNATIONS

Symbol	Description	3 1/8" Dia. MI No.
A	TRANSMISSION LINE	19089-1
B	90° MITER ELBOW	19089-2
C	GAS STOP	19089-4
D	45° BEVELED ELBOW	19089-3
E	COPPER TUBING	19315-1
F	ELBOW FITTING	19315-2
G	NIPPLE	19315-9
H	TEE FITTING	19315-13
J	PRESSURE GAUGE	19315-14
K	FIXED HANGER	See Note 2
M	SPRING HANGER	See Note 1
N	LATERAL BRACE	19313-36
P	HORIZONTAL ANCHOR	19313-17
R	ROLLER ASSEMBLY	19313-35
S	SWIVEL HANGER	19313-37
T	NITROGEN TANK—Available locally	—
U	PRESSURE REGULATOR	19315-19

NOTE 1—For 3 1/8" line use MI-19313-20 through MI-19313-44.

NOTE 2—For 3 1/8" line use MI-19313-40 through MI-19313-44.

WHEN SHAPE OF TOWER CHANGES ADD HANGER SUPPORTS TO TOWER THE FOLLOWING BENDS ARE MAX. 6' BEND FOR 20' SECTION 3 1/8" LINE.

ANTENNA

SELECT ELBOW TO FIT AS REQUIRED

UPPER TWO HANGERS ARE FIXED TYPE.

SPACE SPRING HANGERS APPROX. 10 FEET APART

VIEW OF P

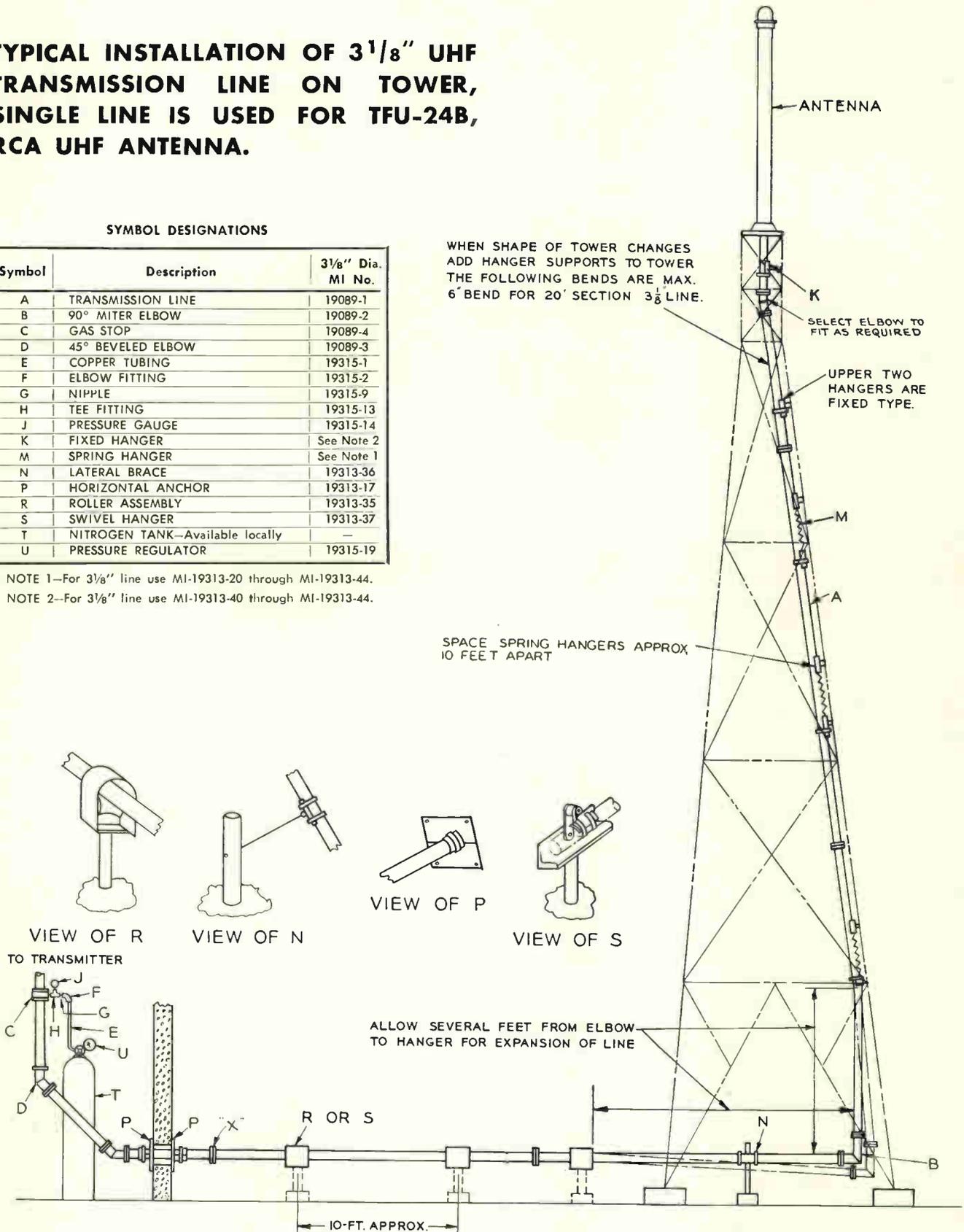
VIEW OF S

VIEW OF R
TO TRANSMITTER

VIEW OF N

ALLOW SEVERAL FEET FROM ELBOW TO HANGER FOR EXPANSION OF LINE

10-FT. APPROX.



RCA will be glad to submit information and quotations on antennas, transmission line and towers designed for broadcast station installations. Address all inquiries and orders to one of the field offices listed below. At each location you will find a specialist who is ready to help you.

RCA FIELD OFFICES

36 West 49th Street
NEW YORK 20, NEW YORK
Circle 6-4030

1907-11 McKinney Avenue
DALLAS 1, TEXAS
R-1371, 1372, 1373

718 Keith Building
CLEVELAND 15, OHIO
Cherry 1-3450

522-533 Forsyth Building
Forsyth and Luckie Streets, N.W.
ATLANTA 3, GEORGIA
Walnut 5946

221 West 18th Street
KANSAS CITY 8, MISSOURI
Victor 6410

1560 North Vine Street
HOLLYWOOD 28, CALIFORNIA
Hollywood 9-2154

John Hancock Building
200 Berkeley Street
BOSTON 34, MASSACHUSETTS

1355 Market Street
SAN FRANCISCO 3, CALIFORNIA
Hemlock 1-8300

666 North Lake Shore Drive
CHICAGO 11, ILLINOIS
Delaware 7-0700

1625 K Street, N.W.
WASHINGTON 6, D. C.
District 1260



BROADCAST EQUIPMENT SECTION

RADIO CORPORATION OF AMERICA

ENGINEERING PRODUCTS DEPARTMENT, CAMDEN, N. J.