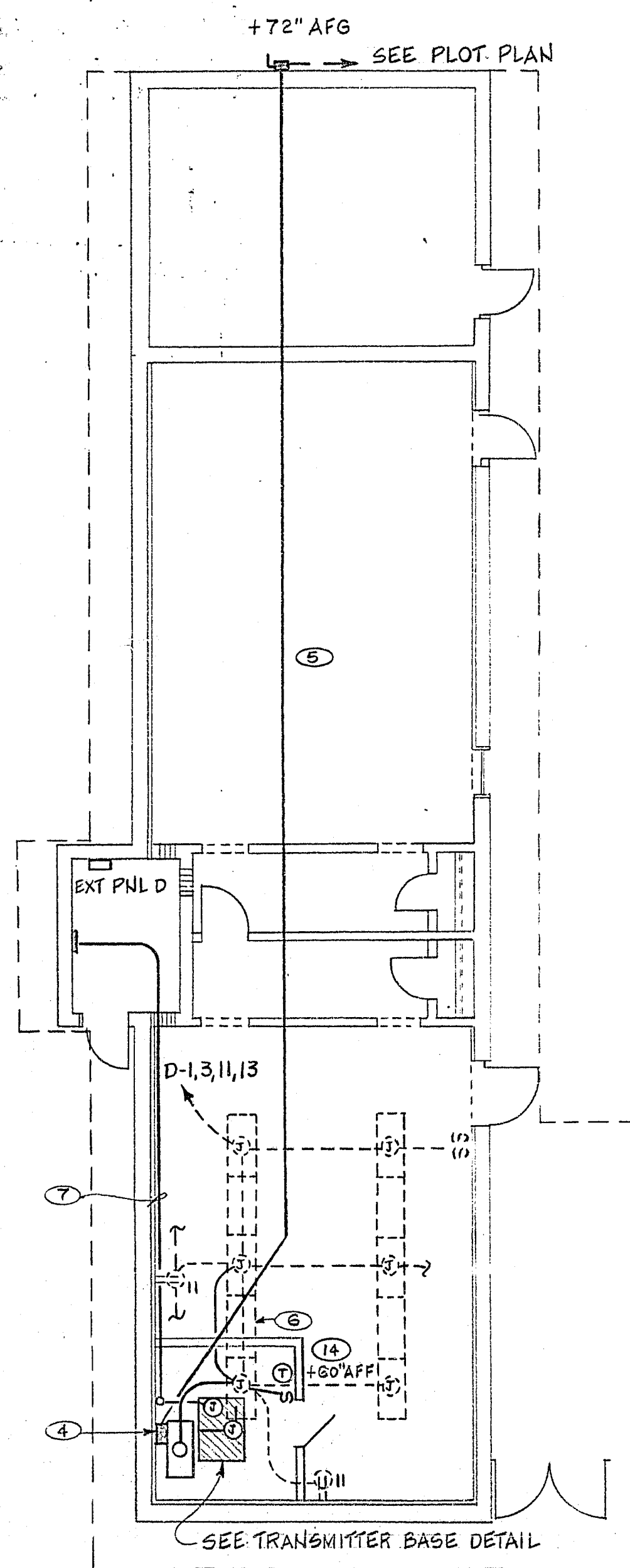
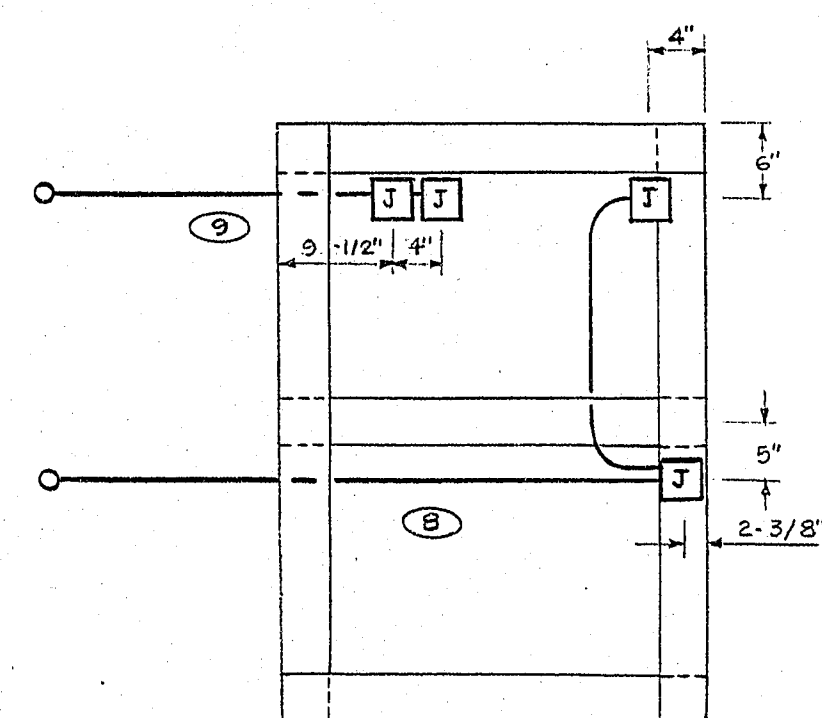


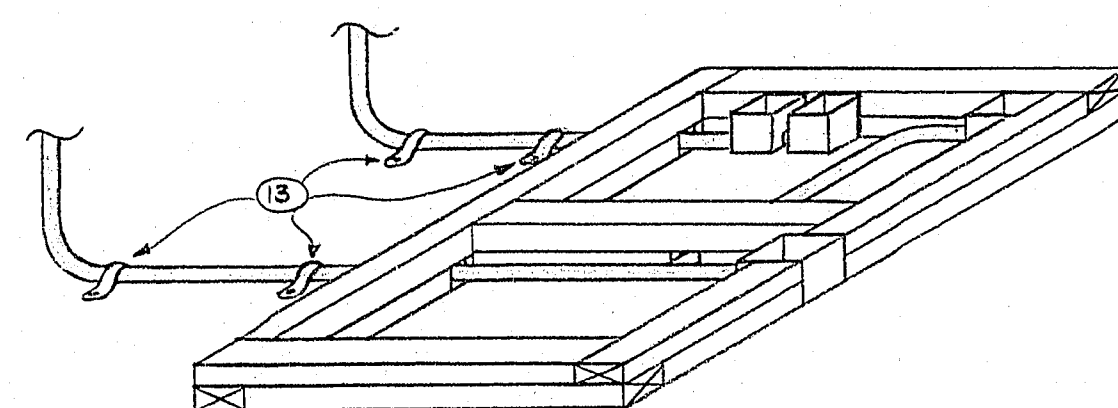
NOTES



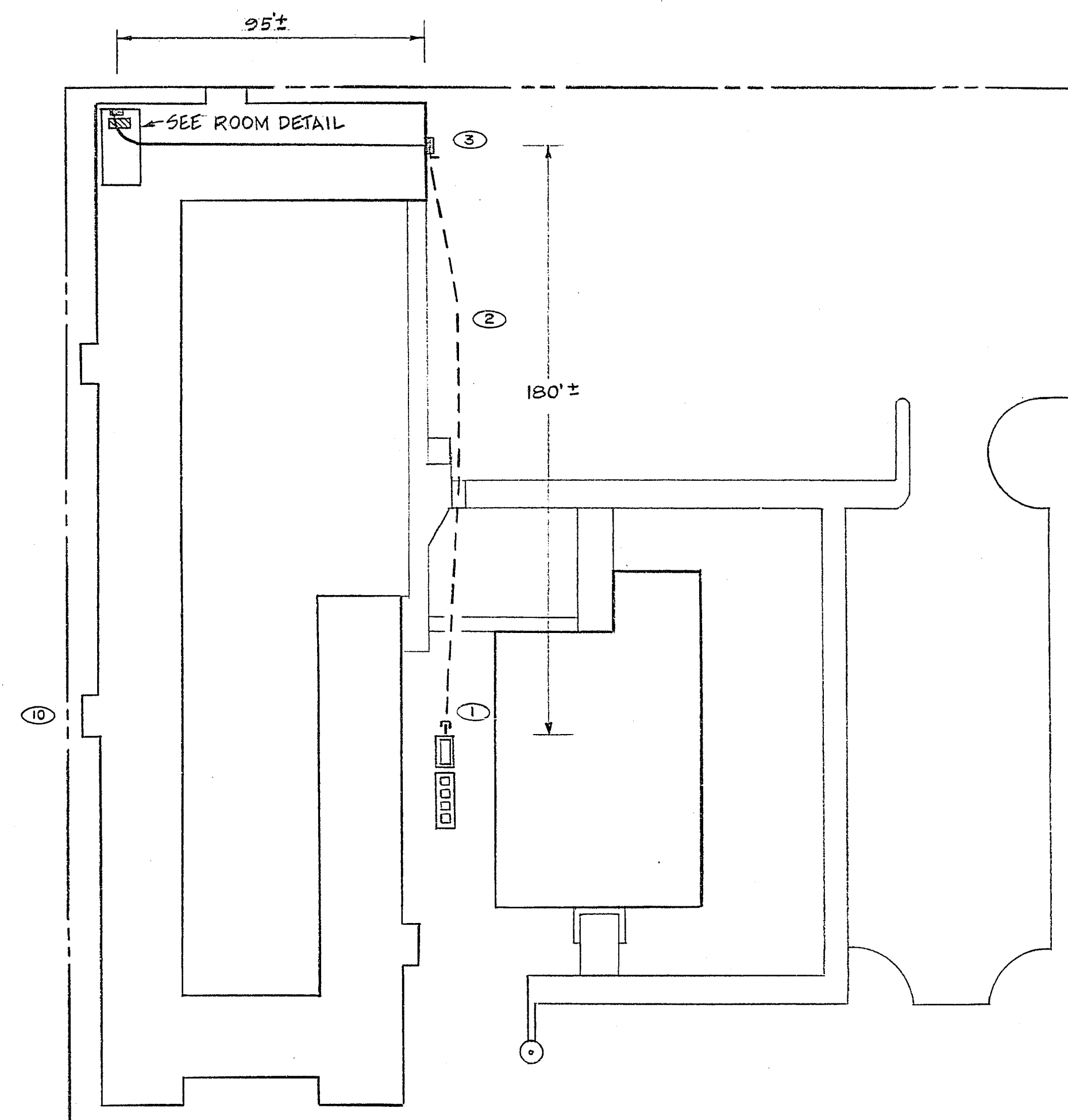
ROOM DETAIL
SCALE: 1/8" = 1'-0"



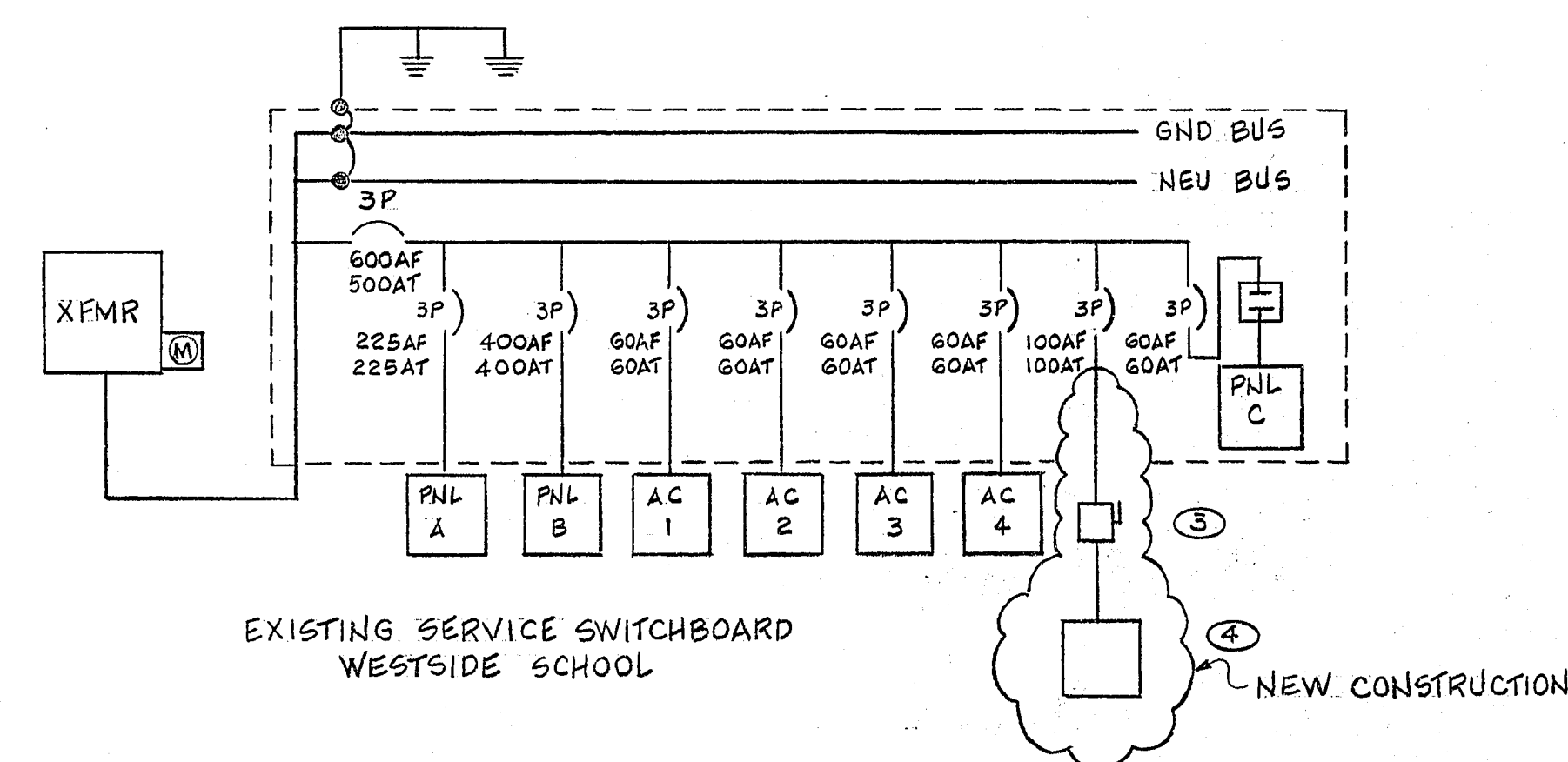
PLAN

ISOMETRIC

- (1) CONNECT PROPOSED NEW CONDUIT TO EXISTING STUB AT SERVICE SWITCHBOARD.
- (2) INSTALL 2 INCH PVC SCHEDULE 40 ELECTRICAL CONDUIT FROM SWITCHBOARD TO SAFETY SWITCH WITH A MINIMUM COVER OF 24 INCHES. THE RISER AND LAST BEND AT THE SWITCH SHALL BE RIGID GALVANIZED STEEL CONDUIT OR INTERMEDIATE METALLIC CONDUIT PROPERLY TAPED WITH 2 INCH WIDE 10 MIL PIPE WRAP. INSTALL WITH A 50% OVERLAP. INSTALL 4 #2 THW, 1 #8 THW GREEN AND CONNECT TO THE EXISTING 3P 100A SPARE BREAKER AT THE SWITCHBOARD, NEUTRAL BUS AND GROUNDING BUS, BORE UNDER THE CURB AND GUTTER AND REMOVE AND REPLACE A SECTION OF SIDEWALK AS DIRECTED BY THE ENGINEER.
- (3) INSTALL A 100A 3P 250V HEAVY DUTY FUSIBLE SAFETY SWITCH OF THE SAME MANUFACTURE AS THE SCHOOL PROJECT WITH A NEMA 3P ENCLOSURE. INSTALL BUSS 100A 250V LOW-PEAK FUSES. INSTALL A MICARTA TAG STATING "RADIO EQUIPMENT MAIN DISCONNECT".
- (4) INSTALL A SURFACE MOUNT 125A 3Ø 4W 120/208V LOAD CENTER IN NEMA 1 ENCLOSURE WITH 125A MAIN AND A GROUND BUS, A 3P 60A BREAKER FOR RADIO TRANSMITTER AND 1P 20A BREAKER FOR TRANSMITTER GENERAL PURPOSE USE.
- (5) INSTALL 1-1/2 INCH CONDUIT IN ATTIC SPACE FROM SAFETY SWITCH TO LOAD CENTER WITH 4#2 THW, 1#8 THW GREEN CONDUCTOR AND MAKE ALL CONNECTIONS.
- (6) REMOVE AND RELOCATE FIXTURE, CONTINUE CIRCUIT AS NEEDED, INSTALL ADDITIONAL CONDUCTOR TO FIRST JUNCTION BOX, INSTALL NEW SWITCH AND SEPARATE FROM EXISTING SWITCHED CIRCUIT. REPLACE FIXTURE WITH CEILING TILE.
- (7) INSTALL A 3/4 INCH CONDUIT ONLY FROM EXISTING TELEPHONE BOARD TO BASE OF TRANSMITTER. SEE TRANSMITTER BASE DETAIL AND NOTE 9.
- (8) INSTALL 1 INCH RIGID GALVANIZED STEEL CONDUIT OR INTERMEDIATE METALIC CONDUIT FROM LOAD CENTER TO A 4-1/16 X 2-1/8 INCH SQUARE BOX INSTALLED IN THE TRANSMITTER BASE BUT ATTACHED TO THE TRANSMITTER ONCE PLACED, VIA THE COVER PLATE SCREWS. INSTALL 3 #6 THW, 1 #8 THW GREEN EQUIPMENT GROUND AND 2 #12 THHN. INSTALL A 4 X 2-1/8 INCH BOX FOR 120V CIRCUIT AND ATTACH IN A SIMILAR MANNER. INSTALL 1/2 INCH ELECTRICAL METALLIC TUBING FROM FIRST TO SECOND BOX AND THE 2 #12 THHN CONDUCTORS. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF INPUTS AND COORDINATE WITH THE OTHER TRADES DURING THE CONSTRUCTION OF THE BASE IN ORDER TO PROVIDE A COMPLETE SUPPORT STRUCTURE AND WIRING SYSTEM. THE OPENINGS IN THE BASE SHALL BE ENLARGED TO ALLOW ACCESS TO THE BOXES ONCE THE TRANSMITTER HAS BEEN INSTALLED. INSTALL BUSHINGS AT EACH OPENING TO PROTECT WIRING AND GROUND EACH BOX AS WELL AS THE EQUIPMENT WITH LUGS OR COMPRESSION FITTINGS ATTACHED WITH A MACHINE SCREW OR MACHINE SCREW AND NUT.
- (9) INSTALL 3/4 INCH RIGID GALVANIZED STEEL CONDUIT OR INTERMEDIATE METALLIC TUBING FROM THE WALL TO A 4 X 2-1/8 INCH JUNCTION BOX FOR THE AUDIO INPUT. INSTALL A SECOND BOX ADJACENT TO THE FIRST IF NEEDED AND ATTACH AND PROVIDE ACCESS AS DESCRIBED IN NOTE 8.
- (10) INSTALL A MICARTA TAG AT MAIN SERVICE SHUNT TRIP STATING "RADIO EQUIPMENT DISCONNECT ON EAST END OF NORTH BUILDING."
- (11) ALL WIRING SHALL BE COPPER.
- (12) FINAL CONNECTIONS TO RADIO EQUIPMENT SHALL BE MADE BY THE STATION ENGINEER. EXCEPT THIS CONTRACTOR SHALL MAKE GROUND CONNECTIONS AT THE TRANSMITTER ENCLOSURE. IDENTIFY AND MARK ALL CONDUCTORS AND TAPE TO PREVENT ACCIDENTAL SHOCK HAZARDS.
- (13) INSTALL TWO HOLE CONDUIT STAPS TO PROVIDE A SECURE CONDUIT RUN ON FLOOR.
- (14) RELOCATE EXISTING AC THERMOSTAT. EXTEND CONDUIT SYSTEM AND PULL NEW G/20 THERMOSTAT WIRE AS NEEDED COORDINATE WITH OWNER TO MAKE FINAL CONNECTIONS AT UNIT AND STAT.



PLOT PLAN
NO SCALE



SINGLE LINE DIAGRAM

AS BUTLE

<u>James M. Henschen</u> CHIEF OF ENGINEERING DESIGN	<u>4-11-83</u> DATE	<u>James W. Zieve</u> E.O.B. Evaluation Representative	<u>4/11/83</u> DATE
<u>Richard B. Blush</u> DIRECTOR OF FUNDS COORDINATION	<u>4/11/83</u> DATE	<u>Donald E. Johnson</u> DIRECTOR OF PUBLIC SERVICES	<u>4/11/83</u> DATE

	Drawing no. 513-53		Scale (h) As shown Scale (v) W.U. 2162	
	Fid. bk. no.		Date	
	Design by M. GOODMAN		Drawn by NORMA GOMEZ	
	Approved by the City Engineer			
Department of Public Services		Engineering Design Division		
WESTSIDE SCHOOL RENOVATION		RADIO TRANSMITTER ELECTRICAL PLAN		