

**PLUMBING ALTERNATE**  
 CONTRACTOR TO STATE THE AMOUNT TO BE DEDUCTED FROM HIS PROPOSAL IF THE WELL PUMP IS OBTAINED IN CASE CITY WATER BECOMES AVAILABLE. (COPPER LINES FROM GARD TO METER IN JUNK CLOS.)

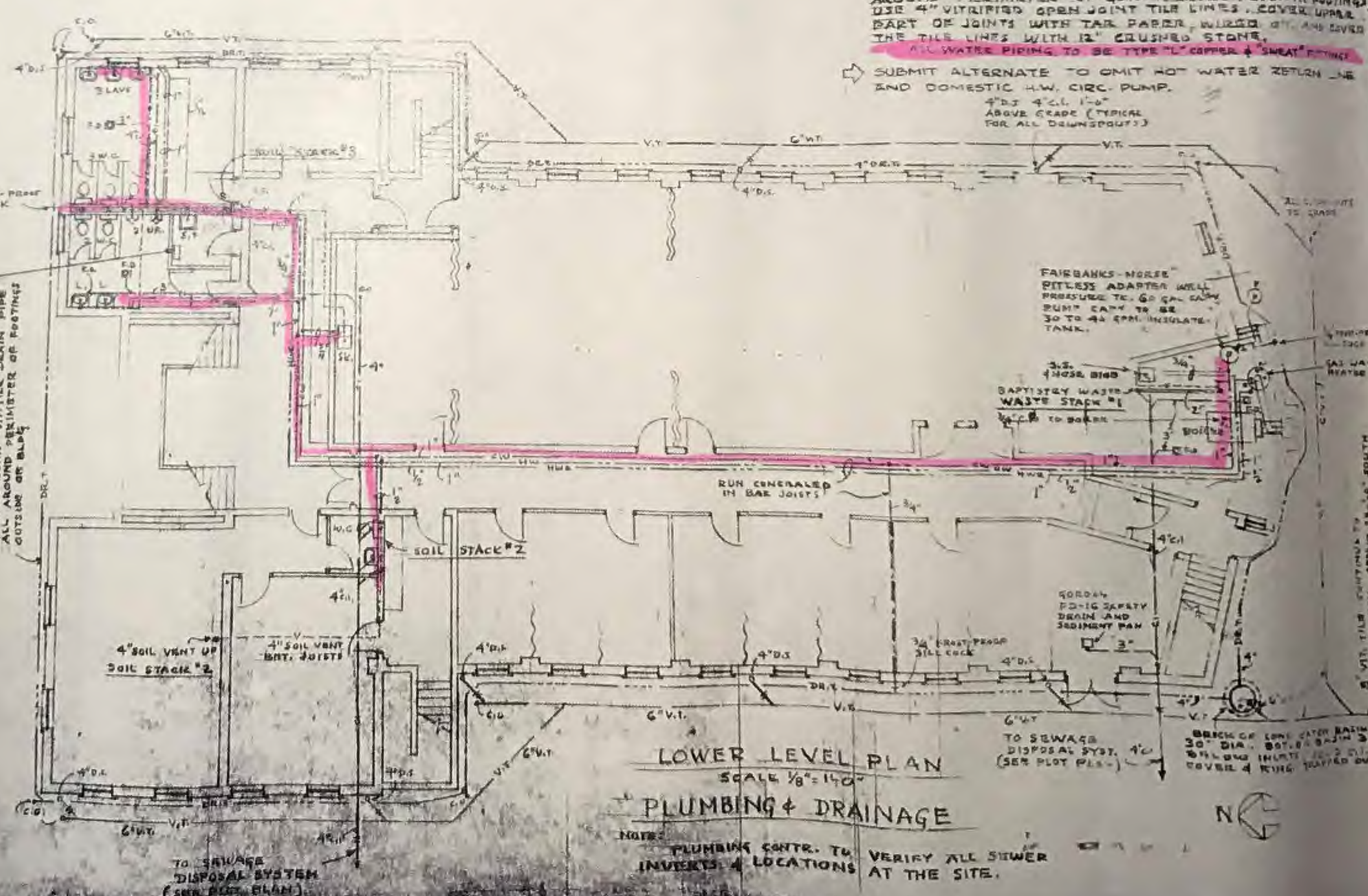
**PLUMBING NOTE**  
 SEE ARCHITECTURAL PLANS FOR EXACT LOCATION AND NUMBER OF PLUMBING FIXTURES.  
 ALL DOMESTIC HOT & COLD WATER LINES RUN IN CHASES AT OUTSIDE WALLS OR IN UNHEATED SPACES SHALL HAVE DUAL THICKNESS COVERING TO PREVENT FREEZING.  
 ALL DOMESTIC H.C. WATER & H.W. RET. LINES SHALL BE COVERED WITH 1" THICK FIBRE GLASS COVERING & COVERED WITH "GUSTIN-BACON CO" OR APPROVED EQUAL FOR UNDER FLOOR PIPE COVERING FURNISH & INSTALL 1" THICK FIBRE GLASS INSULATION WITH VAPOR BARRIER JACKET. ALL INSULATION JOINTS SEALED & MAPPED WITH ASPHALTUM. JOINTS & FITTINGS TO BE WRAPPED WITH HAIR POLY VAPOR BARRIER AND ASPHALTUM.  
 FURNISH & INSTALL 12" LONG AIR CHAMBERS IN HOT & COLD WATER LINES TO EACH PLUMBING FIXTURE (SAME FOR W.H.). ALL BRANCH HOT & COLD WATER LINES SHALL BE VALVED. VENT THROUGH ROOF AT OUTSIDE WALLS OR PARAPET WALLS TO DRESSY FAR ENOUGH FROM SAME TO ALLOW FOR FLUSHING.  
 GENERAL CONTRACTOR SHALL FURNISH & INSTALL ACCESS DOORS WHERE REQUIRED FOR ACCESS TO VALVES. PLUMBING CONTRACTOR TO LOCATE ACCESS DOORS AS REQUIRED. EXACT LOCATION AS DIRECTED AT BUILDING.  
 CLEAN-OUTS WHICH ARE FLOSH WITH WALLS OR FLOORS IN THE DIFFERENT ROOMS SHALL BE CHROME PLATED.  
 FURNISH & INSTALL PROPER SUPPORTS FOR PIPING & EQUIPMENT WITH GUIDES IN THE DOMESTIC HOT WATER SUPPLY RETURN LINES AS REQUIRED. ALL PIPING TO BE PROPERLY ANCHORED.  
 FIRE EXTINGUISHERS SHALL BE FURNISHED BY OWNER.  
 FURNISH & INSTALL ONE "RUBB" OR "RHEEM" GAS WATER HEATER 40 GAL. CAPY 30,000 BTU INPUT, 23 GAL/HR AT 100° RISE. CONNECT 4" FLUE TO CHIMNEY, TOP APPROX. 12" FROM CEILING. MAKE ALL WATER & DRAIN CONNECTIONS. PROVIDE RELIEF VALVE, & "B&G" DOMESTIC H.W. CIRC. PUMP IN THE H.W. RET. LINE, 5 GPM, 5 FT. HEAD, 1/2 HP. MOTOR & AQUASTAT. HEATING CONTR. SHALL MAKE THE GAS CONNECTIONS.  
 PLUMBING CONTRACTOR TO MAKE "ROUGH-IN" CONNECTIONS FOR THE KITCHEN FIXTURES AS PER KITCHEN EQUIPMENT LAYOUT.  
 P.B.G. CONTR. TO FURNISH & INSTALL GAS PIPING PERMETER & PIPING TO ALL GAS OUTLETS. CONFER WITH LOCAL GAS CO. BEFORE INSTALLING GAS SERVICE & PIPING. GAS PIPING TO BE BLACK IRON 3/4" DIA. P.B.G.

Bethlehem Baptist Church  
 27250 Emery Road  
 Cleveland, Ohio 44128

Page 1 of 2

PWS ID: OH1839912

**PLUMBING STACK & WATER SUPPLY DIAGRAMS**  
 NOT TO SCALE



**LOWER LEVEL PLAN**  
 SCALE 1/8" = 1'-0"  
**PLUMBING & DRAINAGE**

NOTE: PLUMBING CONTR. TO VERIFY ALL SEWER INVERTS & LOCATIONS AT THE SITE.



ARCHITECTURAL AND ENGINEERING SERVICES TO EVANGELICALS

COMMISSION NUMBER	80
DRAWN BY	G.A.E.
CHECKED BY	
DATE	4-24-63
SCALE	3/8" = 1'-0"

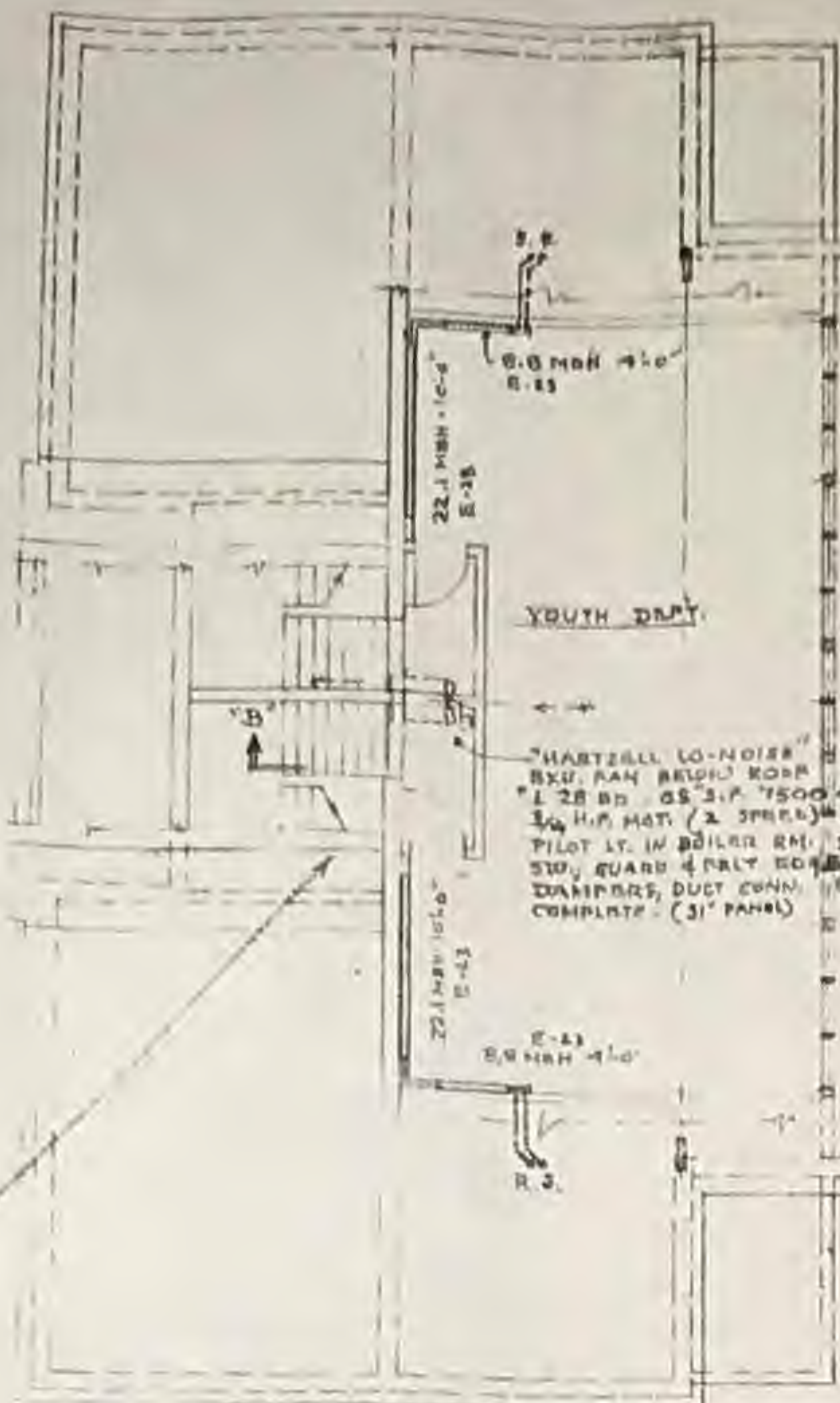
REVISIONS			
NO.	BY	DATE	REVISION
1		4-24-63	ORIGINAL ISSUE FOR BIDDING
2		4-24-63	REVISED PER OWNERS REQUEST

DESIGNED BY  
**ROBERT F FELTZ ARCH**  
 FOR  
 BETHLEHEM BAPTIST  
 27250 EMERY RD  
 CLEVELAND, OHIO 44128  
 ORANGE VILLAGE

**NOTE:**  
 1. ALL PIPING SHALL BE COVERED AT OUTSIDE WALLS OR WITH THREE PLY GLASS FIBER INSULATION COVERING TO PREVENT RADIATION EQUAL TO CANVAS HEATING-BACON CO. OR THE BOILER BREACHING SHALL BE COVERED. BOILER TO HAVE INSULATED JACKETS.  
 2. FOR UNDERFLOOR PIPING COVERING FURNISH & INSTALL 1" FIBER GLASS INSULATION WITH VAPOUR BARRIER JACKETS ALL INSULATION SEALED & MOPPED WITH ASPHALTUM PLUS 15 LB ROOFING JACKET ASPHALTUM.  
 3. FURNISH & INSTALL "MERRITT" 1-1/2" RATED FIN RADIATION, AVERAGE WATER TEMPERATURE 200°F.  
 4. FIN RADIATION TO HAVE KNOB DAMPERS AT FIN ELEMENTS ONLY. SHUT DAMPERS AT RADIATION SUPPLY VALVES, WRESTLES OR TRANS PROVIDE SPRING LOADED SUPPLY VALVES.  
 5. ALL RADIATION NOT THERMOSTATICALLY CONTROLLED.  
 6. PROVIDE "DUAL" 20 C-SR AIR GAUGE COVERS.  
 7. AT ALL RADIATION, AT ALL CHANGES IN ELEVATION OF ALL HEATING SUPPLY AND RETURN LINES, ETC.  
 8. FURNISH & INSTALL BALANCING COCKS AT RETURNS FROM RADIATION AND SQUARE HEAD COCKS AT HEATING PUMP DISCHARGE LINES, AND AT BRANCH RETURN LINES.  
 9. PROVIDE PROPER SUPPORTS FOR ALL PIPING, DUCTS, MANV RADIATION, ENCLOSURES AND EQUIPMENT, ETC.  
 10. EXACT LOCATION OF THERMOSTATS TO BE DETERMINED BY THE ARCHITECT AND CONTROL CONTRACTOR. THERMOSTAT SETTINGS RANGERS TO BE FROM 50° TO 65°F.  
 11. FURNISH & INSTALL PACKLESS EXPANSION JOINTS IN THE HOT WATER HEATING SUPPLY & RET. LINES AS REQUIRED. ALL PIPING TO BE PROPERLY ANCHORED.  
 12. GENERAL CONTRACTOR SHALL FURNISH & INSTALL ACCESS DOORS AND PANELS WHERE REQUIRED FOR ACCESS TO VALVES, DAMPERS, ETC. HEATING & VENTILATION CONTR. TO LOCATE ACCESS DOORS AS REQUIRED. EXACT LOCATION AS DIRECTED AT THE BUILDING.  
 13. LOW POINTS OF HEATING SYSTEM TO BE DRAINED. PROVIDE VALVED CONNECTIONS AT DRAINS.

**DUCT GAUGES**

UP TO 12" - # 26 GAUGE
12" - 30" - # 24 "
30" - 42" - # 22 "
42" - 60" - # 20 "
60" & OVER - # 18 "
HOUSINGS - # 18 "



Bethlehem Baptist Church  
 27250 Emory Road  
 Cleveland, Ohio 44123

page 2 of 2  
 PWS ID: OH 1839912

**Evangelist ASSOCIATES**

ARCHITECTURAL ENGINEERS  
 SOUTH BEND, INDIANA

COMMISSION NUMBER  
 DRAWN BY  
 CHECKED BY  
 DATE  
 SCALE

**REVISIONS**

NO	BY	DATE	DESCRIPTION
1			
2			

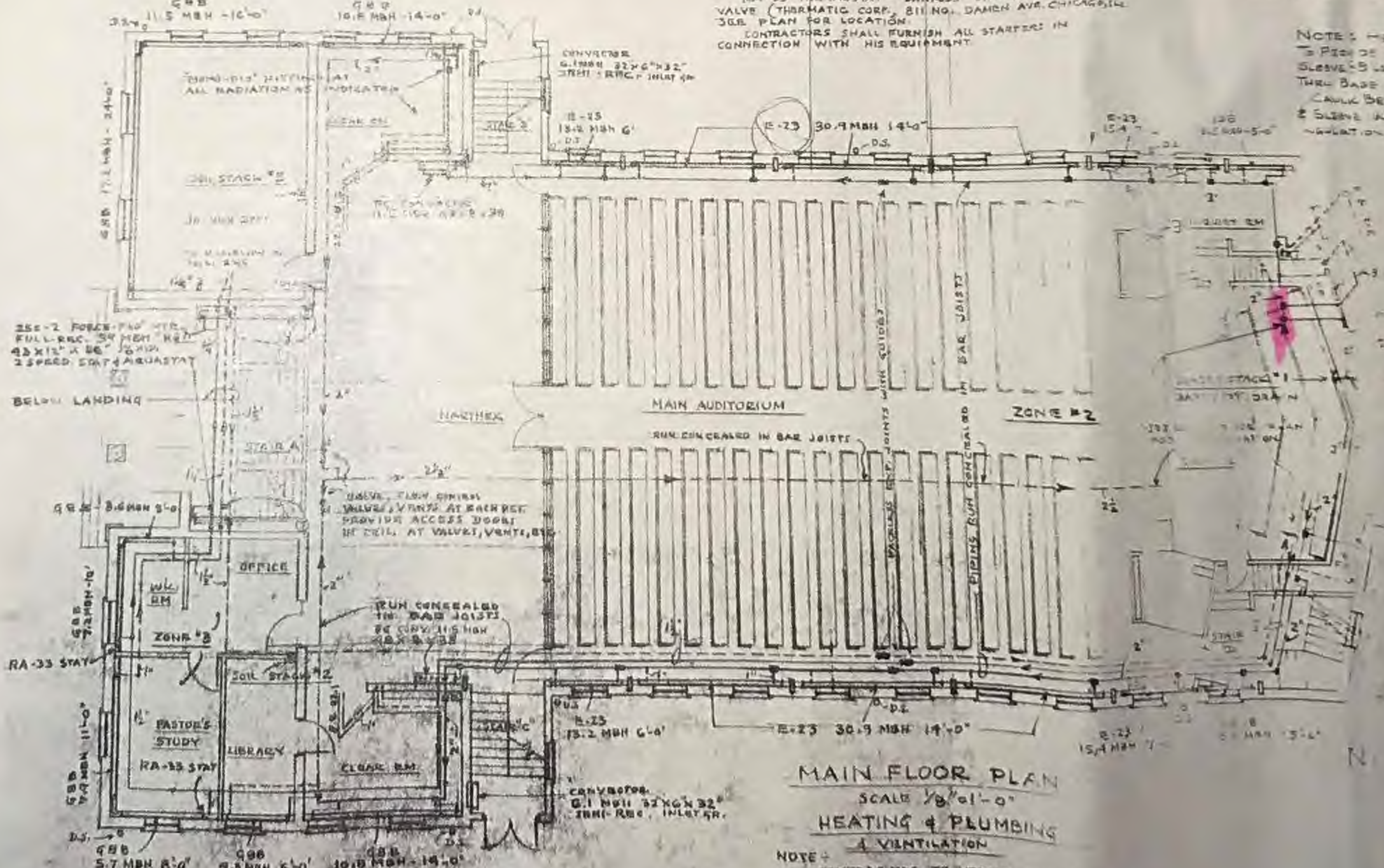
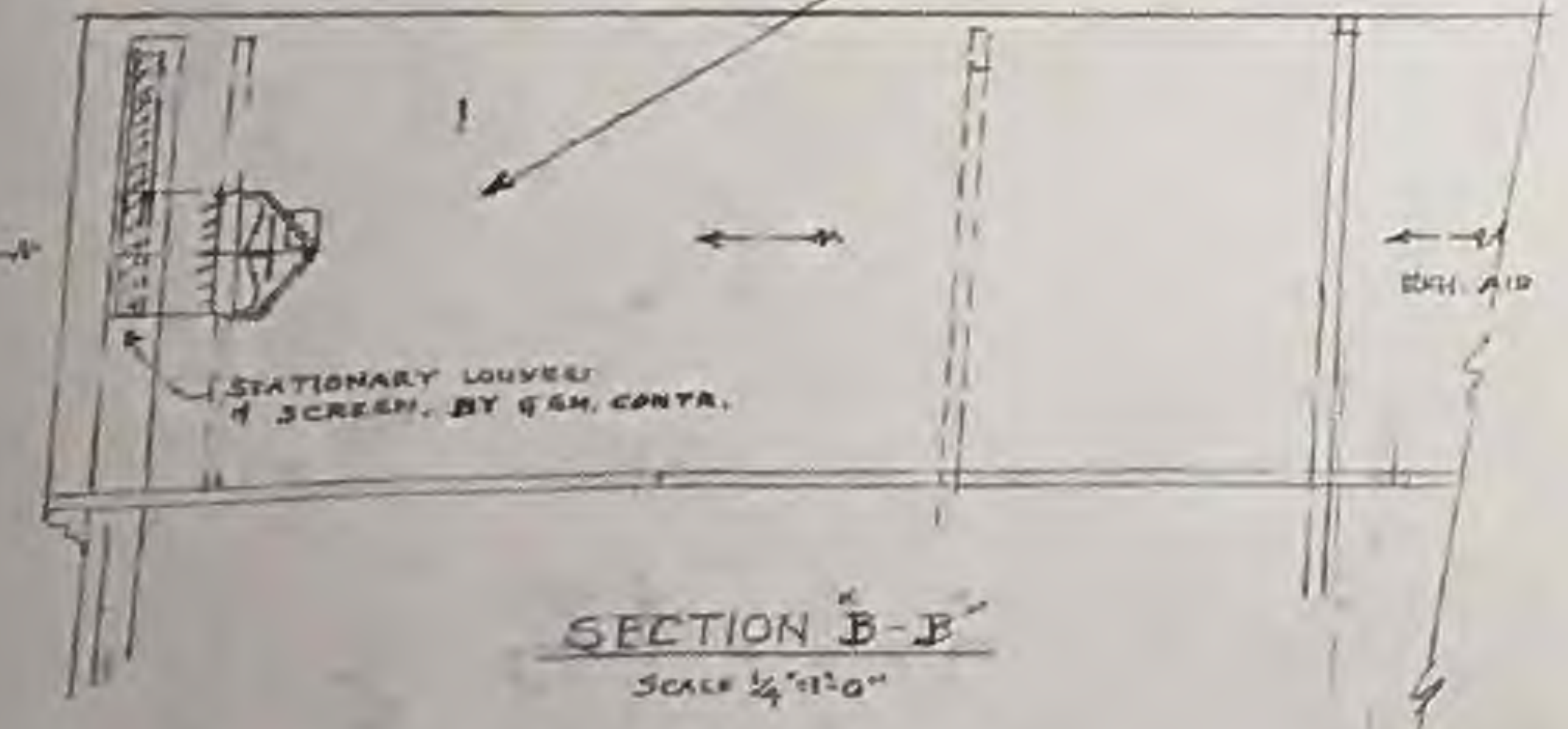
FURNISH & INSTALL THE NECESSARY SLEEVES THROUGH FOUNDATION WALLS, FLOORS, WALLS FOR GAS AND HEATING PIPING AS REQUIRED.  
 PROVIDE CANVAS CONNECTIONS AT INLETS AND DISCHARGE OPENINGS OF FANS, AND "VENTABERTOS" FABRIC CONNECTIONS AT KITCHEN EXHAUST FAN.  
 PROVIDE ALL NECESSARY CONTROLS FOR BOILER, GAS BURNER AND PUMPS.  
 FURNISH & INSTALL CADMIUM OR CHROME PLATED WALL OF ELBOR PLATES AT ALL RISERS AND BRANCHES TO ALL RADIATION. ALL HEATING PIPING TO BE TYPE "L" COPPER PIPE, EXCEPT FIN RADIATION & CONVECTORS, WHICH ARE TO HAVE COPPER PIPE & ALUMINUM FIN.  
 PROVIDE FLEXIBLE CONNECTIONS AT ALL RADIATION AS REQUIRED AND AS RECOMMENDED BY THE MANUFACTURER.  
 PROVIDE ALUMINUM FOIL BARK OF ALL RADIATION AT OUTSIDE WALLS OF BUILDING.

UPPER FLOOR PLAN  
 SCALE 1/8"=1'-0"  
 HEATING-VENTILATION-PLUMBING

**NOTE:**  
 PROVIDE THERMAL OVERLOAD & UNDERLOAD PROTECTION FOR ALL MOTORS.  
 ALL PLUMBING & HEATING PIPING TO BE APPROX. TO 100 PSI HYDROSTATIC PNE. APPROX. 1/2" S.H.R. RA-33 THERMOSTAT "DANKOFF" STAT & RADIATOR VALVE (THERMATIC CORP. 811 NO. DANFORTH AVE. CHICAGO, ILL.) SEE PLAN FOR LOCATION.  
 CONTRACTORS SHALL FURNISH ALL STARTERS IN CONNECTION WITH HIS EQUIPMENT.

**FIN RADIATION**  
 RA-33 - MERRITT 11" DIA. 1-1/2" HIGH 750 BTU UNIT 1 ROW 1/4" TUBE, 2 3/4" X 3/4" AIR

**NOTE: HEATING**  
 TO PROVIDE 20000 BTU SLEEVES TO BE 4" DIA. THRU BASE OF WALLS. CALL BETWEEN SLEEVES & SLEEVES WITH FLEXIBLE CONNECTION.



MAIN FLOOR PLAN  
 SCALE 1/8"=1'-0"  
 HEATING & PLUMBING & VENTILATION

**NOTE:**  
 CONTRACTORS TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE.  
 ALL MOTORS 1/2 HP & OVER TO BE OF SINGLE PHASE. MOTORS LESS THAN 1/2 HP TO BE OF 120 V. SINGLE PHASE.

DESIGNED BY  
 CHECKED BY  
 DATE  
 SCALE