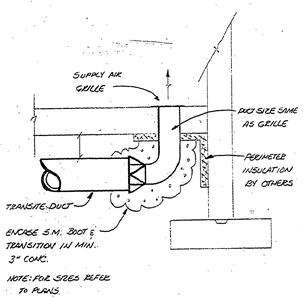
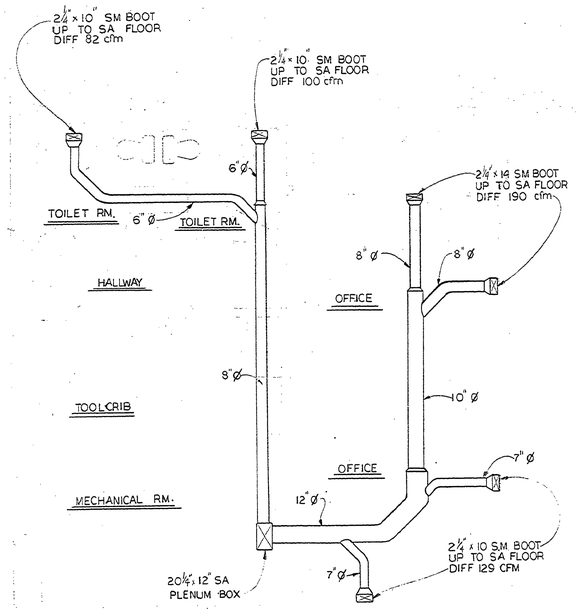


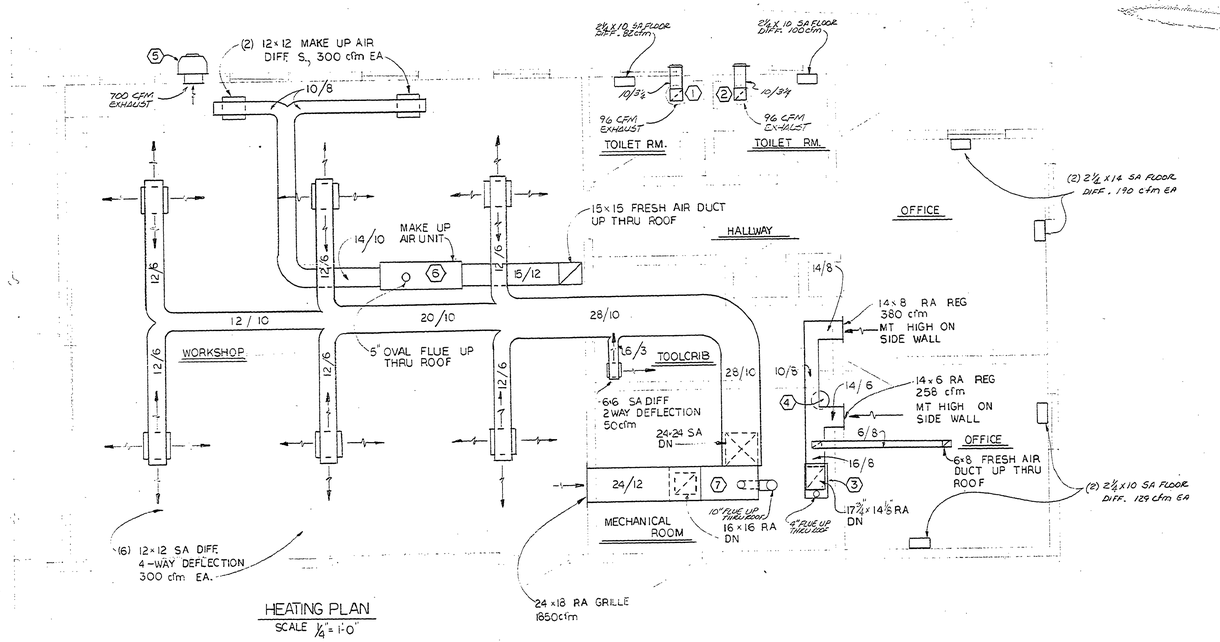
UNDERSLAB S.A. DUCT DETAIL

NOT TO SCALE



UNDERSLAB HEATING PLAN

SCALE 1/4" = 1'-0"



HEATING PLAN

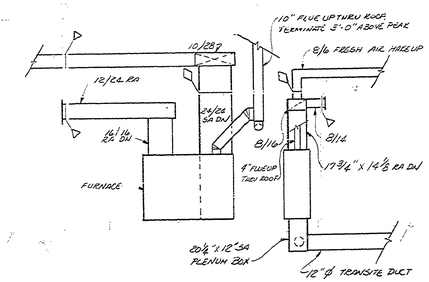
SCALE 1/4" = 1'-0"

MECHANICAL LEGEND

- 12/20 — DUCT (SIZE INCHES, FIRST FIGURE SIDE SHOWN)
- SUPPLY GRILLE
- RETURN GRILLE
- SUPPLY ELBOW DOWN
- RETURN ELBOW DOWN
- RADIUS ELBOW
- FIRE DAMPER IN VERTICAL DUCT
- FIRE DAMPER IN HORIZONTAL DUCT
- CEILING DIFFUSER
- SUPPLY AIR UP
- TRANSITION

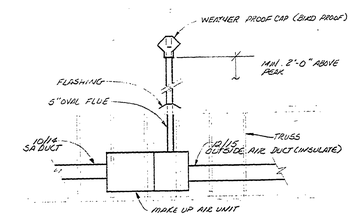
EQUIPMENT LIST

1. TOILET ROOM CEILING EXHAUST FAN, BASED ON ILG MODEL CCV 100, 96 CFM @ 0.10" STATIC PRESSURE, 1645 NOM. RPM AND 3.1 SONES. 1/70 HP-120V-1Ø. PROVIDE W/ #7203 WALL CAP AND BACKDRAFT DAMPER. ALSO PROVIDE #18932 THERMAL TIME DELAY SWITCH.
2. SAME AS 1.
3. DOWN-FLO, FORCED AIR, GAS FIRED FURNACE, BASED ON LENNOX MODEL # G12RD2-55. BTUH INPUT 55,000, BTUH OUTPUT 44,000, W/ 820 CFM @ 0.10" STATIC PRESSURE. BLOWER FAN MOTOR 1/5 HP-120V-1Ø
4. ELECTRIC WATER HEATER BASED ON LOCHINVAR MODEL R-120, 12 GALLON CAPACITY, 1500 WATTS, 13 AMPS-120V-1Ø
5. DIRECT DRIVE WALL EXHAUST FAN, BASED ON LOREN COOK CAT. # 12 L11W, 714 CFM @ 1/8" STATIC PRESSURE, 7.2 SONES, 0.07 BHP, 1140 FAN RPM, PROVIDE W/ BACKDRAFT DAMPER & GRILLE. 1/12 HP-120V-1Ø.
6. MAKE UP AIR UNIT BASED ON REZNOR MODEL KJ 75 E-3, BTUH INPUT 75,000, 743 CFM @ 0.25" STATIC PRESSURE AND A 70° TEMPERATURE RISE. PROVIDE W/ OPTIONAL FILTER RACK, OUTSIDE AIR DAMPER, TWO POSITION DAMPER MOTOR AND STAINLESS BURNERS. FAN MOTOR 1/4 HP-120V-1Ø, DAMPER MOTOR 24V.
7. WOOD AND/OR GAS DUEL FUEL FURNACE, BASED ON LONGWOOD, GAS RATED BTUH INPUT 115,000, 1850 CFM @ 0.40" STATIC PRESSURE, BLOWER FAN 1/3 HP-120V-1Ø



MECHANICAL ROOM SECTION

SCALE 1/4" = 1'-0"



MAKE UP AIR UNIT SECTION

SCALE 1/4" = 1'-0"

SURVEYED BY		DRAWN BY K. STAHL	10-78	NO.	DATE	BY	REVISIONS	NO.	DATE	BY	REVISIONS	MICHIGAN DEPARTMENT OF NATURAL RESOURCES	HEATING PLAN SHEET TITLE
DESIGNED BY J. BARKER	10-78	CHECKED BY		1.				3.					
	DATE		DATE	2.				4.					

AREA OR PARK: BALD MOUNTAIN STATE PARK
PROJECT: GARAGE, OFFICE & SHOP
PROJECT NO. 24-20 24
SHEET 4 OF 7
PLAN NO. A-104