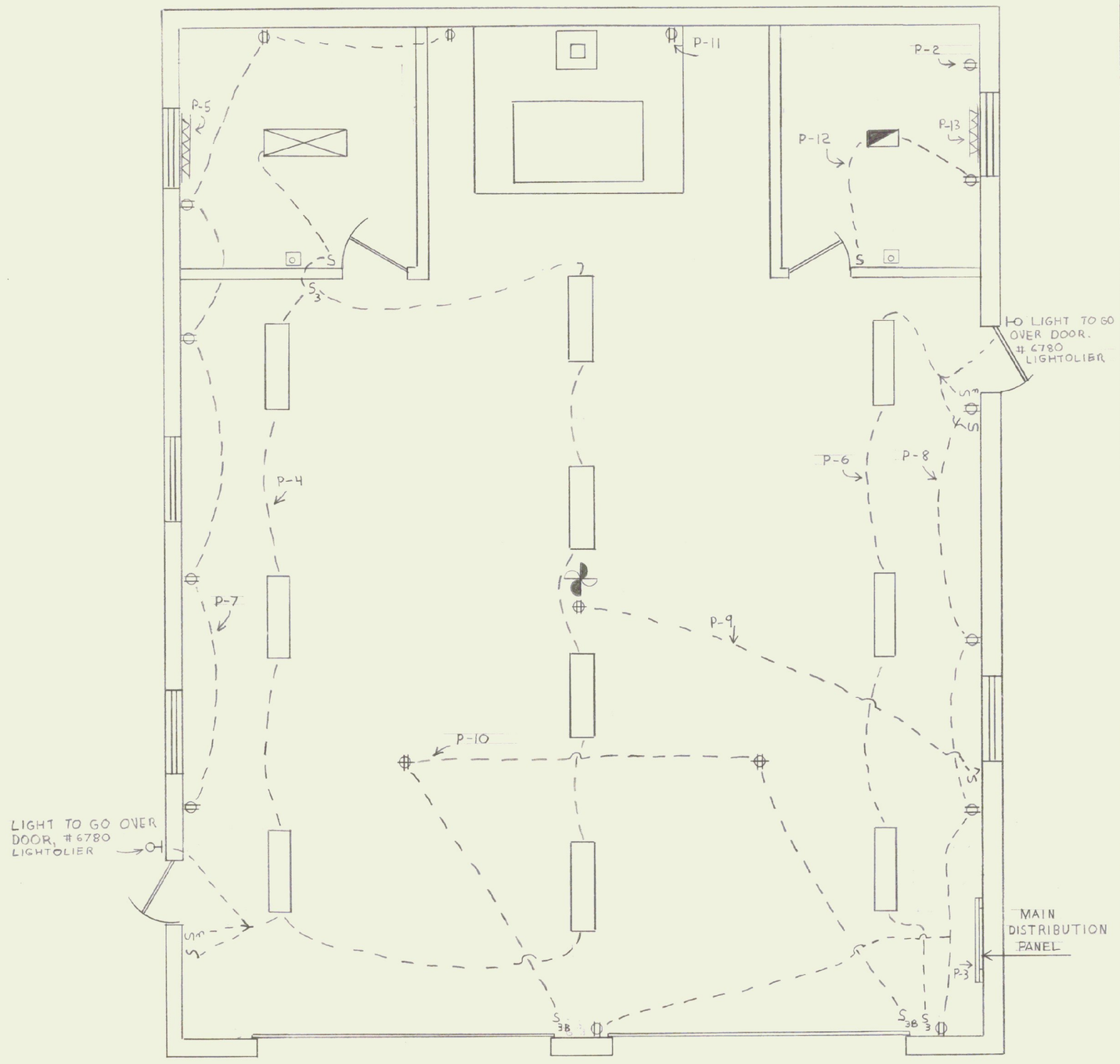


ELECTRICAL PLAN
SCALE 1/4" = 1'-0"

PANEL SCHEDULE

CIRCUIT BREAKER TYPE STYLE NQOB, SQD 120/240V 1Ø 3W 100 AMP MAIN
10,000 I.C.R. BRKS 20 POLE

CIRC.	BREAKER AMP	BREAKER POLE	EQUIPMENT SERVED	COMMENTS
P-1	30	1	WELL PUMP	PROTECT WITH LIGHTING ARRESTER
P-2	30	1	6 GALLON HOT WATER HEATER	2000 W. 120V POLYUTETHANE FOAM INSULATED. RHEEM # 61H-6S
P-3	30	2	AIR COMPRESSOR W/ DISCONNECT SWITCH	5-HP, SEE ELECTRICAL FEEDER DIAGRAM FOR LOCATION AND WIRING.
P-4	20	1	SHOP LIGHTING	OFFICE + LEFT SIDE OF GARAGE. 4 LOCATIONS, MOUNTING HGT 14'-0"
P-5	20	2	HEATER OFFICE	
P-6	20	1	SHOP LIGHTING	RIGHT SIDE OF GARAGE, 3 LOCATIONS MOUNTING HGT 14'-0"
P-7	20	1	SHOP RECEPTACLES	5 LOCATIONS, LEFT SIDE OF GARAGE.
P-8	20	1	SHOP RECEPTACLES	5 LOCATIONS, RIGHT SIDE OF GARAGE.
P-9	20	1	CEILING FAN	MOUNTING HGT. 11'-6"
P-10	20	1	DOOR OPENER RECEPTACLES	CEILING MOUNTED 2 LOCATIONS
P-11	20	1	FURNACE RECEPTACLE	
P-12	20	1	BATHROOM LIGHT-FAN AND RECEPTACLE	PROTECTED BY GROUND FAULT CIRCUIT.
P-13	20	2	ELECTRICAL HEATER	PROTECTED BY GROUND FAULT CIRCUIT.
P-14	20	1	SPARE	

GENERAL NOTES

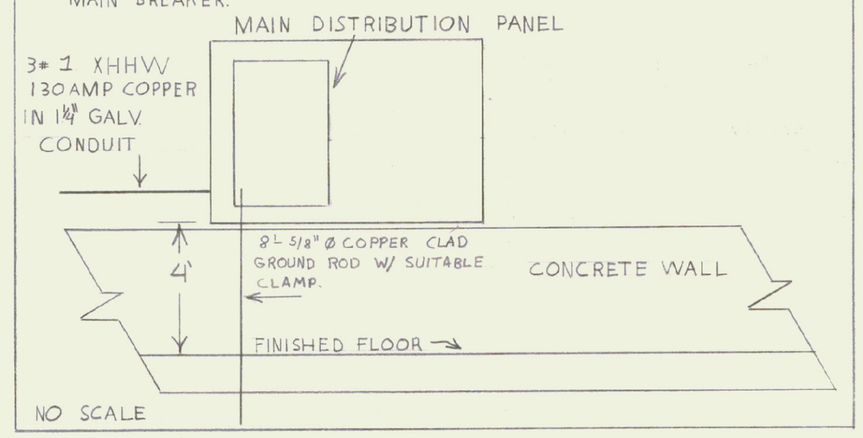
1. ALL BRANCH CIRCUIT WIRE RUNS SURFACE MOUNTED IN EMT WITH SUITABLE BOXES AND COVERS.
2. ALL RECEPTACLES AND SWITCHES AT ALL LOCATIONS SHALL BE AT LEAST 48" OFF THE FINISHED FLOOR, ALL SURFACE MOUNT WITH EMT.
3. ALL WIRING TO MOVING OR VIBRATING EQUIPMENT TO BE IN GREENFIELD CONDUIT.
4. BATHROOM CIRCUIT TO BE PROTECTED BY GROUND FAULT CIRCUIT BREAKER.
5. INSTALL GROUND WIRE AND ROD # 6 BARE COPPER
6. CIRCUIT P-1, P-2 TO BE 10 GAUGE WIRE.
7. EXHAUST DUCT + LOUVER TO BE INSTALLED WITH BATHROOM LIGHT & FAN.
8. SHOP LIGHTING MOUNTED ON STEMS 1" ABOVE BOTTOM OF BEAMS
9. #6 GROUND ROD FROM PRESSURE TANK TO NEUTRAL IN MAIN PANEL

ELECTRICAL SYMBOLS

⊕	SINGLE DUPLEX RECEPTACLE, 20AMP-125V CAT # 5362, HUBBELL.
⊕	SINGLE DUPLEX RECEPTACLE, 20AMP-125V CAT # 5362, HUBBELL. CEILING MOUNTED.
	240V, ELECTRIC HEATER, DAYTON OFFICE 48" LONG 1000 W 4.2 AMPS # 3E220 BATHROOM 40" LONG 750 W 3.1 AMPS # 2E541
S_3	THREE WAY SWITCH 20AMP 120-277V CAT # 1223 HUBBELL.
S_V	VARIABLE SPEED SOLID STATE CONTROL. # 100F GOLD LINE, FOR ENVIRO FAN.
S_{3B}	THREE BUTTON 24V CONTROL SWITCH SUPPLIED WITH DOOR OPENING SYSTEM.
S	SINGLE POLE SWITCH 20AMP 120-277 CAT # 1221.
	LOCATION OF ENVIRO FAN GOLD LINE # 160F-7, 56" FAN WITH 30" DOWN ROD.
	SHOP LIGHTING LITHONIA # PV-240, TWO F40 LAMPS, 120V, SUPPLIED WITH 0°F STARTING BALLAST.
	OFFICE LIGHT LITHONIA LB 240A W/ 0°F STARTING BALLAST, SURFACE MOUNTED.
	BATHROOM LIGHT-FAN UNIT, BROAN # 4C 380, 70CFM FAN - 100W LIGHT, 11 LBS, 2.0AMP-115V-60H.
— — —	BRANCH CIRCUIT, ALL RUNS IN 1/2" EMT WITH 600 V #12 TYPE THW OR THHN COPPER CONDUCTORS
○	WALL THERMOSTAT DAYTON # 2E173

ELECTRICAL FEEDER DIAGRAM

4'×4' PLYWOOD PANEL 3/4" THICK - WITH 2 COATS OF GRAY PAINT AND 3/4" SPACERS TO WALL FOR MAIN DISTRIBUTION PANEL WITH MAIN BREAKER.



NO SCALE

STATE OF VERMONT
DIVISION OF STATE BUILDINGS
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

AGENCY OF TRANSPORTATION
40' × 50' GARAGE
ELECTRICAL PLAN

ASCUTNEY

DATE:	DATE:	REVISIONS:	DWG. NO.
8/24/83			1-E
DRAWN BY: P.E.M	APPROVED BY: F.P.		3 OF 3