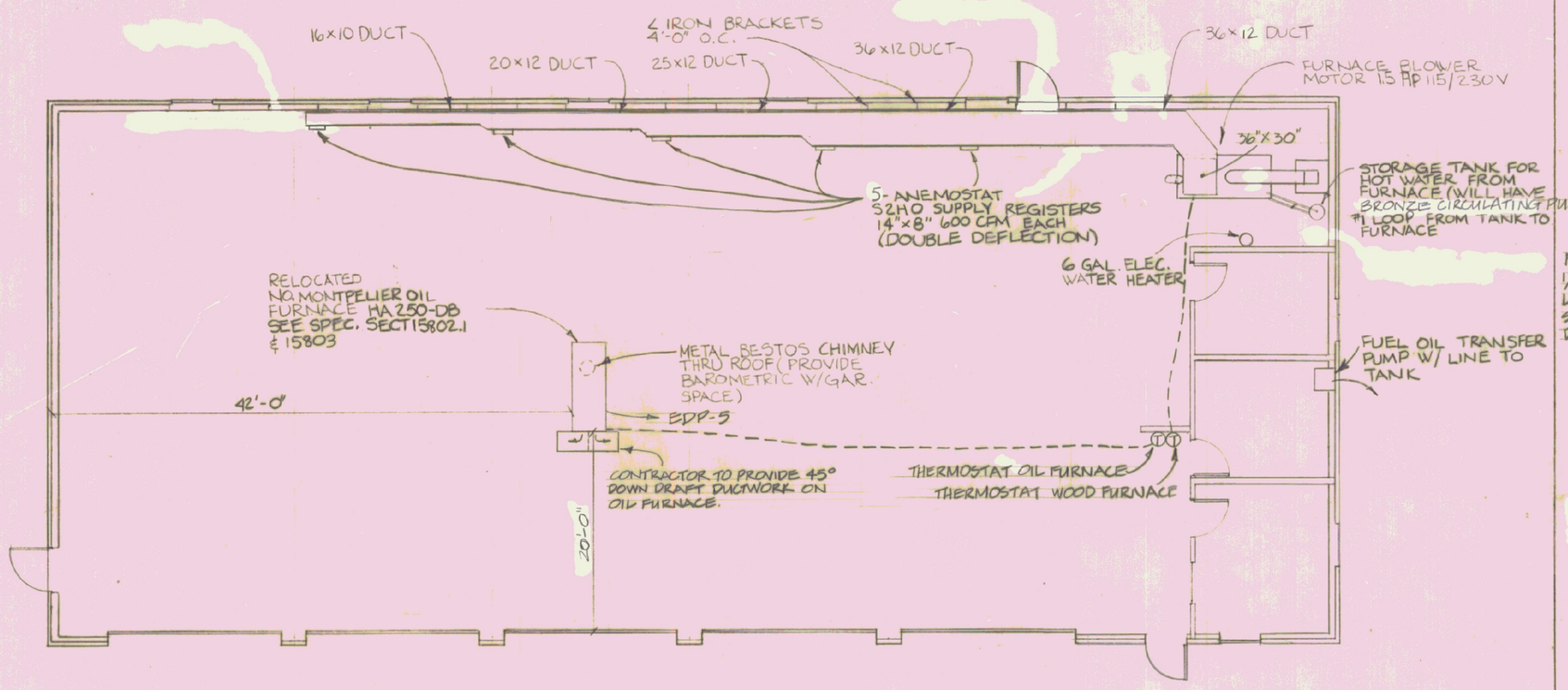
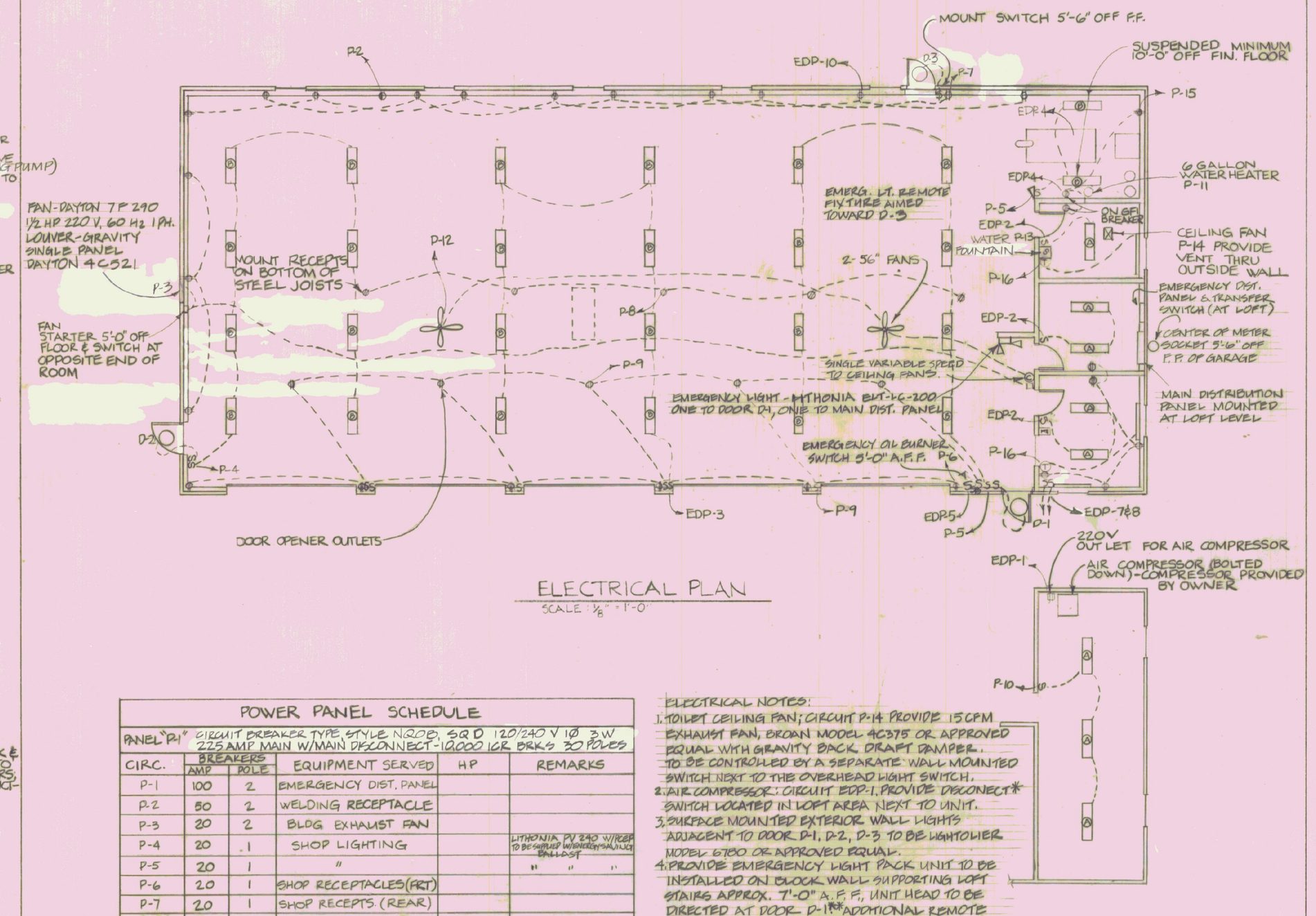


MECHANICAL PLAN

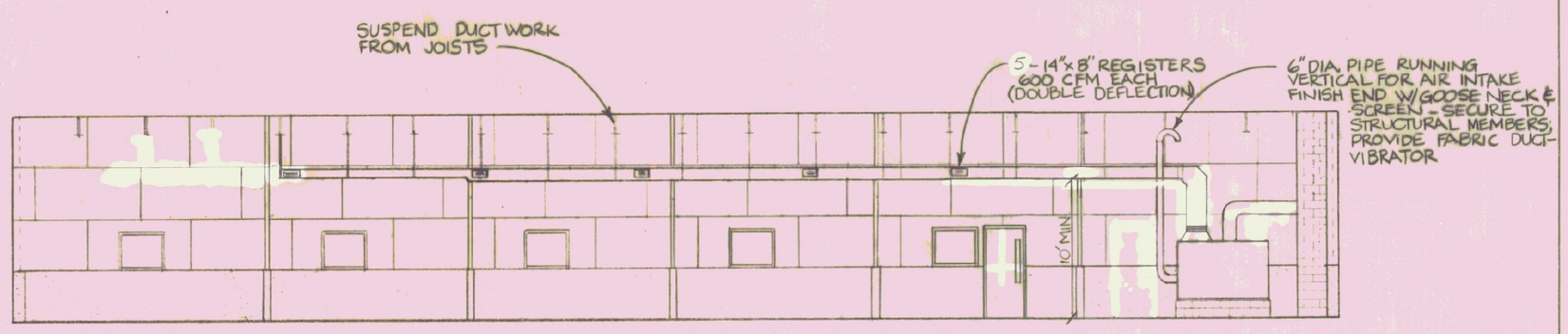
SCALE: 1/8" = 1'-0"

NOTE: ALL JOINTS IN FUEL OIL LINE TO BE FLARED ALL SOLDERED JOINTS TO BE SWEATED WITH SILVER SOLDER



ELECTRICAL PLAN

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



FURNACE ELEVATION

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

POWER PANEL SCHEDULE

PANEL "P1" CIRCUIT BREAKER TYPE, STYLE NQOB, SQ D 120/240 V 1Ø 3W 225 AMP MAIN W/MAIN DISCONNECT - 10,000 ICR BRKS 30 POLES

CIRC.	BREAKERS AMP	BREAKERS POLE	EQUIPMENT SERVED	HP	REMARKS
P-1	100	2	EMERGENCY DIST. PANEL		
P-2	50	2	WELDING RECEPTACLE		
P-3	20	2	BLDG EXHAUST FAN		
P-4	20	1	SHOP LIGHTING		LITHONIA PV 240 W/RECP TO BE SUPPLIED W/ENERGY SAVING BALLAST
P-5	20	1	"		" " "
P-6	20	1	SHOP RECEPTACLES (FRT)		
P-7	20	1	SHOP RECEPTS. (REAR)		
P-8	20	1	MID BAY CEILING RECEPT		5 LOCATIONS
P-9	20	1	DOOR OPENER RECEPTS.		5 LOCATIONS
P-10	20	1	LOFT LIGHTING		
P-11	20	1	6 GAL HT. H2O HEATER		
P-12	20	1	CEILING FANS		DAYTON FAN 1C60 P-7 56"
P-13	20	1	SPARE		GFI RECEPT.
P-14	20	1	FAN / GFI		GFI IN WALL OUTLT.
P-15	20	1	FURNACE AREA RECEPTS		
P-16	20	1	HEATERS IN BATH & OFFICE	(3) .5 KW	W/LINE VOLTAGE T'STAT
P-17	20	1	SPARE		

ELECTRICAL NOTES:

1. TOILET CEILING FAN; CIRCUIT P-14 PROVIDE 15 CFM EXHAUST FAN, BROAN MODEL 4C375 OR APPROVED EQUAL WITH GRAVITY BACK DRAFT DAMPER. TO BE CONTROLED BY A SEPARATE WALL MOUNTED SWITCH NEXT TO THE OVERHEAD LIGHT SWITCH.
2. AIR COMPRESSOR: CIRCUIT EDP-1. PROVIDE DISCONECT* SWITCH LOCATED IN LOFT AREA NEXT TO UNIT.
3. SURFACE MOUNTED EXTERIOR WALL LIGHTS ADJACENT TO DOOR D1, D-2, D-3 TO BE LIGHTOLIER MODEL 6T30 OR APPROVED EQUAL.
4. PROVIDE EMERGENCY LIGHT PACK UNIT TO BE INSTALLED ON BLOCK WALL SUPPORTING LOFT STAIRS APPROX. 7'-0" A.F.F., UNIT HEAD TO BE DIRECTED AT DOOR D-1 ** ADDITIONAL REMOTE HEADS DIRECTED AT DOORS D-2 & D-3 WITH EACH OF THESE WITHIN 25'-0" OF EXITS.
5. LOFT LIGHTS TO BE STEM MOUNTED, SUSPENDED 12"

*FUSEABLE (DUAL ELEMENT)
** SECOND LIGHT TO ILLUMINATE ELECT. DIST. PANELS.

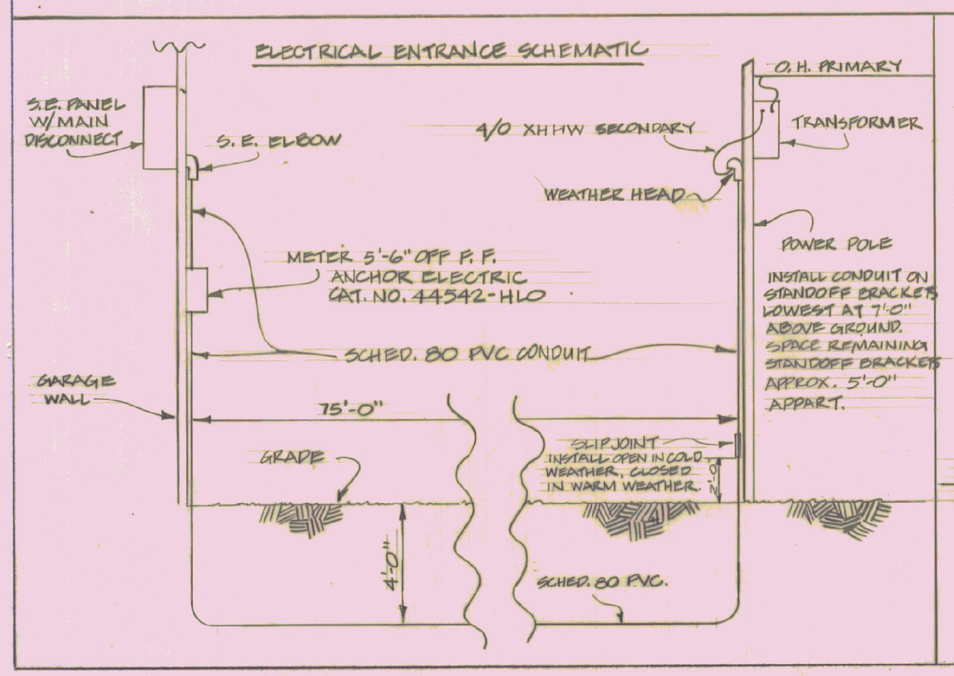
GENERAL NOTES:

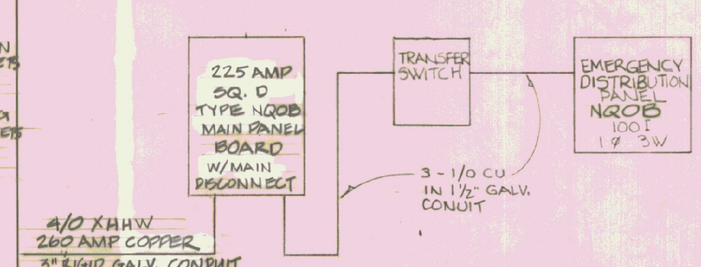
- (S) LITHONIA LB 240 A W/ENERGY SAVING BALLAST SURFACE MOUNTED
- (S) LITHONIA PV 240 W/RECEP TO BE SUPPLIED W/ENERGY SAVING BALLAST MOUNTED OF STEMS 1" ABOVE BOTTOM OF BEAMS
- (T) THERMOSTAT - CONNECT TO CIRCUIT
- (◐) 50 AMP WELDER OUTLET
- (TE) ALLOW FOR TELEPHONE SLEEVE THRU EXTERIOR WALL COORDINATE WITH LOCAL TELEPHONE CO.

ALL WALL OUTLETS & SWITCHES OF ALL LOCATIONS SHALL BE AT LEAST 46" OFF FLOOR (AROUND BOILER KEEP OUTLETS 4'-8" MIN. ABOVE FLOOR) ELEC. DEVISES & WIRING SHALL BE SURF. MOUNTED.

See BURNER SAFETY SWITCH-MOUNT 6'-0" ABOVE FIN. FL.

ALL EXPOSED WIRING SHALL BE INSTALLED IN CONDUIT GREENFIELD AT ROTATING MACHINERY.





ELECTRICAL FEEDER DIAGRAM

EMERGENCY DISTRIBUTION PANEL SCHEDULE

PANEL "EDP" CIRCUIT BREAKER TYPE, SQ D SPLIT BUS LOAD CNTR. 20 POLE MIN 120/240 1Ø 3 WIRE 100 AMP MAIN W/MAIN BRKR. 10000 ICR

CIRC.	BREAKER AMP	BREAKER POLE	EQUIPMENT SERVED	H.P.	REMARKS
1	30	2	AIR COMPRESSOR	5.0	
2	20	1	OFF./BATH/GREASE/FURN. LGT.		
3	20	1	SHOP LIGHTING (MID-BAY)		
4	20	2	WOOD FURNACE FAN	1.5	WOOD FURNACE
5	20	1	OIL BURNER		OIL FURNACE
6	20	2	SPARE		
7	20	1	FUEL PUMP - GAS		SWITCH IN OFFICE
8	20	1	FUEL PUMP - DIESEL		" " "
9	20	1	FUEL OIL TRANSFER PUMP		
10	20	1	1 ROW REAR SHOP RECEPS		
11	20	1	SPARES		

*PROVIDE PANEL BOARD WITH BOLT ON BREAKERS MODEL SIMILAR TO MAIN DISTRIBUTION PANEL, SIZE AND CIRCUITRY AS ORIGINALLY SPECIFIED.

STATE OF VERMONT
AUSTINO N. MASTRO No. 3022 REGISTERED PROFESSIONAL ENGINEER

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

AGENCY OF TRANSPORTATION
FIVE BAY GARAGE WITH OFFICE
WINDSOR, VT ~ DISTRICT 4

MECHANICAL & ELECTRICAL PLANS

DATE:	SCALE:	REVISIONS:	DWG. NO.
AUG 1, 1983	AS SHOWN	AVP - 8/26/83 AVP - 12/23/83	M & E - 1
DRAWN BY: R. BASETTI	APPROVED BY: A. N. Mastro		12 OF 12