

LEGEND

	BALL VALVE, FULL PORTED, 5/8" BALL
	BALL VALVE WHOSE THREADS & BRASS CAP
	STRAINER & BALL VALVE BLOW DOWN
	MAKING VALVE SET @ 95°F
	TACO 5003-C1
	PRESSURE RELIEF VALVE, PIPE TO G.A.F.F.
	THERMOSTAT, MOUNT @ 5'4" A.F.F.
	THERMOMETER
	CIRCULATOR
	PRESSURE GAUGE
	TOILER-ANDERSON STAD BALANCING VALVE
	CHECK VALVE
	CONNECTION BETWEEN EXIST. & NEW

SEQUENCE OF CONTROLS

- EXISTING BOILER CONTROLS, CIRCULATOR P-2 & P-3 TO REMAIN AS IS.
- WHEN OUTDOOR AIR FALLS BELOW 60° (ADJ):
 - CIRCULATORS P-1, P-2 AND P-3 ARE STARTED.
 - CIRCULATOR P-4 IS ENDED.
- CIRCULATOR P-4 TO BE CONTROLLED BY A WISSCO PLOWK CONTROLLER. CONTROLLER TO SENSE OUTSIDE AIR TEMPERATURE, GARAGE TEMPERATURE, & LOOP TEMPERATURE AND MODULATE INJECTOR, CIRCULATOR P-4 TO MAINTAIN CALCULATED LOOP SUPPLY SETPOINT. SETPOINT OFFSET ON RATIO TO BE ADJUSTABLE AT CONTROLLER. SETPOINT TO BE RISE ON OUTDOOR AIR TEMPERATURE BASED ON THE FOLLOWING SCHEDULE:

OUTSIDE AIR TEMP.	SETPOINT
-20°F	40°F
-40°F	57°F
77°F	77°F
- FAN F-1 TO BE CONTROLLED BY A SPING WOUND TIMER SWITCH. MAXIMUM 15 MINUTES.
- MOD-1 TO OPEN WHENEVER FAN F-1 OPERATES AND CLOSES WHEN F-1 STOPS.

EQUIPMENT SCHEDULE

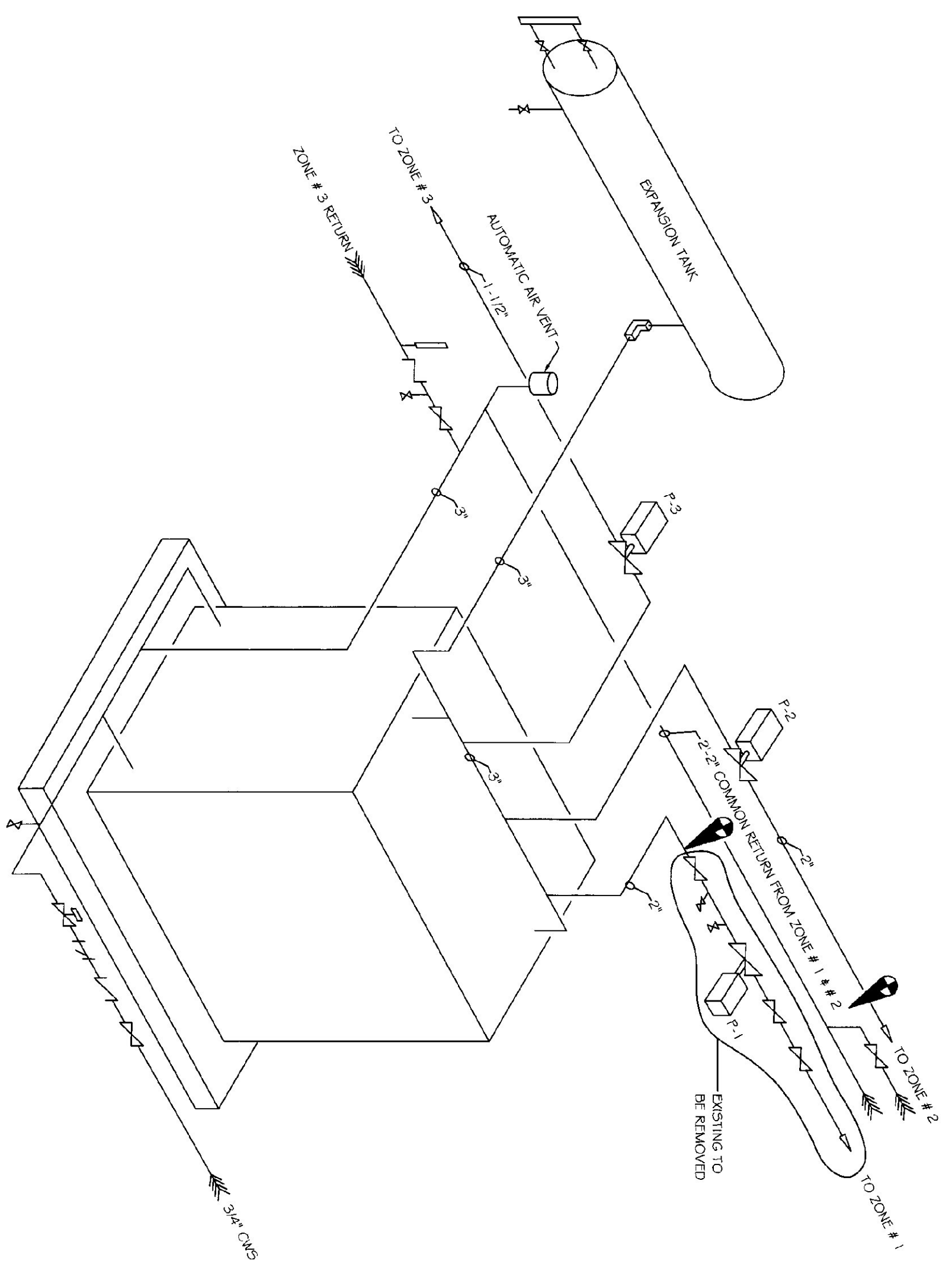
PLAN SYMBOL	DESCRIPTION	MANUF. & MODEL	CHARACTERISTICS	ELECTRIC VOLTAGE/PH	NOTES
L-1	RELIEF LOUVER	VENT PRODUCTS 2750	36" x 36"		
MCO-1	RELIEF DAMPER	VENT PRODUCTS 5703	36" x 36"	120V/60	BEHIND DIRECT COUPLED ACTUATOR STRING WOUND N.C.

CIRCULATOR SCHEDULE

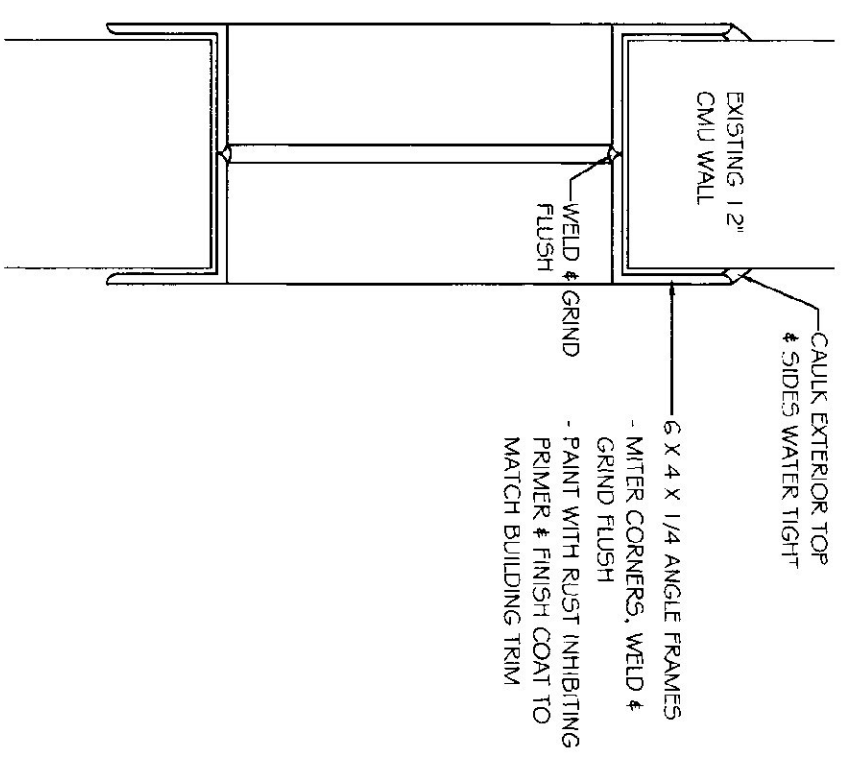
PLAN SYMBOL	SYSTEM	MANUF. & MODEL	G.P.M.	FEET HEAD	H.P.	ELECTRICAL	R.P.M.	NOTES
P-1	MAIN	TACO 0010	17	7.0	1/15	120V/60 1.2 A	3250	
P-2	GARAGE ZONE	B & G 60-2AAA	50	25	3/4	120V/60	1725	EXISTING
P-3	OFFICE / BATHROOM	B & G 60-1 1/2AAA	25	25	1/2	120V/60	1725	EXISTING
P-4	GARAGE INJECTION	TACO 005	5.8	7.0	3/4	120V/60 5.3 A	3250	
P-5	GARAGE SLAB	TACO 1615	40.7	25	1/95	120V/60	1750	

FAN SCHEDULE

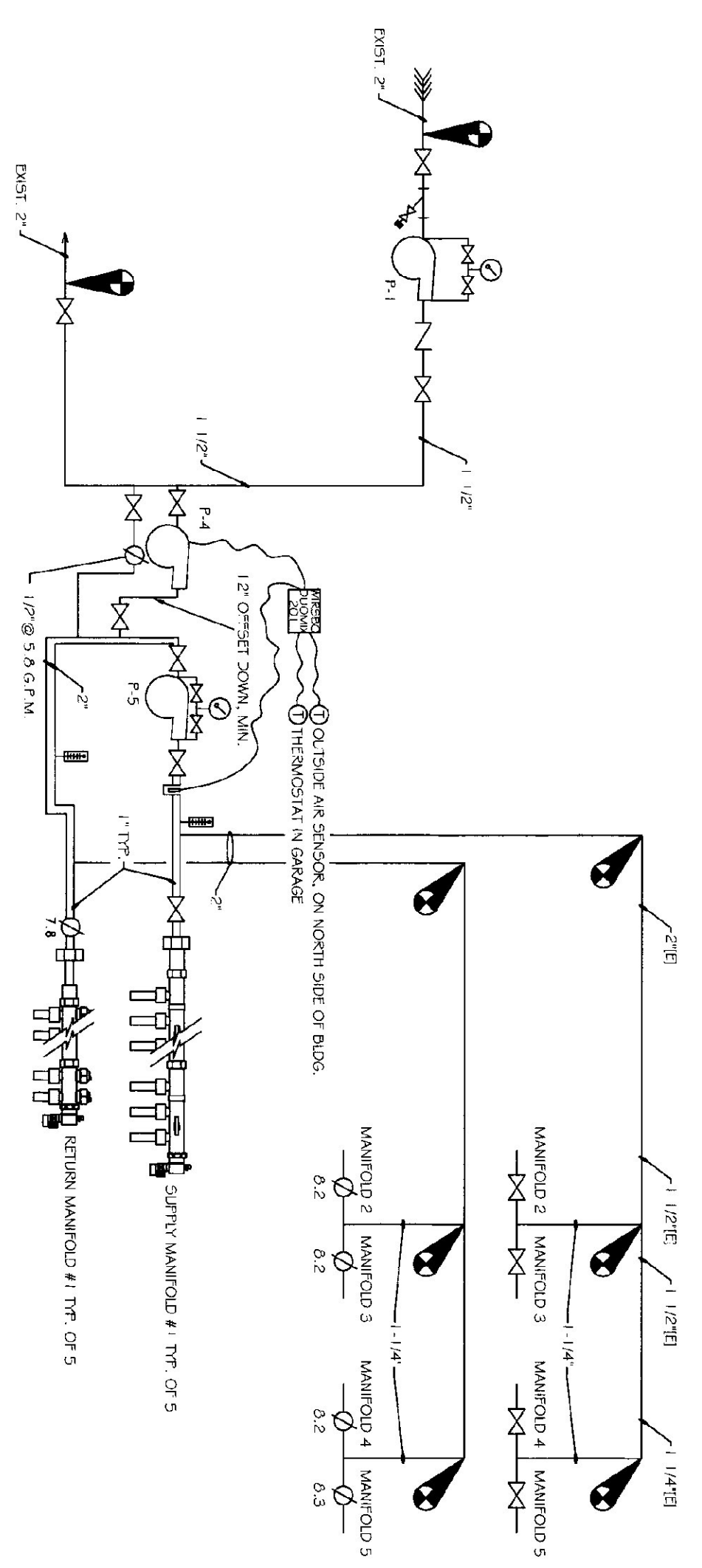
PLAN SYMBOL	SYSTEM	MANUF. MODEL & TYPE	C.F.M.	S.P. IN.	SONES	FAN RPM	HP.	ELECTRICAL	NOTES
F-1	GARAGE VENT	GREENHECK 3505-1120-4	3000	1.25	11.8	764	1/4	120V/60	WEATHER HOOD, SCREEN & BUD



EXISTING BOILER DETAIL
NOT TO SCALE



FRAMING DETAIL FOR NEW OPENINGS FOR LOUVERS / FAN
NOT TO SCALE



HYDRONIC PIPING SCHEMATIC
NOT TO SCALE

