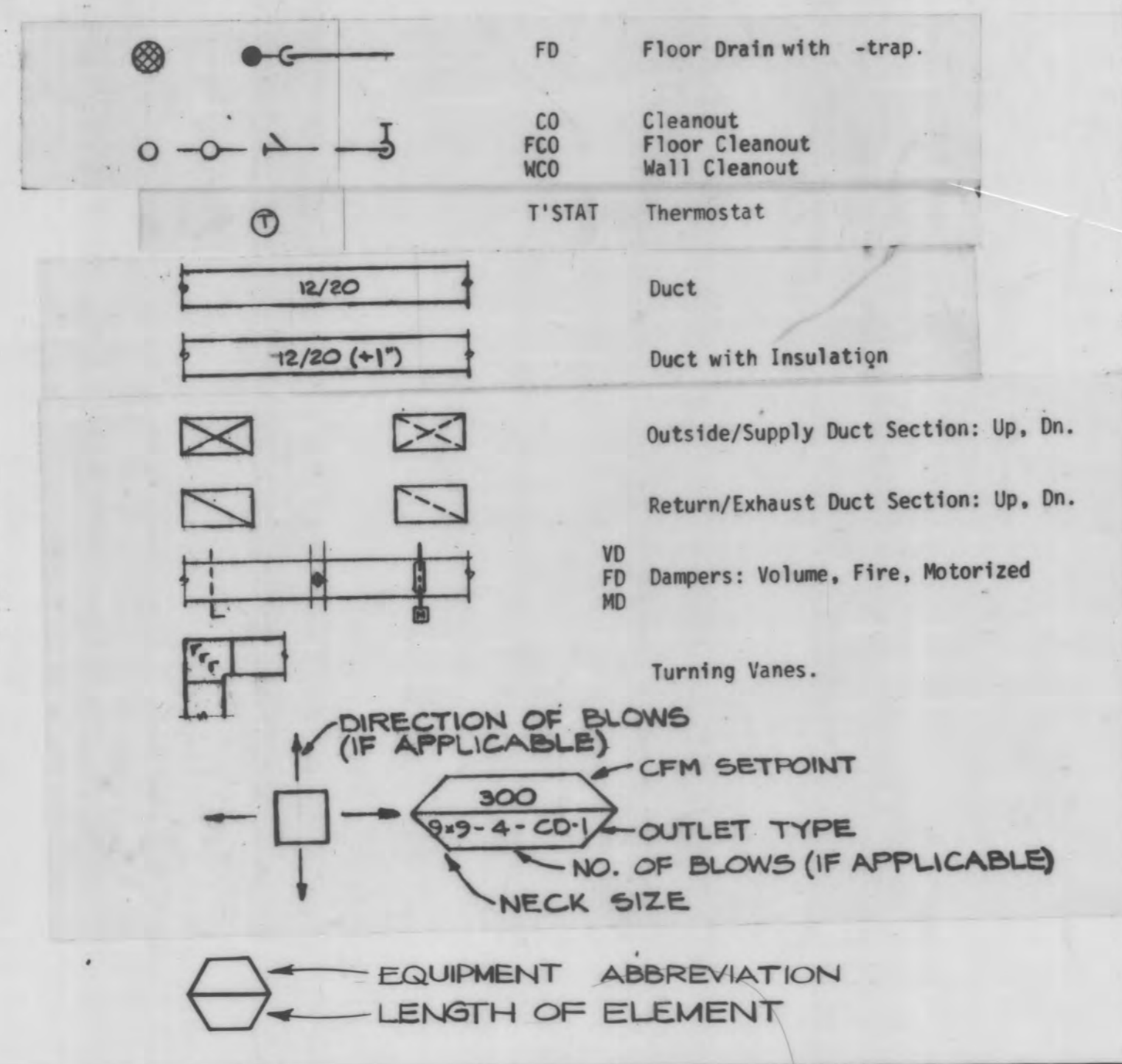


# MECHANICAL LEGEND

	S	Sanitary Sewer
	W	Waste or Soil (above ground)
	V	Vent
	CWM	City Water Main
	CW	Potable Cold Water
	HW	Hot Water (140 F.)
	THW	Tempered Hot Water (100 F.)
	CHW	Circulating Hot Water
	(G)HMS	(Glycol) Heating Water Supply
	(G)HMR	(Glycol) Heating Water Return
	BF	Boiler Feed Water
	FOS	Fuel Oil Supply
	FOR	Fuel Oil Return
	FOV	Fuel Oil Vent
	GV	Gate Valve
	GLV	Globe Valve
	CKV	Check Valve
	BC	Balancing Cock with Taps
	SC	Square Head Cock
	STR	Strainer
	RV	Relief Valve
	SV	Safety Valve
	P&T	Pressure & Temperature Relief Valve
	SCV	Self-Contained Control Valve
	2MVCV	2-way Motorized Control Valve
	3MVCV	3-way Motorized Control Valve
	FLV	Fusible Link Valve
	OSV	Oil Safety Valve
	GC	Gauge Cock
	DV	Drain Valve
	WH	Wall Hydrant
	HB	Hose Bibb
	MAV	Manual Air Vent
	AAV	Automatic Air Vent
	UN, FLG	Union or Flange
	FPC	Flexible Pipe Connector
	WHA	Water Hammer Arrestor
		Direction of Pitch, Flow
		Elbow: Side, Up, Down
		Tee: Side, Up, Down
		Reducer: Eccentric, Concentric
		Cap or Plug
	PA	Pipe Anchor
	PG	Pipe Guide
	MS	Wall Sleeve
	EJ	Expansion Joint
	TH	Thermometer
	PG, PGS	Pressure Gauge with gauge cock, with gauge lock and syphon
	P&TT	Pressure and Temperature Tap
		Aquatat, Flow Switch, High Limit, Tridicator.
		SPRINKLER HEAD



## ABBREVIATIONS

CI	Cast Iron	S/M	Sheet Metal
CLG	Ceiling	SPD	Static Pressure Drop
CMF	Corrugated Metal Pipe	TDR	Time Delay Relay
CFM	Cubic Feet Per Minute	TYP	Typical
Cv	Valve Coefficient	VTR	Vent Thru Roof
DN	Down	V	Volts
DPS	Differential Pressure Switch	WPD	Water Pressure Drop
EA(D)	Exhaust Air (Damper)	WG	Water Gauge
ESP	External Static Pressure	WSP	Wood Stave Pipe
FAI	Fail As Is	PD	(Medium) Pressure Drop
FPM	Feet Per Minute	A T	Average (Medium) Temperature
GA	Gauge	E T	Entering (Medium) Temperature
GPH	Gallons Per Hour	L T	Leaving (Medium) Temperature
GPM	Gallons Per Minute	A	Air
HD	Head	G	Glycol
HP	Horsepower	W	Water
ID	Inside Diameter	⊕	CONNECT
IE	Invert Elevation	⊖	EXISTING
IPS	Iron Pipe Size	⊗	IN JOIST SPACE
MAX	Maximum		
MBH	Thousand BTU/Hour		
MIN	Minimum		
MS	Motor Starter		
MSS	Motor Starter Switch		
NC	Normally Closed		
NO	Normally Opened		
NIM	Specified or Indicated Under Another Division		
OA(D)	Outside Air (Damper)		
OC	On Center		
OD	Outside Diameter		
PL	Pilot Light		
P&T	Pressure & Temperature		
PH	Phase		
RA(D)	Return Air (Damper)		
RPM	Revolutions Per Minute		

# MECHANICAL EQUIPMENT SCHEDULE

SYMBOL	ITEM	CAPACITY/SIZE	MOTOR DATA	BASIS OF DESIGN
B-1	OIL-FIRED WET-BASE BOILER	412.0 MBH GROSS OUTPUT, GLYCOL/WATER SOLUTION, 2 STAGE FUEL OIL PUMP	1/6 HP 115 V 1 φ	SLANT/FIN MODEL NO. 78-385
CUH-1	CABINET UNIT HEATER NORTH ENTRY	32.5 MBH @ 2.6 GPM, 50% GLYCOL/WATER SOLUTION, 190F EGT, 70F EAT, 300 CFM, INTEGRAL SUPPLY AND RETURN GRILLES.	1/30 HP 115 V 1 φ	TRANE HORIZONTAL FULLY RECESSED E46A003
CUH-2	CABINET UNIT HEATER WEST ENTRY	32.7 MBH @ 2.6 GPM, 50% GLYCOL/WATER SOLUTION, 190F EGT, 70F EAT, 400 CFM, INTEGRAL SUPPLY AND RETURN GRILLES	1/30 HP 115 V 1 φ	TRANE HORIZONTAL FULLY RECESSED E46A004
CUH-3	CABINET UNIT HEATER COURT	13.25 MBH @ 1.2 GPM, 50% GLYCOL/WATER SOLUTION, 190F EGT, 70 EAT, 200 CFM.	1/3 HP 115 V 1 φ	TRANE HORIZONTAL E46A003
EF-1	KITCHEN HOOD EXHAUST FAN	ROOF MOUNTED, UP-BLAST EXHAUST FAN, 1,000 CFM, @ 1.0" WG ESP, BALL BEARINGS TO BE ARCTIC LUBRICATED.	3/4 HP 115 V 1 φ	PENN VENTILATOR FMX-14 B
EF-2	TOILET EXHAUST FAN	250 CFM @ .25" WG ESP, RECESSED CEILING MOUNTED WITH INTEGRAL GRILLE.	130 WATTS INPUT 115 V 1 φ	PENN VENTILATOR ZEPHYR MODEL NO. 2-10
EF-3	TOILET EXHAUST FAN	250 CFM @ .25" WG ESP, RECESSED CEILING MOUNTED WITH INTEGRAL GRILLE.	130 WATTS INPUT 115 V 1 φ	PENN VENTILATOR ZEPHYR MODEL NO. 2-10
EF-4	JANITOR EXHAUST FAN	50 CFM @ .125" WG ESP, RECESSED CEILING MOUNTED WITH INTEGRAL GRILLE.	115 V 1 φ	PENN VENTILATOR ZEPHYRETTE
RH-1	KITCHEN RANGE HOOD	SIZE: 48" LONG X 44" WIDE, CANOPY WALL TYPE, STAINLESS STEEL, 16" x 20" MAX. FILTER SIZE, UL AND NSF LISTED DESIGN.	115V (LIGHT)	EXTRACT-O-VENT MODEL EX-SCH STAINLESS STEEL W/ SPECIAL FILTERS AND CEILING CLOSURE PANELS COMPLETE W/ HARDWARE SUPPLIED PER CHEMICAL F.E. SYSTEM. INSTALL TYP. FENTILE ON WALL ADJ. TO HARD AS DIRECTED BY ARCHITECT.
FCU	FAN COIL UNIT, KITCHEN MAKE UP AIR	FAN: 1,000 SCR-1 @ .90" WG ESP, INTERNAL SPRING ISOLATION, BELT DRIVE, HORIZONTAL DRAW THRU, BOTTOM ACCESS. COIL: 125.6 MBH, 14.6 GPM, 50% GLYCOL/WATER SOLUTION, 190F EGT, -48F EAT. MAX APD = 18" WG MAX GPD = .78" WG	1/2 HP 115 V 1 φ	FAN: PACE 73B, 1594 RPM, .38 BHP. COIL: PACE 122W, 10-1/2 X 26 RA 6/2
FTR-1	FINNED TUBE RADIATION	1,149 NET BTUH/LF, 50% GLYCOL/WATER SOLUTION, 180 AGT, 65F EAT, 1-1/4" DIA. COPPER TUBE WITH ALUMINUM FINS, RETURN LINE RUN WITHIN ENCLOSURE, TOP OUTLET EXTRUDED GRILLE.		TRANE TYPE TA, 1 RAW ENCLOSURE 16TA SERIES 60 2-3/4" FINS
FTR-2	FINNED TUBE RADIATION	625 NET BTUH/LF, 50% GLYCOL/WATER SOLUTION, 180 AGT, 65 EAT 1" DIA. COPPER TUBE WITH ALUMINUM FINS, RETURN LINE RUN WITHIN ENCLOSURE, TOP OUTLET, EXTRUDED GRILLE.		TRANE TYPE TA, 1 RAW ENCLOSURE 14TA. SERIES 60 2-3/4" FINS
WH-1	OIL-FIRED DOMESTIC HOT WATER HEATER	32 GALLON CAPACITY STORAGE, 120 GPH RECOVERY @ 100F RISE, GLASS LINED, 2 STAGE FUEL OIL PUMP.	1/8 HP 115 V 1 φ	BOCH MODEL NO. 32E
CP-1	CIRCULATING PUMP, GLYCOL/WATER SOLUTION, HEATING SYSTEM	15 GPM, 10' TDH, BRONZE CONSTRUCTION, IN-LINE MOUNTED.	1/6 HP 115 V 1 φ	B & G BOOSTER PUMP MODEL NO. 144HV
CP-2	CIRCULATING PUMP, GLYCOL/WATER SOLUTION, FAN COIL UNIT	14.6 GPM, 4-2' TDH, BRONZE CONSTRUCTION, IN-LINE MOUNTED.	1/12 HP 115 V 1 φ	B & G IN-LINE BOOSTER PUMP SERIES 100, 1-1/4" FLANGE
CP-3	CIRCULATING PUMP, DOMESTIC HOT WATER	5 GPM @ 5' TDH, 180F DOMESTIC HOT WATER, IN-LINE MOUNTED, BRONZE CONSTRUCTION.	1/12 HP 115 V 1 φ	B & G NO. 75
CP-4	CIRCULATING PUMP, DOMESTIC COLD WATER	5 GPM @ 5' TDH, IN-LINE MOUNTED, BRONZE CONSTRUCTION.	1/12 HP 115 V 1 φ	B & G NO. 75
CD-1	SUPPLY DIFFUSER	12"x12", 500 CFM, .07" SPD, SQUARE CEILING DIFFUSER, ALUMINUM CONSTRUCTION W/OBD		AIRGUIDE TYPE AVP-08, CORE 24

JANET MATHESON ARCHITECT

P.O. BOX 81038  
FAIRBANKS,  
ALASKA 99708  
(907) 452-4640

CITY OF FAIRBANKS  
SENIOR CITIZENS RECREATION  
& NUTRITION CENTER

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AS BUILT

MECHANICAL EQUIPMENT SCHEDULE & LEGEND

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OWN JWD CKD MAC  
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