

PLUMBING FIXTURE SCHEDULE

EQ. ID	DESCRIPTION	SERVICE/CONNECTIONS				BASIS OF DESIGN: PRIMARY FIXTURE		BASIS OF DESIGN: SECONDARY FIXTURE		COMMENT(S)
		CW	HW	W	V	MANUFACTURER	MODEL	MANUFACTURER	MODEL	
HB-1	HOSE BIB, FREEZE-PROOF	3/4"								
P-1	WATER CLOSET	1/2"		3"	2"					WITH OPEN-FRONT SEAT, LESS LID
P-1A	WATER CLOSET, ADA COMPLIANT	1/2"		3"	2"					WITH OPEN-FRONT SEAT, LESS LID
P-1R	WATER CLOSET, RESIDENT UNITS	1/2"		3"	2"					WITH CLOSED-FRONT SEAT AND LID
P-2	URINAL	3/4"		2"	2"					WITH SLOAN FLUSH VALVE (186 SERIES)
P-3	LAVATORY	1/2"	1/2"	2"	1-1/2"					WITH ASSE A1070 COMPLIANT FAUCET
P-3A	LAVATORY	1/2"	1/2"	2"	1-1/2"					WITH ASSE A1070 COMPLIANT FAUCET
P-3R	LAVATORY, RESIDENT UNITS	1/2"	1/2"	2"	1-1/2"					
P-4	BAR SINK, SINGLE-COMPARTMENT	1/2"	1/2"	2"	1-1/2"					WITH ASSE A1070 COMPLIANT FAUCET
P-4R	KITCHEN SINK, DOUBLE-COMPARTMENT, RESIDENT UNITS	1/2"	1/2"	2"	1-1/2"					
P-5R	TUB/SHOWER, RESIDENT UNITS	1/2"	1/2"	2"	2"					WITH PRESSURE-BALANCED SHOWER VALVE
P-6	LAVATORY	1/2"	1/2"	2"	1-1/2"					WITH ASSE A1070 COMPLIANT FAUCET
P-7	CLOTHES WASHER OUTLET BOX	1/2"	1/2"	2"	2"					WITH WATER HAMMER ARRESTORS
P-8	JANITOR'S SINK	1/2"	1/2"	2"	2"					
P-9	LAUNDRY TUB	1/2"	1/2"	2"	2"					
P-10	3-COMPARTMENT SINK, WARMING KITCHEN	3/4"	3/4"	2"	2"					

MISCELLANEOUS PLUMBING EQUIPMENT SCHEDULE

EQ. ID	DESCRIPTION	CONNECTIONS				BASIS OF DESIGN		COMMENTS
		CW	HW	W	V	MANUFACTURER	MODEL	
GI-1	GREASE INTERCEPTOR, RATED FOR 15 GPM FLOW, WITH FLOW CONTROL VALVE					JR SMITH	8015	
TP-1	TRAP PRIMER	1/2"				PRECISION PLUMBING PRODUCTS	P1-500	
FD-1	FLOOR DRAIN			2"	2"			
FS-1	FLOOR SINK			2"	2"			

WATER HEATER SCHEDULE

EQ. ID	DESCRIPTION	FUEL INPUT		TEMP.		TANK SIZE (GAL)	PERFORMANCE		ELECTRICAL				BASIS OF DESIGN		COMMENT(S)	
		FUEL TYPE	MBH	GPH	EWT		LWT	1ST HR (GAL)	CONTI. (GPH)	W/KW	AMPS	VOLTAGE	PHASE	MANUFACTURER		MODEL
WH-1	STORAGE TANK INDIRECT WATER HEATER	INDIRECT	91		50 °F	115 °F	80	270							HTP	CONTENDER SERIES, SSC-80
WH-2	STORAGE TANK INDIRECT WATER HEATER	INDIRECT	91		50 °F	115 °F	80	270							HTP	CONTENDER SERIES, SSC-80

BOILER SCHEDULE

EQ. ID	DESCRIPTION	PERFORMANCE			ELECTRICAL				BASIS OF DESIGN		COMMENT(S)
		FUEL TYPE	INPUT (MBH)	INPUT (GPH)	OUTPUT (MBH)	W/KW	AMPS	VOLTAGE	PHASE	MANUFACTURER	
BLR-1	OIL-FIRED CAST IRON SECTIONAL BOILER	FUEL OIL	203	1.45	152	15	120	1	WEIL MCLAIN	WGO-5	
BLR-2	OIL-FIRED CAST IRON SECTIONAL BOILER	FUEL OIL	203	1.45	152	15	120	1	WEIL MCLAIN	WGO-5	

PUMP SCHEDULE

EQ. ID	DESCRIPTION	FLUID TYPE	PERFORMANCE		PUMP INFORMATION		VFD (YES/NO)	MOTOR		ELECTRICAL				BASIS OF DESIGN		COMMENT(S)	
			FLOW	HEAD	SIZE	IMPELLER		HP	RPM	W/KW	AMPS	VOLT	PHASE	MANUFACTURER	MODEL		
CP-1A	PRIMARY HYDRONIC PUMP	PG 50	31.40 GPM	35.0 FT			YES			800		115	1	TACO	VIRIDIAN VR20		
CP-1B	PRIMARY HYDRONIC PUMP	PG 50	31.40 GPM	35.0 FT			YES			800		115	1	TACO	VIRIDIAN VR20		
CP-21	BOILER CIRCULATION PUMP	PG 50	15.60 GPM	10.0 FT			NO	1/6				120	1	TACO	0013		
CP-22	BOILER CIRCULATION PUMP	PG 50	15.60 GPM	10.0 FT			NO	1/6				120	1	TACO	0013		
CP-31	WATER HEATER HEATING CIRCULATION PUMP	PG 50	12.00 GPM	10.0 FT			NO	1/6				120	1	TACO	0013		
CP-32	WATER HEATER HEATING CIRCULATION PUMP	PG 50	12.00 GPM	10.0 FT			NO	1/6				120	1	TACO	0013		
CP-41	DOMESTIC HOT WATER CIRCULATION PUMP	DHW	2.00 GPM	15.0 FT			NO					120	1	TACO	008		
GT-1	GLYCOL MAKE-UP TANK PACKAGE	PG 50								50		120	1	AXIOM INDUSTRY	MF-200	WITH LOW LEVEL ALARM MODULE. COORDINATE FOR DUPLEX ELECTRICAL OUTLET ADJACENT TO UNIT.	
RMB-1	RADIANT FLOOR SYSTEM ZONE PUMP	PG 50										2.0	120	1	TACO	RMB-1	SEE RADIANT SYSTEM SCHEDULE FOR ADDITIONAL INFORMATION
RMB-2	RADIANT FLOOR SYSTEM ZONE PUMP	PG 50										2.0	120	1	TACO	RMB-1	SEE RADIANT SYSTEM SCHEDULE FOR ADDITIONAL INFORMATION
RMB-3	RADIANT FLOOR SYSTEM ZONE PUMP	PG 50										2.0	120	1	TACO	RMB-1	SEE RADIANT SYSTEM SCHEDULE FOR ADDITIONAL INFORMATION
RMB-4	RADIANT FLOOR SYSTEM ZONE PUMP	PG 50										2.0	120	1	TACO	RMB-1	SEE RADIANT SYSTEM SCHEDULE FOR ADDITIONAL INFORMATION

HYDRONIC TERMINAL UNIT SCHEDULE

EQ. ID	DESCRIPTION	OUTPUT (MBH)	AIRFLOW (CFM)	HYDRONIC			MOTOR			W/KW	AMP	VOLT	PHASE	BASIS OF DESIGN		COMMENT(S)
				FLUID TYPE	FLOW (GPM)	PRES. (W.C.)	EFT	LFT	HP					RPM	MANUFACTURER	
UH-1	HYDRONIC UNIT HEATER	7.1	340 CFM	PG 50	0.80 GPM	0.50 FT	180 °F	160 °F	1/60			120	1	MODINE	HC-18	

HEATING AND COOLING COIL SCHEDULE

EQ. ID	DESCRIPTION	CAP (MBH)	FLOW (CFM)	SP (IN WC)	EAT	LAT	FLUID TYPE	FLOW (GPM)	PD (FT WC)	EFT	LFT	BASIS OF DESIGN		COMMENT(S)
												MANUFACTURER	MODEL	
HC-1	REHEAT COIL	32.4	1150	0.08	42 °F	68 °F	PG 50	3.6	2.5	180 °F	160 °F	GREENHECK	HW58S01B12-20X10	20"X10" COIL DIMENSIONS

HEAT PUMP OUTDOOR UNIT SCHEDULE

EQ. ID	DESCRIPTION	PERFORMANCE (RATED)			REFRIGERANT		ELECTRICAL			BASIS OF DESIGN		COMMENT
		CLG CAP (MBH)	CLG SEER/IEER	HTG CAP (MBH)	HTG COP	TYPE	CHARGE (LB)	VOLTAGE	PHASE	MCA/MOP (AMP)	MANUFACTURER	
ACCU-1	HEAT PUMP OUTDOOR UNIT	57.0		57.0				240	1	29/35	DAIKIN	RXTQ60TAVJU
ACCU-2	HEAT PUMP OUTDOOR UNIT	57.0		57.0				240	1	29/35	DAIKIN	RXTQ60TAVJU

HEAT PUMP INDOOR UNIT SCHEDULE

EQ. ID	DESCRIPTION	PERFORMANCE (RATED)			REFRIGERANT	ELECTRICAL			BASIS OF DESIGN		COMMENT
		CLG CAP (MBH)	HTG CAP (MBH)	CLG LOAD (KW)		HTG LOAD (KW)	TYPE	VOLTAGE	PHASE	MCA/MOP (AMP)	
FCU-11	CEILING RECESSED CASSETTE FAN COIL UNIT	9.5	11.1				240	1	0.8/15	DAIKIN	FXZQ09
FCU-12	CEILING RECESSED CASSETTE FAN COIL UNIT	9.5	11.1				240	1	0.8/15	DAIKIN	FXZQ09
FCU-13	CEILING RECESSED CASSETTE FAN COIL UNIT	9.5	11.1				240	1	0.8/15	DAIKIN	FXZQ09
FCU-21	CEILING RECESSED CASSETTE FAN COIL UNIT	9.5	11.1				240	1	0.8/15	DAIKIN	FXZQ09
FCU-22	CEILING RECESSED CASSETTE FAN COIL UNIT	9.5	11.1				240	1	0.8/15	DAIKIN	FXZQ09
FCU-23	CEILING RECESSED CASSETTE FAN COIL UNIT	9.5	11.1				240	1	0.8/15	DAIKIN	FXZQ09

INSULATION SCHEDULE

DUCT WORK INSULATION REQUIREMENTS:

SUPPLY AIR DUCT:	NONE
RETURN AIR DUCT:	NONE
OUTSIDE AIR DUCT:	2" INSULATION WITH VAPOR BARRIER
EXHAUST AIR DUCT (CONDITIONED SPACES):	1" INSULATION WITH VAPOR BARRIER
EXHAUST AIR DUCT (ATTIC):	1" INSULATION WITH VAPOR BARRIER
EXHAUST DUCT (WARMING KITCHEN HOOD):	NONE

PIPING INSULATION REQUIREMENTS:

DOMESTIC COLD WATER:	NONE
DOMESTIC HOT WATER:	1" INSULATION WITH ALL PURPOSE JACKET
DOMESTIC HOT WATER CIRCULATION:	1" INSULATION WITH ALL PURPOSE JACKET
SANITARY WASTE PIPING:	NONE
HYDRONIC HEATING PIPING SYSTEM:	1" INSULATION WITH ALL PURPOSE JACKET
REFRIGERANT LINE, LIQUID AND SUCTION:	1" CLOSED-CELL FOAM INSULATION
CONDENSATE DRAIN:	NONE
RADIANT SYSTEM LOOP RUNOUT/TAIL:	1" CLOSED-CELL FOAM INSULATION

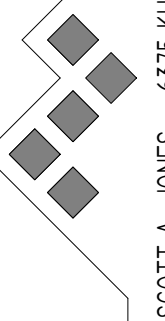


REV. NO.: 01 27NOV17



SAJU ARCHITECTURE, LLC

6375 KULIS DRIVE, ANCHORAGE, ALASKA 99502
#907-440-6606 #907-258-6606 (FAX)



SCOTT A. JONES

OUZINKIE OFFICE

OUZINKIE NATIVE CORP

DR: JTC

CK: JTC/TLT

DT: -

JB: OUZINKIE

DWG: MECHANICAL EQUIPMENT SCHEDULES

M1.1

FAN SCHEDULE

EQ. ID	DESCRIPTION	PERFORMANCE		FAN INFORMATION		VFD (YES/NO)	MOTOR		ELECTRICAL			BASIS OF DESIGN		COMMENT(S)
		CFM	ESP (in-wc)	DRIVE	RPM		HP	RPM	W/KW	AMPS	VOLTAGE	PHASE	MANUFACTURER	
CEF-1	CRAWL SPACE VENTILATION FAN	90	0.25						120	1	FANTECH	FR 100		WITH ON/OFF CONTROL BY DEDICATED CRAWL SPACE HUMIDISTAT
EF-1	EXHAUST FAN, RESTROOMS	100	0.25						0.27	120	1	PANASONIC	WHISPERGREEN SELECT FV-05-11VKS1	AUTOMATIC HIGH-LOW FAN CFM CONTROL WITH OCCUPANCY SENSOR.
EF-1R	EXHAUST FAN, RESIDENT UNITS	50	0.25						0.27	120	1	PANASONIC	WHISPERGREEN SELECT FV-05-11VKS1	HIGH-LOW FAN CFM CONTROL WITH WALL SWITCH (COORDINATE WITH ELECTRICAL) AND WITH HUMIDITY SENSOR FOR HIGH HUMIDITY LEVEL OVERRIDE TO HIGH CFM.
EF-2	EXHAUST FAN, KITCHEN	200	0.25						42W	120	1	PANASONIC	WHISPERCEILING FV-20VQ3	
EF-3	PANTRY/STORAGE	50	0.25						0.27	120	1	PANASONIC	WHISPERGREEN SELECT FV-05-11VKS1	HIGH-LOW FAN CFM CONTROL WITH HUMIDITY SENSOR FOR HIGH HUMIDITY LEVEL OVERRIDE TO HIGH CFM.
EF-4	LAUNDRY ROOM	50	0.25						0.27	120	1	PANASONIC	WHISPERGREEN SELECT FV-05-11VKS1	HIGH-LOW FAN CFM CONTROL WITH HUMIDITY SENSOR FOR HIGH HUMIDITY LEVEL OVERRIDE TO HIGH CFM.
EF-5	CENTRAL EXHAUST FAN, INLINE	350	0.00						1.10	120	1	PANASONIC	WHISPERLINE FV-40IFL	
EF-6	LAUNDRY DRYER BOOSTER FANS	200							0.54	120	1	FANTECH	DBF 110	
EF-7	TRANSFER FAN / IT ROOM	100	0.10						0.23	120	1	PANASONIC	WHISPERCEILING FV-15VQ5	WITH CEILING MOUNTED CONTROL THERMOSTAT
HD-1	KITCHEN HOOD	500	0.00							120	1	GREENHECK	GRRS-36	INTERLOCK WITH KEF-1
HD-1R	KITCHEN EXHAUST HOOD, RESIDENT UNITS	200							2.0	120	1	NUTONE	RL6200 SERIES OR EQUAL	
HRV-1	HEAT RECOVERY VENTILATOR	1160	0.60						18.8	120	1	LIFEBREATH	1200 FD	
KEF-1	KITCHEN HOOD EXHAUST FAN	500							2.10	120	1	FANTECH	FG 12 EC	

AIR TERMINAL SCHEDULE

EQ. ID	DESCRIPTION	TERMINAL TYPE				PERFORMANCE			BASIS OF DESIGN		COMMENT(S)
		FACE SIZE	NECK SIZE	NUM. OF SLOTS	SLOT SIZE	AIRFLOW (CFM)	TSP (IN. W.C.)	NOISE	MANUFACTURER	MODEL	
SA-1	SQUARE PLAQUE DIFFUSER WITH CEILING GRID PANEL	12"X12" (24"X24" GRID PANEL)	6"						PRICE	SPD SERIES	
SA-2	SQUARE PLAQUE DIFFUSER WITH CEILING GRID PANEL	12"X12" (24"X24" GRID PANEL)	8"						PRICE	SPD SERIES	
SA-3	SIDEWALL NOZZLES, DUAL NOZZLE WITH FRAME	24"X12"	8"(X2)						PRICE	AND SERIES DUPLEX WITH WALL PLATE	
SA-4	SQUARE PLAQUE DIFFUSER	12"X12"	6"						PRICE	SPD SERIES	
SA-5	LINEAR SLOT DIFFUSER	48"	8"						PRICE	TBD2 (2 SLOTS)	
RA-1	RETURN AIR DIFFUSER, EGG CRATE CORE	12"X12"	6"						PRICE	80 SERIES	
RA-2	LINEAR SLOT DIFFUSER	48"	8"						PRICE	TBD2 (2 SLOTS)	
RA-3	RETURN AIR DIFFUSER	16"	12"						PRICE	REG-RR SERIES	
EA-1	EXHAUST AIR DIFFUSER	8"X8"	5"						PRICE	80 SERIES	
EA-2	EXHAUST AIR DIFFUSER	12"X12"	8"						PRICE	80 SERIES	
EA-3	KHD-1 EXHAUST OUTLET		12"						SEIHO	SFX SERIES	REMOVE INTERNAL GRILLE, PROVIDE BACKDRAFT DAMPER AT DIFFUSER
EA-4	CLOTHES DRYER OUTLET WITH BACKDRAFT DAMPER		4"						SEIHO	SFB SERIES	
EA-5	GENERAL EXHAUST OUTLET WITH BACKDRAFT DAMPER		6"						SEIHO	SFB SERIES	
EA-6	GENERAL EXHAUST OUTLET		10"						SEIHO	SFX SERIES	REMOVE INTERNAL GRILLE, PROVIDE BACKDRAFT DAMPER AT DIFFUSER
TA-1	WALL TRANSFER GRILLE / IT ROOM	12"X6"							PRICE	80 SERIES	
TA-2	WALL TRANSFER GRILLE / IT ROOM	12"X6"							PRICE	80 SERIES	
OA-1	OUTSIDE AIR (INTERIOR), RESIDENT UNIT VENTILATION		4"						SEIHO	TT SERIES	WITH ADJUSTABLE CORE FOR BALANCING
OA-2	OUTSIDE AIR (EXTERIOR), RESIDENT UNIT VENTILATION		4"						PRICE	80 SERIES	
OA-3	OUTSIDE AIR (EXTERIOR), OFFICE, GATHERING, CONF RM	20"X8"							PRICE	80 SERIES	
LV-1	LOUVER, EXHAUST OUTLET										
LV-2	LOUVER WITH DRAINAGE CHANNELS								RUSKIN	ELF6425DD	PROVIDE BIRD SCREEN ON INTERIOR SIDE OF LOUVER

MISCELLANEOUS MECHANICAL EQUIPMENT SCHEDULE

EQ. ID	DESCRIPTION	PERFORMANCE/ADDITIONAL INFORMATION	ELECTRICAL				BASIS OF DESIGN 1		COMMENT(S)
			HP	KW	WATTS	AMPS	VOLTAGE	PHASE	
AS-1	HYDRONIC AIR SEPARATOR								ROUTE AIR VENT OUTLET TO GT-1 W/ 1/2" TUBING.
ET-1	EXPANSION TANK, HYDRONIC SYSTEM								
ET-2	EXPANSION TANK, DOMESTIC HOT WATER SYSTEM								
FOT-1	FUEL OIL STORAGE TANK, 1000-GAL								
PT-1	PROPANE TANK, 45.6-GAL								
	ELECTRIC HEAT TRACE THAW CABLE			100		120	1	THERMON	RGS SERIES
									COORDINATE WITH PROPANE SUPPLIER FOR ADDITIONAL STANDBY TANK(S) AS APPROPRIATE. PROVIDE APPROX. 100 WATTS OF CABLE PER DRAIN PAN AT EACH HEAT PUMP OUTDOOR UNIT SUPPORT STAND. SEE SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION.

SEQUENCE OF OPERATIONS

HEAT GENERATION SYSTEMS

SYSTEM DELIVERY (BUILDING HYDRONIC LOOP) TEMPERATURE RESET BASED ON OUTDOOR AIR TEMPERATURE AS FOLLOWS,

OUTDOOR TEMPERATURE: SUPPLY GLYCOL TEMPERATURE

ABOVE 65 DEG F	(SYSTEM OFF)
65 DEG F*	120 DEG F
32 DEG F*	180 DEG F
BELOW 32 DEG F	180 DEG F

*: LINEAR SCHEDULE BETWEEN 65 DEG F AND 32 DEG F OUTDOOR AIR TEMPERATURE

INTERLOCK WITH WATER HEATING SYSTEM FOR PRIORITY SYSTEM SUPPLY TEMPERATURE OVERRIDE FOR DOMESTIC WATER HEATING.

BOILER SYSTEM LEAD-LAG ALTERNATING (PROGRAM FOR WEEKLY SWITCH-OVER).

DOMESTIC WATER HEATING SYSTEMS

WATER HEATER CIRCULATION PUMP TO CYCLE TO MAINTAIN WATER HEATER CONTENT TEMPERATURE SETPOINT: 120 DEG F.

HOT WATER RECIRCULATION SYSTEM PUMP TO RUN CONTINUOUSLY.

HYDRONIC SYSTEMS

PROVIDE PROGRAMMABLE ALTERNATING (WEEKLY) CONTROL OF HYDRONIC SYSTEM MAIN CIRCULATORS.

BOILER CIRCULATION PUMPS SHALL OPERATE FROM BOILER INTEGRAL CONTROLS.

RADIANT HEATING SYSTEMS

RADIANT MIXING BLOCKS (RMB) TO OPERATE ON SUBZONE CALL FOR HEAT AND MODULATE INJECTION TO MAINTAIN RADIANT SYSTEM SUPPLY TEMPERATURE (SEE RADIANT SYSTEM ZONE INFORMATION).

INDIVIDUAL SUBZONE THERMOSTAT SHALL CYCLE MANIFOLD MOUNTED CONTROL VALVE(S) TO MAINTAIN SPACE TEMPERATURE SETPOINT: 68 DEG F.

OFFICE AREA VENTILATION SYSTEMS, HRV-1/EF-5/HC-1

OFFICE AREA VENTILATION SYSTEMS, HRV-1 AND EF-5, SHALL OPERATE ON SCHEDULE DURING NORMAL BUSINESS HOURS.

HEAT COIL, HC-1, CONTROLS SHALL MODULATE HYDRONIC FLOW TO MAINTAIN LEAVING AIR TEMPERATURE OF 68 DEG F.

PROVIDE OVERRIDE SWITCH IN LOBBY RECEPTION AREA TO OPERATE SYSTEM (1-HOUR DURATION FOR EACH ACTIVATION) DURING OFF HOURS.

TYPICAL RESTROOM GENERAL EXHAUST FANS, EF-1

EXHAUST FAN SHALL OPERATE IN HI-LO MODE ON INTEGRAL OCCUPANCY SENSOR.

TYPICAL AREA EXHAUST FANS, EF-2/EF-3/EF-4

EXHAUST FAN SHALL OPERATE ON LOCAL ON-OFF SWITCH.

CLOTHES DRYER EXHAUST BOOSTER FAN, EF-6

INTERLOCK CLOTHES DRYER EXHAUST BOOSTER FANS WITH CLOTHES DRYERS.

IT ROOM HEAT TRANSFER FAN, EF-7

IT ROOM HEAT TRANSFER FAN TO OPERATE ON THERMOSTAT TO MAINTAIN SETPOINT: 85 DEG F.

WARMING KITCHEN HOOD EXHAUST FAN, HD-1/KEF-1

EXHAUST FAN KEF-1 TO OPERATE FROM EXHAUST HOOD ON/OFF CONTROL.

RESIDENT UNIT EXHAUST FANS, EF-1R

EXHAUST FAN SHALL OPERATE IN HI-LO-OFF MODE ON LOCAL HI-LO-OFF SWITCH.

RESIDENT UNIT EXHAUST HOODS, HD-1R

EXHAUST HOOD TO OPERATE ON UNIT ON-OFF SWITCH.

HEAT PUMP SYSTEMS

PROVIDE AUTOMATIC CONTROLS TO OPERATE

- INDOOR FAN COIL UNITS TO OPERATE CONTINUOUSLY AND CYCLE COOLING FUNCTIONS TO MAINTAIN ROOM TEMPERATURE SETPOINT: 70 DEG F.
- OUTDOOR UNIT DEFROST DRAIN PAN THAWING CABLE WHEN OUTDOOR TEMPERATURE IS BELOW 32 DEG F.
- LOCKOUT HEAT PUMP OUTDOOR UNITS WHEN OUTDOOR TEMPERATURE IS BELOW 10 DEG F. (ALLOW INDOOR UNITS TO OPERATE).

CRAWL SPACE VENTILATION

CRAWL SPACE HUMIDISTAT SHALL CYCLE CRAWL SPACE VENTILATION FANS TO MAINTAIN CRAWL SPACE HUMIDITY LEVEL AT 60% OR BELOW.



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OUZINKIE OFFICE
OUZINKIE NATIVE CORP

JTC
DR: JTC/TLT
CK: -
DT: -
JB: OUZINKIE
DWG: MECHANICAL EQUIPMENT SCHEDULES

M1.2



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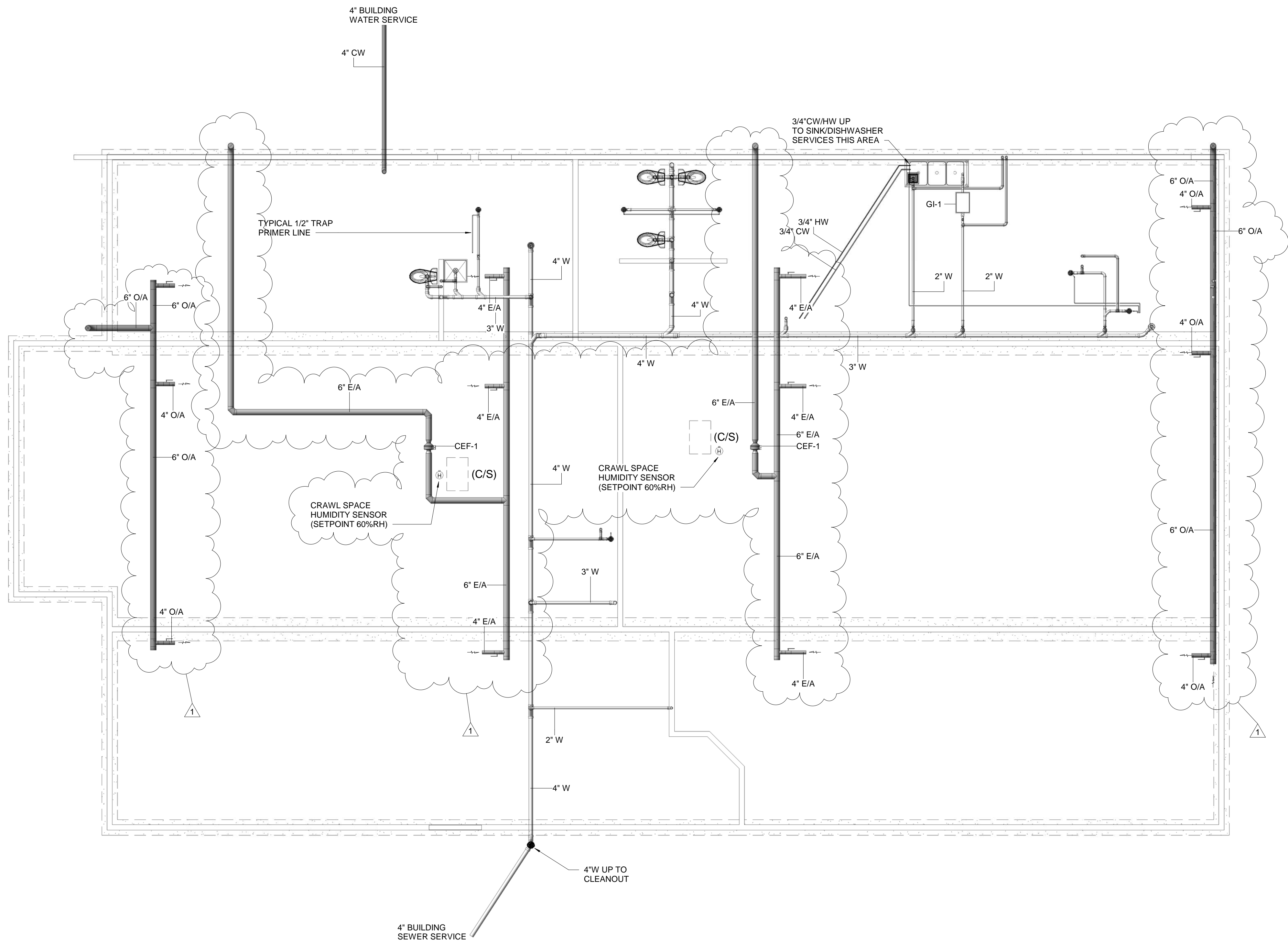
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OUZINKIE OFFICE
 OUZINKIE NATIVE CORP

DR: JTC
 CK: JTC/TLT
 DT: -
 JB: OUZINKIE
 DWG: MECHANICAL PLAN - UNDERFLOOR

M2.0



1 MECHANICAL PLAN - UNDERFLOOR
 Scale: 3/16" = 1'-0"

"IIX17 DRAWINGS ARE HALF THE INDICATED SCALE"



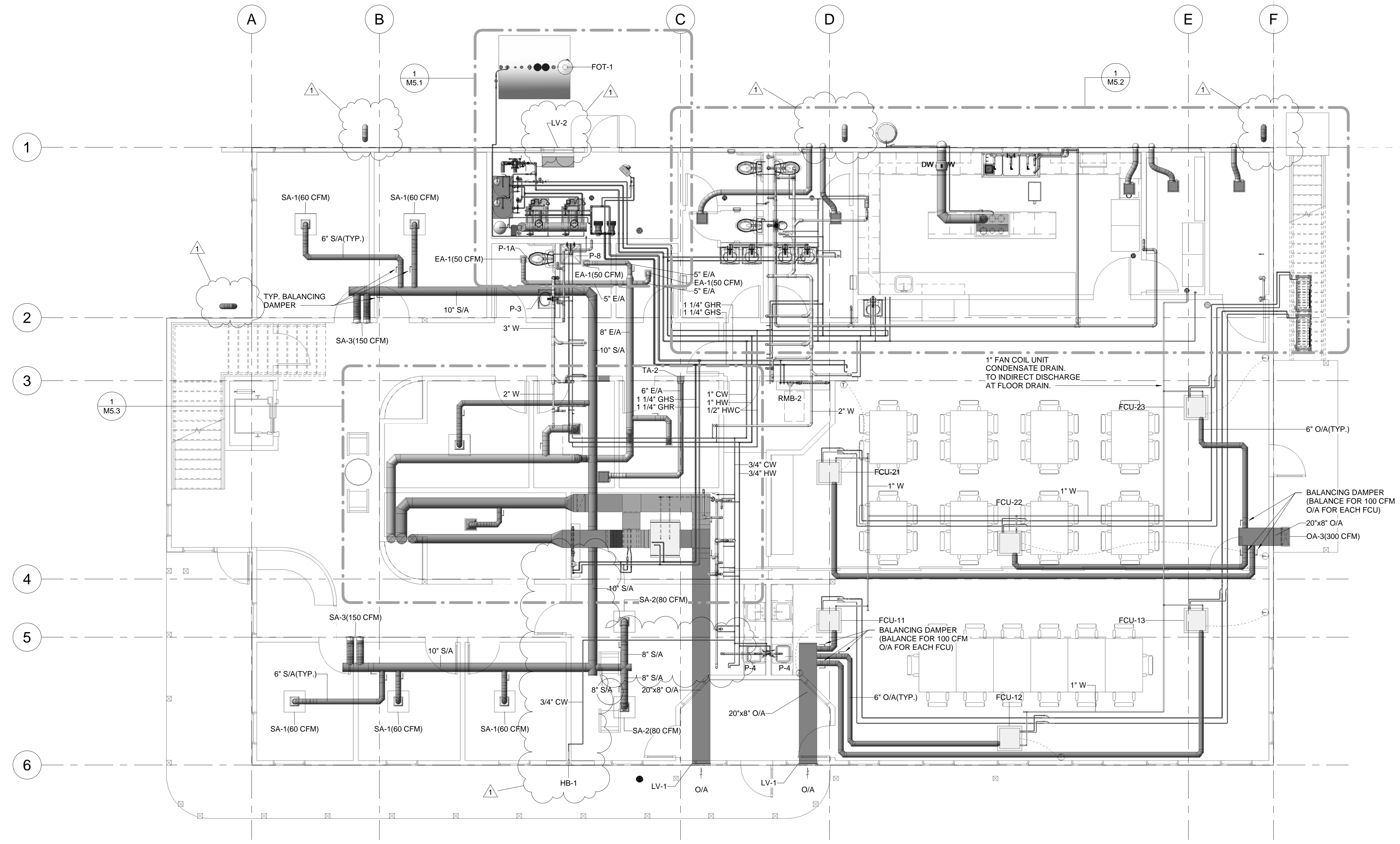
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OUZINKIE OFFICE
OUZINKIE NATIVE CORP

DR: JTC
 CK: JTC/TLT
 DT: -
 JB: OUZINKIE
 DWG: MECHANICAL PLAN - MAIN LEVEL



1 MECHANICAL PLAN - MAIN LEVEL
 Scale: 3/16" = 1'-0"

"IIX17 DRAWINGS ARE HALF THE INDICATED SCALE"

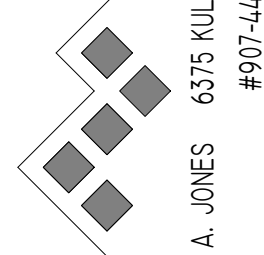


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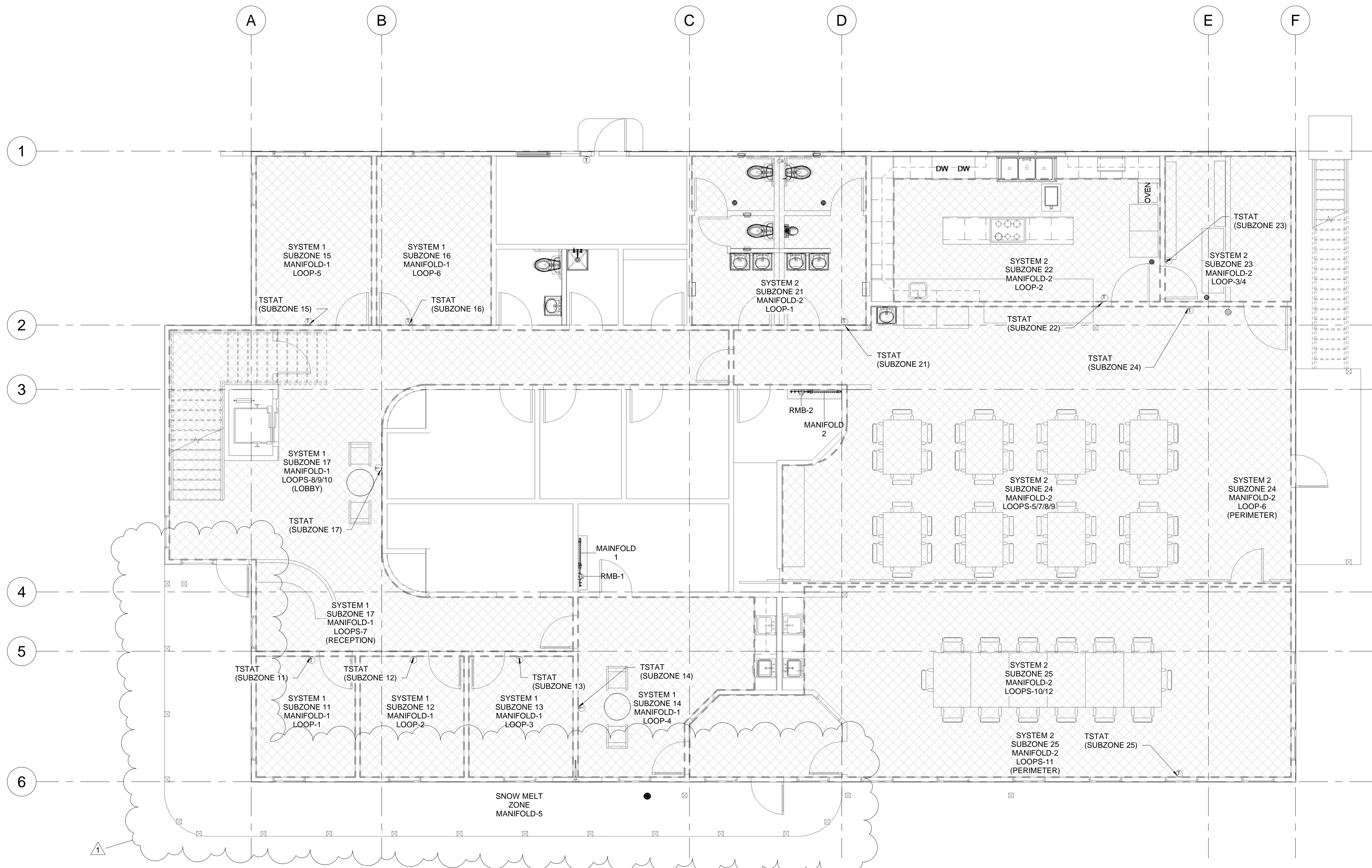
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OUZINKIE OFFICE
OUZINKIE NATIVE CORP

DR: JTC
CK: JTC/TLT
DT: -
JB: OUZINKIE
DWG: RADIANANT SYSTEM PLAN - MAIN LEVEL

M3.1



RADIANT FLOOR SYSTEM SCHEDULE

**SYSTEM 1 (MAIN LEVEL OFFICE AREA)
RMB-1/MANIFOLD 1 - 10 LOOPS**

SUBZONE / LOOP/ROOM:	TUBE SIZE:	TUBE SPACING / LENGTH:	FLOW RATE:	PRESSURE DROP:
11 / 1 / OFFICE 1*	1/2"	12' / 130 FT	0.3 GPM	0.7 FT W.C.
12 / 2 / OFFICE 2*	1/2"	12' / 135 FT	0.2 GPM	0.3 FT W.C.
13 / 3 / OFFICE 3*	1/2"	12' / 135 FT	0.2 GPM	0.3 FT W.C.
14 / 4 / BREAK RM*	1/2"	12' / 276 FT	0.5 GPM	5.4 FT W.C.
15 / 5 / OFFICE 5*	1/2"	12' / 175 FT	0.3 GPM	1.3 FT W.C.
16 / 6 / OFFICE 6*	1/2"	12' / 205 FT	0.2 GPM	0.5 FT W.C.
17 / 7 / RECEPTION*	1/2"	12' / 215 FT	0.3 GPM	1.5 FT W.C.
17 / 8 / LOBBY*	1/2"	12' / 227 FT	0.4 GPM	2.9 FT W.C.
17 / 9 / LOBBY*	1/2"	12' / 227 FT	0.4 GPM	2.9 FT W.C.
17 / 10 / LOBBY*	1/2"	12' / 227 FT	0.4 GPM	2.9 FT W.C.
TOTAL**:		1951 FT	3.2 GPM	5.4 FT W.C.

HEATING LOAD: 28.8 MBH
MEAN GLYCOL TEMPERATURE: 109 DEG F
TEMPERATURE DIFFERENTIAL: 20 DEG F

**SYSTEM 2 (GATHERING/CONFERENCE/KITCHEN AREA)
RMB-2/MANIFOLD 2 - 12 LOOPS**

SUBZONE / LOOP/ROOM:	TUBE SIZE:	TUBE SPACING / LENGTH:	FLOW RATE:	PRESSURE DROP:
21 / 1 / RESTRM*	1/2"	12' / 140 FT	0.3 GPM	0.2 FT W.C.
21 / 2 / RESTRM*	1/2"	12' / 140 FT	0.3 GPM	0.2 FT W.C.
22 / 3 / KITCHEN*	1/2"	12' / 395 FT	0.5 GPM	6.3 FT W.C.
23 / 4 / STOR/PAN*	1/2"	12' / 100 FT	0.1 GPM	0.2 FT W.C.
24 / 5 / GATHER*	1/2"	12' / 299 FT	0.2 GPM	0.9 FT W.C.
24 / 6 / GATHER*	1/2"	6' / 120 FT	0.3 GPM	0.9 FT W.C.
24 / 7 / GATHER*	1/2"	12' / 299 FT	0.2 GPM	0.9 FT W.C.
24 / 8 / GATHER*	1/2"	12' / 299 FT	0.2 GPM	0.9 FT W.C.
24 / 9 / GATHER*	1/2"	12' / 299 FT	0.2 GPM	0.9 FT W.C.
25 / 10 / CONF RM*	1/2"	12' / 325 FT	0.4 GPM	4.2 FT W.C.
25 / 11 / CONF RM*	1/2"	6' / 272 FT	0.5 GPM	4.2 FT W.C.
25 / 12 / CONF RM*	1/2"	12' / 325 FT	0.4 GPM	4.2 FT W.C.
TOTAL**:		1951 FT	3.2 GPM	6.3 FT W.C.

HEATING LOAD: 28.8 MBH
MEAN GLYCOL TEMPERATURE: 98 DEG F
TEMPERATURE DIFFERENTIAL: 20 DEG F

*: WITH SUBZONE CONTROL THERMOSTAT AND LOOP ACTUATOR(S).
**: LENGTH DOES NOT INCLUDE LOOP RUNOUT/TAIL.

1 RADIANT SYSTEM PLAN - MAIN LEVEL
Scale: 3/16" = 1'-0"