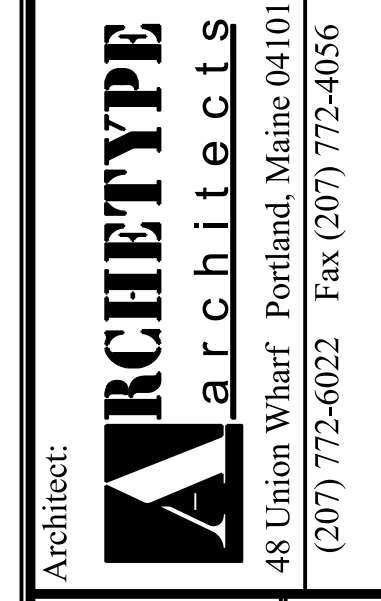


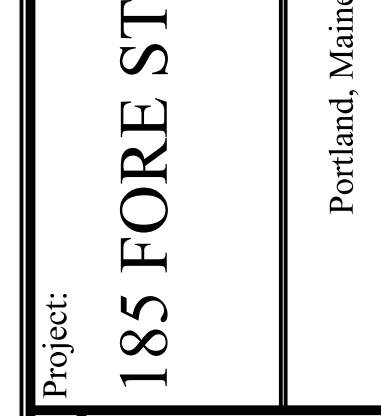
Prepared For:



Consultant:



Architect:



Project:

Revisions: 06-11-15 ADDENDUM #1

Date: 22 May, 2015 Scale: As indicated

MECHANICAL SCHEDULES AND LEGEND M3.01

TAG	FLOW RATE (GPM)	INLET CONNECTION (INCHES)	OUTLET CONNECTION (INCHES)	W/P D (PSIG)	SET POINT (DEGREES F)	PROVIDE SPARE CARTRIDGE (Y) OR (N)	BASIS OF DESIGN - SYMONS		
							SERVICE	ARRANGEMENT	MODEL
TMV-1	50	1/2"	1/2"	150	120F	-	DOM HW	WALL	6-102-HC

TAG	STORAGE (GALS)	INPUT (MBH)	W/P D (FT/UG)	RECOVERY 30°F RISE (GPH)	WORKING PRESSURE (PSIG)	INLET CW TEMP (DEG F)	OUTLET HW TEMP (DEG F)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN - A.O. SMITH		
								AMPS	WATTS	V/PH/Hz	SERVICE	FUEL	MODEL
GUH-1	500	1000	-	1230	1500	500	1400	62	-	120/160	CONDO DHW	NAT GAS	GDHE-50

TAG	AIRFLOW LOW/HIGH (CFM)	T.S.P (INWG)	NOISE (SONES)	RPM	DRIVE	ELECTRICAL REQUIREMENTS					BASIS OF DESIGN - (G) GREENHECK, (P) PANASONIC		
						HP	BHP	WATTS	AMPS	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL
EF-1	80	0.25	0.4	-	DIRECT	-	-	102	0.3	120/160	UNIT BATHROOMS	CEILING	FV-08VK3
EF-2	130	0.25	0.3	-	DIRECT	-	-	170	0.4	120/160	LARGE MASTER BATHS	CEILING	FV-13VK3
EF-3	50/80	0.25	0.4	-	DIRECT	-	-	102	0.3	120/160	POWDER ROOMS	CEILING	FV-08VK53
EF-4	130	0.25	0.1	-	DIRECT	-	-	215	0.2	120/160	TRASH RM EXHAUST	INLINE	FV-13VK53

* FAN SHALL OPERATE CONTINUOUSLY AT 50 CFM AND SHALL RAMP UP TO 80 CFM BY THE WALL SWITCH

TAG	AIR FLOW (CFM)	SP LOSS (INWG)	AIR VEL. (FFM)	SIZE (INCHES) (W x H)	FREE AREA (SQFT)	DRAINABLE (Y) OR (N)	BLADE ANGLE & FRAME DEPTH	BASIS OF DESIGN - RUSKIN	
								SERVICE	MODEL
L-EL	625	0.1	-	48x24	3.18	Y	31-1/2", 6"	ELEVATOR SHAFT	ELC6315DAX

Elevator Shaft vent Louver (L-EL) Motorized damper shall be normally closed. Damper shall open upon detection of smoke in the elevator lobbies or hallway, upon power failure and upon activation of a manual override.

TAG	FLOW RATE (GPM)	INLET CONNECTION (INCHES)	OUTLET CONNECTION (INCHES)	W/P D (PSIG)	SET POINT (DEGREES F)	PROVIDE SPARE CARTRIDGE (Y) OR (N)	BASIS OF DESIGN - FLOWERS HYDROGUARD		
							SERVICE	ARRANGEMENT	MODEL
TMV	05-60	3/4"	3/4"	50	120F	Y	DHW	INLINE	FLM491

TAG	DESCRIPTION	SAN	VENT	CW	HW
P-1	FLOOR MOUNTED TT WC	3"	2"	1/2"	-
P-2	COUNTERTOP LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"
P-2A	COUNTERTOP LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"
P-3	TUB/SHOWER	2"	1-1/2"	1/2"	1/2"
P-3A	SHOWER	2"	1-1/2"	1/2"	1/2"
P-4	SINGLE BOWL 96 KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-5	WASHING MACHINE HOOK-UP	2"	1-1/2"	1/2"	1/2"
P-6	ICEMAKER CONNECTION	-	2"	3/8"	-
FFHB	FREEZE PROOF HOSE BIBB	-	-	3/4"	-
FD-1	FLOOR DRAIN (W TRAP PRIMER)	3"	2"	1/2"	-

MINIMUM SIZE OF BELOW SLAB SANITARY & VENT PIPING SHALL BE 2". FLOOR DRAINS SHALL BE CONNECTED TO A NEARBY TRAP PRIMER. ** TRAP PRIMER CONNECTION (ROUTED FROM NEAREST FIXTURE)

TAG	SIZE	FLOW RATE (GPM)	W/P D (PSI)	MAX. WORK'G. TEMPERATURE (DEGREES F)	MAX. WORK'G. PRESSURE (PSI)	TESTABLE (Y) OR (N)	BASIS OF DESIGN - ZURN-WILKINS		
							BODY STYLE	SERVICE	MODEL
BFP-1	1-1/2"	500	120	180	175	Y	RPZ	WATER ENTRANCE	975XL
BFP-2	1-1/2"	500	120	180	175	Y	RPZ	WATER ENTRANCE	975XL

TAG	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MIN. REQ'D. AMBIENT TEMP. (DEG F)	MAX. WORK'G. TEMPERATURE (DEG F)	MAX. WORK'G. PRESSURE (PSI)	WEIGHT (LBS)	BASIS OF DESIGN - TACO (T), AMTROL (A)		
							MOUNTING	SERVICE	MODEL
ET	30	-	-	200	150	80	INLINE	DOM HW	ST-5-C

TAG	FLOW RATE (GPM)	HEAD (FT/UG)	IMPEL. SIZE	RPM	EFF %	ELECTRICAL REQUIREMENTS					BASIS OF DESIGN - TACO		
						HP	BHP	VFD	AMPS	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL
CP-1	20	100	-	3250	-	1/25	-	N	0.9	120/160	DOM HW RECIRC	INLINE	00856

TAG	TOTAL COOLING (MBH)**	TOTAL HEATING (MBH)**	REFRIGERANT	APPROX. REFRIG. CHARGE	MINIMUM AMBIENT TEMP (F)	FOOTPRINT DIMENSION (INCHES)	OPERATING WEIGHT (LBS)	ELECTRICAL REQUIREMENTS					BASIS OF DESIGN - MITSUBISHI		
								MCA	MAX FUSE	V/PH/Hz	COMP. STAGING	SOUND (BEL)	SERVICE	MODEL	
SCU-201A, SCU-201B, SCU-202, SCU-203, SCU-301A, SCU-301B, SCU-302, SCU-303, SCU-401A, SCU-402A, SCU-402B	300	320	R-410A	-	-13F	38x14x53	265	25	40	208/160	40%-100%	-	HEAT/COOL	FUZ-HA30NHA2	
SCU-401B	340	380	R-410A	-	-13F	38x14x53	265	28	40	208/160	33%-100%	-	HEAT/COOL	FUZ-HA36NHA2	
SCU-401C, SCU-402C	300	320	R-410A	-	-13F	38x14x53	265	28	40	208/160	40%-100%	-	HEAT/COOL	FUZ-HA30NHA2	
SCU-1	120	-	R-410A	-	0F	32x12x24	82	13	15	208/160	50%-100%	-	MULTIPLE	FUY-A12NHA4-B6	

TAG	TOTAL COOLING (MBH)**	SENS. COOLING (MBH)**	TOTAL HEATING (MBH)**	AIRFLOW (CFM)	COND. DRAIN (IN)	SOUND RATING (DB)	WEIGHT (LBS)	REFRIGERANT PIPE SIZE (IN)		ELECTRICAL REQUIREMENTS					CU SYSTEM TAG	BASIS OF DESIGN - MITSUBISHI		
								LIQUID	GAS	MCA	MAX FUSE	V/PH/Hz	SERVICE	ARRANGEMENT		MODEL		
SAC-201A, SAC-301A, SAC-401A	300	-	320	610	1-1/4"	39	73	3/8"	5/8"	2.1	-	208/160	***	HEAT/COOL	SLIM-DUCTED	FEAD-A30AA4		
SAC-201B, SAC-202, SAC-203, SAC-301B, SAC-302, SAC-303, SAC-402A, SAC-402B	300	-	320	880	1-1/4"	39	73	3/8"	5/8"	2.1	-	208/160	***	HEAT/COOL	SLIM-DUCTED	FEAD-A30AA4		
SAC-401B	340	-	380	1200	1-1/4"	42	91	3/8"	5/8"	3.3	-	208/160	***	HEAT/COOL	SLIM-DUCTED	FEAD-A36AA4		
SAC-401C, SAC-402C	300	-	320	705	5/8"	42	46	3/8"	5/8"	1.0	-	208/160	***	HEAT/COOL	WALL MTD	FKA-A30KA4		
SAC-1	120	-	-	705	5/8"	43	29	1/4"	1/2"	1.0	-	208/160	***	MULTIPLE	WALL MTD	FKA-A12HA4		

MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET. SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
	COMPRESSED AIR PIPING (CA)		BACKFLOW PREVENTER (BFP)		PRESSURE GAGE WITH GAGE COCK	A-AV	AUTOMATIC AIR VENT	EDB	ENTERING DRY BULB	I-B-R	INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS	RLA	RUNNING LOAD AMPS
	CONDENSATE DRAIN PIPING (C)		CHECK VALVE		THERMOMETER IN WELL	AD	ACCESS DOOR	EDC-*	ELECTRIC DUCT COIL TAG	IFUH-*	INDIRECT FIRED WATER HEATER TAG	RPM	REVOLUTIONS PER MINUTE
	COOLING TOWER RETURN PIPING (CTR)		BALANCING VALVE (ADJUSTABLE)		WATER FLOW SWITCH	AFF	ABOVE FINISHED FLOOR	EER	ENERGY EFFICIENCY RATIO	IN	INCHES	RFS	REVOLUTIONS PER SECOND
	COOLING TOWER SUPPLY PIPING (CTS)		AUTOMATIC FLOW CONTROL VALVE		PRESSURE SWITCH OR SENSOR	AHU-*	AIR HANDLING UNIT TAG	EF-*	EXHAUST FAN TAG	L-*	LOUVER TAG	RPZ	REDUCED PRESSURE ZONE
	CHILLED WATER RETURN PIPING (CWR)		RELIEF VALVE (RV)		IMMERSION TEMPERATURE SENSOR	AMS	AIRFLOW MONITORING STATION	EFF	EFFICIENCY	LAT	LEAVING AIR TEMPERATURE	RTU	ROOM TEMPERATURE SENSOR
	CHILLED WATER SUPPLY PIPING (CWS)		BALL VALVE		ROOM TEMPERATURE SENSOR	AMPS	AMPERES	EG-*	EXHAUST GRILLE TAG	LB	POUNDS	RV	RELIEF VALVE
	FUEL OIL RETURN PIPING (FOR)		3/4" BALL VALVE WITH 3/4" HOSE END		THERMOSTAT OR SENSOR ON WALL	AP	ACCESS PANEL	ESP	EXTERNAL STATIC PRESSURE	LTHUS/R	LOW TEMPERATURE HOT WATER	RWL	RAINWATER LEADER
	FUEL OIL SUPPLY PIPING (FOS)		GATE VALVE		TSTAT OR SENSOR W/ TAMPERPROOF GUARD	APD	AIR PRESSURE DROP	ET-*	EXPANSION TANK TAG	LIRA	LOCKED ROTOR AMPS	SA	SUPPLY AIR
	GAS PIPING (G)		PRESSURE REDUCING VALVE		MANUAL AIR VENT	AS-*	AIR SEPARATOR TAG	EUB	ENTERING UET BULB	LUCCO	LOW WATER CUTOFF	SAN	SANITARY (DRAIN & WASTE)
	HOT WATER RETURN PIPING (HWR)		FUSIBLE VALVE		NOTE TAG (NUMBER)	ATC	AUTOMATIC TEMPERATURE CONTROL	EUH-*	ELECTRIC WATER HEATER TAG	LUT	LEAVING WATER TEMPERATURE	SD	SMOKE DAMPER
	HOT WATER SUPPLY PIPING (HWS)		STRAINER W/BLOWDOWN BALL VALVE		AIR DEVICE TAG (LETTER) WITH CFM	B-*	BOILER TAG	EUT	ENTERING WATER TEMPERATURE	MAX	MAXIMUM	SEER	SEASONAL ENERGY EFFICIENCY RATIO
	REFRIGERANT GAS PIPING (RG)		2-WAY CONTROL VALVE		ROOM NUMBER	BFP-*	BACKFLOW PREVENTER TAG	EXG	EXISTING	MBH	THOUSANDS OF BTU PER HOUR	SF	SUPPLY FAN
	SANITARY PIPING BELOW FLOOR (SAN)		2-WAY CONTROL VALVE SOLENOID VALVE		TURNING VANES	BHP	BRAKE HORSEPOWER	EXH	EXHAUST	MCA	MINIMUM CIRCUIT AMPACITY	SP	STATIC PRESSURE
	SANITARY PIPING ABOVE FLOOR (SAN)		3-WAY CONTROL VALVE		DUCT W/MANUAL DAMPER	BTHU	BRITISH THERMAL UNITS PER HOUR	FC	FLEXIBLE CONNECTION	MIN	MINIMUM	SP-*	SUMP PUMP TAG
	SANITARY VENT PIPING		3-WAY CONTROL VALVE (TOP VIEW)		COUNTER BALANCED DAMPER	CBD	COUNTER BALANCED DAMPER	FCO	FLOOR CLEANOUT	NC	NOISE CRITERION	SQFT	SQUARE FEET
	RAINWATER LEADER ABOVE SLAB (RWL)		4-WAY CONTROL VALVE (TOP VIEW)		COOLING COIL TAG	CC-*	COOLING COIL TAG	FD	FIRE DAMPER	NI	NOT IN CONTRACT	TEMP.	TEMPERATURE
	COLD WATER PIPING (CW)		2 BUTTERFLY VALVES W/SINGLE ACTUATOR		CLEANOUT	CFM	CUBIC FEET PER MINUTE	FLA	FLOOR DRAIN TAG	NTS	NOT TO SCALE	TEMP.	TEMPERATURE
	HOT WATER PIPING (HW)		DUCT W/ACOUSTIC LINING		CABINET UNIT HEATER TAG	CUH-*	CLEANOUT	FOR	FUEL OIL RETURN	OA	OUTSIDE AIR	TMV-*	THERMOSTATIC MIXING VALVE TAG
	RECIRCULATED HOT WATER PIPING (RHW)		DUCT W/SQUARE-TO-ROUND TRANSITION		CIRCULATING PUMP TAG	CP-*	CLEANOUT	POS	FUEL OIL SUPPLY	OPD	OPPOSED BLADE DAMPER	TSP	TOTAL STATIC PRESSURE
	PIPE CAP		FLEXIBLE DUCT		COOLING TOWER TAG	CT-*	CLEANOUT	FFHB	FROST PROOF HOSE BIBB	P-*	PENETRATION	TYP	TYPICAL
	DIRECTION OF FLUID FLOW		MOTOR OPERATED DAMPER		AIRFLOW OUT	Cv	VALVE COEFFICIENT	FFM	FEET PER MINUTE	OPD	OPEN ENDED DUCT	UH-*	UNIT HEATER TAG
	ELBOW UP		AIRFLOW IN		COLD WATER	CW	COLD WATER	FS-*	FLOOR SINK TAG	PENETN	PENETRATION	VB	VACUUM BREAKER
	ELBOW DOWN		DIAMETER OR FLAT OVAL		FIRE DAMPER	DB	DRY BULB	FT	FEET	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	VFD	VARIABLE FREQUENCY INVERTER DRIVE
	PIPE TEE UP		ROUND OR FLAT OVAL DUCT DOWN		FIN TUBE RADIATION TAG	dB RE	DECIBELS RELATIVE TO ROUND OR FLAT OVAL DUCT DOWN	FTR-*	FIN TUBE RADIATION TAG	PSIG	POUNDS PER SQUARE INCH GAGE	VTR	VENT THRU ROOF
	PIPE TEE DOWN		DOUBLE CHECK		GAGE	DC	DOUBLE CHECK	GA	GAGE	PVC	POLYVINYL CHLORIDE (PIPE)	V/PH/Hz	VOLTS/PHASES/HERTZ
	PIPE REDUCER		DOUBLE CHECK ATMOSPHERIC SUPPLY DIFFUSER		GALLONS	DCA	DOUBLE CHECK ATMOSPHERIC SUPPLY DIFFUSER	GAL	GALLONS	GPH	GALLONS PER HOUR	WCO	WALL CLEANOUT
	PIPE WITH GUIDE		DEGREES FAHRENHEIT		GALLONS PER MINUTE	DEG F	DEGREES FAHRENHEIT	GPM	GALLONS PER MINUTE	HC-*	HEATING COIL TAG	UG	WATER GAGE
	PIPE WITH ANCHOR		DIAMETER IN WALL		HORSEPOWER	DIA	DIAMETER	HP	HORSEPOWER	RD	ROOF DRAIN	UPD	WATER PRESSURE DROP
	BUTTERFLY VALVE		DOWN		HOT WATER	DN	DOWN	HW	HOT WATER	RDE	RECOMMENDED DUAL ELEMENT FUSE AMPS	USA	WIRE SIZING AMPS
	OS & Y GATE VALVE		EXHAUST AIR		ENTERING AIR TEMPERATURE	EA	EXHAUST AIR	HW	HOT WATER	RFM-*	RADIANT FLOOR MANIFOLD TAG	UTD	WATER TEMPERATURE DROP