AD	AREA DRAIN	INSUL	INSULATION
A.F.F.	ABOVE FINISHED FLOOR	INV	INVERT
AFMS	AIR FLOW MEASURING STATION	KW	KILOWATT
AHU	AIR HANDLING UNIT	LAT	LEAVING AIR TEMPERATURE
ANB	ACID NEUTRALIZING BASIN	LAV	LAVATORY
APOU	ACCESS PANEL	LWT	LEAVING WATER TEMPERATURE
ARCH	ARCHITECT	MBH	BTU PER HOUR (THOUSANDS)
AS	AIR SEPARATOR	MCF	THOUSAND CUBIC FEET
BD B /C	BUTTERFLY DAMPER	MH	MANHOLE NOISE CRITERIA OR NORMALLY CLOSED
B/G	BELOW GRADE	NC NEO	NOISE CRITERIA OR NORMALLY CLOSED
BTU	BRITISH THERMAL UNIT	NEG	NEGATIVE
BWV	BACKWATER VALVE	NIC	NOT IN CONTRACT
CCF	HUNDRED CUBIC FEET	NO NTC	NORMALLY OPEN
CFH	CUBIC FEET PER HOUR	NTS	NOT TO SCALE
CFM	CUBIC FEET PER MINUTE	OA	OUTSIDE AIR
CL	CENTER LINE	OBD	OPPOSED BLADE DAMPER
CLG	CEILING	ORD	OVERFLOW ROOF DRAIN
CO	CLEAN OUT	PD	PRESSURE DROP OR DIFFERENCE
CONTR	CONTRACTOR	PE	PNEUMATIC—ELECTRIC
CONV	CONVECTOR	PLBG	PLUMBING
CUH	CABINET UNIT HEATER	PRV	PRESSURE REDUCING VALVE OR POWER ROOF VENTILATOR
CW	COLD WATER	5014	
DB	DECIBEL	PSIA	POUNDS/SQ INCH ABSOLUTE
DF	DRINKING FOUNTAIN	PSIG	POUNDS/SQ INCH GAUGE
DIA	DIAMETER	PVC	POLY VINYL CHLORIDE
DIFF	DIFFUSER	RA	RETURN AIR
DISCH	DISCHARGE	RCP	REINFORCED CONCRETE PIPE
DMPR	DAMPER	RD	ROOF DRAIN
DN	DOWN	RECIRC	RECIRCULATING
DR	DRAIN	REG	REGISTER
DS	DOWNSPOUT	RET	RETURN
DWG	DRAWING	RH	RELATIVE HUMIDITY
EAT	ENTERING AIR TEMPERATURE	RHT	REHEAT
EDR	EQUIVALENT DIRECT RADIATION	RHC	REHEAT COIL
EP	ELECTRIC-PNEUMATIC	RHW	RECIRCULATED HOT WATER
EWC	ELECTRIC WATER COOLER	RM	ROOM
EWT	ENTERING WATER TEMPERATURE	RPM	REVOLUTIONS PER MINUTE
EXH	EXHAUST	RPZ	REDUCED ZONE BACKFLOW PREVENTER
EXP	EXPANSION	SA	SUPPLY AIR
F	FAHRENHEIT	SAN	SANITARY
FC	FAN COIL	SCFM	CFM, STANDARD CONDITIONS
FCO	FLOOR CLEAN OUT	SD	SMOKE DAMPER
FD	FIRE DAMPER OR FLOOR DRAIN	SP	STATIC PRESSURE
FFD	FUNNEL FLOOR DRAIN	SPECS	SPECIFICATIONS
FHC	FIRE HOSE CABINET	SUP	SUPPLY
FHR	FIRE HOSE RACK	SQ	SQUARE
FLR	FLOOR	STM	STEAM
FLEX	FLEXIBLE	TD	TEMPERATURE DIFFERENCE OR TRENCH DR.
FM	FIRE MAIN	TEMP	TEMPERATURE
FPM	FEET PER MINUTE	TONS	TONS OF REFRIGERATION
FPS	FEET PER SECOND	T-STAT	THERMOSTAT
FS	FLOOR SINK	TYP	TYPICAL
FT	FEET OR FOOT	UB	UP-BLAST
F&T	FLOAT AND THERMOSTATIC	UG	UNDERGROUND
FTG	FOOTING	UH	UNIT HEATER
FTR	FINNED TUBE RADIATION	UR	URINAL
FV	FACE VELOCITY	V	SANITARY VENT
GA GA	GAUGE	VAV	VARIABLE AIR VOLUME
GAL	GALLON	VD	VOLUME DAMPER
GPH	GALLONS PER HOUR	VEL	VELOCITY
GPM	GALLONS PER MINUTE	VFD	VARIABLE FREQUENCY DRIVE
GR GR	GRILLE	VOL	VOLUME
GW	GREASE WASTE	VTR	SANITARY VENT THRU ROOF
HB	HOSE BIBB	W	SANITARY WASTE
HD	HEAD	W/	WITH
HOA	HANDS-OFF-AUTOMATIC	w/ w/o	WITH
HTG	HEATING	WC WC	WATER CLOSET
HTR	HEATER	WCO	WALL CLEAN OUT
THE			
1040	HEATING, VENTILATING AND AIR CONDITIONING	WH	WALL HYDRANT
HVAC		WTR	WATER
	HYDRANT		
HYD	00405 015111615		
HYD GCO	GRADE CLEANOUT		
HYD	GRADE CLEANOUT HOT WATER		
HYD GCO			

	PLUMBING	PI	LUMBING/PIPING		DUCTWORK
AV — AV	ACID VENT — BELOW GRADE ACID VENT — ABOVE GRADE	□	ELBOW DOWN CLEANOUT		SUPPLY AIR RETURN AIR
	- ACID WASTE - BELOW GRADE	3	PIPE CAP	~ ~	EXHAUST AIR
AW	ACID WASTE — ABOVE GRADE DEIONIZED WATER		ELBOW UP		LINED DUCTWORK
DI	— DOMESTIC COLD WATER		- TEE, OUTLET UP - TEE, OUTLET DOWN	- + + -	STANDARD BRANCH, NO SPLITTER -
	— DOMESTIC HOT WATER	Ŷ	CONNECTION, BOTTOM		SUPPLY FLOW TO RIGHT — RETURN/EXHAUST FLOW TO LEFT
180	DOMESTIC HOT WATER (TEMP. INDICATED)DOMESTIC RECIRCULATING HOT WATER		•	 	BELLMOUTH WITH BALANCING DAMPER
HARD —	HARD COLD WATER	I	CONNECTION, TOP		FLEXIBLE DUCT
	OVERFLOW STORM DRAIN — BELOW GRADE		- ECCENTRIC REDUCER		TELNIBLE DOCT
OSD RO	OVERFLOW STORM DRAIN - ABOVE GRADEREVERSE OSMOSIS WATER	~~~	- CONCENTRIC REDUCER - FLEXIBLE CONNECTION		TURNING VANES
- V-	SANITARY VENT - BELOW GRADE		- EXPANSION JOINT	- + +	FLEXIBLE CONNECTION
V	SANITARY VENT — ABOVE GRADESANITARY WASTE — BELOW GRADE		- PIPE ANCHOR - ALIGNMENT GUIDE		
W	- SANITARY WASTE - ABOVE GRADE	<u></u>	- CHECK VALVE		MANUAL VOLUME DAMPER
- SDT	SOIL DRAINAGE TILE	— ×	- SHUTOFF VALVE	MD → MD	MOTORIZED DAMPER
SOFT SHW	SOFTENED COLD WATER (SCW)SOFTENED HOT WATER		- PLUG VALVE COMBINATION BALANCE VALVE AND		
TW	TEMPERED WATER		AND FLOW METER	<u> </u>	FIRE DAMPER & ACCESS PANEL
SD	STORM DRAIN - BELOW GRADESTORM DRAIN - ABOVE GRADE	.2.	- STRAINER	→ SD → SD	SMOKE DAMPER & ACCESS PANEL
	WELL WATER		- STRAINER W/BLOWDOWN VALVE AND CAP	● FSD	COMBINATION FIRE/SMOKE DAMPER
	EXISTING PLUMBING TO REMAIN EXISTING PLUMBING TO REMOVED		PRESSURE REDUCING VALVE (SETTING AS NOTED, PSI)		& ACCESS PANEL
	- LAISTING FLUMDING TO KEMUVED	<u> </u>	- AUTOMATIC CONTROL VALVE, 2—WAY		SUPPLY GRILLE OR REGISTER
N .//	ECHANICAL PIPING	&	- AUTOMATIC CONTROL VALVE, 3-WAY	 	RETURN OR EXHAUST GRILLE
BF	BOILER FEED	<u> </u>	AUTOMATIC CONTROL VALVE, 3-WAT		OR REGISTER
——CWS——	— CHILLED WATER SUPPLY	\$ ^	MANUAL AIR VENT		SUPPLY DUCT UP, POSITIVE PRESSURE
CWR	— CHILLED WATER RETURN	₹	PRESSURE RELIEF/SAFETY VALVE		RETURN DUCT UP, NEGATIVE PRESSURE
10#A	COMPRESSED AIR (PSI INDICATED)CONDENSATE DRAIN		(SETTING AS NOTED, PSI) DRAIN VALVE		-
	- CONDENSER WATER SUPPLY	б	- BALL VALVE		EXHAUST DUCT UP, NEGATIVE PRESSURE
CR	CONDENSER WATER RETURN		- BUTTERFLY VALVE - DIAPHRAGM VALVE		SUPPLY DUCT DOWN, POSITIVE PRESSU
FOR —	FUEL OIL SUPPLYFUEL OIL RETURN	□ 弦	- GLOBE ANGLE VALVE		
FOV —			- O. S. & Y. VALVE		RETURN DUCT DOWN, NEGATIVE PRESSURE
FOF	FUEL OIL FILLGLYCOL SUPPLY		REDUCED PRESSURE ZONE		EXHAUST DUCT DOWN, NEGATIVE PRESSUR
—— GR ———	— GLYCOL RETURN		BACKFLOW PREVENTER		SUPPLY DIFFUSER/REGISTER
HRS —	HEAT RECOVERY SUPPLY		SOLENOID VALVE		BLANKOFF INDICATÉD DARK
HRR——HWS——	HEAT RECOVERY RETURNHEATING WATER SUPPLY		- FLOW LIMITING VALVE - REFRIGERANT SIGHT GLASS		RETURN GRILLE/REGISTER
HWR	- HEATING WATER RETURN		- GLOBE VALVE		EXHAUST GRILLE/REGISTER
LV	LABORATORY VACUUMLABORATORY AIR		- GAS PRESSURE REGULATOR VALVE - BACKWATER VALVE	, † † ₂	<u> </u>
LPG	LIQUIFIED PETROLEUM GAS	- 	- REFRIGERANT DRYER	4	LINEAR DIFFUSER (SLOTS/DIRECTIONS)
2#G	- NATURAL GAS (PSI INDICATED)	-	- FLOW DIRECTION	₹	S CONCENTRIC DUCT TRANSITION
PV ——	PLANT VACUUMPUMPED CONDENSATE	<u> </u>	- FLOW DIRECTION WITH PITCH		
RADS -	- RADIATION WATER SUPPLY	8	- DUPLEX STRAINER		•
RADR	RADIATION WATER RETURNREFRIGERANT LIQUID		- PIPE UNION - PIPE FLANGE	p "N"	DUCT CONSTRUCTION PRESSURE CLASS— IFICATION (INCHES WATER AS NOTED)
	REFRIGERANT SUCTION	D	- PUMP		"N" INDICATES NEGATIVE PRESSURE RECTANGULAR—TO—ROUND DUCT
RHG	- REFRIGERANT HOT GAS BYPASS	<u> </u>	PRESSURE GAUGE W/ PIGTAIL & PETCOCK		TRANSITION
RHS RHR	REHEAT WATER SUPPLYREHEAT WATER RETURN		· · · · · · · · · · · · · · · · · · ·		EXISTING DUCT TO REMAIN
	REMOTE RADIATOR SUPPLY		THERMOMETER -		EVICTING DUCT TO DE DEMOVED
RRR	REMOTE RADIATOR RETURN		PRESSURE/TEMPERATURE TEST PORT		EXISTING DUCT TO BE REMOVED
SHWS———————————————————————————————————	SECONDARY HEATING WATER SUPPLYSECONDARY HEATING WATER RETURN		•	55	SUPPLY TROFFER
SMS	- SNOW MELT SUPPLY		- STEAM TRAP (TYPE INDICATED)		VAV BOX
SMR	SNOW MELT RETURNSTEAM SUPPLY (PSI INDICATED)	—————————————————————————————————————	FLOW MEASURING STATION (FLOW INDICATED)		
10#STM	STEAM SUPPLY (PSI INDICATED) STEAM RETURN (PSI INDICATED)		FLOW SWITCH		VAV BOX W/ REHEAT COIL
	— EXISTING PIPING TO REMAIN	— P FS	FLOW SWIICH	├	REHEAT COIL
	- EXISTING PIPING TO REMOVED	P PS	PRESSURE SWITCH		
		0	SHOCK ABSORBER	DN UP	DUCT OFFSETS
		<u> </u>	-		
			ELBOW		
		[TEE		
			FLOOR DRAIN		ANNOTATION
			FLOOR SINK	<u> </u>	UANTITY YPE
			FLOOR SINK FLOOR TROUGH — TRENCH DRAIN		RILLE SIZE/ GRILLE, REGISTER &
	CONTROLS	Ⅲ6Ⅲ ₩H +	WALL HYDRANT	350 CFM D	IFFUSER NECK DIFFUSER IDENTIFICATION IZE
	CONTROLS	НВ Н	HOSE BIBB		FM EACH
Ф	AQUA STAT	<u>Ф</u>	FLOOR CLEANOUT GRADE CLEANOUT		—— DETAIL NUMBER
Θ	HUMIDISTAT OR SPACE R.H. SENSOR		WALL CLEANOUT	X X	— DETAIL NOMBER — SHEET NUMBER
®	REFRIGERANT SENSOR		CEILING CLEANOUT	x	
<u> </u>	SMOKE DETECTOR SPACE TEMPERATURE SENSOR	•	- GAS COCK VALVE ROOF DRAIN) x	
S P	STATIC PRESSURE SENSOR	©	DRAIN ABOVE	X	EQUIPMENT DESIGNATION
① ①	THERMOSTAT THERMOSTAT W/GUARD	()	CATCH BASIN	X A	EQUIPMENT NUMBER
<u> </u>	RTU CONTROLLER			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	POINT OF CONNECTION, NEW TO EXISTI
©	KIO OOMINOLLLIK	()	MANHOLE		POINT OF DISCONNECTION

SHEET INDEX

- M000 MECHANICAL TITLE SHEET
- M100 MECHANICAL SPECIFICATIONS
- M101 MECHANICAL SPECIFICATIONS
- M200 LEVEL TWO HVAC DEMOLITION PLAN
- M201 LEVEL TWO HVAC PLAN
- M500 MECHANICAL DETAILS
- P201 LEVEL TWO PLUMBING PLAN, PLUMBING RISERS, SCHEDULES, FIRE PROTECTION

MEO1 MECHANICAL/ELECTRICAL SCHEDULES

GENERAL NOTES

- A. INSTALL VOLUME DAMPER IN DUCT TAKE-OFF TO EACH DIFFUSER, GRILLE, AND REGISTER.
- B. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS.
- C. IN GENERAL, ALL PIPING AND DUCTWORK SHALL BE RUN CONCEALED IN SUSPENDED CEILING SPACES AND IN SHAFTS PROVIDED UNLESS NOTED OR INDICATED
- D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL SLEEVES AND/OR OPENINGS WHERE REQUIRED TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOOR SLABS, WALLS, BRIDGING AND BEAMS, EXCEPT WHERE OTHERWISE INDICATED. PENETRATION SEALANT RATING TO MATCH STRUCTURE RATING.

OTHERWISE.

- E. VERIFY ALL DUCT CONNECTION SIZES TO FANS AND
- F. COOPERATE WITH THE OTHER TRADES TO ELIMINATE ANY CONFLICTS BETWEEN PIPING, DUCTWORK, STRUCTURAL, ELECTRICAL WORK, ETC.
- G. DIFFUSER, REGISTER, AND SPRINKLER HEAD LOCATIONS SHALL BE COORDINATED WITH LIGHT FIXTURE LOCATIONS AND SHALL BE IN ACCORDANCE WITH CEILING PATTERNS AS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS.
- H. ALL SQUARE DIFFUSERS SHALL HAVE THE AIR VOLUME EQUALLY IN FOUR DIRECTIONS UNLESS INDICATED OTHERWISE.
- MECHANICAL CONTRACTOR TO VERIFY RATINGS OF ALL WALLS WITH ARCHITECTURAL DRAWINGS AND SEAL PIPE PENETRATIONS TO MATCH THE WALL RATINGS.

J. VERIFY ALL EXISTING DUCT CONNECTION SIZES.

- K. MECHANICAL CONTRACTOR TO PROVIDE COORDINATION PLANS FOR HVAC, DIFFUSER, REGISTER, FIRE PROTECTION, ETC. ALL WORK SHALL BE IN ACCORDANCE WITH THE CEILING PATTERNS AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS.
- L. RUNOUTS TO VAV BOXES SHALL BE THE SAME SIZE AS THE INLET TO THE BOX.
- M. RUNOUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE DIFFUSERS NECK SIZE.
- N. PROVIDE ISOLATION VALVES ON BRANCH PIPING TAKE OFFS FROM THE DOMESTIC WATER AND NATURAL GAS PIPING MAINS IF SHOWN ON DRAWING OR NOT.

FIRE PROTECTION DFP FIRE PROTECTION (DRY SYSTEM) POST INDICATOR VALVE (PIV) FIRE HYDRANT WITH SHUTOFF VALVE FDVC RECESSED FIRE DEPT CABINET FDVC SURFACE MTD FIRE DEPT CABINET FIRE PROTECTION RISER UPRIGHT SPRINKLER HEAD W/GUARD PENDANT SPRINKLER HEAD UPRIGHT SPRINKLER HEAD UPRIGHT SPRINKLER HEAD SIDEWALL SPRINKLER HEAD SIDEWALL SPRINKLER HEAD OUPRIGHT SPRINKLER HEAD GRADE FIRE DEPT CONNECTION FDV FIV FIRE DEPT VALVE W/CAP AND CHAIN OS S. & Y VALVE W/ TAMPER SWITCH
POST INDICATOR VALVE (PIV) FIRE HYDRANT WITH SHUTOFF VALVE FDVC RECESSED FIRE DEPT CABINET SURFACE MTD FIRE DEPT CABINET FIRE PROTECTION RISER UPRIGHT SPRINKLER HEAD W/GUARD PENDANT SPRINKLER HEAD UPRIGHT SPRINKLER HEAD SIDEWALL SPRINKLER HEAD SIDEWALL SPRINKLER HEAD DETECTOR CHECK W/BYPASS METER GRADE FIRE DEPT CONNECTION FDV FIRE DEPT VALVE W/CAP AND CHAIN
FIRE HYDRANT WITH SHUTOFF VALVE FDVC RECESSED FIRE DEPT CABINET SURFACE MTD FIRE DEPT CABINET FIRE PROTECTION RISER UPRIGHT SPRINKLER HEAD W/GUARD PENDANT SPRINKLER HEAD UPRIGHT SPRINKLER HEAD UPRIGHT SPRINKLER HEAD SIDEWALL SPRINKLER HEAD SIDEWALL SPRINKLER HEAD BUTTERFLY VALVE W/TAMPER SWITCH DETECTOR CHECK W/BYPASS METER GRADE FIRE DEPT CONNECTION FDV FIRE DEPT VALVE W/CAP AND CHAIN
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PENDANT SPRINKLER HEAD UPRIGHT SPRINKLER HEAD SIDEWALL SPRINKLER HEAD BUTTERFLY VALVE W/TAMPER SWITCH DETECTOR CHECK W/BYPASS METER GRADE FIRE DEPT CONNECTION FDV FDV FIRE DEPT VALVE W/CAP AND CHAIN
UPRIGHT SPRINKLER HEAD SIDEWALL SPRINKLER HEAD BUTTERFLY VALVE W/TAMPER SWITCH DETECTOR CHECK W/BYPASS METER GRADE FIRE DEPT CONNECTION FLUSH FIRE DEPT CONNECTION FIRE DEPT VALVE W/CAP AND CHAIN
SIDEWALL SPRINKLER HEAD BUTTERFLY VALVE W/TAMPER SWITCH DETECTOR CHECK W/BYPASS METER GRADE FIRE DEPT CONNECTION FLUSH FIRE DEPT CONNECTION FIRE DEPT VALVE W/CAP AND CHAIN
BUTTERFLY VALVE W/TAMPER SWITCH DETECTOR CHECK W/BYPASS METER GRADE FIRE DEPT CONNECTION FLUSH FIRE DEPT CONNECTION FIRE DEPT VALVE W/CAP AND CHAIN
DETECTOR CHECK W/BYPASS METER GRADE FIRE DEPT CONNECTION FLUSH FIRE DEPT CONNECTION FIRE DEPT VALVE W/CAP AND CHAIN
GRADE FIRE DEPT CONNECTION LU FLUSH FIRE DEPT CONNECTION FDV FDV FIRE DEPT VALVE W/CAP AND CHAIN
FLUSH FIRE DEPT CONNECTION FDV FIRE DEPT VALVE W/CAP AND CHAIN
FDV FIRE DEPT VALVE W/CAP AND CHAIN
FIRE DEPT VALVE W/CAP AND CHAIN
O. S. & Y VALVE W/ TAMPER SWITCH
DRYPIPE VALVE
PREACTION VALVE



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PROJECT:



EXECUTIVE OFFICE LAYOUT 191 RIVERSIDE PORTLAND, MAINE

ISSUED FOR: DATE: 90% REVIEW 11.12.07 11.16.07 PERMIT

SHEET TITLE:

MECHANICAL TITLE **SHEET**

SHEET NO.: