

H.V.A.C. GENERAL

NOTES:

- ALL MECHANICAL WORK SHALL CONFORM TO ALL LOCAL, STATE AND BUILDING CODES, ALL GOVERNMENT CODES, NFPA, ASME AND ASHRAE STANDARDS.
- ALL EQUIPMENT LOADING AND METHODS OF SUPPORT SHALL BE REVIEWED BY THE OWNER'S STRUCTURAL ENGINEER. COORDINATE WITH OWNER.
- DUCT PENETRATIONS SHALL CONFORM TO THE FIRE RATINGS OF EACH SPECIFIC PARTITION TYPE. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS.
- CONTRACTOR MUST COORDINATE WITH OWNER TO DETERMINE THE EXTENT OF OVERTIME HOURS.
- PROVIDE ONE (1) SET OF AS-BUILTS AND TWO (2) COPIES OF THE CERTIFIED TESTING AND BALANCING REPORT TO THE LANDLORD UPON COMPLETION OF THE PROJECT.
- HVAC EQUIPMENT SHALL BE ARRANGED TO MINIMIZE VIBRATION AND NOISE PROPAGATION.
- CONTRACTOR TO COORDINATE ALL WORK WITH BUILDING MANAGEMENT AND BUILDING ENGINEERS. ALL WORK AFFECTING EXISTING SYSTEMS SHALL BE COORDINATED WITH BUILDING MANAGEMENT INCLUDING ALL SHUTDOWNS. COORDINATE ALL WORK WITH THE OTHER TRADES.
- ALL EXISTING EQUIPMENT TO REMAIN SHALL BE CLEANED, REFURBISHED AND TESTED. REPLACE PARTS AS REQUIRED TO OBTAIN OPTIMAL PERFORMANCE. REPORT FINDINGS TO ENGINEER OF RECORD PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR TO PERFORM AIR BALANCING AND WATER BALANCING OF THE ENTIRE HVAC SYSTEM AFTER INSTALLATION IS COMPLETE AND SUBMIT AIR BALANCING AND WATER BALANCING REPORTS TO THE ENGINEER OF RECORD.
- CONTRACTOR SHALL INCLUDE PROVISIONS FOR TEMPORARY PIPING AND DUCTWORK AS REQUIRED TO MAINTAIN SERVICE TO OTHER BUILDING SPACES.
- ALL WORK GENERATING OBJECTIONABLE NOISE SHALL BE PERFORMED AFTER HOURS.
- CONFIRM ALL SLAB PENETRATION(S) LOCATIONS FROM CENTER LINE OF COLUMN(S). ALL FLOOR CORE LOCATIONS WILL HAVE TO BE APPROVED BY LANDLORD'S STRUCTURAL ENGINEERS.
- CONTRACTOR SHALL PRESSURE TEST ALL DUCTWORK IN ACCORDANCE WITH CODES AND BUILDING STANDARDS. TESTING SHALL BE DONE IN THE PRESENCE OF BUILDING ENGINEER STAFF.
- CONTRACTOR SHALL PRESSURE TEST ALL PIPING IN ACCORDANCE WITH CODES AND BUILDING STANDARDS. TESTING SHALL BE DONE IN THE PRESENCE OF BUILDING ENGINEER STAFF.
- CONTROLLED INSPECTION BY A LICENSED PROFESSIONAL ENGINEER TO BE HIRED BY THIS CONTRACTOR.
- CONTRACTOR TO PROVIDE UL LISTED FIRE STOPPING SYSTEM FOR ALL THROUGH PENETRATIONS INCLUDING BUT NOT LIMITED TO DUCTWORK, PIPING, HANGERS, CONDUIT, ETC.
- MANUFACTURERS SYSTEM MUST BE PART OF A UL RATED SYSTEM. LOCATIONS AND TYPES OF FIRESTOPPING SYSTEM INSTALLATIONS SHALL BE COORDINATED WITH ARCHITECTURAL AND LIFE SAFETY PLANS TO DETERMINE SCOPE.
- CONTRACTOR TO PROVIDE ENGINEER WITH ASSOCIATED MANUFACTURER'S UL DETAIL OF ALL APPLICABLE PENETRATIONS FOR APPROVAL.
- FIRE STOPPING SYSTEMS MANUFACTURERS SHALL BE HILTI, 3M, STI, OR APPROVED EQUAL.
- CONTRACTOR TO COORDINATE FIRE STOPPING INSTALLATION WITH PROJECT SPECIAL INSPECTOR PRIOR TO INSTALLATION. FIRESTOPPING INSTALLATION INSPECTION SHALL BE PROVIDED BY SPECIAL INSPECTOR. ALL APPLICABLE FIRESTOPPING SYSTEM UL DETAILS SHALL BE AVAILABLE FOR SPECIAL INSPECTOR REVIEW.

OUTDOOR AIR CALCULATIONS								
ROOM DESIG.	CLASSIFICATION	AREA (SQ.FT.)	OCCUPANT DENSITY (# PEOPLE/1000 FT <sup>2</sup> )	OCCUPANCY	CFM/FT <sup>2</sup>	CFM/PERSON	REQUIRED O.A. CFM	DESIGN O.A. CFM
STOCK 001	STORAGE ROOMS	641	-	-	0.12	-	85	
PANTRY 002	BREAK ROOMS	40	25	3	0.06	5	21	
MANAGER OFFICE 003	OFFICE	75	5	1	0.06	5	12	
STOCK 005	STORAGE ROOMS	17	-	-	0.12	-	2	
STOCK 102	SALES	1252	15	14	0.12	1.5	243	506
ADA FRM 104	SALES	64	15	2	0.12	1.5	24	31

NOTES:

- BASED ON TABLE 6-1 OF ASHRAE 62.1 2007.

DRAWING LIST:	
NUMBER	DESCRIPTION
M-100	H.V.A.C. TITLE SHEET
M-101	H.V.A.C. SPECIFICATIONS SHEET 1 OF 3
M-102	H.V.A.C. SPECIFICATIONS SHEET 2 OF 3
M-103	H.V.A.C. SPECIFICATIONS SHEET 3 OF 3
M-300	H.V.A.C. CELLAR PLAN
M-301	H.V.A.C. GROUND FLOOR PLAN
M-400	H.V.A.C. PIPING PLAN
M-600	H.V.A.C. SCHEDULES SHEET 1 OF 2
M-601	H.V.A.C. SCHEDULES SHEET 2 OF 2
M-700	H.V.A.C. DETAILS SHEET 1 OF 3
M-701	H.V.A.C. DETAILS SHEET 2 OF 3
M-701	H.V.A.C. DETAILS SHEET 3 OF 3

DRAWING NOTATIONS	
SYMBOL	DESCRIPTION
	SEE REFERENCE NOTE APPLICABLE TO THIS DRAWING. NOTE NUMBER INDICATED BY NUMERAL IN DIAMOND.
	DETAIL REFERENCE TAG
	INDICATES DETAIL NUMBER
	INDICATES DRAWING NUMBER
	ELEVATION REFERENCE TAG
	INDICATES DETAIL NUMBER
	INDICATES DRAWING NUMBER
	POINT OF CONNECTION TO EXISTING
	POINT OF DISCONNECTION
	CUT AND GAP

SYMBOL LIST:	
SYMBOL	DESCRIPTION
	SUPPLY DIFFUSER (FOR SIZE, TYPE, ETC. SEE AIR OUTLET SCHEDULE)
	DIFFUSER TAG (SEE AIR OUTLET SCHEDULE)
	INDICATES C.F.M.
	SUPPLY DIFFUSER (FOR SIZE, TYPE, ETC. SEE AIR OUTLET SCHEDULE)
	DIFFUSER TAG (SEE AIR OUTLET SCHEDULE)
	INDICATES C.F.M.
	RETURN REGISTER (FOR SIZE, TYPE, ETC. SEE AIR OUTLET SCHEDULE)
	TRANSFER OPENING ABOVE HUNG CEILING
	TRANSFER AIR GRILLE
	DOOR UNDERCUT
	DUCTWORK (SEE SPECIFICATIONS)
	CLEAR INSIDE DIMENSIONS (FIRST NUMBER INDICATES PLAN SIZE)
	SUPPLY GRILLE (FOR SIZE, TYPE, ETC. SEE AIR OUTLET SCHEDULE)
	DIFFUSER TAG (SEE AIR OUTLET SCHEDULE)
	INDICATES C.F.M.
	DUCT FLEXIBLE CONNECTION
	DUCTWORK WITH ACOUSTICAL LINING (DUCT SIZE NOTED INDICATES CLEAR INSIDE DIMENSION)
	ACOUSTICALLY LINED TRANSFER AIR DUCT WITH 1" A.L. & WMS
	ACCESS DOOR IN DUCT
	COMBINATION FIRE AND SMOKE DAMPER (FSD) WITH ACCESS DOOR & SMOKE DETECTOR/FIRE DAMPER (FD) WITH ACCESS DOOR
	DUCT VOLUME DAMPER
	CABLE OPERATED DAMPER TO BE USED FOR ALL SUPPLY AND RETURN DIFFUSERS IN SHEETROCK OR IN ACCESSIBLE CEILING.
	FUSIBLE LINK FIRE DAMPER WITH DUCT ACCESS DOOR (SD INDICATES SMOKE TYPE DAMPER, FSD INDICATES FIRE/SMOKE TYPE DAMPER. SEE SPECIFICATIONS)
	FIRE SMOKE DAMPER WITH ACCESS DOOR
	BRANCH TAKEOFF
	DUCT RISE CONNECTIONS
	DUCT DROP CONNECTIONS
	EXISTING DIFFUSER
	EXISTING DUCTWORK OR PIPING TO REMAIN.
	SUPPLY DUCTWORK UP
	RETURN DUCTWORK DOWN
	NEW THERMOSTAT
	TEMPERATURE SENSOR
	DUCT TYPE SMOKE DETECTOR
	MOTORIZED DAMPER
	CONTROL WIRING
	DIRECTION OF AIRFLOW
	SERVICE CLEARANCE
	ELECTRIC DUCT HEATER
	AC UNIT WITH AUXILIARY STAINLESS STEEL DRIP PAN

ABBREVIATIONS:	
ABBREVIATION	DESCRIPTION
AC	AIR CONDITIONING
AD	ACCESS DOOR
A.F.F.	ABOVE FINISHED FLOOR
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSE POWER
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
CAV	CONSTANT AIR VOLUME
CD	CEILING DIFFUSER AND/OR CONDENSATE DRAIN
COD	CABLE OPERATED DAMPER
CP	CONDENSATE PUMP
CU	CONDENSING UNIT
CR	CEILING RETURN
DN	DOWN
DP	DRIP PAN
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ENT	ENTERING WATER TEMPERATURE
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD/AD	FIRE DAMPER WITH ACCESS DOOR
FLA	FULL LOAD AMPS
FSD	FIRE SMOKE DAMPER
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
KW	KILOWATT
KWH	KILOWATT HOURS
LAT	LEAVING AIR TEMPERATURE
LD	LINEAR DIFFUSER (CEILING, WALL, SILL, OR FLOOR) AND/OR LEAK DETECTOR
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MD	MOTORIZED DAMPER
N.I.C	NOT IN THIS CONTRACT
N.T.S.	NOT TO SCALE
OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
PSIG	POUNDS PER SQUARE INCH (GAUGE)
RG	RETURN GRILLE
RPM	REVOLUTIONS PER MINUTE
SD	SMOKE DETECTOR
SG	SUPPLY GRILLE
SS	STAINLESS STEEL
TD	TRANSFER DUCT
VD	VOLUME DAMPER
V.I.F.	VERIFY IN FIELD
WMS	WIRE MESH SCREEN

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Issue	Date	Issue	Date
A. ISSUE FOR LL REVIEW & HISTORIC REVIEW	07/10/2015		
B. ISSUE FOR DEMO PERMIT	07/20/2015		
C. ISSUE FOR PERMIT	07/24/2015		

Project:

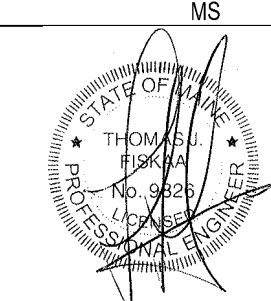
FAT FACE PORTLAND  
34 EXCHANGE STREET  
PORTLAND, ME 04104

Drawing Title

H.V.A.C. TITLE SHEET

Project No.	Drawn By	Date	Scale
15.102.00	MS		

Seal MS Floor(s)



Drawing No. M-100

THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

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