



**GENERAL MECHANICAL NOTES**

1. ALL NOTES, ABBREVIATIONS AND SYMBOLS ON THIS DRAWING APPLY TO ALL THE MECHANICAL DRAWINGS IN THIS PACKAGE.
2. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL MATERIAL, CONSTRUCTION, WORKMANSHIP, TESTING AND COMMISSIONING REQUIREMENTS. WHERE A CONFLICT EXISTS BETWEEN THE SPECIFICATION AND PROJECT DRAWINGS THE MORE STRINGENT REQUIREMENT SHALL APPLY.
3. ALL MECHANICAL WORK TO BE DONE IN ACCORDANCE WITH THE GENERAL CONTRACTORS PHASING PLAN.
4. ALL MECHANICAL WORK TO BE DONE IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE - 2009 EDITION AND ITS ADDENDUMS, SMACNA DUCT CONSTRUCTION STANDARDS - 2005, SMACNA FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE - 2002, NFPA 90A - STANDARD FOR THE INSTALLATION OF VENTILATION AND AIR CONDITIONING SYSTEMS - 2009.
5. INSTALL ALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE CONFLICTS EXIST BETWEEN PROJECT DOCUMENTS AND MANUFACTURER'S RECOMMENDATIONS THE MORE STRINGENT REQUIREMENT SHALL APPLY.
6. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY DAMAGE CAUSED BY THE MECHANICAL CONTRACTOR TO ANY NEW OR EXISTING BUILDING SYSTEMS.
7. COORDINATE INSTALLATIONS WITH THE GENERAL CONTRACTOR, STRUCTURAL, ELECTRICAL AND ARCHITECTURAL DESIGN. CONSULT STRUCTURAL ENGINEER BEFORE ANY MODIFICATIONS TO STRUCTURAL MEMBERS.
8. THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC. THE EXACT LOCATION OF MECHANICAL EQUIPMENT AND SYSTEMS IS TO BE DETERMINED BY THE MECHANICAL CONTRACTOR.
9. PROVIDE OFFSETS AS REQUIRED TO ROUTE PIPING AND DUCT AROUND OTHER BUILDING SYSTEMS AND EQUIPMENT.
10. SEAL PENETRATIONS THROUGH PARTITIONS FOR SOUND. SEAL FIRE RATED PARTITIONS IN ACCORDANCE WITH UL APPROVED ASSEMBLY FOR THE ASSOCIATED FIRE RATINGS. PROVIDE FIRE DAMPER AND ASSOCIATED ACCESS DOOR WHERE FIRE DAMPERS ARE INDICATED ON THE MECHANICAL PLANS.
11. SEE DETAILS FOR TYPICAL INSTALLATIONS NOT SHOWN ON THE MECHANICAL PLANS.
12. ALL MECHANICAL DUCT AND PIPING IS TO BE CONCEALED IN WALLS, FLOORS AND CEILINGS UNLESS NOTED OTHERWISE. PROVIDE ACCESS PANELS WHERE REQUIRED TO ACCESS VALVES, DAMPERS, CONTROLS AND OTHER MAINTENANCE ITEMS.
13. COORDINATE MECHANICAL FLOOR, WALL AND ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR.
14. PROVIDE EQUIPMENT, PIPING AND DUCTWORK INSULATION AS REQUIRED IN THE PROJECT SPECIFICATION.
15. PROVIDE HVAC CONTROLS AS REQUIRED IN THE PROJECT SPECIFICATION.

**ABBREVIATIONS**

ADJ	ADJUSTABLE
AFF	ABOVE FLOOR FACE
BFF	BELOW FLOOR FACE
BFP	BACK FLOW PREVENTER
BTU	BRITISH THERMAL UNIT
BHP	BRAKE HORSEPOWER
CFM	CUBIC FEET PER MINUTE
CO	CLEAN OUT
COA	CONDITIONED OUTSIDE AIR
DB	DRY BULB
ESP	EXTERNAL STATIC PRESSURE
F	DEGREE FAHRENHITE
FO	FUEL OIL
FCO	FLOOR CLEAN OUT
FPW	FIRE PROTECTION WATER
HRV	HEAT RECOVERY VENTILATOR
HRVEXH	HEAT RECOVERY VENTILATOR EXHAUST
HWR	HYDRONIC WATER RETURN
HWS	HYDRONIC WATER SUPPLY
MBH	1000 BTU PER HOUR
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PEX	CROSS LINKED POLYETHYLENE
RLF	RELIEF AIR
SP	STATIC PRESSURE
TSP	TOTAL STATIC PRESSURE
WB	WET BULB
WC	WATER COLUMN

**SYMBOLS**

	CLEAN OUT
	PIPE CONTINUOUS
	HYDRONIC SUPPLY
	HYDRONIC RETURN
	UNDERGROUND / UNDERSLAB PIPE
	SUPPLY DUCT
	RETURN DUCT
	SUPPLY DIFFUSER
	BLANKED OFF DIRECTION OF SUPPLY DIFFUSER
	RETURN GRILLE
	VOLUME DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	MODULATING MOTORIZED DAMPER
	TWO POSITION MOTORIZED DAMPER
	PIPE DROP
	PIPE RISER
	BALL VALVE
	GATE VALVE
	CHECK VALVE
	RELIEF VALVE
	BALANCE VALVE
	CIRCULATION PUMP
	Y - STRAINER
	VACUUM BREAKER
	AUTOMATIC VENT
	MANUAL VENT
	THERMOMETER IN THERMOWELL
	PRESSURE GAUGE W/ PETCOCK
	PIPE REDUCER / INCREASER
	TIE-IN TO EXISTING SYSTEM
	CAP
	LOCKABLE VALVE
	DIFFUSER / RETURN TAG #
	DESIGN AIRFLOW IN CFM
	THERMOSTAT
	HUMIDITY SENSOR
	TEMPERATURE SENSOR
	MOTION SENSOR
	SMOKE DETECTOR
	CO2 SENSOR
	FLOW SENSOR
	FREEZE STAT
	PRESSURE REGULATOR
	MODULATING CONTROL VALVE
	TWO POSITION CONTROL VALVE
	BACK FLOW PREVENTER

ARCHITECT:

**REED & CO. ARCHITECTURE**  
46 CUMBERLAND AVE  
PORTLAND, ME 04101  
207 874 5678

INTERIOR DESIGNER:

**COLE DESIGN**  
PO BOX 361  
KITTERY, ME 03904  
207 653 0083

STRUCTURAL ENGINEER

**SHELLEY ENGINEERING**  
PO BOX 1030  
GRAY, ME 04039  
207 657 9031

MECHANICAL ENGINEER:

**HOLBROOK ENGINEERING**  
52 HEATH RD  
SACO, ME 04072  
207 283 9127

ELECTRICAL ENGINEER:

**BARTLETT DESIGN**  
942 WASHINGTON STREET  
BATH, MAINE 04530  
207 443 5447

**PROPOSED IMPROVEMENTS**

**PEAKS ISLAND COMMUNITY CENTER & LIBRARY**

Title:  
**NOTES, ABBREVIATIONS AND SYMBOLS**  
Sheet No.

**M1.0**

Scale: NTS  
Date:  
Revised:

FOR REVIEW  
12/21/16