

SPLIT-SYSTEM AIR CONDITIONING NOTES:

MATERIALS

SPLIT-SYSTEM UNITS: BY CARRIER ELECTRIC OR APPROVED EQUAL.

CONTACTORS SHALL BE HEAVY-DUTY DOUBLE POLE DEVICES, DESIGNED FOR HARD STARTS.

INSULATION MATERIALS FOR PIPING:

- 1) FLEXIBLE ELASTOMERIC CELLULAR INSULATION: FLEXIBLE EXPANDED CLOSED-CELL STRUCTURE WITH SMOOTH SKIN ON BOTH SIDES; TUBULAR MATERIALS, ASTM C 534, TYPE 1; SHEET MATERIALS, ASTM C 534, TYPE II.
- 2) FIRE PERFORMANCE: TYPE SUITABLE FOR SERVICE.
- 3) VAPOR BARRIER: TYPE SUITABLE FOR SERVICE.
- 4) INSULATION ACCESSORIES: INSULATING CEMENTS, ADHESIVE JACKETS TAPE, BANDS, WIRE AND SEALING COMPOUNDS SUITABLE FOR SERVICE AND EXPOSURE.

INSTALLATION

INSTALL MATERIALS AND SYSTEM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SUBMITTALS. INSTALL MATERIALS IN PROPER RELATION WITH ADJACENT CONSTRUCTION AND WITH UNIFORM APPEARANCE FOR EXPOSED WORK. COORDINATE WITH WORK OF OTHER SECTIONS. COMPLY WITH APPLICABLE REGULATIONS AND CODE REQUIREMENTS. PROVIDE PROPER CLEARANCES FOR SERVICING.

SUPPORT PIPING PROPERLY. PITCH TO DRAIN POINTS. INSTALL WITH PIPE EXPANSION LOOPS; MECHANICAL EXPANSION JOINTS, AND ANCHORS.

MAINTAIN INDICATED FIRE RATINGS OF WALLS, PARTITIONS, CEILINGS AND FLOORS AT PENETRATIONS. SEAL WITH FIRESTOPPING TO MAINTAIN FIRE RATING.

INSTALL REFRIGERANT LINES ON SPLIT-SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INSULATE LINES. FOR EXTERIOR APPLICATIONS, USE ULTRAVIOLET-RESISTANT INSULATION. USE PVC SLEEPERS TO SUPPORT LINES, A MAXIMUM OF 4 FEET ON CENTER ACROSS ROOFS AND FLAT SURFACES.

CHARGE THE HVAC SYSTEM, TEST FOR LEAKS, AND VERIFY THE UNIT IS FULLY OPERATIONAL. CLEARLY LABEL AND TAG ALL COMPONENTS. TEST AND BALANCE ALL SYSTEMS FOR PROPER OPERATION. REMOVE AND REPLACE UNITS WHICH DO NOT OPERATE PROPERLY AT NO ADDITIONAL EXPENSE TO COMPANY.

RESTORE DAMAGED FINISHES. CLEAN AND PROTECT WORK FROM DAMAGE.

SUBMITTALS

PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED.

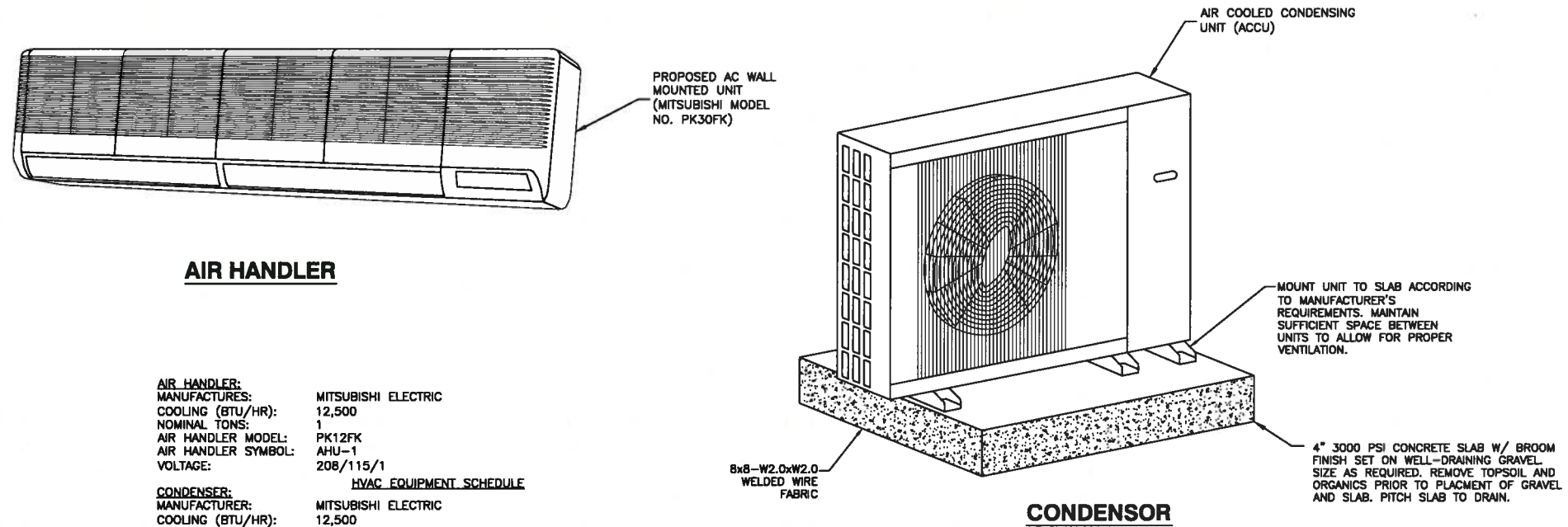
OPERATION AND MAINTENANCE DATA: SUBMIT MANUFACTURER'S OPERATION AND MAINTENANCE DATA, INCLUDING OPERATING INSTRUCTIONS, LIST OF SPARE PARTS AND MAINTENANCE SCHEDULE.

QUALITY ASSURANCE

COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

COMPLIANCE: ARI 210,360; ASHRAE 15; ASME CODE.

WARRANTY: WARRANTY FOR HVAC COMPONENTS SHALL BEGIN WHEN THE UNIT IS DELIVERED.



AIR HANDLER

CONDENSOR

AIR HANDLER:		
MANUFACTURER:	MITSUBISHI ELECTRIC	
COOLING (BTU/HR):	12,500	
NOMINAL TONS:	1	
AIR HANDLER MODEL:	PK12FK	
AIR HANDLER SYMBOL:	AHU-1	
VOLTAGE:	208/115/1	
	<u>HVAC EQUIPMENT SCHEDULE</u>	
CONDENSER:		
MANUFACTURER:	MITSUBISHI ELECTRIC	
COOLING (BTU/HR):	12,500	
NOMINAL TONS:	1	
CONDENSER MODEL:	PU12EK	
CONDENSER SYMBOL:	CU-1	
VOLTAGE:	208/115/1	
CONDENSATE PUMP:		
VENDOR MODEL:	MITSUBISHI ELECTRIC	
PUMP SYMBOL:	S11730-115	
	CP-1	

HVAC DETAIL
SCALE: N.T.S.

1



22 KEEWAYDIN DRIVE
SALEM, NH 03079

HOLT HALL
SITE NO.: ME2980

CONSTRUCTION DRAWINGS	
0	03/15/13 FOR CONSTRUCTION
A	03/12/13 FOR COMMENT

Dewberry
Dewberry Engineers Inc.
220 SUMMER STREET
11TH FLOOR
BOSTON, MA 02210
PHONE: 617 895-3400
FAX: 617 895-3310

STATE OF MAINE
PROFESSIONAL ENGINEER
PATRICK P. BARRY
12942

DRAWN BY:	MR
REVIEWED BY:	DAS
CHECKED BY:	PPB
PROJECT NUMBER:	50003936
JOB NUMBER:	50048548
SITE ADDRESS:	

794 CONGRESS STREET
PORTLAND, ME 04102

SHEET TITLE

MECHANICAL DETAILS

SHEET NUMBER